

[Kubecronic] Руководство администратора

## Оглавление

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Для установки ПО необходимы:

- доступ уровня Администратор к работающим кластерам kubernetes
- доступ к экземляру redis для хранения блокировок

Установка и настройка этих систем выходит за рамки данной инструкции

Для установки kubecronic в кластера kubernetes необходимо отредактировать следующие манифесты (знаком # будут помечены пункты, требующие ввода данных. Для каждого кластера kubernetes данные могут отличаться)

00-crd.yaml. Устанавливается без изменений

```
apiVersion: apiextensions.k8s.io/v1
kind: CustomResourceDefinition
metadata:
 annotations:
  controller-gen.kubebuilder.io/version: v0.14.0
 name: cronjobs.kubecronic.vseinstrumenti.ru
spec:
 group: kubecronic.vseinstrumenti.ru
 names:
  kind: CronJob
  listKind: CronJobList
  plural: cronjobs
  singular: cronjob
 scope: Namespaced
 versions:
 - additionalPrinterColumns:
  - jsonPath: .status.active
   name: Active
   type: string
  - jsonPath: .status.datacenter
   name: Datacenter
   type: string
  name: v1
  schema:
   openAPIV3Schema:
```

properties: apiVersion: description: I-APIVersion defines the versioned schema of this representation of an object. Servers should convert recognized schemas to the latest internal value, and may reject unrecognized values. More info: https://git.k8s.io/community/contributors/devel/sig-architecture/apiconventions.md#resources type: string kind: description: |-Kind is a string value representing the REST resource this object represents. Servers may infer this from the endpoint the client submits requests to. Cannot be updated. In CamelCase. More info: https://git.k8s.io/community/contributors/devel/sig-architecture/apiconventions.md#types-kinds type: string metadata: type: object spec: properties: concurrencyPolicy: description: |-Specifies how to treat concurrent executions of a Job. Valid values are:

> - "Allow" (default): allows CronJobs to run concurrently; - "Forbid": forbids concurrent runs, skipping next run if previous run hasn't finished yet; - "Replace": cancels currently running job and replaces it with a new one type: string failedJobsHistoryLimit: format: int32 minimum: 0 type: integer jobTemplate: properties: metadata: properties: annotations: additionalProperties: type: string type: object finalizers: items: type: string type: array labels: additionalProperties: type: string type: object name: type: string namespace:

type: string

type: object spec: properties: backoffLimit: format: int32 type: integer completions: format: int32 type: integer selector: description: |-A label selector is a label query over a set of resources. The result of matchLabels and matchExpressions are ANDed. An empty label selector matches all objects. A null label selector matches no objects. properties: matchExpressions: description: matchExpressions is a list of label selector requirements. The requirements are ANDed. items: description: |-A label selector requirement is a selector that contains values, a key, and an operator relates the key and values. properties: key: description: key is the label key that the selector applies to. type: string operator: description: |operator represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists and DoesNotExist. type: string values: description: |values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch. items: type: string type: array required: - key - operator type: object type: array matchLabels: additionalProperties: type: string description: |matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are

that

## ANDed.

type: object

type: object x-kubernetes-map-type: atomic template: description: PodTemplateSpec describes the data a pod should have when created from a template properties: metadata: description: |-Standard object's metadata. More info: https://git.k8s.io/community/contributors/devel/sig-architecture/apiconventions.md#metadata properties: annotations: additionalProperties: type: string type: object finalizers: items: type: string type: array labels: additionalProperties: type: string type: object name: type: string namespace: type: string type: object spec: description: |-Specification of the desired behavior of the pod. More info: https://git.k8s.io/community/contributors/devel/sig-architecture/apiconventions.md#spec-and-status properties: activeDeadlineSeconds: description: |-Optional duration in seconds the pod may be active on the node relative to StartTime before the system will actively try to mark it failed and kill associated containers. Value must be a positive integer. format: int64 type: integer affinity: description: If specified, the pod's scheduling constraints properties: nodeAffinity: description: Describes node affinity scheduling rules for the pod. properties: preferredDuringSchedulingIgnoredDuringExecution: description: |-The scheduler will prefer to schedule pods to nodes that satisfy the affinity expressions specified by this field, but it may choose a node that violates one or more of the expressions. The node that is most preferred is the one with the greatest sum of weights, i.e.

	for each node that meets all of the scheduling requirements (resource
	request, requiredDuringScheduling affinity expressions, etc.),
	compute a sum by iterating through the elements of this field and adding
	"weight" to the sum if the node matches the corresponding matchExpressions;
the	
	node(s) with the highest sum are the most preferred.
	items:
	description:  -
	An empty preferred scheduling term matches all objects with implicit weight 0
	(i.e. it's a no-op). A null preferred scheduling term matches no objects (i.e. is
also a no-op).	
	properties:
	preference:
	description: A node selector term, associated
	with the corresponding weight.
	properties:
	matchExpressions:
	description: A list of node selector
	requirements by node's labels.
	items:
	description:  -
	A node selector requirement is a selector that contains values, a key,
and an operator	
	that relates the key and values.
	properties:
	key:
	description: The label key
	that the selector applies
	to.
	type: string
	operator:
	description:  -
	Represents a key's relationship to a set of values.
	Valid operators are In, NotIn, Exists, DoesNotExist. Gt, and Lt.
	type: string
	values:
	description:  -
	An array of string values. If the operator is In or NotIn,
	the values array must be non-empty. If the operator is Exists or
DoesNotExist,	
	the values array must be empty. If the operator is Gt or Lt, the values
	array must have a single element, which will be interpreted as an
integer.	
	This array is replaced during a strategic merge patch.
	items:
	type: string
	type: array
	required:
	- key
	- operator
	type: object
	type: array
	matchFields:
	description: A list of node selector
	requirements by node's fields.
	items:

	description:  -
	A node selector requirement is a selector that contains values, a key,
and an operator	
·	that relates the key and values.
	properties:
	key:
	description: The label key
	that the selector applies
	to.
	type: string
	operator:
	description:  -
	Represents a key's relationship to a set of values.
	Valid operators are In, NotIn, Exists, DoesNotExist. Gt, and Lt.
	type: string
	values:
	description:  -
	An array of string values. If the operator is In or NotIn,
	the values array must be non-empty. If the operator is Exists or
DoesNotExist,	
	the values array must be empty. If the operator is Gt or Lt, the values
	array must have a single element, which will be interpreted as an
integer.	
	This array is replaced during a strategic merge patch.
	items:
	type: string
	type: array
	required:
	- key
	- operator
	type: object
	type: array
	type: object
	x-kubernetes-map-type: atomic
	weight:
	description: Weight associated with
	matching the corresponding nodeSelectorTerm,
	in the range 1-100.
	format: int32
	type: integer
	required:
	- preference
	- weight
	type: object
	type: array
	requiredDuringSchedulingIgnoredDuringExecution:
	description:  -
	If the affinity requirements specified by this field are not met at
	scheduling time, the pod will not be scheduled onto the node.
	If the affinity requirements specified by this field cease to be met
	at some point during pod execution (e.g. due to an update), the system
	may or may not try to eventually evict the pod from its node.
	properties:
	nodeSelectorTerms:
	description: Required. A list of node
	selector terms. The terms are ORed.

	items:
	description:  -
	A null or empty node selector term matches no objects. The requirements
of	
	them are ANDed.
	The TopologySelectorTerm type implements a subset of the
NodeSelectorTerm.	
	properties:
	matchExpressions:
	description: A list of node selector
	requirements by node's labels.
	items:
	description:  -
	A node selector requirement is a selector that contains values, a key,
and an operator	A node selector requirement is a selector that contains values, a key,
and an operator	that relates the key and values.
	properties:
	key:
	description: The label key
	that the selector applies
	to.
	type: string
	operator:
	description:  -
	Represents a key's relationship to a set of values.
	Valid operators are In, NotIn, Exists, DoesNotExist. Gt, and Lt.
	type: string
	values:
	description:  -
	An array of string values. If the operator is In or NotIn,
	the values array must be non-empty. If the operator is Exists or
DoesNotExist,	
	the values array must be empty. If the operator is Gt or Lt, the values
	array must have a single element, which will be interpreted as an
integer.	
	This array is replaced during a strategic merge patch.
	items:
	type: string
	type: array
	required:
	- key
	- operator
	type: object
	type: array
	matchFields:
	description: A list of node selector
	requirements by node's fields.
	items:
	description:  -
	A node selector requirement is a selector that contains values, a key,
and an operator	
	that relates the key and values.
	properties:
	• •
	key: description: The label key
	description: The label key
	that the selector applies

	to.
	type: string
	operator:
	description:  -
	Represents a key's relationship to a set of values.
	Valid operators are In, NotIn, Exists, DoesNotExist. Gt, and Lt.
	type: string
	values:
	description:  -
	An array of string values. If the operator is In or NotIn,
	the values array must be non-empty. If the operator is Exists or
DoesNotExist,	
	the values array must be empty. If the operator is Gt or Lt, the values
• .	array must have a single element, which will be interpreted as an
integer.	This second is a solution of the factor is second at the
	This array is replaced during a strategic merge patch.
	items:
	type: string
	type: array
	required:
	- key
	- operator
	type: object
	type: array
	type: object
	x-kubernetes-map-type: atomic
	type: array required:
	- nodeSelectorTerms
	type: object
	x-kubernetes-map-type: atomic
	type: object
	podAffinity:
	description: Describes pod affinity scheduling
	rules (e.g. co-locate this pod in the same node,
	zone, etc. as some other pod(s)).
	properties:
	preferredDuringSchedulingIgnoredDuringExecution:
	description:  -
	The scheduler will prefer to schedule pods to nodes that satisfy
	the affinity expressions specified by this field, but it may choose
	a node that violates one or more of the expressions. The node that is
	most preferred is the one with the greatest sum of weights, i.e.
	for each node that meets all of the scheduling requirements (resource
	request, requiredDuringScheduling affinity expressions, etc.),
	compute a sum by iterating through the elements of this field and adding
	"weight" to the sum if the node has pods which matches the corresponding
podAffinityTerm; the	
	node(s) with the highest sum are the most preferred.
	items:
	description: The weights of all of the matched
	WeightedPodAffinityTerm fields are added
	per-node to find the most preferred node(s)
	properties:
	podAffinityTerm:
	description: Required. A pod affinity

tern weig	n, associated with the corresponding
	erties:
	elSelector:
	scription: A label query over
	set of resources, in this case
	ods.
	operties:
	natchExpressions:
	description: matchExpressions
	is a list of label selector
	requirements. The requirements
	are ANDed.
	items:
	description:  -
	A label selector requirement is a selector that contains values, a key,
and an operator that	
	relates the key and values.
	properties:
	key:
	description: key is the
	label key that the selector
	applies to.
	type: string
	operator:
	description:  -
	operator represents a key's relationship to a set of values.
	Valid operators are In, NotIn, Exists and DoesNotExist.
	type: string
	values:
	description:  -
	values is an array of string values. If the operator is In or NotIn,
	the values array must be non-empty. If the operator is Exists or
DoesNotExist,	the voluce error must be empty. This error is replaced during a
atrotogia	the values array must be empty. This array is replaced during a
strategic	morgo potob
	merge patch.
	items:
	type: string
	type: array required:
	- key
	- operator
	type: object
	type: object type: array
	natchLabels:
	additionalProperties:
	type: string
	description:  -
	matchLabels is a map of {key,value} pairs. A single {key,value} in the
matchLabels	
	map is equivalent to an element of matchExpressions, whose key field
is "key", the	
• •	operator is "In", and the values array contains only "value". The
requirements are ANDed.	· · ·
	type: object

	type: object
	x-kubernetes-map-type: atomic
	namespaceSelector:
	description:  -
	A label query over the set of namespaces that the term applies to.
	The term is applied to the union of the namespaces selected by this field
	and the ones listed in the namespaces field.
	null selector and null or empty namespaces list means "this pod's
namespace".	
nameepace :	An empty selector ({}) matches all namespaces.
	properties:
	matchExpressions:
	description: matchExpressions
	is a list of label selector
	requirements. The requirements
	are ANDed.
	items:
	description:  -
and an anaratar that	A label selector requirement is a selector that contains values, a key,
and an operator that	relates the law and values
	relates the key and values.
	properties:
	key:
	description: key is the
	label key that the selector
	applies to.
	type: string
	operator:
	description:  -
	operator represents a key's relationship to a set of values.
	Valid operators are In, NotIn, Exists and DoesNotExist.
	type: string
	values:
	description:  -
	values is an array of string values. If the operator is In or NotIn,
	the values array must be non-empty. If the operator is Exists or
DoesNotExist,	
	the values array must be empty. This array is replaced during a
strategic	
5	merge patch.
	items:
	type: string
	type: array
	required:
	- key
	- operator
	type: object
	type: array
	matchLabels:
	additionalProperties:
	type: string
	description:  -
	matchLabels is a map of {key,value} pairs. A single {key,value} in the
matchLabels	matoricabole is a map of troy, values pairs. A single trey, values in the
	map is equivalent to an element of matchExpressions, whose key field
is "key", the	
10 NOY , 110	

	operator is "In", and the values array contains only "value". The
requirements are ANDed.	
	type: object
	type: object
	x-kubernetes-map-type: atomic
	namespaces:
	description:  -
	namespaces specifies a static list of namespace names that the term
applies to.	The term is emplied to the union of the memory and listed in this field
	The term is applied to the union of the namespaces listed in this field
	and the ones selected by namespaceSelector.
nod'a nomochaco"	null or empty namespaces list and null namespaceSelector means "this
pod's namespace".	items:
	type: string type: array
	topologyKey:
	description:  -
	This pod should be co-located (affinity) or not co-located (anti-affinity)
with the pods matching	This pour should be co-located (annity) of hot co-located (anti-annity)
with the pous matching	the labelSelector in the specified namespaces, where co-located is
defined as running on a n	· · ·
	whose value of the label with key topologyKey matches that of any node
on which any of the	whose value of the label with key topology key matches that of any node
on which any of the	selected pods is running.
	Empty topologyKey is not allowed.
	type: string
	required:
	- topologyKey
	type: object
	weight:
	description:  -
	weight associated with matching the corresponding podAffinityTerm,
	in the range 1-100.
	format: int32
	type: integer
	required:
	- podAffinityTerm
	- weight
	type: object
	ype: array
	equiredDuringSchedulingIgnoredDuringExecution:
(	description:  -
	If the affinity requirements specified by this field are not met at
	scheduling time, the pod will not be scheduled onto the node.
	If the affinity requirements specified by this field cease to be met
	at some point during pod execution (e.g. due to a pod label update), the
	system may or may not try to eventually evict the pod from its node.
	When there are multiple elements, the lists of nodes corresponding to each podAffinityTerm are intersected, i.e. all terms must be satisfied.
;	tems:
I	description:  -
	Defines a set of pods (namely those matching the labelSelector
	relative to the given namespace(s)) that this pod should be
	co-located (affinity) or not co-located (anti-affinity) with,
	where co-located is defined as running on a node whose value of

	the label with key <topologykey> matches that of any node on which a pod of the set of pods is running</topologykey>
r	properties:
	labelSelector:
	description: A label query over a set
	of resources, in this case pods.
	properties:
	matchExpressions:
	description: matchExpressions is
	a list of label selector requirements.
	The requirements are ANDed.
	items:
	description:  -
	A label selector requirement is a selector that contains values, a key,
and an operator that	
	relates the key and values.
	properties:
	key:
	description: key is the label
	key that the selector applies
	to.
	type: string
	operator:
	description:  -
	operator represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists and DoesNotExist.
	type: string
	values:
	description:  -
	values is an array of string values. If the operator is In or NotIn,
	the values array must be non-empty. If the operator is Exists or
DoesNotExist,	
,	the values array must be empty. This array is replaced during a
strategic	
5	merge patch.
	items:
	type: string
	type: array
	required:
	- key
	- operator
	type: object
	type: array
	matchLabels:
	additionalProperties:
	type: string
	description:  -
matchi akala	matchLabels is a map of {key,value} pairs. A single {key,value} in the
matchLabels	man is aquivalant to an alamant of matchEvaragiana, whose key field is
"kov" the	map is equivalent to an element of matchExpressions, whose key field is
"key", the	operator is "In" and the values array contains only "value". The
requirements are ANDed.	operator is "In", and the values array contains only "value". The
requirements are ANDeu.	type: object
	type: object
	x-kubernetes-map-type: atomic

	namaanaasSalaatar
	namespaceSelector: description:  -
	A label query over the set of namespaces that the term applies to.
	The term is applied to the union of the namespaces selected by this field
	and the ones listed in the namespaces field.
	null selector and null or empty namespaces list means "this pod's
namespace".	
·	An empty selector ({}) matches all namespaces.
	properties:
	matchExpressions:
	description: matchExpressions is
	a list of label selector requirements.
	The requirements are ANDed.
	items:
	description:  -
and an operator that	A label selector requirement is a selector that contains values, a key,
	relates the key and values.
	properties:
	key:
	description: key is the label
	key that the selector applies
	to.
	type: string
	operator:
	description:  -
	operator represents a key's relationship to a set of values.
	Valid operators are In, NotIn, Exists and DoesNotExist. type: string
	values:
	description:  -
	values is an array of string values. If the operator is In or NotIn,
	the values array must be non-empty. If the operator is Exists or
DoesNotExist,	
	the values array must be empty. This array is replaced during a
strategic	
	merge patch.
	items:
	type: string
	type: array required:
	- key
	- operator
	type: object
	type: array
	matchLabels:
	additionalProperties:
	type: string
	description:  -
	matchLabels is a map of {key,value} pairs. A single {key,value} in the
matchLabels	mon is an inclusive on class set of motol European in the set of the Press
"kov" the	map is equivalent to an element of matchExpressions, whose key field is
"key", the	operator is "In", and the values array contains only "value". The
requirements are ANDed.	operator is in , and the values analy contains only value . The
	type: object
	·/F ·· · · · · · · ·

	type: object
	x-kubernetes-map-type: atomic
	namespaces:
	description:  -
	namespaces specifies a static list of namespace names that the term
applies to.	
	The term is applied to the union of the namespaces listed in this field
	and the ones selected by namespaceSelector.
	null or empty namespaces list and null namespaceSelector means "this
pod's namespace".	11
	items:
	type: string type: array
	topologyKey:
	description:  -
	This pod should be co-located (affinity) or not co-located (anti-affinity) with
the pods matching	······································
1 0	the labelSelector in the specified namespaces, where co-located is defined
as running on a node	9
	whose value of the label with key topologyKey matches that of any node on
which any of the	
	selected pods is running.
	Empty topologyKey is not allowed.
	type: string
	required: - topologyKey
	type: object
	type: array
	type: object
	podAntiAffinity:
	description: Describes pod anti-affinity scheduling
	rules (e.g. avoid putting this pod in the same
	node, zone, etc. as some other pod(s)).
	properties:
	preferredDuringSchedulingIgnoredDuringExecution:
	description:  -
	The scheduler will prefer to schedule pods to nodes that satisfy the anti-affinity expressions specified by this field, but it may choose
	a node that violates one or more of the expressions. The node that is
	most preferred is the one with the greatest sum of weights, i.e.
	for each node that meets all of the scheduling requirements (resource
	request, requiredDuringScheduling anti-affinity expressions, etc.),
	compute a sum by iterating through the elements of this field and adding
	"weight" to the sum if the node has pods which matches the corresponding
podAffinityTerm; the	
	node(s) with the highest sum are the most preferred.
	items:
	description: The weights of all of the matched
	WeightedPodAffinityTerm fields are added per-node to find the most preferred node(s)
	properties:
	podAffinityTerm:
	description: Required. A pod affinity
	term, associated with the corresponding
	weight.
	properties:

	labelSelector: description: A label query over a set of resources, in this case
	pods.
	properties:
	matchExpressions:
	description: matchExpressions
	is a list of label selector
	requirements. The requirements
	are ANDed.
	items:
	description:  -
and an operator that	A label selector requirement is a selector that contains values, a key,
	relates the key and values.
	properties:
	key:
	description: key is the
	label key that the selector
	applies to.
	type: string
	operator:
	description:  -
	operator represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists and DoesNotExist.
	type: string
	values:
	description:  -
	values is an array of string values. If the operator is In or NotIn,
DecoNotEvict	the values array must be non-empty. If the operator is Exists or
DoesNotExist,	the values array must be empty. This array is replaced during a
strategic	the values analy must be empty. This analy is replaced during a
enatogio	merge patch.
	items:
	type: string
	type: array
	required:
	- key
	- operator
	type: object
	type: array
	matchLabels:
	additionalProperties:
	type: string description:  -
	matchLabels is a map of {key,value} pairs. A single {key,value} in the
matchLabels	
	map is equivalent to an element of matchExpressions, whose key field
is "key", the	
•	operator is "In", and the values array contains only "value". The
requirements are ANDed.	
	type: object
	type: object
	x-kubernetes-map-type: atomic namespaceSelector:

	description:  -
	A label query over the set of namespaces that the term applies to.
	The term is applied to the union of the namespaces selected by this field
	and the ones listed in the namespaces field.
	null selector and null or empty namespaces list means "this pod's
namespace".	
	An empty selector ({}) matches all namespaces.
	properties:
	matchExpressions:
	description: matchExpressions
	is a list of label selector
	requirements. The requirements
	are ANDed.
	items:
	description:  -
	A label selector requirement is a selector that contains values, a key,
and an operator that	
	relates the key and values.
	properties:
	key:
	description: key is the
	label key that the selector
	applies to.
	type: string
	operator:
	description:  -
	operator represents a key's relationship to a set of values.
	Valid operators are In, NotIn, Exists and DoesNotExist.
	type: string
	values:
	description:  -
	values is an array of string values. If the operator is In or NotIn,
	the values array must be non-empty. If the operator is Exists or
DoesNotExist,	
	the values array must be empty. This array is replaced during a
strategic	
	merge patch.
	items:
	type: string
	type: array
	required:
	- key
	- operator
	type: object
	type: array
	matchLabels:
	additionalProperties:
	type: string description:  -
	matchLabels is a map of {key,value} pairs. A single {key,value} in the
matchLabels	matcheabers is a map of trey, value? pails. A single trey, value? In the
maidheadeis	map is equivalent to an element of matchExpressions, whose key field
is "key", the	
	operator is "In", and the values array contains only "value". The
requirements are ANDed.	operator to inf, and the values and y contains only value . The
	type: object
	·/

type: object	
x-kubernetes-map-type: atomic	
namespaces:	
description:  -	
namespaces specifies a static list of namespace names that the term	n
applies to.	J
The term is applied to the union of the namespaces listed in this field	ג
and the ones selected by namespaceSelector.	4 la 1 a
null or empty namespaces list and null namespaceSelector means "t	inis
pod's namespace".	
items:	
type: string	
type: array	
topologyKey:	
description:  -	
This pod should be co-located (affinity) or not co-located (anti-affinity	/)
with the pods matching	
the labelSelector in the specified namespaces, where co-located is	
defined as running on a node	
whose value of the label with key topologyKey matches that of any n	loae
on which any of the	
selected pods is running.	
Empty topologyKey is not allowed.	
type: string	
required:	
- topologyKey	
type: object	
weight:	
description:  -	
weight associated with matching the corresponding podAffinityTerm,	
in the range 1-100.	
format: int32	
type: integer	
required:	
- podAffinityTerm	
- weight	
type: object	
type: array	
requiredDuringSchedulingIgnoredDuringExecution:	
description:  -	
If the anti-affinity requirements specified by this field are not met at	
scheduling time, the pod will not be scheduled onto the node.	
If the anti-affinity requirements specified by this field cease to be met	
at some point during pod execution (e.g. due to a pod label update), the	
system may or may not try to eventually evict the pod from its node.	
When there are multiple elements, the lists of nodes corresponding to each	า
podAffinityTerm are intersected, i.e. all terms must be satisfied.	
items:	
description:  -	
Defines a set of pods (namely those matching the labelSelector	
relative to the given namespace(s)) that this pod should be	
co-located (affinity) or not co-located (anti-affinity) with,	
where co-located is defined as running on a node whose value of	
the label with key <topologykey> matches that of any node on which</topologykey>	
a pod of the set of pods is running	
properties:	
1 .1	

	labelSelector: description: A label query over a set
	of resources, in this case pods.
	properties:
	matchExpressions:
	description: matchExpressions is
	a list of label selector requirements.
	The requirements are ANDed.
	items: description:  -
	A label selector requirement is a selector that contains values, a key,
and an operator that	
·	relates the key and values.
	properties:
	key:
	description: key is the label
	key that the selector applies
	to. type: string
	operator:
	description:  -
	operator represents a key's relationship to a set of values.
	Valid operators are In, NotIn, Exists and DoesNotExist.
	type: string
	values:
	description:  -
	values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or
DoesNotExist,	the values analy must be non-empty. If the operator is Exists of
	the values array must be empty. This array is replaced during a
strategic	
-	merge patch.
	items:
	type: string
	type: array
	required: - key
	- operator
	type: object
	type: array
	matchLabels:
	additionalProperties:
	type: string
	description:  -
matchLabels	matchLabels is a map of {key,value} pairs. A single {key,value} in the
matcheabers	map is equivalent to an element of matchExpressions, whose key field is
"key", the	
	operator is "In", and the values array contains only "value". The
requirements are ANDed.	
-	type: object
	type: object
	x-kubernetes-map-type: atomic
	namespaceSelector:
	description:  - A label query over the set of namespaces that the term applies to.

	The term is applied to the union of the namespaces selected by this field and the ones listed in the namespaces field.
	null selector and null or empty namespaces list means "this pod's
namespace".	
	An empty selector ({}) matches all namespaces.
	properties: matchExpressions:
	description: matchExpressions is
	a list of label selector requirements.
	The requirements are ANDed.
	items:
	description:  -
	A label selector requirement is a selector that contains values, a key,
and an operator that	
	relates the key and values.
	properties:
	key:
	description: key is the label
	key that the selector applies
	to.
	type: string
	operator:
	description:  - operator represents a key's relationship to a set of values.
	Valid operators are In, NotIn, Exists and DoesNotExist.
	type: string
	values:
	description:  -
	values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or
DoesNotExist,	the values analy must be non-empty. If the operation is Exists of
	the values array must be empty. This array is replaced during a
strategic	
C	merge patch.
	items:
	type: string
	type: array
	required:
	- key
	- operator
	type: object
	type: array
	matchLabels: additionalProperties:
	type: string
	description:  -
	matchLabels is a map of {key,value} pairs. A single {key,value} in the
matchLabels	
	map is equivalent to an element of matchExpressions, whose key field is
"key", the	
-	operator is "In", and the values array contains only "value". The
requirements are ANDed.	
	type: object
	type: object
	x-kubernetes-map-type: atomic
	namespaces:

	description:  -	
applies to.	namespaces specifies a static list of namespace names that the term	
	The term is applied to the union of the namespaces listed in this field and the ones selected by namespaceSelector. null or empty namespaces list and null namespaceSelector means "this	
pod's namespace".	items:	
	type: string	
	type: array	
	topologyKey: description:  -	
	This pod should be co-located (affinity) or not co-located (anti-affinity) with	
the pods matching	the level Selector in the apacified homeopasses, where as leveled is defined	
as running on a node	the labelSelector in the specified namespaces, where co-located is defined	
	whose value of the label with key topologyKey matches that of any node on	
which any of the	selected pods is running.	
	Empty topologyKey is not allowed.	
	type: string	
	required: - topologyKey	
	type: object	
	type: array	
	/pe: object	
	e: object nountServiceAccountToken:	
	cription: AutomountServiceAccountToken indicates	
whether a service account token should be automatically		
mounted.		
type: boolean containers:		
	cription:  -	
List of containers belonging to the pod.		
Containers cannot currently be added or removed. There must be at least one container in a Pod.		
	annot be updated.	
item		
description: A single application container that you want to run within a pod.		
properties:		
	rgs:	
	description:  - Arguments to the entrypoint.	
	The container image's CMD is used if this is not provided.	
	Variable references \$(VAR_NAME) are expanded using the container's	
environment. If a variab	le cannot be resolved, the reference in the input string will be unchanged. Double	
\$\$ are reduced	carnot be resolved, the reference in the input string will be unchanged. Double	
	to a single \$, which allows for escaping the \$(VAR_NAME) syntax: i.e.	
"\$\$(VAR_NAME)" will	produce the string literal "\$(VAR_NAME)". Escaped references will never be	
expanded, regardless	of whether the variable exists or not. Cannot be updated.	

More info: https://kubernetes.io/docs/tasks/inject-data-application/definecommand-argument-container/#running-a-command-in-a-shell items: type: string type: array command: description: |-Entrypoint array. Not executed within a shell. The container image's ENTRYPOINT is used if this is not provided. Variable references \$(VAR\_NAME) are expanded using the container's environment. If a variable cannot be resolved, the reference in the input string will be unchanged. Double \$\$ are reduced to a single \$, which allows for escaping the \$(VAR NAME) syntax: i.e. "\$\$(VAR NAME)" will produce the string literal "\$(VAR\_NAME)". Escaped references will never be expanded, regardless of whether the variable exists or not. Cannot be updated. More info: https://kubernetes.io/docs/tasks/inject-data-application/definecommand-argument-container/#running-a-command-in-a-shell items: type: string type: array env: description: |-List of environment variables to set in the container. Cannot be updated. items: description: EnvVar represents an environment variable present in a Container. properties: name: description: Name of the environment variable. Must be a C\_IDENTIFIER. type: string value: description: |-Variable references \$(VAR NAME) are expanded using the previously defined environment variables in the container and any service environment variables. If a variable cannot be resolved, the reference in the input string will be unchanged. Double \$\$ are reduced to a single \$, which allows for escaping the \$(VAR\_NAME) syntax: i.e. "\$\$(VAR\_NAME)" will produce the string literal "\$(VAR\_NAME)". Escaped references will never be expanded, regardless of whether the variable exists or not. Defaults to "". type: string valueFrom: description: Source for the environment variable's value. Cannot be used if value is not empty. properties: configMapKeyRef: description: Selects a key of a ConfigMap. properties:

key: description: The key to select. type: string name: description: I-Name of the referent. More info: https://kubernetes.io/docs/concepts/overview/working-withobjects/names/#names TODO: Add other useful fields. apiVersion, kind, uid? type: string optional: description: Specify whether the ConfigMap or its key must be defined type: boolean required: - key type: object x-kubernetes-map-type: atomic fieldRef: description: |-Selects a field of the pod: supports metadata.name, metadata.namespace, `metadata.labels['<KEY>']`, `metadata.annotations['<KEY>']`, spec.nodeName, spec.serviceAccountName, status.hostIP, status.podIP, status.podIPs. properties: apiVersion: description: Version of the schema the FieldPath is written in terms of, defaults to "v1". type: string fieldPath: description: Path of the field to select in the specified API version. type: string required: - fieldPath type: object x-kubernetes-map-type: atomic resourceFieldRef: description: |-Selects a resource of the container: only resources limits and requests (limits.cpu, limits.memory, limits.ephemeral-storage, requests.cpu, requests.memory and requests.ephemeral-storage) are currently supported. properties: containerName: description: 'Container name: required for volumes, optional for env vars' type: string divisor: anyOf: - type: integer - type: string description: Specifies the output

```
format of the exposed resources,
                                  defaults to "1"
                                 pattern: ^(\+|-)?(([0-9]+(\.[0-9]*)?)|(\.[0-
9]+))(([KMGTPE]i)|[numkMGTPE]|([eE](\+|-)?(([0-9]+(\.[0-9]*)?)|(\.[0-9]+))))?$
                                 x-kubernetes-int-or-string: true
                                resource:
                                 description: 'Required: resource
                                  to select'
                                 type: string
                              required:
                              - resource
                              type: object
                              x-kubernetes-map-type: atomic
                             secretKevRef:
                              description: Selects a key of a secret
                               in the pod's namespace
                              properties:
                               key:
                                 description: The key of the secret
                                  to select from. Must be a valid
                                  secret key.
                                 type: string
                                name:
                                 description: |-
                                  Name of the referent.
                                  More info: https://kubernetes.io/docs/concepts/overview/working-with-
objects/names/#names
                                  TODO: Add other useful fields. apiVersion, kind, uid?
                                 type: string
                                optional:
                                 description: Specify whether the
                                  Secret or its key must be defined
                                 type: boolean
                              required:
                              - key
                              type: object
                              x-kubernetes-map-type: atomic
                            type: object
                         required:
                         - name
                         type: object
                        type: array
                       envFrom:
                        description: |-
                         List of sources to populate environment variables in the container.
                         The keys defined within a source must be a C_IDENTIFIER. All invalid keys
                         will be reported as an event when the container is starting. When a key exists in
multiple
                         sources, the value associated with the last source will take precedence.
                         Values defined by an Env with a duplicate key will take precedence.
                         Cannot be updated.
                        items:
                         description: EnvFromSource represents the
                          source of a set of ConfigMaps
                         properties:
                          configMapRef:
```

	description: The ConfigMap to select from
	properties:
	name:
	description:  -
	Name of the referent.
objects/pames/#pame	More info: https://kubernetes.io/docs/concepts/overview/working-with-
objects/names/#name	TODO: Add other useful fields. apiVersion, kind, uid?
	type: string
	optional:
	description: Specify whether the ConfigMap
	must be defined
	type: boolean
	type: object
	x-kubernetes-map-type: atomic
	prefix:
	description: An optional identifier to
	prepend to each key in the ConfigMap.
	Must be a C_IDENTIFIER.
	type: string
	secretRef:
	description: The Secret to select from
	properties:
	name:
	description:  -
	Name of the referent.
	More info: https://kubernetes.io/docs/concepts/overview/working-with-
objects/names/#name	
	TODO: Add other useful fields. apiVersion, kind, uid?
	type: string
	optional:
	description: Specify whether the Secret
	must be defined
	type: boolean
	type: object
	x-kubernetes-map-type: atomic
	type: object type: array
	image: description:  -
	Container image name.
	More info: https://kubernetes.io/docs/concepts/containers/images
	This field is optional to allow higher level config management to default or
override	
overnue	container images in workload controllers like Deployments and StatefulSets.
	type: string
	imagePullPolicy:
	description:  -
	Image pull policy.
	One of Always, Never, IfNotPresent.
	Defaults to Always if : latest tag is specified, or IfNotPresent otherwise.
	Cannot be updated.
	More info: https://kubernetes.io/docs/concepts/containers/images#updating-
images	
-	type: string
	lifecycle:

	description:  -
	Actions that the management system should take in response to container
lifecycle events.	
-	Cannot be updated.
	properties:
	postStart:
	description:  -
	PostStart is called immediately after a container is created. If the handler fails,
	the container is terminated and restarted according to its restart policy.
	Other management of the container blocks until the hook completes.
	More info: https://kubernetes.io/docs/concepts/containers/container-lifecycle-
hooks/#container-hooks	3
	properties:
	exec:
	description: Exec specifies the action
	to take.
	properties:
	command:
	description:  -
	Command is the command line to execute inside the container, the
working directory for the	9
	command is root ('/') in the container's filesystem. The command is
simply exec'd, it is	
	not run inside a shell, so traditional shell instructions (' ', etc) won't work.
To use	
	a shell, you need to explicitly call out to that shell.
	Exit status of 0 is treated as live/healthy and non-zero is unhealthy.
	items:
	type: string
	type: array
	type: object
	httpGet:
	description: HTTPGet specifies the http
	request to perform.
	properties:
	host:
	description:  -
	Host name to connect to, defaults to the pod IP. You probably want to
set	
	"Host" in httpHeaders instead.
	type: string
	httpHeaders:
	description: Custom headers to set
	in the request. HTTP allows repeated
	headers.
	items:
	description: HTTPHeader describes
	a custom header to be used in
	HTTP probes
	properties:
	name:
	description: The header field
	name
	type: string
	value:
	description: The header field

```
value
         type: string
       required:
       - name
       - value
       type: object
      type: array
     path:
      description: Path to access on the
       HTTP server.
      type: string
     port:
      anvOf:
      - type: integer
      - type: string
      description: |-
       Name or number of the port to access on the container.
       Number must be in the range 1 to 65535.
       Name must be an IANA_SVC_NAME.
      x-kubernetes-int-or-string: true
     scheme:
      description: |-
       Scheme to use for connecting to the host.
       Defaults to HTTP.
      type: string
   required:
   - port
   type: object
  tcpSocket:
   description: |-
     Deprecated. TCPSocket is NOT supported as a LifecycleHandler and kept
    for the backward compatibility. There are no validation of this field and
    lifecycle hooks will fail in runtime when tcp handler is specified.
   properties:
    host:
      description: 'Optional: Host name
       to connect to, defaults to the
       pod IP.'
      type: string
     port:
      anyOf:
      - type: integer
      - type: string
      description: |-
       Number or name of the port to access on the container.
       Number must be in the range 1 to 65535.
       Name must be an IANA SVC NAME.
      x-kubernetes-int-or-string: true
   required:
   - port
   type: object
 type: object
preStop:
 description: |-
  PreStop is called immediately before a container is terminated due to an
  API request or management event such as liveness/startup probe failure,
```

	preemption, resource contention, etc. The handler is not called if the container crashes or exits. The Pod's termination grace period countdown
begins before the	
	PreStop hook is executed. Regardless of the outcome of the handler, the container will eventually terminate within the Pod's termination grace period (unless delayed by finalizers). Other management of the container
blocks until the hook comp	pletes
	or until the termination grace period is reached. More info: https://kubernetes.io/docs/concepts/containers/container-lifecycle-
hooks/#container-hooks	
	properties:
	exec:
	description: Exec specifies the action to take.
	properties:
	command:
	description:  -
	Command is the command line to execute inside the container, the
working directory for the	
	command is root ('/') in the container's filesystem. The command is
simply exec'd, it is	
	not run inside a shell, so traditional shell instructions (' ', etc) won't work.
To use	
	a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.
	items:
	type: string
	type: array
	type: object httpGet:
	description: HTTPGet specifies the http
	request to perform.
	properties:
	host:
	description:  -
	Host name to connect to, defaults to the pod IP. You probably want to
set	
	"Host" in httpHeaders instead.
	type: string
	httpHeaders:
	description: Custom headers to set
	in the request. HTTP allows repeated
	headers.
	items:
	description: HTTPHeader describes
	a custom header to be used in
	HTTP probes
	properties:
	name:
	description: The header field
	name
	type: string
	value:
	description: The header field
	value
	type: string

```
required:
          - name
          - value
          type: object
        type: array
       path:
         description: Path to access on the
          HTTP server.
        type: string
        port:
        anyOf:
        - type: integer
         - type: string
        description: |-
          Name or number of the port to access on the container.
          Number must be in the range 1 to 65535.
          Name must be an IANA SVC NAME.
        x-kubernetes-int-or-string: true
        scheme:
        description: |-
          Scheme to use for connecting to the host.
          Defaults to HTTP.
        type: string
      required:
      - port
      type: object
     tcpSocket:
      description: |-
       Deprecated. TCPSocket is NOT supported as a LifecycleHandler and kept
       for the backward compatibility. There are no validation of this field and
       lifecycle hooks will fail in runtime when tcp handler is specified.
      properties:
       host:
        description: 'Optional: Host name
          to connect to, defaults to the
          pod IP.'
        type: string
       port:
        anvOf:
        - type: integer
        - type: string
        description: |-
          Number or name of the port to access on the container.
          Number must be in the range 1 to 65535.
          Name must be an IANA SVC NAME.
        x-kubernetes-int-or-string: true
      required:
      - port
      type: object
   type: object
 type: object
livenessProbe:
 description: |-
  Periodic probe of container liveness.
  Container will be restarted if the probe fails.
  Cannot be updated.
```

	More info: https://kubernetes.io/docs/concepts/workloads/pods/pod-
lifecycle#container-prob	
	properties:
	exec:
	description: Exec specifies the action to take.
	properties:
	command:
	description:  -
	Command is the command line to execute inside the container, the working
directory for the	
directory for the	command is root ('/') in the container's filesystem. The command is simply
exec'd, it is	
exec d, it is	not run incide a shall, so traditional shall instructions ("", ota) won't work. To
1122	not run inside a shell, so traditional shell instructions (' ', etc) won't work. To
use	a shall way as ad to availatily call and to that shall
	a shell, you need to explicitly call out to that shell.
	Exit status of 0 is treated as live/healthy and non-zero is unhealthy.
	items:
	type: string
	type: array
	type: object
	failureThreshold:
	description:  -
	Minimum consecutive failures for the probe to be considered failed after
having succeeded.	
	Defaults to 3. Minimum value is 1.
	format: int32
	type: integer
	grpc:
	description:  -
	GRPC specifies an action involving a GRPC port.
	This is a beta field and requires enabling GRPCContainerProbe feature gate.
	properties:
	port:
	description: Port number of the gRPC
	service. Number must be in the range
	1 to 65535.
	format: int32
	type: integer
	service:
	description:  -
	Service is the name of the service to place in the gRPC
HealthCheckRequest	Dervice is the name of the service to place in the give of
TreatmenteckRequest	(see https://github.com/grpc/grpc/blob/master/doc/health-checking.md).
	If this is not specified, the default behavior is defined by gRPC.
	type: string
	required:
	- port
	type: object
	httpGet:
	description: HTTPGet specifies the http
	request to perform.
	properties:
	host:

description: |-Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead. type: string httpHeaders: description: Custom headers to set in the request. HTTP allows repeated headers. items: description: HTTPHeader describes a custom header to be used in HTTP probes properties: name: description: The header field name type: string value: description: The header field value type: string required: - name - value type: object type: array path: description: Path to access on the HTTP server. type: string port: anyOf: - type: integer - type: string description: |-Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA SVC NAME. x-kubernetes-int-or-string: true scheme: description: |-Scheme to use for connecting to the host. Defaults to HTTP. type: string required: - port type: object initialDelaySeconds: description: |-Number of seconds after the container has started before liveness probes are More info: https://kubernetes.io/docs/concepts/workloads/pods/podlifecycle#container-probes format: int32

type: integer periodSeconds:

initiated.

	description:  - How often (in seconds) to perform the probe. Default to 10 seconds. Minimum value is 1. format: int32 type: integer successThreshold:
	description:  - Minimum consecutive successes for the probe to be considered successful
after having failed.	Defaults to 1. Must be 1 for liveness and startup. Minimum value is 1. format: int32
	type: integer tcpSocket:
	description: TCPSocket specifies an action involving a TCP port.
	properties:
	host: description: 'Optional: Host name to
	connect to, defaults to the pod IP.'
	type: string
	port: anyOf:
	- type: integer
	- type: string
	description:  -
	Number or name of the port to access on the container.
	Number must be in the range 1 to 65535.
	Name must be an IANA_SVC_NAME.
	x-kubernetes-int-or-string: true
	required:
	- port type: object
	terminationGracePeriodSeconds:
	description:  -
	Optional duration in seconds the pod needs to terminate gracefully upon
probe failure.	
ned are cent	The grace period is the duration in seconds after the processes running in the
pod are sent	a termination aignal and the time when the processes are foreibly belted with
a kill signal.	a termination signal and the time when the processes are forcibly halted with
a kiii siynai.	Set this value longer than the expected cleanup time for your process. If this value is nil, the pod's terminationGracePeriodSeconds will be used.
Otherwise, this	
	value overrides the value provided by the pod spec.
	Value must be non-negative integer. The value zero indicates stop
immediately via	
,	the kill signal (no opportunity to shut down).
	This is a beta field and requires enabling ProbeTerminationGracePeriod
feature gate.	
	Minimum value is 1. spec.terminationGracePeriodSeconds is used if unset. format: int64
	type: integer
	timeoutSeconds:
	description:  -
	Number of seconds after which the probe times out. Defaults to 1 second. Minimum value is 1.

More info: https://kubernetes.io/docs/concepts/workloads/pods/pod-

More Info: https://kubernetes.io/docs/concepts/workioads/pods/pod-	
lifecycle#container-probes	
format: int32	
type: integer	
type: object	
name:	
description:  -	
Name of the container specified as a DNS_LABEL.	
Each container in a pod must have a unique name (DNS_LABEL).	
Cannot be updated.	
type: string	
ports:	
description:  -	
List of ports to expose from the container. Exposing a port here gives	
the system additional information about the network connections a	
container uses, but is primarily informational. Not specifying a port here	
DOES NOT prevent that port from being exposed. Any port which is	
listening on the default "0.0.0.0" address inside a container will be	
accessible from the network.	
Cannot be updated.	
items:	
description: ContainerPort represents a network	
port in a single container.	
properties:	
containerPort:	
description:  -	
Number of port to expose on the pod's IP address.	
This must be a valid port number, $0 < x < 65536$ .	
format: int32	
type: integer	
hostIP:	
description: What host IP to bind the	
external port to.	
type: string	
hostPort:	
description:  -	
Number of port to expose on the host.	
If specified, this must be a valid port number, $0 < x < 65536$ .	
If HostNetwork is specified, this must match ContainerPort.	
Most containers do not need this.	
format: int32	
type: integer	
name:	
description:  -	
If specified, this must be an IANA_SVC_NAME and unique within the po	d.
named port in a pod must have a unique name. Name for the port that ca	an
be	~ '
referred to by services.	
type: string	
protocol:	
default: TCP	
description:  -	
Protocol for port. Must be UDP, TCP, or SCTP.	
Defaults to "TCP".	
type: string	

	required:
	- containerPort
	type: object
	type: array
	x-kubernetes-list-map-keys:
	- containerPort
	- protocol
	x-kubernetes-list-type: map
	readinessProbe:
	description:  -
	Periodic probe of container service readiness.
	Container will be removed from service endpoints if the probe fails.
	Cannot be updated.
	More info: https://kubernetes.io/docs/concepts/workloads/pods/pod-
lifecycle#container-pr	obes
	properties:
	exec:
	description: Exec specifies the action to
	take.
	properties:
	command:
	description:  -
	Command is the command line to execute inside the container, the working
directory for the	
	command is root ('/') in the container's filesystem. The command is simply
exec'd, it is	
exec 0, it is	not run inside a shell, so traditional shell instructions (' ', etc) won't work. To
use	
030	a shell, you need to explicitly call out to that shell.
	Exit status of 0 is treated as live/healthy and non-zero is unhealthy.
	items:
	type: string
	type: array
	type: object
	failureThreshold:
	description:  -
	Minimum consecutive failures for the probe to be considered failed after
having succeeded.	
	Defaults to 3. Minimum value is 1.
	format: int32
	type: integer
	grpc:
	description:  -
	GRPC specifies an action involving a GRPC port.
	This is a beta field and requires enabling GRPCContainerProbe feature gate.
	properties:
	port:
	description: Port number of the gRPC
	service. Number must be in the range
	1 to 65535.
	format: int32
	type: integer
	service:
	description:  -
	Service is the name of the service to place in the gRPC
HealthCheckRequest	

(see https://github.com/grpc/grpc/blob/master/doc/health-checking.md).

```
If this is not specified, the default behavior is defined by gRPC.
   type: string
required:
- port
type: object
httpGet:
 description: HTTPGet specifies the http
  request to perform.
properties:
  host:
   description: |-
    Host name to connect to, defaults to the pod IP. You probably want to set
    "Host" in httpHeaders instead.
   type: string
  httpHeaders:
   description: Custom headers to set in
    the request. HTTP allows repeated
    headers.
   items:
    description: HTTPHeader describes
     a custom header to be used in HTTP
     probes
    properties:
     name:
       description: The header field
        name
       type: string
     value:
       description: The header field
        value
       type: string
    required:
    - name
    - value
    type: object
   type: array
  path:
   description: Path to access on the HTTP
    server.
   type: string
  port:
   anyOf:
   - type: integer
   - type: string
   description: |-
    Name or number of the port to access on the container.
    Number must be in the range 1 to 65535.
    Name must be an IANA_SVC_NAME.
   x-kubernetes-int-or-string: true
  scheme:
   description: |-
    Scheme to use for connecting to the host.
    Defaults to HTTP.
```

	type: string
	required:
	- port
	type: object
	initialDelaySeconds:
	description:  -
	Number of seconds after the container has started before liveness probes are
initiated.	
initiated.	Mara info; https://kubaraataa.ja/daaa/aapaanta/warklaada/pada/pada/
	More info: https://kubernetes.io/docs/concepts/workloads/pods/pod-
lifecycle#container-prob	
	format: int32
	type: integer
	periodSeconds:
	description:  -
	How often (in seconds) to perform the probe.
	Default to 10 seconds. Minimum value is 1.
	format: int32
	type: integer
	successThreshold:
	description:  -
	Minimum consecutive successes for the probe to be considered successful
ofter boying foiled	
after having failed.	Defendente 4. Must ha 4 familius and an end startum. Minimum unhus is 4
	Defaults to 1. Must be 1 for liveness and startup. Minimum value is 1.
	format: int32
	type: integer
	tcpSocket:
	description: TCPSocket specifies an action
	involving a TCP port.
	properties:
	host:
	description: 'Optional: Host name to
	connect to, defaults to the pod IP.'
	type: string
	port:
	anyOf:
	- type: integer
	- type: string
	description:  -
	Number or name of the port to access on the container.
	Number must be in the range 1 to 65535.
	Name must be an IANA_SVC_NAME.
	x-kubernetes-int-or-string: true
	required:
	- port
	type: object
	terminationGracePeriodSeconds:
	description:  -
	Optional duration in seconds the pod needs to terminate gracefully upon
probe failure.	Optional duration in seconds the pod needs to terminate gracerally upon
probe failure.	The grace period is the duration in seconds ofter the processes running in the
and successf	The grace period is the duration in seconds after the processes running in the
pod are sent	
	a termination signal and the time when the processes are forcibly halted with
a kill signal.	
	Set this value longer than the expected cleanup time for your process.
	If this value is nil, the pod's terminationGracePeriodSeconds will be used.
Otherwise, this	
value overrides the value provided by the pod spec.	
---	
Value must be non-negative integer. The value zero indicates stop	
immediately via	
the kill signal (no opportunity to shut down).	
This is a beta field and requires enabling ProbeTerminationGracePeriod	
feature gate. Minimum value is 1. spec.terminationGracePeriodSeconds is used if unset.	
format: int64	
type: integer	
timeoutSeconds:	
description:  -	
Number of seconds after which the probe times out.	
Defaults to 1 second. Minimum value is 1.	
More info: https://kubernetes.io/docs/concepts/workloads/pods/pod-	
lifecycle#container-probes	
format: int32	
type: integer	
type: object	
resources:	
description:  -	
Compute Resources required by this container.	
Cannot be updated.	
More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-	
containers/	
properties: limits:	
additionalProperties:	
anyOf:	
- type: integer	
- type: string	
pattern: ^(\+ -)?(([0-9]+(\.[0-9]*)?))(\.[0-	
9]+))(([KMGTPE]i) [numkMĠTPE] ([eÈ](\+ -)?(([0-9]+(\.[0-9]*)?) (\.[0-9]+))))?\$	
x-kubernetes-int-or-string: true	
description:  -	
Limits describes the maximum amount of compute resources allowed.	
More info: https://kubernetes.io/docs/concepts/configuration/manage-	
resources-containers/	
type: object	
requests:	
additionalProperties:	
anyOf:	
- type: integer - type: string	
- type. stilling pattern: ^(\+ -)?(([0-9]+(\.[0-9]*)?))(\.[0-	
9]+))(([KMGTPE]i)[[numkMGTPE] ([eE](\+ -)?(([0-9]+(\.[0-9]*)?)](\.[0-9]+))))?\$	
x-kubernetes-int-or-string: true	
description:  -	
Requests describes the minimum amount of compute resources required.	
If Requests is omitted for a container, it defaults to Limits if that is explicitly	
specified,	
otherwise to an implementation-defined value.	
More info: https://kubernetes.io/docs/concepts/configuration/manage-	
resources-containers/	
type: object	
type: object	
securityContext:	

	description:  -
	SecurityContext defines the security options the container should be run with.
	If set, the fields of SecurityContext override the equivalent fields of
PodSecurityContext.	
	More info: https://kubernetes.io/docs/tasks/configure-pod-container/security-
context/	
	properties:
	allowPrivilegeEscalation:
	description:  -
	AllowPrivilegeEscalation controls whether a process can gain more
	privileges than its parent process. This bool directly controls if
	the no_new_prive flag will be set on the container process.
	AllowPrivilegeEscalation is true always when the container is:
	•
	·
	add:
	description: Added capabilities
	items:
	•
	privileged:
	description:  -
	Processes in privileged containers are essentially equivalent to root on the
host.	
	•
	The default is DefaultProcMount which uses the container runtime defaults for
	This requires the ProcMountType feature flag to be enabled.
	Note that this field cannot be set when spec.os.name is windows.
	type: string
	readOnlyRootFilesystem:
	description:  -
host.	description: Added capabilities items: description: Capability represent POSIX capabilities type type: string type: array drop: description: Removed capabilities items: description: Capability represent POSIX capabilities type type: string type: array type: object privileged: description:  - Run container in privileged mode. Processes in privileged containers are essentially equivalent to root on the Defaults to false. Note that this field cannot be set when spec.os.name is windows. type: boolean procMount: description:  - procMount denotes the type of proc mount to use for the containers. The default is DefaultProcMount which uses the container runtime defaults for readonly paths and masked paths. This requires the ProcMountType feature flag to be enabled. Note that this field cannot be set when spec.os.name is windows. type: string readOnlyRootFilesystem:

	Whether this container has a read-only root filesystem.
	Default is false.
	Note that this field cannot be set when spec.os.name is windows. type: boolean
	runAsGroup:
	description:  -
	The GID to run the entrypoint of the container process. Uses runtime default if unset.
	May also be set in PodSecurityContext. If set in both SecurityContext and
	PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when spec.os.name is windows.
	format: integer
	type: integer runAsNonRoot:
	description:  -
	Indicates that the container must run as a non-root user.
	If true, the Kubelet will validate the image at runtime to ensure that it
	does not run as UID 0 (root) and fail to start the container if it does.
	If unset or false, no such validation will be performed.
	May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. type: boolean
	runAsUser:
	description:  -
	The UID to run the entrypoint of the container process.
	Defaults to user specified in image metadata if unspecified.
	May also be set in PodSecurityContext. If set in both SecurityContext and
	PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when spec.os.name is windows.
	format: int64
	type: integer
	seLinuxOptions:
	description:  -
	The SELinux context to be applied to the container.
fan aash	If unspecified, the container runtime will allocate a random SELinux context
for each	container. May also be set in PodSecurityContext. If set in both
SecurityContext and	container. May also be set in rousecuntycontext. It set in both
	PodSecurityContext, the value specified in SecurityContext takes precedence.
	Note that this field cannot be set when spec.os.name is windows.
	properties:
	level: description: Level is SELinux level
	label that applies to the container.
	type: string
	role:
	description: Role is a SELinux role label that applies to the container.
	type: string
	type:
	description: Type is a SELinux type
	label that applies to the container.
	type: string user:
	description: User is a SELinux user
	label that applies to the container.

type: string	
type: object	
seccompProfile:	
description:  -	
The seccomp options to use by this container. If seccomp options are	
provided at both the pod & container level, the container options	
override the pod options.	
Note that this field cannot be set when spec.os.name is windows.	
properties:	
localhostProfile:	
description:  -	
localhostProfile indicates a profile defined in a file on the node should be	
used.	
The profile must be preconfigured on the node to work.	
Must be a descending path, relative to the kubelet's configured seccomp	
profile location.	
Must only be set if type is "Localhost".	
type: string	
type:	
description:  -	
type indicates which kind of seccomp profile will be applied.	
Valid options are:	
Localhost - a profile defined in a file on the node should be used.	
RuntimeDefault - the container runtime default profile should be used.	
Unconfined - no profile should be applied.	
type: string	
required:	
- type	
type: object	
windowsOptions:	
description:  -	
The Windows specific settings applied to all containers.	
If unspecified, the options from the PodSecurityContext will be used.	
If set in both SecurityContext and PodSecurityContext, the value specified in	
SecurityContext takes precedence.	
Note that this field cannot be set when spec.os.name is linux.	
properties:	
gmsaCredentialSpec:	
description:  -	
GMSACredentialSpec is where the GMSA admission webhook	
(https://github.com/kubernetes-sigs/windows-gmsa) inlines the contents of	
the CMSA cradential area named by the CMSA Cradential SpeeName field	
GMSA credential spec named by the GMSACredentialSpecName field.	
type: string	
gmsaCredentialSpecName:	
description: GMSACredentialSpecName	
is the name of the GMSA credential	
spec to use.	
type: string	
hostProcess:	
description:  -	
HostProcess determines if a container should be run as a 'Host Process'	
container.	

	This field is alpha-level and will only be honored by components that
enable the	
feature	WindowsHostProcessContainers feature flag. Setting this field without the
	flag will result in errors when validating the Pod. All of a Pod's containers
must	have the same effective HostProcess value (it is not allowed to have a mix
of HostProcess	
true	containers and non-HostProcess containers). In addition, if HostProcess is
	then HostNetwork must also be set to true. type: boolean runAsUserName: description:  - The UserName in Windows to run the entrypoint of the container process. Defaults to the user specified in image metadata if unspecified. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes
precedence.	
type startu desc Sta If s If t	type: string pe: object : object pProbe: cription:  - artupProbe indicates that the Pod has successfully initialized. pecified, no other probes are executed until this completes successfully. his probe fails, the Pod will be restarted, just as if the livenessProbe failed.
I hi Pod's lifecycle,	s can be used to provide different probe parameters at the beginning of a
whe	en it might take a long time to load data or warm a cache, than during steady-
state operation.	s cannot be updated.
	re info: https://kubernetes.io/docs/concepts/workloads/pods/pod-
lifecycle#container-probes	
prop exe	erties:
de t pr	escription: Exec specifies the action to ake. operties: command: description:  -
directory for the	Command is the command line to execute inside the container, the working
-	command is root ('/') in the container's filesystem. The command is simply
exec'd, it is	not run inside a shell, so traditional shell instructions (' ', etc) won't work. To
fail	a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy. items: type: string type: array pe: object ureThreshold: escription:  -

having succeeded.	Minimum consecutive failures for the probe to be considered failed after
naving succeeded.	Defaults to 3. Minimum value is 1. format: int32
	type: integer grpc:
	description:  -
	GRPC specifies an action involving a GRPC port. This is a beta field and requires enabling GRPCContainerProbe feature gate.
	properties: port:
	description: Port number of the gRPC service. Number must be in the range
	1 to 65535. format: int32
	type: integer
	service:
	description:  -
HealthCheakBaguagt	Service is the name of the service to place in the gRPC
HealthCheckRequest	(see https://github.com/grpc/grpc/blob/master/doc/health-checking.md).
	If this is not specified, the default behavior is defined by gRPC.
	type: string
	required:
	- port
	type: object
	httpGet:
	description: HTTPGet specifies the http
	request to perform. properties:
	host:
	description:  -
	Host name to connect to, defaults to the pod IP. You probably want to set
	"Host" in httpHeaders instead.
	type: string
	httpHeaders:
	description: Custom headers to set in
	the request. HTTP allows repeated
	headers.
	items:
	description: HTTPHeader describes
	a custom header to be used in HTTP
	probes
	properties:
	name:
	description: The header field name
	type: string
	value:
	description: The header field
	value
	type: string
	required:
	- name

	- value
	type: object
	type: array
	path:
	•
	description: Path to access on the HTTP
	server.
	type: string
	port:
	anyOf:
	- type: integer
	- type: string
	description:  -
	Name or number of the port to access on the container.
	Number must be in the range 1 to 65535.
	Name must be an IANA_SVC_NAME.
	x-kubernetes-int-or-string: true
	scheme:
	description:  -
	Scheme to use for connecting to the host.
	Defaults to HTTP.
	type: string
	required:
	- port
	type: object
	initialDelaySeconds:
	description:  -
	Number of seconds after the container has started before liveness probes are
initiated.	
	More info: https://kubernetes.io/docs/concepts/workloads/pods/pod-
lifecycle#container-pro	
	format: int32
	type: integer
	periodSeconds:
	description:  -
	How often (in seconds) to perform the probe.
	Default to 10 seconds. Minimum value is 1.
	format: int32
	type: integer
	successThreshold:
	description:  -
	Minimum consecutive successes for the probe to be considered successful
after having failed.	
	Defaults to 1. Must be 1 for liveness and startup. Minimum value is 1.
-	
-	•
-	format: int32
-	format: int32 type: integer
-	format: int32 type: integer tcpSocket:
-	format: int32 type: integer tcpSocket: description: TCPSocket specifies an action
-	format: int32 type: integer tcpSocket: description: TCPSocket specifies an action involving a TCP port.
-	format: int32 type: integer tcpSocket: description: TCPSocket specifies an action involving a TCP port. properties:
-	format: int32 type: integer tcpSocket: description: TCPSocket specifies an action involving a TCP port. properties: host:
-	format: int32 type: integer tcpSocket: description: TCPSocket specifies an action involving a TCP port. properties: host: description: 'Optional: Host name to
-	format: int32 type: integer tcpSocket: description: TCPSocket specifies an action involving a TCP port. properties: host:
-	format: int32 type: integer tcpSocket: description: TCPSocket specifies an action involving a TCP port. properties: host: description: 'Optional: Host name to
-	format: int32 type: integer tcpSocket: description: TCPSocket specifies an action involving a TCP port. properties: host: description: 'Optional: Host name to connect to, defaults to the pod IP.' type: string
-	format: int32 type: integer tcpSocket: description: TCPSocket specifies an action involving a TCP port. properties: host: description: 'Optional: Host name to connect to, defaults to the pod IP.' type: string port:
-	format: int32 type: integer tcpSocket: description: TCPSocket specifies an action involving a TCP port. properties: host: description: 'Optional: Host name to connect to, defaults to the pod IP.' type: string

	turou atring
	- type: string description:  -
	Number or name of the port to access on the container.
	Number must be in the range 1 to 65535.
	Name must be an IANA_SVC_NAME.
	x-kubernetes-int-or-string: true
	required:
	- port
	type: object
	terminationGracePeriodSeconds:
	description:  - Optional duration in seconds the pod needs to terminate gracefully upon
probe failure.	Optional duration in seconds the pod needs to terminate gracerdity upon
probe failure.	The grace period is the duration in seconds after the processes running in the
pod are sent	
	a termination signal and the time when the processes are forcibly halted with
a kill signal.	
	Set this value longer than the expected cleanup time for your process.
<b>O</b> (1) (1)	If this value is nil, the pod's terminationGracePeriodSeconds will be used.
Otherwise, this	value overrides the value provided by the pad ence
	value overrides the value provided by the pod spec. Value must be non-negative integer. The value zero indicates stop
immediately via	value must be non-negative integer. The value zero indicates stop
	the kill signal (no opportunity to shut down).
	This is a beta field and requires enabling ProbeTerminationGracePeriod
feature gate.	
	Minimum value is 1. spec.terminationGracePeriodSeconds is used if unset.
	format: int64
	type: integer
	timeoutSeconds: description:  -
	Number of seconds after which the probe times out.
	Defaults to 1 second. Minimum value is 1.
	More info: https://kubernetes.io/docs/concepts/workloads/pods/pod-
lifecycle#container-prot	
	format: int32
	type: integer
	type: object
Ş	stdin:
	description:  - Whether this container should allocate a buffer for stdin in the container runtime.
If this	
	is not set, reads from stdin in the container will always result in EOF.
	Default is false.
	type: boolean
Ş	stdinOnce:
	description:  -
on an ad hu	Whether the container runtime should close the stdin channel after it has been
opened by	a single attach. When stdin is true the stdin stream will remain open across
multiple attach	מ אוועים מנומטוו. איוופון אנווו וא נוטב נווב אנטוון אוופמוון אווו ופווומוון טעפון מנוטאא
	sessions. If stdinOnce is set to true, stdin is opened on container start, is empty
until the	
	first client attaches to stdin, and then remains open and accepts data until the
client disconnects,	

	at which time stdin is closed and remains closed until the container is restarted.
If this	
	flag is false, a container processes that reads from stdin will never receive an
EOF.	
	Default is false
	type: boolean
	terminationMessagePath:
	description:  -
	Optional: Path at which the file to which the container's termination message
	will be written is mounted into the container's filesystem.
	Message written is intended to be brief final status, such as an assertion failure
message.	
	Will be truncated by the node if greater than 4096 bytes. The total message
length across	
	all containers will be limited to 12kb.
	Defaults to /dev/termination-log.
	Cannot be updated.
	type: string
	terminationMessagePolicy:
	description:  -
	Indicate how the termination message should be populated. File will use the
contents of	
	terminationMessagePath to populate the container status message on both
success and failure.	
	FallbackToLogsOnError will use the last chunk of container log output if the
termination	
	message file is empty and the container exited with an error.
	The log output is limited to 2048 bytes or 80 lines, whichever is smaller.
	Defaults to File.
	Cannot be updated.
	type: string
	tty:
	description:  -
	Whether this container should allocate a TTY for itself, also requires 'stdin' to be
true.	
	Default is false.
	type: boolean
	volumeDevices:
	description: volumeDevices is the list of block
	devices to be used by the container.
	items:
	description: volumeDevice describes a mapping
	of a raw block device within a container.
	properties:
	devicePath:
	description: devicePath is the path inside
	of the container that the device will
	be mapped to.
	type: string
	name:
	description: name must match the name
	of a persistentVolumeClaim in the pod
	type: string
	required:
	- devicePath
	- name

<pre>type: array volumeMounts: description:  - Pod volumes to mount into the container's filesystem. Cannot be updated. items: description: VolumeMount describes a mounting of a Volume within a container. properties: mountPath: description:  - Path within the container at which the volume should be mounted. Must not contain ''. type: string mountPropagation determines how mounts are propagated from the host to container and the other way around. When not set, MountPropagationNone is used. This field is beta in 1.10. type: string name: description:  - Mounted read-only if true, read-write otherwise (false or unspecified). Defaults to false. type: string subPath: description:  - Mounted read-only if true, read-write otherwise (false or unspecified). Defaults to false. type: string subPathExpr: description:  - Path within the volume from which the container's volume should be mounted. Behaves similarly to SubPath but environment variable references \$(VAR_NAME) are expanded using the volume's root). SubPathExpr: and SubPath are mutually exclusive. type: string reading reading to '' volume's root). SubPathExpr and SubPath are mutually exclusive. type: string required: - mountPath - name type: string t</pre>	type: object
description:  - Pod volumes to mount into the container's filesystem. Cannot be updated. items: description: VolumeMount describes a mounting of a Volume within a container. properties: mountPath: description:  - Path within the container at which the volume should be mounted. Must not contain ''. type: string mountPropagation: description:  - mountPropagation determines how mounts are propagated from the host to container and the other way around. When not set, MountPropagationNone is used. This field is beta in 1.10. type: string name: description:  - Mounted read-only if true, read-write otherwise (false or unspecified). Defaults to false. type: string readOnly: description:  - Mounted read-only if true, read-write otherwise (false or unspecified). Defaults to false. type: string readOnly: description:  - Mounted read-only if true, read-write otherwise (false or unspecified). Defaults to false. type: string readOnly: description:  - Mounted read-only if true, read-write otherwise (false or unspecified). Defaults to false. type: string subPath: description:  - Path within the volume from which the container's volume should be mounted. Defaults to "" (volume's root). type: string subPathExpr: description:  - Expanded path within the volume from which the container's volume should be mounted. Behaves similarly to SubPath but environment variable references \$(VAR_NAME) are expanded using the container's root). SubPathExpr and SubPath are mutually exclusive. type: string required: - mountPath - name type: object	type: array
Pod volumes to mount into the container's filesystem. Cannot be updated. Items: description: VolumeMount describes a mounting of a Volume within a container. properties: mountPath: description:  - Path within the container at which the volume should be mounted. Must not contain ''.' type: string mountPropagation: description:  - mountPropagation determines how mounts are propagated from the host to container and the other way around. When not set, MountPropagationNone is used. This field is beta in 1.10. type: string name: description: This must match the Name of a Volume. type: string readOnly: description:  - Mounted read-only if true, read-write otherwise (false or unspecified). Defaults to false. type: bolean subPath: description:  - Path within the volume from which the container's volume should be mounted. Defaults to "" (volume's root). type: bolean subPathExpr: description:  - Path within the volume from which the container's volume should be mounted. Defaults to "" (volume's root). type: string subPathExpr: description:  - Defaults to "" (volume's root). type: string subPathExpr: description:  - Defaults to "" (volume's root). type: string subPathExpr: description:  - SubPathExpr and SubPath but environment variable references \$(VAR_NAME) are expanded using the container's environment. Defaults to "" (volume's root). type: string required: - mountPath - name type: string required: - mountPath - name type: object	volumeMounts:
Cannot be updated. items: description: VolumeMount describes a mounting of a Volume within a container. properties: mountPath: description:  - Path within the container at which the volume should be mounted. Must not contain ''. type: string mountPropagation determines how mounts are propagated from the host to container and the other way around. When not set, MountPropagationNone is used. This field is beta in 1.10. type: string name: description: This must match the Name of a Volume. type: string name: description:  - Mounted read-only if true, read-write otherwise (false or unspecified). Defaults to false. type: bolean subPath: description:  - Path within the volume from which the container's volume should be mounted. Defaults to ''' (volume's root). type: string subPathExpr: description:  - Path within the volume from which the container's volume should be mounted. Defaults to ''' (volume's root). type: string subPathExpr: description:  - Defaults to ''' (volume's root). type: string subPathExpr: description:  - Defaults to ''' (volume's root). type: string subPathExpr: description:  - Defaults to ''' (volume's root). type: string subPathExpr: and SubPath but environment variable references \$(VAR_NAME) are expanded using the container's environment. Defaults to ''' (volume's root). type: string required: - mountPath - name type: object	
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workingDir:	
description:  -	
Container's working directory.	
	If not specified, the container runtime's default will be used, which
	might be configured in the container image.
	might be configured in the container image.

Cannot be updated. type: string required: - name type: object type: array dnsConfig: description: |-Specifies the DNS parameters of a pod. Parameters specified here will be merged to the generated DNS configuration based on DNSPolicy. properties: nameservers: description: I-A list of DNS name server IP addresses. This will be appended to the base nameservers generated from DNSPolicy. Duplicated nameservers will be removed. items: type: string type: array options: description: |-A list of DNS resolver options. This will be merged with the base options generated from DNSPolicy. Duplicated entries will be removed. Resolution options given in Options will override those that appear in the base DNSPolicy. items: description: PodDNSConfigOption defines DNS resolver options of a pod. properties: name: description: Required. type: string value: type: string type: object type: array searches: description: |-A list of DNS search domains for host-name lookup. This will be appended to the base search paths generated from DNSPolicy. Duplicated search paths will be removed. items: type: string type: array type: object dnsPolicy: description: |-Set DNS policy for the pod. Defaults to "ClusterFirst". Valid values are 'ClusterFirstWithHostNet', 'ClusterFirst', 'Default' or 'None'. DNS parameters given in DNSConfig will be merged with the policy selected with DNSPolicy. To have DNS options set along with hostNetwork, you have to specify DNS policy explicitly to 'ClusterFirstWithHostNet'. type: string

	ableServiceLinks:
	escription:  -
	EnableServiceLinks indicates whether information about services should be injected
into pod's	environment variables, matching the syntax of Docker links.
	Optional: Defaults to true.
	pe: boolean
	nemeralContainers:
	escription:  - List of ephemeral containers run in this pod. Ephemeral containers may be run in an
existing	
	bod to perform user-initiated actions such as debugging. This list cannot be
specified when	preating a pad, and it cannot be madified by updating the pad spac. In order to add
an	creating a pod, and it cannot be modified by updating the pod spec. In order to add
	ephemeral container to an existing pod, use the pod's ephemeralcontainers
subresource.	
	This field is beta-level and available on clusters that haven't disabled the
EphemeralContainers	reature gate.
	description:  -
	An EphemeralContainer is a temporary container that you may add to an existing
Pod for	···· · · · · · · · · · · · · · ·
rocourco or	user-initiated activities such as debugging. Ephemeral containers have no
resource or	scheduling guarantees, and they will not be restarted when they exit or when a
Pod is	
	removed or restarted. The kubelet may evict a Pod if an ephemeral container
causes the	Pod to exceed its resource allocation.
	To add an ephemeral container, use the ephemeral containers subresource of an
existing	Pod. Ephemeral containers may not be removed or restarted.
	Fou. Epitemeral containers may not be removed of restarted.
	This is a beta feature available on clusters that haven't disabled the
EphemeralContainers	-
4	oroperties: args:
	description:  -
	Arguments to the entrypoint.
	The image's CMD is used if this is not provided.
· · · · · · · · · · · · · · · · · · ·	Variable references \$(VAR_NAME) are expanded using the container's
environment. If a varia	cannot be resolved, the reference in the input string will be unchanged. Double
\$\$ are reduced	cannot be resolved, the reference in the input string will be unchanged. Double
· · · · · · · · · · · · · · · · · · ·	to a single \$, which allows for escaping the \$(VAR_NAME) syntax: i.e.
"\$\$(VAR_NAME)" will	
expanded, regardless	produce the string literal "\$(VAR_NAME)". Escaped references will never be
chpanueu, regaruess	of whether the variable exists or not. Cannot be updated.
	More info: https://kubernetes.io/docs/tasks/inject-data-application/define-
command-argument-c	ontainer/#running-a-command-in-a-shell
	items:

type: string	
type: array	
command:	
description:  -	
	t executed within a shell.
	POINT is used if this is not provided. \$(VAR_NAME) are expanded using the container's
environment. If a variable	
	the reference in the input string will be unchanged. Double
\$\$ are reduced	
	allows for escaping the \$(VAR_NAME) syntax: i.e.
	eral "\$(VAR_NAME)". Escaped references will never be
expanded, regardless	
	ble exists or not. Cannot be updated.
	bernetes.io/docs/tasks/inject-data-application/define-
command-argument-container/#running-a-cor items:	nmand-in-a-shell
type: string	
type: array	
env:	
description:  -	
List of environment	variables to set in the container.
Cannot be updated.	
items:	
	represents an environment
variable present in properties:	a Container.
name:	
	e of the environment variable.
Must be a C_IDE	
type: string	
value:	
description:  -	
	ces \$(VAR_NAME) are expanded
	usly defined environment variables in the container and
	ronment variables. If a variable cannot be resolved,
	the input string will be unchanged. Double \$\$ are reduced
	ich allows for escaping the \$(VAR_NAME) syntax: i.e.
	)" will produce the string literal "\$(VAR_NAME)". ces will never be expanded, regardless of whether the
variable	ces will never be expanded, regardless of whether the
exists or not.	
Defaults to "".	
type: string	
valueFrom:	
description: Source	ce for the environment
	Cannot be used if
value is not emp	ty.
properties:	
configMapKeyRe	
	lects a key of a ConfigMap.
properties: key:	
•	The key to select.
type: string	

name: description: I-Name of the referent. More info: https://kubernetes.io/docs/concepts/overview/working-withobjects/names/#names TODO: Add other useful fields. apiVersion, kind, uid? type: string optional: description: Specify whether the ConfigMap or its key must be defined type: boolean required: - key type: object x-kubernetes-map-type: atomic fieldRef: description: |-Selects a field of the pod: supports metadata.name, metadata.namespace, `metadata.labels['<KEY>']`, `metadata.annotations['<KEY>']`, spec.nodeName, spec.serviceAccountName, status.hostIP, status.podIP, status.podIPs. properties: apiVersion: description: Version of the schema the FieldPath is written in terms of, defaults to "v1". type: string fieldPath: description: Path of the field to select in the specified API version. type: string required: - fieldPath type: object x-kubernetes-map-type: atomic resourceFieldRef: description: |-Selects a resource of the container: only resources limits and requests (limits.cpu, limits.memory, limits.ephemeral-storage, requests.cpu, requests.memory and requests.ephemeral-storage) are currently supported. properties: containerName: description: 'Container name: required for volumes, optional for env vars' type: string divisor: anyOf: - type: integer - type: string description: Specifies the output format of the exposed resources, defaults to "1"

pattern: ^(\+ -)?(([0-9]+(\.[0-9]*)?))(\.[0-
9]+))(([KMGTPE]i) [numkMGTPE] ([eE](\+ -)?(([0-9]+(\.[0-9]*)?) (\.[0-9]+))))?\$
x-kubernetes-int-or-string: true
resource:
description: 'Required: resource
to select'
type: string
required:
- resource
type: object
x-kubernetes-map-type: atomic
secretKeyRef:
description: Selects a key of a secret
in the pod's namespace
properties:
key:
description: The key of the secret
to select from. Must be a valid
secret key.
type: string
name:
description:  -
Name of the referent.
More info: https://kubernetes.io/docs/concepts/overview/working-with-
objects/names/#names
TODO: Add other useful fields. apiVersion, kind, uid?
type: string
optional:
description: Specify whether the
Secret or its key must be defined
type: boolean
required:
- key
type: object
x-kubernetes-map-type: atomic
type: object
required:
- name
type: object
type: array
envFrom:
description:  -
List of sources to populate environment variables in the container.
The keys defined within a source must be a C_IDENTIFIER. All invalid keys
will be reported as an event when the container is starting. When a key exists in
multiple
sources, the value associated with the last source will take precedence.
Values defined by an Env with a duplicate key will take precedence.
Cannot be updated.
items:
description: EnvFromSource represents the
source of a set of ConfigMaps
properties:
configMapRef:
description: The ConfigMap to select from
properties:

name:	
description:  -	
Name of the referent.	46
More info: https://kubernetes.io/docs/concepts/overview/working-wi objects/names/#names	tri-
TODO: Add other useful fields. apiVersion, kind, uid?	
type: string	
optional:	
description: Specify whether the ConfigMap	
must be defined	
type: boolean	
type: object	
x-kubernetes-map-type: atomic	
prefix:	
description: An optional identifier to	
prepend to each key in the ConfigMap.	
Must be a C_IDENTIFIER. type: string	
secretRef:	
description: The Secret to select from	
properties:	
name:	
description:  -	
Name of the referent.	
More info: https://kubernetes.io/docs/concepts/overview/working-wi	th-
objects/names/#names	
TODO: Add other useful fields. apiVersion, kind, uid?	
type: string	
optional:	
description: Specify whether the Secret must be defined	
type: boolean	
type: object	
x-kubernetes-map-type: atomic	
type: object	
type: array	
image:	
description:  -	
Container image name.	
More info: https://kubernetes.io/docs/concepts/containers/images	
type: string	
imagePullPolicy:	
description:  - Image pull policy.	
One of Always, Never, IfNotPresent.	
Defaults to Always if : latest tag is specified, or IfNotPresent otherwise.	
Cannot be updated.	
More info: https://kubernetes.io/docs/concepts/containers/images#updatir	۱g-
images	0
type: string	
lifecycle:	
description: Lifecycle is not allowed for ephemeral	
containers.	
properties: postStart:	
description:  -	

	PostStart is called immediately after a container is created. If the handler fails, the container is terminated and restarted according to its restart policy. Other management of the container blocks until the hook completes. More info: https://kubernetes.io/docs/concepts/containers/container-lifecycle-
hooks/#container-hooks	······································
	properties:
	exec:
	description: Exec specifies the action
	to take.
	properties:
	command:
	description:  - Command is the command line to execute inside the container, the
working directory for the	
working an ootory for the	command is root (1/1) in the container's filesystem. The command is
simply exec'd, it is	
	not run inside a shell, so traditional shell instructions (' ', etc) won't work.
To use	
	a shell, you need to explicitly call out to that shell.
	Exit status of 0 is treated as live/healthy and non-zero is unhealthy.
	items:
	type: string
	type: array
	type: object
	httpGet:
	description: HTTPGet specifies the http
	request to perform.
	properties:
	host:
	description:  - Host name to connect to, defaults to the pod IP. You probably want to
set	Those marine to connect to, defaults to the pod IP. Tou probably want to
Set	"Host" in httpHeaders instead.
	type: string
	httpHeaders:
	description: Custom headers to set
	in the request. HTTP allows repeated
	headers.
	items:
	description: HTTPHeader describes
	a custom header to be used in
	HTTP probes
	properties:
	name:
	description: The header field
	name
	type: string
	value:
	description: The header field value
	type: string
	required:
	- name
	- value
	type: object
	type: array
	-)

```
path:
                               description: Path to access on the
                                HTTP server.
                               type: string
                              port:
                               anyOf:
                               - type: integer
                               - type: string
                               description: |-
                                 Name or number of the port to access on the container.
                                 Number must be in the range 1 to 65535.
                                 Name must be an IANA SVC NAME.
                               x-kubernetes-int-or-string: true
                              scheme:
                               description: |-
                                 Scheme to use for connecting to the host.
                                 Defaults to HTTP.
                               type: string
                             required:
                             - port
                             type: object
                           tcpSocket:
                             description: |-
                              Deprecated. TCPSocket is NOT supported as a LifecycleHandler and kept
                              for the backward compatibility. There are no validation of this field and
                              lifecycle hooks will fail in runtime when tcp handler is specified.
                             properties:
                              host:
                               description: 'Optional: Host name
                                to connect to, defaults to the
                                pod IP.'
                               type: string
                              port:
                               anyOf:
                               - type: integer
                               - type: string
                               description: |-
                                 Number or name of the port to access on the container.
                                 Number must be in the range 1 to 65535.
                                 Name must be an IANA_SVC_NAME.
                               x-kubernetes-int-or-string: true
                             required:
                             - port
                             type: object
                          type: object
                         preStop:
                          description: I-
                           PreStop is called immediately before a container is terminated due to an
                           API request or management event such as liveness/startup probe failure,
                           preemption, resource contention, etc. The handler is not called if the
                           container crashes or exits. The Pod's termination grace period countdown
begins before the
                           PreStop hook is executed. Regardless of the outcome of the handler, the
                           container will eventually terminate within the Pod's termination grace
                           period (unless delayed by finalizers). Other management of the container
```

blocks until the hook completes

	or until the termination grace period is reached.
hooks/#container-hooks	More info: https://kubernetes.io/docs/concepts/containers/container-lifecycle-
HOURS/#CONTAILIEF-HOURS	properties:
	exec:
	description: Exec specifies the action
	to take.
	properties:
	command:
	description:  -
	Command is the command line to execute inside the container, the
working directory for the	
	command is root ('/') in the container's filesystem. The command is
simply exec'd, it is	
-	not run inside a shell, so traditional shell instructions (' ', etc) won't work.
To use	a shall show and the same "site and the deal should be the
	a shell, you need to explicitly call out to that shell.
	Exit status of 0 is treated as live/healthy and non-zero is unhealthy.
	items:
	type: string type: array
	type: object
	httpGet:
	description: HTTPGet specifies the http
	request to perform.
	properties:
	host:
	description:  -
	Host name to connect to, defaults to the pod IP. You probably want to
set	
	"Host" in httpHeaders instead.
	type: string
	httpHeaders:
	description: Custom headers to set
	in the request. HTTP allows repeated
	headers. items:
	description: HTTPHeader describes
	a custom header to be used in
	HTTP probes
	properties:
	name:
	description: The header field
	name
	type: string
	value:
	description: The header field
	value
	type: string
	required:
	- name
	- value
	type: object
	type: array path:
	description: Path to access on the

```
HTTP server.
        type: string
       port:
        anyOf:
         - type: integer
         - type: string
         description: |-
          Name or number of the port to access on the container.
          Number must be in the range 1 to 65535.
          Name must be an IANA_SVC_NAME.
        x-kubernetes-int-or-string: true
       scheme:
         description: |-
          Scheme to use for connecting to the host.
          Defaults to HTTP.
        type: string
      required:
      - port
      type: object
     tcpSocket:
      description: |-
       Deprecated. TCPSocket is NOT supported as a LifecycleHandler and kept
       for the backward compatibility. There are no validation of this field and
       lifecycle hooks will fail in runtime when tcp handler is specified.
      properties:
       host:
         description: 'Optional: Host name
          to connect to, defaults to the
          pod IP.'
        type: string
        port:
        anyOf:
        - type: integer
         - type: string
         description: |-
          Number or name of the port to access on the container.
          Number must be in the range 1 to 65535.
          Name must be an IANA SVC NAME.
        x-kubernetes-int-or-string: true
      required:
      - port
      type: object
   type: object
 type: object
livenessProbe:
 description: Probes are not allowed for ephemeral
  containers.
 properties:
  exec:
   description: Exec specifies the action to
     take.
   properties:
     command:
      description: |-
       Command is the command line to execute inside the container, the working
```

directory for the

overld it is	command is root ('/') in the container's filesystem. The command is simply
exec'd, it is	not run inside a shell, so traditional shell instructions (' ', etc) won't work. To
use	a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy. items: type: string type: array type: object failureThreshold: description:  - Minimum consecutive failures for the probe to be considered failed after
having succeeded.	
	Defaults to 3. Minimum value is 1. format: int32 type: integer grpc: description:  - GRPC specifies an action involving a GRPC port. This is a beta field and requires enabling GRPCContainerProbe feature gate. properties: port: description: Port number of the gRPC service. Number must be in the range 1 to 65535. format: int32 type: integer service: description:  - Service is the name of the service to place in the gRPC
HealthCheckRequest	Service is the flame of the service to place in the grand
	(see https://github.com/grpc/grpc/blob/master/doc/health-checking.md).
	If this is not specified, the default behavior is defined by gRPC. type: string required: - port type: object httpGet: description: HTTPGet specifies the http request to perform. properties: host: description:  - Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead. type: string httpHeaders: description: Custom headers to set in the request. HTTP allows repeated
	headers. items: description: HTTPHeader describes a custom header to be used in HTTP

probes properties: name: description: The header field name type: string value: description: The header field value type: string required: - name - value type: object type: array path: description: Path to access on the HTTP server. type: string port: anyOf: - type: integer - type: string description: |-Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA SVC NAME. x-kubernetes-int-or-string: true scheme: description: |-Scheme to use for connecting to the host. Defaults to HTTP. type: string required: - port type: object initialDelaySeconds: description: |-Number of seconds after the container has started before liveness probes are initiated. More info: https://kubernetes.io/docs/concepts/workloads/pods/podlifecycle#container-probes format: int32 type: integer periodSeconds: description: |-How often (in seconds) to perform the probe. Default to 10 seconds. Minimum value is 1. format: int32 type: integer successThreshold: description: |-Minimum consecutive successes for the probe to be considered successful after having failed. Defaults to 1. Must be 1 for liveness and startup. Minimum value is 1. format: int32

	type: integer tcpSocket:
	description: TCPSocket specifies an action
	involving a TCP port.
	properties:
	host:
	description: 'Optional: Host name to
	connect to, defaults to the pod IP.'
	type: string
	port:
	anyOf:
	- type: integer
	- type: string
	description:  - Number or name of the port to access on the container.
	Number must be in the range 1 to 65535.
	Name must be an IANA_SVC_NAME.
	x-kubernetes-int-or-string: true
	required:
	- port
	type: object
	terminationGracePeriodSeconds:
	description:  -
	Optional duration in seconds the pod needs to terminate gracefully upon
probe failure.	The survey revised is the elemetical is seen all often the survey revealers in the
nod are cont	The grace period is the duration in seconds after the processes running in the
pod are sent	a termination signal and the time when the processes are forcibly halted with
a kill signal.	a termination signal and the time when the processes are followy halted with
a kii signai.	Set this value longer than the expected cleanup time for your process.
	If this value is nil, the pod's terminationGracePeriodSeconds will be used.
Otherwise, this	
	value overrides the value provided by the pod spec.
	Value must be non-negative integer. The value zero indicates stop
immediately via	
	the kill signal (no opportunity to shut down).
facture acts	This is a beta field and requires enabling ProbeTerminationGracePeriod
feature gate.	Minimum value is 4, once termination Gross Deried Cases do is used if uport
	Minimum value is 1. spec.terminationGracePeriodSeconds is used if unset. format: int64
	type: integer
	timeoutSeconds:
	description:  -
	Number of seconds after which the probe times out.
	Defaults to 1 second. Minimum value is 1.
	More info: https://kubernetes.io/docs/concepts/workloads/pods/pod-
lifecycle#container-pro	
	format: int32
	type: integer
	type: object
	name:
	description:  - Name of the ephemeral container specified as a DNS_LABEL.
	This name must be unique among all containers, init containers and ephemeral
containers.	e
	type: string

ports:
description: Ports are not allowed for ephemeral
containers.
items:
description: ContainerPort represents a network
port in a single container.
properties:
containerPort:
description:  -
Number of port to expose on the pod's IP address.
This must be a valid port number, $0 < x < 65536$ .
format: int32
type: integer
hostIP:
description: What host IP to bind the
external port to.
type: string
hostPort:
description:  -
Number of port to expose on the host.
If specified, this must be a valid port number, $0 < x < 65536$ .
If HostNetwork is specified, this must match ContainerPort.
Most containers do not need this.
format: int32
type: integer
name:
description:  -
If specified, this must be an IANA_SVC_NAME and unique within the pod.
named port in a pod must have a unique name. Name for the port that can
referred to by services.
type: string
protocol:
default: TCP
description:  -
Protocol for port. Must be UDP, TCP, or SCTP.
Defaults to "TCP".
type: string
required:
- containerPort
type: object
type: array
x-kubernetes-list-map-keys:
- containerPort
- protocol
x-kubernetes-list-type: map
readinessProbe:
description: Probes are not allowed for ephemeral
containers.
properties:
exec:
description: Exec specifies the action to
take.
properties:
command:

Each

be

	description:  -
	Command is the command line to execute inside the container, the working
directory for the	
	command is root ('/') in the container's filesystem. The command is simply
exec'd, it is	
	not run inside a shell, so traditional shell instructions (' ', etc) won't work. To
use	
	a shell, you need to explicitly call out to that shell.
	Exit status of 0 is treated as live/healthy and non-zero is unhealthy.
	items:
	type: string
	type: array
	type: object
	failureThreshold:
	description:  -
	Minimum consecutive failures for the probe to be considered failed after
having succeeded.	······································
	Defaults to 3. Minimum value is 1.
	format: int32
	type: integer
	grpc:
	description:  -
	GRPC specifies an action involving a GRPC port.
	This is a beta field and requires enabling GRPCContainerProbe feature gate.
	properties:
	port:
	description: Port number of the gRPC
	service. Number must be in the range
	1 to 65535.
	format: int32
	type: integer
	service:
	description:  -
L la alth Ch a al D a gu a at	Service is the name of the service to place in the gRPC
HealthCheckRequest	
	(see https://github.com/grpc/grpc/blob/master/doc/health-checking.md).
	If this is not an actived, the default habovier is defined by aDDC
	If this is not specified, the default behavior is defined by gRPC.
	type: string
	required:
	- port
	type: object
	httpGet:
	description: HTTPGet specifies the http
	request to perform.
	properties:
	host:
	description:  -
	Host name to connect to, defaults to the pod IP. You probably want to set
	"Host" in httpHeaders instead.
	type: string
	httpHeaders:
	description: Custom headers to set in
	the request. HTTP allows repeated
	headers.

items: description: HTTPHeader describes a custom header to be used in HTTP probes properties: name: description: The header field name type: string value: description: The header field value type: string required: - name - value type: object type: array path: description: Path to access on the HTTP server. type: string port: anvOf: - type: integer - type: string description: |-Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA SVC NAME. x-kubernetes-int-or-string: true scheme: description: |-Scheme to use for connecting to the host. Defaults to HTTP. type: string required: - port type: object initialDelaySeconds: description: |-Number of seconds after the container has started before liveness probes are More info: https://kubernetes.io/docs/concepts/workloads/pods/podlifecycle#container-probes format: int32 type: integer periodSeconds: description: |-How often (in seconds) to perform the probe. Default to 10 seconds. Minimum value is 1. format: int32 type: integer successThreshold: description: |-

initiated.

after having failed.	Minimum consecutive successes for the probe to be considered successful
and having failed.	Defaults to 1. Must be 1 for liveness and startup. Minimum value is 1. format: int32
	type: integer
	tcpSocket:
	description: TCPSocket specifies an action
	involving a TCP port.
	properties: host:
	description: 'Optional: Host name to
	connect to, defaults to the pod IP.'
	type: string
	port:
	anyOf:
	- type: integer
	- type: string description:  -
	Number or name of the port to access on the container.
	Number must be in the range 1 to 65535.
	Name must be an IANA_SVC_NAME.
	x-kubernetes-int-or-string: true
	required:
	- port
	type: object terminationGracePeriodSeconds:
	description:  -
	Optional duration in seconds the pod needs to terminate gracefully upon
probe failure.	
	The grace period is the duration in seconds after the processes running in the
pod are sent	a termination signal and the time when the processes are forcibly halted with
a kill signal.	a termination signal and the time when the processes are followy halted with
a ini eiginan	Set this value longer than the expected cleanup time for your process.
	If this value is nil, the pod's terminationGracePeriodSeconds will be used.
Otherwise, this	
	value overrides the value provided by the pod spec.
immodiately via	Value must be non-negative integer. The value zero indicates stop
immediately via	the kill signal (no opportunity to shut down).
	This is a beta field and requires enabling ProbeTerminationGracePeriod
feature gate.	
	Minimum value is 1. spec.terminationGracePeriodSeconds is used if unset.
	format: int64
	type: integer timeoutSeconds:
	description:  -
	Number of seconds after which the probe times out.
	Defaults to 1 second. Minimum value is 1.
	More info: https://kubernetes.io/docs/concepts/workloads/pods/pod-
lifecycle#container-pro	
	format: int32 type: integer
	type: object
	resources:
	description:  -

Resources are not allowed for ephemeral containers. Ephemeral containers use spare resources already allocated to the pod. properties: limits: additionalProperties: anvOf: - type: integer - type: string pattern: ^(\+|-)?(([0-9]+(\.[0-9]\*)?))(\.[0-9]+))(([KMGTPE]i)|[numkMGTPE]|([eE](\+|-)?(([0-9]+(\.[0-9]\*)?)|(\.[0-9]+))))?\$ x-kubernetes-int-or-string: true description: |-Limits describes the maximum amount of compute resources allowed. More info: https://kubernetes.io/docs/concepts/configuration/manageresources-containers/ type: object requests: additionalProperties: anyOf: - type: integer - type: string pattern: ^(\+|-)?(([0-9]+(\.[0-9]\*)?))(\.[0-9]+))(([KMGTPE]i)|[numkMGTPE]|([eE](\+|-)?(([0-9]+(\.[0-9]\*)?)|(\.[0-9]+))))?\$ x-kubernetes-int-or-string: true description: |-Requests describes the minimum amount of compute resources required. If Requests is omitted for a container, it defaults to Limits if that is explicitly specified, otherwise to an implementation-defined value. More info: https://kubernetes.io/docs/concepts/configuration/manageresources-containers/ type: object type: object securityContext: description: |-Optional: SecurityContext defines the security options the ephemeral container should be run with. If set, the fields of SecurityContext override the equivalent fields of PodSecurityContext. properties: allowPrivilegeEscalation: description: |-AllowPrivilegeEscalation controls whether a process can gain more privileges than its parent process. This bool directly controls if the no\_new\_privs flag will be set on the container process. AllowPrivilegeEscalation is true always when the container is: 1) run as Privileged 2) has CAP\_SYS\_ADMIN Note that this field cannot be set when spec.os.name is windows. type: boolean capabilities: description: |-The capabilities to add/drop when running containers. Defaults to the default set of capabilities granted by the container runtime. Note that this field cannot be set when spec.os.name is windows.

properties:
add:
description: Added capabilities
items:
description: Capability represent
POSIX capabilities type
type: string
type: array
drop:
description: Removed capabilities
items:
description: Capability represent
POSIX capabilities type
type: string
type: array
type: object
privileged:
description:  -
Run container in privileged mode.
Processes in privileged containers are essentially equivalent to root on the
Defaults to false.
Note that this field cannot be set when spec.os.name is windows.
type: boolean
procMount:
description:  -
procMount denotes the type of proc mount to use for the containers.
The default is DefaultProcMount which uses the container runtime defaults for
readonly paths and masked paths.
This requires the ProcMountType feature flag to be enabled.
Note that this field cannot be set when spec.os.name is windows.
type: string
readOnlyRootFilesystem:
description:  -
Whether this container has a read-only root filesystem.
Default is false.
Note that this field cannot be set when spec.os.name is windows.
type: boolean
runAsGroup:
description:  -
The GID to run the entrypoint of the container process.
Uses runtime default if unset.
May also be set in PodSecurityContext. If set in both SecurityContext and
PodSecurityContext, the value specified in SecurityContext takes precedence.
Note that this field cannot be set when spec.os.name is windows.
format: int64
type: integer
runAsNonRoot:
description:  -
Indicates that the container must run as a non-root user.
If true, the Kubelet will validate the image at runtime to ensure that it
does not run as UID 0 (root) and fail to start the container if it does.
If unset or false, no such validation will be performed.
May also be set in PodSecurityContext. If set in both SecurityContext and
PodSecurityContext, the value specified in SecurityContext takes precedence.
type: boolean
Spor Sociedit

host.

	runAsUser:
	description:  -
	The UID to run the entrypoint of the container process.
	Defaults to user specified in image metadata if unspecified.
	May also be set in PodSecurityContext. If set in both SecurityContext and
	PodSecurityContext, the value specified in SecurityContext takes precedence.
	Note that this field cannot be set when spec.os.name is windows.
	format: int64
	type: integer
	seLinuxOptions:
	description:  -
	The SELinux context to be applied to the container.
for each	If unspecified, the container runtime will allocate a random SELinux context
for each	containen. Mau alas ha ast in DadCasurit Contaut. Kast in hath
	container. May also be set in PodSecurityContext. If set in both
SecurityContext and	
	PodSecurityContext, the value specified in SecurityContext takes precedence.
	Note that this field cannot be set when spec.os.name is windows.
	properties:
	level:
	description: Level is SELinux level
	label that applies to the container.
	type: string
	role:
	description: Role is a SELinux role
	label that applies to the container.
	type: string
	type:
	description: Type is a SELinux type
	label that applies to the container.
	type: string
	user:
	description: User is a SELinux user
	label that applies to the container.
	type: string
	type: object
	seccompProfile:
	description:  -
	The seccomp options to use by this container. If seccomp options are
	provided at both the pod & container level, the container options
	override the pod options.
	Note that this field cannot be set when spec.os.name is windows.
	properties:
	localhostProfile:
	description:  -
	localhostProfile indicates a profile defined in a file on the node should be
used.	
	The profile must be preconfigured on the node to work.
	Must be a descending path, relative to the kubelet's configured seccomp
profile location.	
	Must only be set if type is "Localhost".
	type: string
	type:
	description:  -
	type indicates which kind of seccomp profile will be applied.
	Valid options are:
	•

	Localhost - a profile defined in a file on the node should be used. RuntimeDefault - the container runtime default profile should be used. Unconfined - no profile should be applied.
	type: string
	required:
	- type
	type: object
	windowsOptions:
	description:  -
	The Windows specific settings applied to all containers.
	If unspecified, the options from the PodSecurityContext will be used. If set in both SecurityContext and PodSecurityContext, the value specified in
SecurityContext takes pro	
	Note that this field cannot be set when spec.os.name is linux.
	properties:
	gmsaCredentialSpec:
	description:  -
	GMSACredentialSpec is where the GMSA admission webhook
4	(https://github.com/kubernetes-sigs/windows-gmsa) inlines the contents of
the	CMCA production area named by the CMCA Credential Creation Signal
	GMSA credential spec named by the GMSACredentialSpecName field.
	type: string
	gmsaCredentialSpecName: description: GMSACredentialSpecName
	is the name of the GMSA credential
	spec to use.
	type: string
	hostProcess:
	description:  -
	HostProcess determines if a container should be run as a 'Host Process'
container.	
oon an on	This field is alpha-level and will only be honored by components that
enable the	
	WindowsHostProcessContainers feature flag. Setting this field without the
feature	······································
	flag will result in errors when validating the Pod. All of a Pod's containers
must	
	have the same effective HostProcess value (it is not allowed to have a mix
of HostProcess	· ·
	containers and non-HostProcess containers). In addition, if HostProcess is
true	
	then HostNetwork must also be set to true.
	type: boolean
	runAsUserName:
	description:  -
	The UserName in Windows to run the entrypoint of the container process.
	Defaults to the user specified in image metadata if unspecified.
	May also be set in PodSecurityContext. If set in both SecurityContext and
	PodSecurityContext, the value specified in SecurityContext takes
precedence.	
	type: string
	type: object
	ype: object
sta	artupProbe:

	description: Probes are not allowed for ephemeral containers.
	properties:
	exec:
	description: Exec specifies the action to
	take.
	properties:
	command:
	description:  -
	Command is the command line to execute inside the container, the working
directory for the	
	command is root ('/') in the container's filesystem. The command is simply
exec'd, it is	
	not run inside a shell, so traditional shell instructions (' ', etc) won't work. To
use	
	a shell, you need to explicitly call out to that shell.
	Exit status of 0 is treated as live/healthy and non-zero is unhealthy.
	items:
	type: string
	type: array
	type: object
	failureThreshold:
	description:  -
	Minimum consecutive failures for the probe to be considered failed after
having succeeded.	
	Defaults to 3. Minimum value is 1.
	format: int32
	type: integer
	grpc:
	description:  -
	GRPC specifies an action involving a GRPC port.
	This is a beta field and requires enabling GRPCContainerProbe feature gate.
	properties:
	port:
	description: Port number of the gRPC
	service. Number must be in the range
	1 to 65535.
	format: int32
	type: integer
	service:
	description:  -
	Service is the name of the service to place in the gRPC
HealthCheckRequest	<b>9</b> · · · <b>9</b> · · · <b>9</b> · · · <b>9</b>
i loain on oon toquoor	(see https://github.com/grpc/grpc/blob/master/doc/health-checking.md).
	If this is not specified, the default behavior is defined by gRPC.
	type: string
	required:
	- port
	type: object
	httpGet:
	description: HTTPGet specifies the http
	request to perform.
	properties:
	host:

description: |-Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead. type: string httpHeaders: description: Custom headers to set in the request. HTTP allows repeated headers. items: description: HTTPHeader describes a custom header to be used in HTTP probes properties: name: description: The header field name type: string value: description: The header field value type: string required: - name - value type: object type: array path: description: Path to access on the HTTP server. type: string port: anyOf: - type: integer - type: string description: |-Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA SVC NAME. x-kubernetes-int-or-string: true scheme: description: |-Scheme to use for connecting to the host. Defaults to HTTP. type: string required: - port type: object initialDelaySeconds: description: |-Number of seconds after the container has started before liveness probes are More info: https://kubernetes.io/docs/concepts/workloads/pods/podlifecycle#container-probes format: int32

type: integer periodSeconds:

initiated.

	description:  - How often (in seconds) to perform the probe. Default to 10 seconds. Minimum value is 1. format: int32 type: integer successThreshold: description:  -
after having failed.	Minimum consecutive successes for the probe to be considered successful
arter having failed.	Defaults to 1. Must be 1 for liveness and startup. Minimum value is 1. format: int32 type: integer tcpSocket:
	description: TCPSocket specifies an action involving a TCP port. properties:
	host: description: 'Optional: Host name to connect to, defaults to the pod IP.'
	type: string port: anyOf:
	- type: integer - type: string description:  -
	Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
	x-kubernetes-int-or-string: true required: - port
	type: object terminationGracePeriodSeconds: description:  -
probe failure.	Optional duration in seconds the pod needs to terminate gracefully upon
pod are sent	The grace period is the duration in seconds after the processes running in the
a kill signal.	a termination signal and the time when the processes are forcibly halted with
	Set this value longer than the expected cleanup time for your process. If this value is nil, the pod's terminationGracePeriodSeconds will be used.
Otherwise, this	value overrides the value provided by the pod spec. Value must be non-negative integer. The value zero indicates stop
immediately via	the kill signal (no opportunity to shut down).
feature gate.	This is a beta field and requires enabling ProbeTerminationGracePeriod
ioutalo guto.	Minimum value is 1. spec.terminationGracePeriodSeconds is used if unset. format: int64
	type: integer timeoutSeconds: description:  -
	Number of seconds after which the probe times out. Defaults to 1 second. Minimum value is 1.

	More info: https://kubernetes.io/docs/concepts/workloads/pods/pod-
lifecycle#container-pro	
	format: int32
	type: integer type: object
	stdin:
	description:  -
	Whether this container should allocate a buffer for stdin in the container runtime.
If this	
	is not set, reads from stdin in the container will always result in EOF.
	Default is false.
	type: boolean stdinOnce:
	description:  -
	Whether the container runtime should close the stdin channel after it has been
opened by	
. ,	a single attach. When stdin is true the stdin stream will remain open across
multiple attach	
	sessions. If stdinOnce is set to true, stdin is opened on container start, is empty
until the	first glight attaches to stdin, and then remains onen and accents data until the
client disconnects,	first client attaches to stdin, and then remains open and accepts data until the
	at which time stdin is closed and remains closed until the container is restarted.
If this	
	flag is false, a container processes that reads from stdin will never receive an
EOF.	
	Default is false
	type: boolean
	targetContainerName:
	description:  -
targets.	If set, the name of the container from PodSpec that this ephemeral container
largeto.	The ephemeral container will be run in the namespaces (IPC, PID, etc) of this
container.	
	If not set then the ephemeral container uses the namespaces configured in the
Pod spec.	
	The container mustices must implement compart for this facture. If the mustices
does not	The container runtime must implement support for this feature. If the runtime
0005 1101	support namespace targeting then the result of setting this field is undefined.
	type: string
	terminationMessagePath:
	description:  -
	Optional: Path at which the file to which the container's termination message
	will be written is mounted into the container's filesystem.
	Message written is intended to be brief final status, such as an assertion failure
message.	Will be truncated by the node if greater than 4096 bytes. The total message
length across	win be transated by the node in greater than 4090 bytes. The total message
	all containers will be limited to 12kb.
	Defaults to /dev/termination-log.
	Cannot be updated.
	type: string
	terminationMessagePolicy:
	description:  -

	Indicate how the termination message should be populated. File will use the
contents of	
	terminationMessagePath to populate the container status message on both
success and failure.	
	FallbackToLogsOnError will use the last chunk of container log output if the
termination	and the second second second states and the second states and the second s
	message file is empty and the container exited with an error.
	The log output is limited to 2048 bytes or 80 lines, whichever is smaller. Defaults to File.
	Cannot be updated.
	type: string
	y: description:
	description:  - Whether this container should allocate a TTY for itself, also requires 'stdin' to be
truo	whether this container should allocate a fiff for itself, also requires stuff to be
true.	Default is false.
	type: boolean
	olumeDevices:
	description: volumeDevices is the list of block
	devices to be used by the container. items:
	description: volumeDevice describes a mapping
	of a raw block device within a container.
	properties:
	devicePath:
	description: devicePath is the path inside
	of the container that the device will
	be mapped to.
	type: string name:
	description: name must match the name
	of a persistentVolumeClaim in the pod
	type: string
	required:
	- devicePath
	- name
	type: object type: array
	olumeMounts:
	description:  -
	Pod volumes to mount into the container's filesystem. Subpath mounts are not
allowed for ephemeral of	
allowed for epitemeral c	Cannot be updated.
	items:
	description: VolumeMount describes a mounting
	of a Volume within a container.
	properties:
	mountPath:
	description:  -
	Path within the container at which the volume should be mounted. Must
	not contain ':'.
	type: string
	mountPropagation:
	description:  -
	mountPropagation determines how mounts are propagated from the host
	to container and the other way around.
	•
When not set, MountPropagationNone is used.	
--	
This field is beta in 1.10.	
type: string	
name:	
description: This must match the Name	
of a Volume.	
type: string	
readOnly:	
description:  - Mounted read-only if true, read-write otherwise (false or unspecified).	
Defaults to false.	
type: boolean	
subPath:	
description:  -	
Path within the volume from which the container's volume should be	
mounted.	
Defaults to "" (volume's root).	
type: string	
subPathExpr:	
description:  -	
Expanded path within the volume from which the container's volume should	
be mounted.	
Behaves similarly to SubPath but environment variable references \$(VAR_NAME) are expanded using the container's environment.	
Defaults to "" (volume's root).	
SubPathExpr and SubPath are mutually exclusive.	
type: string	
required:	
- mountPath	
- name	
type: object	
type: array	
workingDir:	
description:  -	
Container's working directory. If not specified, the container runtime's default will be used, which	
might be configured in the container image.	
Cannot be updated.	
type: string	
required:	
- name	
type: object	
type: array	
hostAliases:	
description:  -	
HostAliases is an optional list of hosts and IPs that will be injected into the pod's	
hosts file if specified. This is only valid for non-hostNetwork pods.	
items:	
description:  -	
HostAlias holds the mapping between IP and hostnames that will be injected as an	
entry in the	
pod's hosts file.	
properties:	
hostnames:	
description: Hostnames for the above IP address.	

items: type: string type: array ip: description: IP address of the host file entry. type: string type: object type: array hostIPC: description: |-Use the host's ipc namespace. Optional: Default to false. type: boolean hostNetwork: description: |-Host networking requested for this pod. Use the host's network namespace. If this option is set, the ports that will be used must be specified. Default to false. type: boolean hostPID: description: |-Use the host's pid namespace. Optional: Default to false. type: boolean hostname: description: |-Specifies the hostname of the Pod If not specified, the pod's hostname will be set to a system-defined value. type: string imagePullSecrets: description: |-ImagePullSecrets is an optional list of references to secrets in the same namespace to use for pulling any of the images used by this PodSpec. If specified, these secrets will be passed to individual puller implementations for them to use. More info: https://kubernetes.io/docs/concepts/containers/images#specifyingimagepullsecrets-on-a-pod items: description: |-LocalObjectReference contains enough information to let you locate the referenced object inside the same namespace. properties: name: description: |-Name of the referent. More info: https://kubernetes.io/docs/concepts/overview/working-withobjects/names/#names TODO: Add other useful fields. apiVersion, kind, uid? type: string type: object x-kubernetes-map-type: atomic type: array initContainers: description: |-List of initialization containers belonging to the pod. Init containers are executed in order prior to containers being started. If any

	init container fails, the pod is considered to have failed and is handled according
	to its restartPolicy. The name for an init container or normal container must be
	unique among all containers. Init containers may not have Lifecycle actions, Readiness probes, Liveness probes,
or Startup probes.	
scheduling	The resourceRequirements of an init container are taken into account during
-	by finding the highest request/limit for each resource type, and then using the max
of	of that value or the sum of the normal containers. Limits are applied to init
containers	
	in a similar fashion. Init containers cannot currently be added or removed.
	Cannot be updated.
	More info: https://kubernetes.io/docs/concepts/workloads/pods/init-containers/
	items: description: A single application container that
	you want to run within a pod.
	properties:
	args:
	description:  - Arguments to the entrypoint.
	The container image's CMD is used if this is not provided.
	Variable references \$(VAR_NAME) are expanded using the container's
environment. If a va	riable
	cannot be resolved, the reference in the input string will be unchanged. Double
\$\$ are reduced	to a single \$, which allows for escaping the \$(VAR_NAME) syntax: i.e.
"\$\$(VAR_NAME)" w	
. ,	produce the string literal "\$(VAR_NAME)". Escaped references will never be
expanded, regardles	
	of whether the variable exists or not. Cannot be updated. More info: https://kubernetes.io/docs/tasks/inject-data-application/define-
command-argument	-container/#running-a-command-in-a-shell
0	items:
	type: string
	type: array
	command:
	description:  - Entrypoint array. Not executed within a shell.
	The container image's ENTRYPOINT is used if this is not provided.
	Variable references \$(VAR_NAME) are expanded using the container's
environment. If a va	
	cannot be resolved, the reference in the input string will be unchanged. Double
\$\$ are reduced	to a single $\phi$ which allows for according the $\phi'(AD NAME)$ surface is
"\$\$(VAR_NAME)" w	to a single \$, which allows for escaping the \$(VAR_NAME) syntax: i.e.
φφ(v, u( <u>_</u> iv, u)( <u>_</u> ) , u	produce the string literal "\$(VAR_NAME)". Escaped references will never be
expanded, regardles	
	of whether the variable exists or not. Cannot be updated.
	More info: https://kubernetes.io/docs/tasks/inject-data-application/define-
command-argument	container/#running-a-command-in-a-shell items:
	type: string
	type: array
	env:

	description:  -
	List of environment variables to set in the container.
	Cannot be updated.
	items:
	description: EnvVar represents an environment
	variable present in a Container.
	properties:
	name:
	description: Name of the environment variable.
	Must be a C_IDENTIFIER.
	type: string
	value:
	description:  -
	Variable references \$(VAR_NAME) are expanded
	using the previously defined environment variables in the container and
	any service environment variables. If a variable cannot be resolved,
	the reference in the input string will be unchanged. Double \$\$ are reduced
	to a single \$, which allows for escaping the \$(VAR_NAME) syntax: i.e. "\$\$(VAR_NAME)" will produce the string literal "\$(VAR_NAME)".
	Escaped references will never be expanded, regardless of whether the
variable	
	exists or not.
	Defaults to "".
	type: string
	valueFrom:
	description: Source for the environment
	variable's value. Cannot be used if
	value is not empty.
	properties:
	configMapKeyRef:
	description: Selects a key of a ConfigMap.
	properties:
	key:
	description: The key to select.
	type: string
	name:
	description:  -
	Name of the referent.
	More info: https://kubernetes.io/docs/concepts/overview/working-with-
objects/names/#names	
	TODO: Add other useful fields. apiVersion, kind, uid?
	type: string
	optional:
	description: Specify whether the
	ConfigMap or its key must be
	defined
	type: boolean
	required:
	- key
	type: object
	x-kubernetes-map-type: atomic
	fieldRef:
	description:  -
	Selects a field of the pod: supports metadata.name,
metadata.namespace,	`metadata.labels[' <key>']`, `metadata.annotations['<key>']`,</key></key>

```
spec.nodeName, spec.serviceAccountName, status.hostIP, status.podIP,
status.podIPs.
                               properties:
                                apiVersion:
                                 description: Version of the schema
                                  the FieldPath is written in
                                  terms of, defaults to "v1".
                                 type: string
                                fieldPath:
                                 description: Path of the field
                                  to select in the specified API
                                  version.
                                 type: string
                               required:
                               - fieldPath
                               type: object
                              x-kubernetes-map-type: atomic
                             resourceFieldRef:
                               description: |-
                                Selects a resource of the container: only resources limits and requests
                                (limits.cpu, limits.memory, limits.ephemeral-storage, requests.cpu,
requests.memory and requests.ephemeral-storage) are currently supported.
                               properties:
                                containerName:
                                 description: 'Container name:
                                  required for volumes, optional
                                  for env vars'
                                 type: string
                                divisor:
                                 anyOf:
                                 - type: integer
                                 - type: string
                                 description: Specifies the output
                                  format of the exposed resources,
                                   defaults to "1"
                                 pattern: ^(\+|-)?(([0-9]+(\.[0-9]*)?)|(\.[0-
9]+))(([KMGTPE]i)|[numkMGTPE]|([eE](\+|-)?(([0-9]+(\.[0-9]*)?)|(\.[0-9]+))))?$
                                 x-kubernetes-int-or-string: true
                                resource:
                                 description: 'Required: resource
                                  to select'
                                 type: string
                               required:
                               - resource
                               type: object
                              x-kubernetes-map-type: atomic
                             secretKevRef:
                               description: Selects a key of a secret
                                in the pod's namespace
                               properties:
                                key:
                                 description: The key of the secret
                                  to select from. Must be a valid
                                   secret key.
                                 type: string
                                name:
```

	description:  -
	Name of the referent.
	More info: https://kubernetes.io/docs/concepts/overview/working-with-
objects/names/#names	
· · <b>,</b> · · · · · · · · · · · · · · · · · · ·	TODO: Add other useful fields. apiVersion, kind, uid?
	type: string
	optional:
	description: Specify whether the
	Secret or its key must be defined
	type: boolean
	required:
	- key
	type: object
	x-kubernetes-map-type: atomic
	type: object
	required:
	- name
	type: object
	type: array
	nvFrom:
	description:  -
	List of sources to populate environment variables in the container.
	The keys defined within a source must be a C_IDENTIFIER. All invalid keys
	will be reported as an event when the container is starting. When a key exists in
multiple	
	sources, the value associated with the last source will take precedence.
	Values defined by an Env with a duplicate key will take precedence.
	Cannot be updated.
	items:
	description: EnvFromSource represents the
	source of a set of ConfigMaps
	properties:
	configMapRef:
	description: The ConfigMap to select from
	properties:
	name:
	description:  -
	Name of the referent.
	More info: https://kubernetes.io/docs/concepts/overview/working-with-
objects/names/#names	
	TODO: Add other useful fields. apiVersion, kind, uid?
	type: string
	optional:
	description: Specify whether the ConfigMap
	must be defined
	type: boolean
	type: object
	x-kubernetes-map-type: atomic
	prefix:
	description: An optional identifier to
	prepend to each key in the ConfigMap.
	Must be a C_IDENTIFIER.
	type: string
	secretRef:
	description: The Secret to select from
	properties:

	name: description:  - Name of the referent.
objects/names/#names	More info: https://kubernetes.io/docs/concepts/overview/working-with-
objects/names/#names	TODO: Add other useful fields. apiVersion, kind, uid?
	type: string
	optional: description: Specify whether the Secret
	must be defined
	type: boolean
	type: object
	x-kubernetes-map-type: atomic
	type: object
t	ype: array
im	nage:
C	description:  -
	Container image name.
	More info: https://kubernetes.io/docs/concepts/containers/images
a a uul al a	This field is optional to allow higher level config management to default or
override	container images in workload controllars like Deployments and StatefulSate
+	container images in workload controllers like Deployments and StatefulSets. ype: string
	nagePullPolicy:
	description:  -
	Image pull policy.
	One of Always, Never, IfNotPresent.
	Defaults to Always if :latest tag is specified, or IfNotPresent otherwise.
	Cannot be updated.
	More info: https://kubernetes.io/docs/concepts/containers/images#updating-
images	
	ype: string
(	description:  - Actions that the management system should take in response to container
lifecycle events.	Actions that the management system should take in response to container
mecycle events.	Cannot be updated.
r	properties:
ľ	postStart:
	description:  -
	PostStart is called immediately after a container is created. If the handler fails,
	the container is terminated and restarted according to its restart policy.
	Other management of the container blocks until the hook completes.
	More info: https://kubernetes.io/docs/concepts/containers/container-lifecycle-
hooks/#container-hooks	proportion
	properties: exec:
	description: Exec specifies the action
	to take.
	properties:
	command:
	description:  -
	Command is the command line to execute inside the container, the
working directory for the	command is root ('/') in the container's filesystem. The command is
simply exec'd, it is	

	not run inside a shell, so traditional shell instructions (' ', etc) won't work.
To use	
	a shell, you need to explicitly call out to that shell.
	Exit status of 0 is treated as live/healthy and non-zero is unhealthy.
i	ems:
	type: string
t	ype: array
	e: object
http	
	cription: HTTPGet specifies the http
	quest to perform.
	perties:
	ist:
	lescription:  -
C	
oot	Host name to connect to, defaults to the pod IP. You probably want to
set	"Last" in http://andors.instand
-	"Host" in httpHeaders instead.
	ype: string
	pHeaders:
C	lescription: Custom headers to set
	in the request. HTTP allows repeated
	headers.
i	iems:
	description: HTTPHeader describes
	a custom header to be used in
	HTTP probes
	properties:
	name:
	description: The header field
	name
	type: string
	value:
	description: The header field
	value
	type: string
	required:
	- name
	- value
	type: object
+	ype: array
	th:
	lescription: Path to access on the
C	HTTP server.
t	
	ype: string
	nt:
	inyOf:
	type: integer
	type: string
C	lescription:  -
	Name or number of the port to access on the container.
	Number must be in the range 1 to 65535.
	Name must be an IANA_SVC_NAME.
	-kubernetes-int-or-string: true
	heme:
C	lescription:  -
	Scheme to use for connecting to the host.

	Defaults to HTTP.
	type: string
	required:
	- port
	type: object
	tcpSocket:
	description:  -
	Deprecated. TCPSocket is NOT supported as a LifecycleHandler and kept
	for the backward compatibility. There are no validation of this field and
	lifecycle hooks will fail in runtime when tcp handler is specified.
	properties:
	host:
	description: 'Optional: Host name
	to connect to, defaults to the
	pod IP.'
	type: string
	port:
	anyOf:
	- type: integer
	- type: string
	description:  -
	Number or name of the port to access on the container.
	Number must be in the range 1 to 65535.
	Name must be an IANA_SVC_NAME.
	x-kubernetes-int-or-string: true
	required:
	- port
	type: object
	type: object
	preStop:
	description:  -
	PreStop is called immediately before a container is terminated due to an
	API request or management event such as liveness/startup probe failure,
	preemption, resource contention, etc. The handler is not called if the
	container crashes or exits. The Pod's termination grace period countdown
begins before the	
	PreStop hook is executed. Regardless of the outcome of the handler, the
	container will eventually terminate within the Pod's termination grace
	period (unless delayed by finalizers). Other management of the container
blocks until the hook com	
	or until the termination grace period is reached.
	More info: https://kubernetes.io/docs/concepts/containers/container-lifecycle-
hooks/#container-hooks	
	properties:
	exec:
	description: Exec specifies the action
	to take.
	properties:
	command:
	description:  -
	Command is the command line to execute inside the container, the
working directory for the	
stread a second district	command is root ('/') in the container's filesystem. The command is
simply exec'd, it is	
<b>T</b>	not run inside a shell, so traditional shell instructions (' ', etc) won't work.
To use	

a shell, you need to explicitly call out to that shell.
Exit status of 0 is treated as live/healthy and non-zero is unhealthy.
items:
type: string
type: array
type: object
httpGet:
description: HTTPGet specifies the http
request to perform.
properties:
host:
description:  -
Host name to connect to, defaults to the pod IP. You probably want to
"Host" in httpHeaders instead.
type: string
httpHeaders:
description: Custom headers to set
in the request. HTTP allows repeated
headers.
items:
description: HTTPHeader describes a custom header to be used in
HTTP probes properties:
name:
description: The header field
name
type: string
value:
description: The header field
value
type: string
required:
- name
- value
type: object
type: array
path:
description: Path to access on the
HTTP server.
type: string
port:
anyOf:
- type: integer
- type: string
description:  -
Name or number of the port to access on the container.
Number must be in the range 1 to 65535.
Name must be an IANA_SVC_NAME.
x-kubernetes-int-or-string: true
scheme:
description:  -
Scheme to use for connecting to the host.
Defaults to HTTP.
type: string

	required:
	- port
	type: object
	tcpSocket:
	description:  -
	Deprecated. TCPSocket is NOT supported as a LifecycleHandler and kept
	for the backward compatibility. There are no validation of this field and
	lifecycle hooks will fail in runtime when tcp handler is specified.
	properties:
	host:
	description: 'Optional: Host name
	to connect to, defaults to the
	pod IP.'
	type: string
	port:
	anyOf:
	- type: integer
	- type: string
	description:  -
	Number or name of the port to access on the container.
	Number must be in the range 1 to 65535.
	Name must be an IANA_SVC_NAME.
	x-kubernetes-int-or-string: true
	required:
	- port
	type: object
	type: object
	ype: object
	enessProbe:
C	description:  -
	Periodic probe of container liveness.
	Container will be restarted if the probe fails.
	Cannot be updated.
	More info: https://kubernetes.io/docs/concepts/workloads/pods/pod-
lifecycle#container-probe	
P	properties:
	exec:
	description: Exec specifies the action to
	take.
	properties:
	command:
	description:  -
	Command is the command line to execute inside the container, the working
directory for the	· · · · · · · · · · · · · · · · · · ·
	command is root ('/') in the container's filesystem. The command is simply
exec'd, it is	
	not run inside a shell, so traditional shell instructions (' ', etc) won't work. To
use	
	a shell, you need to explicitly call out to that shell.
	Exit status of 0 is treated as live/healthy and non-zero is unhealthy.
	items:
	type: string
	type: array
	type: object
	failureThreshold:
	description:  -

having succeeded.	Minimum consecutive failures for the probe to be considered failed after
naving succeeded.	Defaults to 3. Minimum value is 1. format: int32
	type: integer grpc:
	description:  -
	GRPC specifies an action involving a GRPC port. This is a beta field and requires enabling GRPCContainerProbe feature gate.
	properties: port:
	description: Port number of the gRPC service. Number must be in the range
	1 to 65535.
	format: int32
	type: integer service:
	description:  -
HaalthChaakBaguaat	Service is the name of the service to place in the gRPC
HealthCheckRequest	(see https://github.com/grpc/grpc/blob/master/doc/health-checking.md).
	If this is not specified, the default behavior is defined by gRPC.
	type: string
	required:
	- port
	type: object
	httpGet: description: HTTPGet specifies the http
	request to perform.
	properties:
	host:
	description:  -
	Host name to connect to, defaults to the pod IP. You probably want to set
	"Host" in httpHeaders instead.
	type: string
	httpHeaders:
	description: Custom headers to set in the request. HTTP allows repeated
	headers.
	items:
	description: HTTPHeader describes
	a custom header to be used in HTTP
	probes
	properties:
	name:
	description: The header field
	name type: string
	value:
	description: The header field
	value
	type: string
	required:
	- name

	- value
	type: object
	type: array
	path:
	•
	description: Path to access on the HTTP
	server.
	type: string
	port:
	anyOf:
	- type: integer
	- type: string
	description:  -
	Name or number of the port to access on the container.
	Number must be in the range 1 to 65535.
	Name must be an IANA_SVC_NAME.
	x-kubernetes-int-or-string: true
	scheme:
	description:  -
	Scheme to use for connecting to the host.
	Defaults to HTTP.
	type: string
	required:
	- port
	type: object
	initialDelaySeconds:
	description:  -
	Number of seconds after the container has started before liveness probes are
initiated.	
	More info: https://kubernetes.io/docs/concepts/workloads/pods/pod-
lifecycle#container-pro	bes
• •	
	format: int32
	type: integer
	type: integer periodSeconds:
	type: integer periodSeconds: description:  -
	type: integer periodSeconds: description:  - How often (in seconds) to perform the probe.
	type: integer periodSeconds: description:  - How often (in seconds) to perform the probe. Default to 10 seconds. Minimum value is 1.
	type: integer periodSeconds: description:  - How often (in seconds) to perform the probe. Default to 10 seconds. Minimum value is 1. format: int32
	type: integer periodSeconds: description:  - How often (in seconds) to perform the probe. Default to 10 seconds. Minimum value is 1.
	type: integer periodSeconds: description:  - How often (in seconds) to perform the probe. Default to 10 seconds. Minimum value is 1. format: int32
	type: integer periodSeconds: description:  - How often (in seconds) to perform the probe. Default to 10 seconds. Minimum value is 1. format: int32 type: integer
	type: integer periodSeconds: description:  - How often (in seconds) to perform the probe. Default to 10 seconds. Minimum value is 1. format: int32 type: integer successThreshold: description:  -
after having failed.	type: integer periodSeconds: description:  - How often (in seconds) to perform the probe. Default to 10 seconds. Minimum value is 1. format: int32 type: integer successThreshold:
after having failed.	type: integer periodSeconds: description:  - How often (in seconds) to perform the probe. Default to 10 seconds. Minimum value is 1. format: int32 type: integer successThreshold: description:  - Minimum consecutive successes for the probe to be considered successful
after having failed.	type: integer periodSeconds: description:  - How often (in seconds) to perform the probe. Default to 10 seconds. Minimum value is 1. format: int32 type: integer successThreshold: description:  - Minimum consecutive successes for the probe to be considered successful Defaults to 1. Must be 1 for liveness and startup. Minimum value is 1.
after having failed.	type: integer periodSeconds: description:  - How often (in seconds) to perform the probe. Default to 10 seconds. Minimum value is 1. format: int32 type: integer successThreshold: description:  - Minimum consecutive successes for the probe to be considered successful Defaults to 1. Must be 1 for liveness and startup. Minimum value is 1. format: int32
after having failed.	type: integer periodSeconds: description:  - How often (in seconds) to perform the probe. Default to 10 seconds. Minimum value is 1. format: int32 type: integer successThreshold: description:  - Minimum consecutive successes for the probe to be considered successful Defaults to 1. Must be 1 for liveness and startup. Minimum value is 1. format: int32 type: integer
after having failed.	type: integer periodSeconds: description:  - How often (in seconds) to perform the probe. Default to 10 seconds. Minimum value is 1. format: int32 type: integer successThreshold: description:  - Minimum consecutive successes for the probe to be considered successful Defaults to 1. Must be 1 for liveness and startup. Minimum value is 1. format: int32 type: integer tcpSocket:
after having failed.	type: integer periodSeconds: description:  - How often (in seconds) to perform the probe. Default to 10 seconds. Minimum value is 1. format: int32 type: integer successThreshold: description:  - Minimum consecutive successes for the probe to be considered successful Defaults to 1. Must be 1 for liveness and startup. Minimum value is 1. format: int32 type: integer tcpSocket: description: TCPSocket specifies an action
after having failed.	type: integer periodSeconds: description:  - How often (in seconds) to perform the probe. Default to 10 seconds. Minimum value is 1. format: int32 type: integer successThreshold: description:  - Minimum consecutive successes for the probe to be considered successful Defaults to 1. Must be 1 for liveness and startup. Minimum value is 1. format: int32 type: integer tcpSocket:
after having failed.	type: integer periodSeconds: description:  - How often (in seconds) to perform the probe. Default to 10 seconds. Minimum value is 1. format: int32 type: integer successThreshold: description:  - Minimum consecutive successes for the probe to be considered successful Defaults to 1. Must be 1 for liveness and startup. Minimum value is 1. format: int32 type: integer tcpSocket: description: TCPSocket specifies an action
after having failed.	type: integer periodSeconds: description:  - How often (in seconds) to perform the probe. Default to 10 seconds. Minimum value is 1. format: int32 type: integer successThreshold: description:  - Minimum consecutive successes for the probe to be considered successful Defaults to 1. Must be 1 for liveness and startup. Minimum value is 1. format: int32 type: integer tcpSocket: description: TCPSocket specifies an action involving a TCP port.
after having failed.	type: integer periodSeconds: description:  - How often (in seconds) to perform the probe. Default to 10 seconds. Minimum value is 1. format: int32 type: integer successThreshold: description:  - Minimum consecutive successes for the probe to be considered successful Defaults to 1. Must be 1 for liveness and startup. Minimum value is 1. format: int32 type: integer tcpSocket: description: TCPSocket specifies an action involving a TCP port. properties: host:
after having failed.	type: integer periodSeconds: description:  - How often (in seconds) to perform the probe. Default to 10 seconds. Minimum value is 1. format: int32 type: integer successThreshold: description:  - Minimum consecutive successes for the probe to be considered successful Defaults to 1. Must be 1 for liveness and startup. Minimum value is 1. format: int32 type: integer tcpSocket: description: TCPSocket specifies an action involving a TCP port. properties: host: description: 'Optional: Host name to
after having failed.	type: integer periodSeconds: description:  - How often (in seconds) to perform the probe. Default to 10 seconds. Minimum value is 1. format: int32 type: integer successThreshold: description:  - Minimum consecutive successes for the probe to be considered successful Defaults to 1. Must be 1 for liveness and startup. Minimum value is 1. format: int32 type: integer tcpSocket: description: TCPSocket specifies an action involving a TCP port. properties: host: description: 'Optional: Host name to connect to, defaults to the pod IP.'
after having failed.	type: integer periodSeconds: description:  - How often (in seconds) to perform the probe. Default to 10 seconds. Minimum value is 1. format: int32 type: integer successThreshold: description:  - Minimum consecutive successes for the probe to be considered successful Defaults to 1. Must be 1 for liveness and startup. Minimum value is 1. format: int32 type: integer tcpSocket: description: TCPSocket specifies an action involving a TCP port. properties: host: description: 'Optional: Host name to connect to, defaults to the pod IP.' type: string
after having failed.	type: integer periodSeconds: description:  - How often (in seconds) to perform the probe. Default to 10 seconds. Minimum value is 1. format: int32 type: integer successThreshold: description:  - Minimum consecutive successes for the probe to be considered successful Defaults to 1. Must be 1 for liveness and startup. Minimum value is 1. format: int32 type: integer tcpSocket: description: TCPSocket specifies an action involving a TCP port. properties: host: description: 'Optional: Host name to connect to, defaults to the pod IP.' type: string port:
after having failed.	type: integer periodSeconds: description:  - How often (in seconds) to perform the probe. Default to 10 seconds. Minimum value is 1. format: int32 type: integer successThreshold: description:  - Minimum consecutive successes for the probe to be considered successful Defaults to 1. Must be 1 for liveness and startup. Minimum value is 1. format: int32 type: integer tcpSocket: description: TCPSocket specifies an action involving a TCP port. properties: host: description: 'Optional: Host name to connect to, defaults to the pod IP.' type: string

	- type: string
	description:  -
	Number or name of the port to access on the container.
	Number must be in the range 1 to 65535.
	Name must be an IANA_SVC_NAME.
	x-kubernetes-int-or-string: true
	required:
	- port
	type: object terminationGracePeriodSeconds:
	description:  -
	Optional duration in seconds the pod needs to terminate gracefully upon
probe failure.	optional defation in seconds the pod needs to terminate gracerary upon
	The grace period is the duration in seconds after the processes running in the
pod are sent	
	a termination signal and the time when the processes are forcibly halted with
a kill signal.	
	Set this value longer than the expected cleanup time for your process.
	If this value is nil, the pod's terminationGracePeriodSeconds will be used.
Otherwise, this	
·	value overrides the value provided by the pod spec.
	Value must be non-negative integer. The value zero indicates stop
immediately via	
	the kill signal (no opportunity to shut down).
	This is a beta field and requires enabling ProbeTerminationGracePeriod
feature gate.	
	Minimum value is 1. spec.terminationGracePeriodSeconds is used if unset.
	format: int64
	type: integer
	timeoutSeconds:
	description:  -
	Number of seconds after which the probe times out.
	Defaults to 1 second. Minimum value is 1.
life avel attaces to in an area	More info: https://kubernetes.io/docs/concepts/workloads/pods/pod-
lifecycle#container-prob	
	format: int32
	type: integer
	type: object
	name: description:  -
	Name of the container specified as a DNS_LABEL.
	Each container in a pod must have a unique name (DNS_LABEL).
	Cannot be updated.
	type: string
	ports:
	description:  -
	List of ports to expose from the container. Exposing a port here gives
	the system additional information about the network connections a
	container uses, but is primarily informational. Not specifying a port here
	DOES NOT prevent that port from being exposed. Any port which is
	listening on the default "0.0.0.0" address inside a container will be
	accessible from the network.
	Cannot be updated.
	items:
	description: ContainerPort represents a network
	port in a single container.

properties:
containerPort:
description:  -
Number of port to expose on the pod's IP address.
This must be a valid port number, $0 < x < 65536$ .
format: int32
type: integer
hostIP:
description: What host IP to bind the
•
external port to.
type: string hostPort:
description:  -
Number of port to expose on the host.
If specified, this must be a valid port number, $0 < x < 65536$ .
If HostNetwork is specified, this must match ContainerPort. Most containers do not need this.
format: int32
type: integer
name:
description:  -
If specified, this must be an IANA_SVC_NAME and unique within the pod.
Each
named port in a pod must have a unique name. Name for the port that can
be
referred to by services.
type: string
protocol:
default: TCP
description:  -
Protocol for port. Must be UDP, TCP, or SCTP.
Defaults to "TCP".
type: string
required:
- containerPort
type: object
type: array
x-kubernetes-list-map-keys:
- containerPort
- protocol
x-kubernetes-list-type: map
readinessProbe:
description:  -
Periodic probe of container service readiness.
Container will be removed from service endpoints if the probe fails.
Cannot be updated.
More info: https://kubernetes.io/docs/concepts/workloads/pods/pod-
lifecycle#container-probes
properties:
exec:
description: Exec specifies the action to
take.
properties:
command:
description:  -

directory for the	Command is the command line to execute inside the container, the working
directory for the	command is root ('/') in the container's filesystem. The command is simply
exec'd, it is	not run inside a shell, so traditional shell instructions (' ', etc) won't work. To
use having succeeded.	a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy. items: type: string type: array type: object failureThreshold: description:  - Minimum consecutive failures for the probe to be considered failed after Defaults to 3. Minimum value is 1. format: int32 type: integer grpc: description:  -
HaalthChaaleBaquaat	GRPC specifies an action involving a GRPC port. This is a beta field and requires enabling GRPCContainerProbe feature gate. properties: port: description: Port number of the gRPC service. Number must be in the range 1 to 65535. format: int32 type: integer service: description:  - Service is the name of the service to place in the gRPC
HealthCheckRequest	(see https://github.com/grpc/grpc/blob/master/doc/health-checking.md).
	If this is not specified, the default behavior is defined by gRPC. type: string required: - port type: object httpGet: description: HTTPGet specifies the http request to perform. properties: host: description:  - Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead. type: string httpHeaders: description: Custom headers to set in the request. HTTP allows repeated headers. items:

description: HTTPHeader describes a custom header to be used in HTTP probes properties: name: description: The header field name type: string value: description: The header field value type: string required: - name - value type: object type: array path: description: Path to access on the HTTP server. type: string port: anyOf: - type: integer - type: string description: |-Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA\_SVC\_NAME. x-kubernetes-int-or-string: true scheme: description: |-Scheme to use for connecting to the host. Defaults to HTTP. type: string required: - port type: object initialDelaySeconds: description: |-Number of seconds after the container has started before liveness probes are initiated. More info: https://kubernetes.io/docs/concepts/workloads/pods/podlifecycle#container-probes format: int32 type: integer periodSeconds: description: |-How often (in seconds) to perform the probe. Default to 10 seconds. Minimum value is 1. format: int32 type: integer successThreshold: description: |-Minimum consecutive successes for the probe to be considered successful after having failed.

Defaults to 1. Must be 1 for liveness and startup. Minimum value i	s 1.
format: int32	
type: integer	
tcpSocket:	
description: TCPSocket specifies an action	
involving a TCP port.	
properties:	
host:	
description: 'Optional: Host name to	
connect to, defaults to the pod IP.	
type: string	
port:	
anyOf:	
- type: integer	
- type: string	
description:  -	
Number or name of the port to access on the container.	
Number must be in the range 1 to 65535.	
Name must be an IANA_SVC_NAME.	
x-kubernetes-int-or-string: true	
required:	
- port	
type: object	
terminationGracePeriodSeconds:	
description:  -	
Optional duration in seconds the pod needs to terminate gracefully	y upon
probe failure.	
The grace period is the duration in seconds after the processes ru	inning in the
pod are sent	Ū
a termination signal and the time when the processes are forcibly	halted with
a kill signal.	
Set this value longer than the expected cleanup time for your proc	:ess
If this value is nil, the pod's terminationGracePeriodSeconds will b	
Otherwise, this	C 03C0.
value overrides the value provided by the pod spec.	
	-
Value must be non-negative integer. The value zero indicates stop	)
immediately via	
the kill signal (no opportunity to shut down).	
This is a beta field and requires enabling ProbeTerminationGrace	Period
feature gate.	
Minimum value is 1. spec.terminationGracePeriodSeconds is used	d if unset.
format: int64	
type: integer	
timeoutSeconds:	
description:  -	
Number of seconds after which the probe times out.	
Defaults to 1 second. Minimum value is 1.	
	d
More info: https://kubernetes.io/docs/concepts/workloads/pods/po	u-
lifecycle#container-probes	
format: int32	
type: integer	
type: object	
resources:	
description:  -	
Compute Resources required by this container.	
Cannot be updated.	

More info: https://kubernetes.io/docs/concepts/configuration/manage-resour	ces-
containers/	
properties:	
limits:	
additionalProperties:	
anyOf:	
- type: integer	
- type: string	
pattern: ^(\+ -)?(([0-9]+(\.[0-9]*)?))(\.[0-	
9]+))(([KMGTPE]i) [numkMGTPE] ([eE](\+ -)?(([0-9]+(\.[0-9]*)?) (\.[0-9]+))))?\$	
x-kubernetes-int-or-string: true	
description:  -	
Limits describes the maximum amount of compute resources allowed.	
More info: https://kubernetes.io/docs/concepts/configuration/manage-	
resources-containers/	
type: object	
requests:	
additionalProperties:	
anyOf:	
- type: integer	
- type: string	
pattern: ^(\+ -)?(([0-9]+(\.[0-9]*)?))(\.[0-	
9]+))(([KMGTPE]i) [numkMĠTPE] ([eÈ](\+ -)?(([0-9]+(\.[0-9]*)?) (\.[0-9]+))))?\$	
x-kubernetes-int-or-string: true	
description:  -	
Requests describes the minimum amount of compute resources required	
If Requests is omitted for a container, it defaults to Limits if that is explicit	
specified,	y
otherwise to an implementation-defined value. More info: https://kubernetes.io/docs/concepts/configuration/manage-	
resources-containers/	
type: object	
type: object	
securityContext:	
description:  -	
SecurityContext defines the security options the container should be run wit	h.
If set, the fields of SecurityContext override the equivalent fields of	
PodSecurityContext.	
More info: https://kubernetes.io/docs/tasks/configure-pod-container/security	-
context/	
properties:	
allowPrivilegeEscalation:	
description:  -	
AllowPrivilegeEscalation controls whether a process can gain more	
privileges than its parent process. This bool directly controls if	
the no_new_privs flag will be set on the container process.	
AllowPrivilegeEscalation is true always when the container is:	
1) run as Privileged	
2) has CAP_SYS_ADMIN	
Note that this field cannot be set when spec.os.name is windows.	
type: boolean	
capabilities:	
description:  -	
The capabilities to add/drop when running containers.	
Defaults to the default set of capabilities granted by the container runtime	·-
Note that this field cannot be set when spec.os.name is windows.	

properties:
add:
description: Added capabilities
items:
description: Capability represent
POSIX capabilities type
type: string
type: array
drop:
description: Removed capabilities
items:
description: Capability represent
POSIX capabilities type
type: string
type: array
type: object
privileged:
description:  -
Run container in privileged mode.
Processes in privileged containers are essentially equivalent to root on the
Defaults to false.
Note that this field cannot be set when spec.os.name is windows.
type: boolean procMount:
description:  -
procMount denotes the type of proc mount to use for the containers. The default is DefaultProcMount which uses the container runtime defaults for
readonly paths and masked paths.
This requires the ProcMountType feature flag to be enabled.
Note that this field cannot be set when spec.os.name is windows.
type: string
readOnlyRootFilesystem:
description:  -
Whether this container has a read-only root filesystem.
Default is false.
Note that this field cannot be set when spec.os.name is windows.
type: boolean
runAsGroup:
description:  -
The GID to run the entrypoint of the container process.
Uses runtime default if unset.
May also be set in PodSecurityContext. If set in both SecurityContext and
PodSecurityContext, the value specified in SecurityContext takes precedence.
Note that this field cannot be set when spec.os.name is windows.
format: int64
type: integer
runAsNonRoot:
description:  -
Indicates that the container must run as a non-root user.
If true, the Kubelet will validate the image at runtime to ensure that it
does not run as UID 0 (root) and fail to start the container if it does.
If unset or false, no such validation will be performed.
May also be set in PodSecurityContext. If set in both SecurityContext and
PodSecurityContext, the value specified in SecurityContext takes precedence.
type: boolean

host.

	runAsUser: description:  -
	The UID to run the entrypoint of the container process.
	Defaults to user specified in image metadata if unspecified.
	May also be set in PodSecurityContext. If set in both SecurityContext and
	PodSecurityContext, the value specified in SecurityContext takes precedence
	Note that this field cannot be set when spec.os.name is windows.
	format: int64
	type: integer
	seLinuxOptions:
	description:  -
	The SELinux context to be applied to the container.
	If unspecified, the container runtime will allocate a random SELinux context
for each	
SecurityContext and	container. May also be set in PodSecurityContext. If set in both
	PodSecurityContext, the value specified in SecurityContext takes precedence.
	Note that this field cannot be set when spec.os.name is windows.
	properties:
	level:
	description: Level is SELinux level
	label that applies to the container.
	type: string
	role:
	description: Role is a SELinux role
	label that applies to the container.
	type: string
	type:
	description: Type is a SELinux type
	label that applies to the container.
	type: string
	user:
	description: User is a SELinux user
	label that applies to the container.
	type: string
	type: object
	seccompProfile:
	description:  -
	The seccomp options to use by this container. If seccomp options are
	provided at both the pod & container level, the container options
	override the pod options.
	Note that this field cannot be set when spec.os.name is windows.
	properties:
	localhostProfile:
	description:  -
	localhostProfile indicates a profile defined in a file on the node should be
used.	<b>—</b> — — — — — — — — — — — — — — — — — —
	The profile must be preconfigured on the node to work.
	Must be a descending path, relative to the kubelet's configured seccomp
profile location.	
	Must only be set if type is "Localhost".
	type: string
	type:
	description:  -
	type indicates which kind of seccomp profile will be applied.
	Valid options are:

	Localhost - a profile defined in a file on the node should be used. RuntimeDefault - the container runtime default profile should be used. Unconfined - no profile should be applied.
	type: string
	required:
	- type
	type: object
	windowsOptions:
	description:  -
	The Windows specific settings applied to all containers.
	If unspecified, the options from the PodSecurityContext will be used. If set in both SecurityContext and PodSecurityContext, the value specified in
SecurityContext takes pre	
	Note that this field cannot be set when spec.os.name is linux.
	properties:
	gmsaCredentialSpec:
	description:  -
	GMSACredentialSpec is where the GMSA admission webhook
	(https://github.com/kubernetes-sigs/windows-gmsa) inlines the contents of
the	
	GMSA credential spec named by the GMSACredentialSpecName field.
	type: string
	gmsaCredentialSpecName:
	description: GMSACredentialSpecName
	is the name of the GMSA credential
	spec to use.
	type: string
	hostProcess:
	description:  -
	HostProcess determines if a container should be run as a 'Host Process'
container.	
	This field is alpha-level and will only be honored by components that
enable the	
	WindowsHostProcessContainers feature flag. Setting this field without the
feature	Windoworrook rooosooonkainoro roakaro nag. ookang inio nola waroat aro
Toutaro	flag will result in errors when validating the Pod. All of a Pod's containers
must	hag will result in errors when validating the rod. Air of a rod's containers
must	have the same effective HostProcess value (it is not allowed to have a mix
of HostProcess	have the same enective host rocess value (it is not allowed to have a mix
UT TOSEFTOCESS	containers and non-HostProcess containers). In addition, if HostProcess is
truc	
true	then liethletueric must also be act to true
	then HostNetwork must also be set to true.
	type: boolean
	runAsUserName:
	description:  -
	The UserName in Windows to run the entrypoint of the container process.
	Defaults to the user specified in image metadata if unspecified.
	May also be set in PodSecurityContext. If set in both SecurityContext and
	PodSecurityContext, the value specified in SecurityContext takes
precedence.	
	type: string
	type: object
	ype: object
sta	artupProbe:

	description:  - StartupProbe indicates that the Pod has successfully initialized. If specified, no other probes are executed until this completes successfully. If this probe fails, the Pod will be restarted, just as if the livenessProbe failed.
Pod's lifecycle,	This can be used to provide different probe parameters at the beginning of a
state operation.	when it might take a long time to load data or warm a cache, than during steady-
	This cannot be updated. More info: https://kubernetes.io/docs/concepts/workloads/pods/pod-
lifecycle#container-prob	
	properties:
	exec:
	description: Exec specifies the action to take.
	properties:
	command: description:  -
	Command is the command line to execute inside the container, the working
directory for the	The second is set (10) is the second file set of The second is simply
exec'd, it is	command is root ('/') in the container's filesystem. The command is simply
,	not run inside a shell, so traditional shell instructions (' ', etc) won't work. To
use	
	a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy. items: type: string
	type: array
	type: object
	failureThreshold:
	description:  -
having succeeded.	Minimum consecutive failures for the probe to be considered failed after
	Defaults to 3. Minimum value is 1.
	format: int32 type: integer
	grpc:
	description:  -
	GRPC specifies an action involving a GRPC port.
	This is a beta field and requires enabling GRPCContainerProbe feature gate. properties:
	port:
	description: Port number of the gRPC
	service. Number must be in the range 1 to 65535.
	format: int32
	type: integer service:
	description:  -
	Service is the name of the service to place in the gRPC
HealthCheckRequest	(see https://github.com/grpc/grpc/blob/master/doc/health-checking.md).

If this is not specified, the default behavior is defined by gRPC.

```
type: string
required:
- port
type: object
httpGet:
description: HTTPGet specifies the http
  request to perform.
properties:
  host:
   description: |-
    Host name to connect to, defaults to the pod IP. You probably want to set
    "Host" in httpHeaders instead.
   type: string
  httpHeaders:
   description: Custom headers to set in
    the request. HTTP allows repeated
    headers.
   items:
    description: HTTPHeader describes
     a custom header to be used in HTTP
     probes
    properties:
     name:
       description: The header field
        name
       type: string
     value:
       description: The header field
        value
       type: string
    required:
    - name
    - value
    type: object
   type: array
  path:
   description: Path to access on the HTTP
    server.
   type: string
  port:
   anyOf:
   - type: integer
   - type: string
   description: |-
    Name or number of the port to access on the container.
    Number must be in the range 1 to 65535.
    Name must be an IANA SVC NAME.
   x-kubernetes-int-or-string: true
  scheme:
   description: |-
    Scheme to use for connecting to the host.
    Defaults to HTTP.
   type: string
required:
 - port
type: object
```

	initialDelaySeconds:
	description:  - Number of seconds after the container has started before liveness probes are
initiated.	
lifecycle#container-prob	More info: https://kubernetes.io/docs/concepts/workloads/pods/pod-
	format: int32
	type: integer
	periodSeconds:
	description:  -
	How often (in seconds) to perform the probe.
	Default to 10 seconds. Minimum value is 1.
	format: int32
	type: integer
	successThreshold: description:  -
	Minimum consecutive successes for the probe to be considered successful
after having failed.	
and not not night and a	Defaults to 1. Must be 1 for liveness and startup. Minimum value is 1.
	format: int32
	type: integer
	tcpSocket:
	description: TCPSocket specifies an action
	involving a TCP port.
	properties:
	host: description: 'Optional: Host name to
	connect to, defaults to the pod IP.'
	type: string
	port:
	anyOf:
	- type: integer
	- type: string
	description:  -
	Number or name of the port to access on the container.
	Number must be in the range 1 to 65535.
	Name must be an IANA_SVC_NAME. x-kubernetes-int-or-string: true
	required:
	- port
	type: object
	terminationGracePeriodSeconds:
	description:  -
	Optional duration in seconds the pod needs to terminate gracefully upon
probe failure.	
	The grace period is the duration in seconds after the processes running in the
pod are sent	a tampination airmal and the time when the process are fourthly holted with
a kill signal.	a termination signal and the time when the processes are forcibly halted with
a kili siyriai.	Set this value longer than the expected cleanup time for your process.
	If this value is nil, the pod's terminationGracePeriodSeconds will be used.
Otherwise, this	
	value overrides the value provided by the pod spec.
	Value must be non-negative integer. The value zero indicates stop
immediately via	
	the kill signal (no opportunity to shut down).

	This is a beta field and requires enabling ProbeTerminationGracePeriod
feature gate.	
	Minimum value is 1. spec.terminationGracePeriodSeconds is used if unset.
	format: int64
	type: integer
	timeoutSeconds:
	description:  -
	Number of seconds after which the probe times out.
	Defaults to 1 second. Minimum value is 1.
	More info: https://kubernetes.io/docs/concepts/workloads/pods/pod-
lifecycle#container-pr	
	format: int32
	type: integer
	type: object
	stdin:
	description:  -
	Whether this container should allocate a buffer for stdin in the container runtime.
If this	
	is not set, reads from stdin in the container will always result in EOF.
	Default is false.
	type: boolean
	stdinOnce:
	description:  -
	Whether the container runtime should close the stdin channel after it has been
opened by	
oponou by	a single attach. When stdin is true the stdin stream will remain open across
multiple attach	
	sessions. If stdinOnce is set to true, stdin is opened on container start, is empty
until the	
	first client attaches to stdin, and then remains open and accepts data until the
client disconnects,	
	at which time stdin is closed and remains closed until the container is restarted.
If this	
	flag is false, a container processes that reads from stdin will never receive an
EOF.	hag is false, a serial processe and reade from stant tim fierer receive an
2011	Default is false
	type: boolean
	terminationMessagePath:
	description:  -
	Optional: Path at which the file to which the container's termination message
	will be written is mounted into the container's filesystem.
	Message written is intended to be brief final status, such as an assertion failure
message.	
moodagoi	Will be truncated by the node if greater than 4096 bytes. The total message
length across	
longin dorodo	all containers will be limited to 12kb.
	Defaults to /dev/termination-log.
	Cannot be updated.
	type: string
	terminationMessagePolicy:
	description:  -
	Indicate how the termination message should be populated. File will use the
contents of	maleate new the termination modelage briedla be populated. The will doe the
	terminationMessagePath to populate the container status message on both
success and failure.	

	FallbackToLogsOnError will use the last chunk of container log output if the
termination	
	message file is empty and the container exited with an error. The log output is limited to 2048 bytes or 80 lines, whichever is smaller. Defaults to File.
	Cannot be updated.
	type: string
	tty:
	description:  -
	Whether this container should allocate a TTY for itself, also requires 'stdin' to be
true.	
	Default is false.
	type: boolean
	volumeDevices:
	description: volumeDevices is the list of block
	devices to be used by the container.
	items:
	description: volumeDevice describes a mapping
	of a raw block device within a container.
	properties:
	devicePath:
	description: devicePath is the path inside
	of the container that the device will
	be mapped to.
	type: string
	name:
	description: name must match the name
	of a persistentVolumeClaim in the pod
	type: string
	required:
	- devicePath
	- name
	type: object
	type: array
	volumeMounts:
	description:  -
	Pod volumes to mount into the container's filesystem.
	Cannot be updated.
	items:
	description: VolumeMount describes a mounting
	of a Volume within a container.
	properties:
	mountPath:
	description:  -
	Path within the container at which the volume should be mounted. Must
	not contain ':'.
	type: string
	mountPropagation:
	description:  -
	mountPropagation determines how mounts are propagated from the host
	to container and the other way around.
	When not set, MountPropagationNone is used.
	This field is beta in 1.10.
	type: string
	name:
	description: This must match the Name

of a Volume.
type: string
readOnly:
description:  -
Mounted read-only if true, read-write otherwise (false or unspecified). Defaults to false.
type: boolean
subPath:
description:  -
Path within the volume from which the container's volume should be
mounted.
Defaults to "" (volume's root).
type: string
subPathExpr:
description:  -
Expanded path within the volume from which the container's volume should
be mounted.
Behaves similarly to SubPath but environment variable references
\$(VAR_NAME) are expanded using the container's environment. Defaults to "" (volume's root).
SubPathExpr and SubPath are mutually exclusive.
type: string
required:
- mountPath
- name
type: object
type: array
workingDir:
description:  -
Container's working directory.
If not specified, the container runtime's default will be used, which
might be configured in the container image.
Cannot be updated.
type: string
required:
- name
type: object
type: array
nodeName:
description:  - NodeName is a request to schedule this pod onto a specific node. If it is non-empty,
the scheduler simply schedules this pod onto that node, assuming that it fits
resource
requirements.
type: string
nodeSelector:
additionalProperties:
type: string
description:  -
NodeSelector is a selector which must be true for the pod to fit on a node.
Selector which must match a node's labels for the pod to be scheduled on that
node.
More info: https://kubernetes.io/docs/concepts/configuration/assign-pod-node/
type: object
x-kubernetes-map-type: atomic
OS:

```
description: |-
                     Specifies the OS of the containers in the pod.
                     Some pod and container fields are restricted if this is set.
                     If the OS field is set to linux, the following fields must be unset:
                     -securityContext.windowsOptions
                     If the OS field is set to windows, following fields must be unset:
                     - spec.hostPID
                     - spec.hostIPC
                     - spec.securityContext.seLinuxOptions
                     - spec.securityContext.seccompProfile
                     - spec.securityContext.fsGroup

    spec.securityContext.fsGroupChangePolicy

                     - spec.securityContext.sysctls
                     - spec.shareProcessNamespace
                     - spec.securityContext.runAsUser
                     - spec.securityContext.runAsGroup
                     - spec.securityContext.supplementalGroups
                     - spec.containers[*].securityContext.seLinuxOptions
                     - spec.containers[*].securityContext.seccompProfile
                     - spec.containers[*].securityContext.capabilities
                     - spec.containers[*].securityContext.readOnlyRootFilesystem
                     - spec.containers[*].securityContext.privileged
                     - spec.containers[*].securityContext.allowPrivilegeEscalation
                     - spec.containers[*].securityContext.procMount
                     - spec.containers[*].securityContext.runAsUser
                     - spec.containers[*].securityContext.runAsGroup
                     This is a beta field and requires the IdentifyPodOS feature
                    properties:
                     name:
                      description: |-
                        Name is the name of the operating system. The currently supported values are
linux and windows.
                        Additional value may be defined in future and can be one of:
                        https://github.com/opencontainers/runtime-spec/blob/master/config.md#platform-
specific-configuration
                        Clients should expect to handle additional values and treat unrecognized values
in this field as os: null
                      type: string
                    required:
                    - name
                    type: object
                   overhead:
                    additionalProperties:
                     anyOf:
                     - type: integer
                     - type: string
                     pattern: ^(\+|-)?(([0-9]+(\.[0-9]*)?)|(\.[0-9]+))(([KMGTPE]i)|[numkMGTPE]|([eE](\+|-
)?(([0-9]+(\.[0-9]*)?)|(\.[0-9]+))))?$
                     x-kubernetes-int-or-string: true
                    description: |-
                     Overhead represents the resource overhead associated with running a pod for a
given RuntimeClass.
```

	This field will be autopopulated at admission time by the RuntimeClass admission
controller. If	
	the RuntimeClass admission controller is enabled, overhead must not be set in Pod
create requests.	
the overhead already	The RuntimeClass admission controller will reject Pod create requests which have
the overhead already	set. If RuntimeClass is configured and selected in the PodSpec, Overhead will be
set to the value	
	defined in the corresponding RuntimeClass, otherwise it will remain unset and
treated as zero.	
	More info: https://git.k8s.io/enhancements/keps/sig-node/688-pod-
overhead/README.r	
	ype: object
	eemptionPolicy:
C	lescription:  -
	PreemptionPolicy is the Policy for preempting pods with lower priority.
	One of Never, PreemptLowerPriority.
+	Defaults to PreemptLowerPriority if unset. ype: string
	iority:
•	lescription:  -
C C	The priority value. Various system components use this field to find the
	priority of the pod. When Priority Admission Controller is enabled, it
	prevents users from setting this field. The admission controller populates
	this field from PriorityClassName.
	The higher the value, the higher the priority.
f	ormat: int32
t	ype: integer
	iorityClassName:
C	lescription:  -
	If specified, indicates the pod's priority. "system-node-critical" and
	"system-cluster-critical" are two special keywords which indicate the
	highest priorities with the former being the highest priority. Any other
	name must be defined by creating a PriorityClass object with that name.
	If not specified, the pod priority will be default or zero if there is no
4.	default.
•	ype: string adinessGates:
L	lescription:  - If specified, all readiness gates will be evaluated for pod readiness.
	A pod is ready when all its containers are ready AND
	all conditions specified in the readiness gates have status equal to "True"
	More info: https://git.k8s.io/enhancements/keps/sig-network/580-pod-readiness-
gates	
-	iems:
	description: PodReadinessGate contains the reference
	to a pod condition
	properties:
	conditionType:
	description: ConditionType refers to a condition
	in the pod's condition list with matching
	type.
	type: string
	required:
	- conditionType
	type: object

	type: array restartPolicy: description:  - Restart policy for all containers within the pod. One of Always, OnFailure, Never. Default to Always. More info: https://kubernetes.io/docs/concepts/workloads/pods/pod-
lifecycle/#restart-p	
	type: string
	runtimeClassName:
	description:  -
	RuntimeClassName refers to a RuntimeClass object in the node.k8s.io group, which
should be used	
	to run this pod. If no RuntimeClass resource matches the named class, the pod will
not be run.	
	If unset or empty, the "legacy" RuntimeClass will be used, which is an implicit class
with an	
	empty definition that uses the default runtime handler. More info: https://git.k8s.io/enhancements/keps/sig-node/585-runtime-class type: string
	schedulerName:
	description:  -
	If specified, the pod will be dispatched by specified scheduler.
	If not specified, the pod will be dispatched by default scheduler.
	type: string
	securityContext:
	description:  -
	SecurityContext holds pod-level security attributes and common container settings. Optional: Defaults to empty. See type description for default values of each field. properties: fsGroup:
	description:  - A special supplemental group that applies to all containers in a pod. Some volume types allow the Kubelet to change the ownership of that volume to be owned by the pod:
FSGroup)	<ol> <li>The owning GID will be the FSGroup</li> <li>The setgid bit is set (new files created in the volume will be owned by</li> </ol>
	3. The permission bits are OR'd with rw-rw
volume.	If unset, the Kubelet will not modify the ownership and permissions of any
	Note that this field cannot be set when spec.os.name is windows. format: int64
	type: integer fsGroupChangePolicy: description:  -
the volume	fsGroupChangePolicy defines behavior of changing ownership and permission of
	before being exposed inside Pod. This field will only apply to volume types which support fsGroup based ownership(and permissions). It will have no effect on ephemeral volume types such as: secret, configmaps and emptydir.

	Valid values are "OnRootMismatch" and "Always". If not specified, "Always" is
used.	
	Note that this field cannot be set when spec.os.name is windows.
	type: string
	runAsGroup:
	description:  -
	The GID to run the entrypoint of the container process.
	Uses runtime default if unset.
	May also be set in SecurityContext. If set in both SecurityContext and
	PodSecurityContext, the value specified in SecurityContext takes precedence
	for that container.
	Note that this field cannot be set when spec.os.name is windows.
	format: int64
	type: integer
	runAsNonRoot:
	description:  -
	Indicates that the container must run as a non-root user.
	If true, the Kubelet will validate the image at runtime to ensure that it
	does not run as UID 0 (root) and fail to start the container if it does.
	If unset or false, no such validation will be performed.
	May also be set in SecurityContext. If set in both SecurityContext and
	PodSecurityContext, the value specified in SecurityContext takes precedence.
	type: boolean
	runAsUser:
	description:  -
	The UID to run the entrypoint of the container process.
	Defaults to user specified in image metadata if unspecified.
	May also be set in SecurityContext. If set in both SecurityContext and
	PodSecurityContext, the value specified in SecurityContext takes precedence
	for that container.
	Note that this field cannot be set when spec.os.name is windows.
	format: int64
	type: integer
	seLinuxOptions:
	description:  -
	The SELinux context to be applied to all containers.
	If unspecified, the container runtime will allocate a random SELinux context for
each	
	container. May also be set in SecurityContext. If set in
	both SecurityContext and PodSecurityContext, the value specified in
SecurityContext	
	takes precedence for that container.
	Note that this field cannot be set when spec.os.name is windows.
	properties:
	level:
	description: Level is SELinux level label
	that applies to the container.
	type: string
	role:
	description: Role is a SELinux role label
	that applies to the container.
	type: string
	type:
	description: Type is a SELinux type label
	that applies to the container.
	type: string

	USEI:
	description: User is a SELinux user label
	that applies to the container.
	type: string
	type: object
	seccompProfile:
	description:  -
	The seccomp options to use by the containers in this pod.
	Note that this field cannot be set when spec.os.name is windows.
	properties: localhostProfile:
	description:  -
	localhostProfile indicates a profile defined in a file on the node should be used.
	The profile must be preconfigured on the node to work.
	Must be a descending path, relative to the kubelet's configured seccomp profile
location.	
	Must only be set if type is "Localhost".
	type: string
	type:
	description:  -
	type indicates which kind of seccomp profile will be applied.
	Valid options are:
	Localhost - a profile defined in a file on the node should be used.
	RuntimeDefault - the container runtime default profile should be used.
	Unconfined - no profile should be applied.
	type: string
	required:
	- type
	type: object
	supplementalGroups: description:  -
	A list of groups applied to the first process run in each container, in addition
	to the container's primary GID. If unspecified, no groups will be added to
	any container.
	Note that this field cannot be set when spec.os.name is windows.
	items:
	format: int64
	type: integer
	type: array
	sysctls:
	description:  -
	Sysctls hold a list of namespaced sysctls used for the pod. Pods with
unsupported	
	sysctls (by the container runtime) might fail to launch.
	Note that this field cannot be set when spec.os.name is windows.
	items:
	description: Sysctl defines a kernel parameter
	to be set
	properties:
	name:
	description: Name of a property to set type: string
	value:
	description: Value of a property to set
	accomption. Value of a property to out

	type: string
re	equired:
-	name
-	value
tv	/pe: object
	be: array
	dowsOptions:
	scription:  -
	he Windows specific settings applied to all containers.
	unspecified, the options within a container's SecurityContext will be used.
	set in both SecurityContext and PodSecurityContext, the value specified in
SecurityContext takes pre	
	lote that this field cannot be set when spec.os.name is linux.
	operties:
g	msaCredentialSpec:
	description:  -
	GMSACredentialSpec is where the GMSA admission webhook
	(https://github.com/kubernetes-sigs/windows-gmsa) inlines the contents of the
	GMSA credential spec named by the GMSACredentialSpecName field.
	type: string
	msaCredentialSpecName:
	description: GMSACredentialSpecName is the
	name of the GMSA credential spec to use.
	type: string
	ostProcess:
	description:  -
	HostProcess determines if a container should be run as a 'Host Process'
container.	
	This field is alpha-level and will only be honored by components that enable
the	
	WindowsHostProcessContainers feature flag. Setting this field without the
feature	
Teatore	flag will result in errors when validating the Pod. All of a Pod's containers must
Lleat Droace	have the same effective HostProcess value (it is not allowed to have a mix of
HostProcess	and the second
1	containers and non-HostProcess containers). In addition, if HostProcess is
true	
	then HostNetwork must also be set to true.
	type: boolean
	unAsUserName:
	description:  -
	The UserName in Windows to run the entrypoint of the container process.
	Defaults to the user specified in image metadata if unspecified.
	May also be set in PodSecurityContext. If set in both SecurityContext and
	PodSecurityContext, the value specified in SecurityContext takes precedence.
	type: string
	be: object
	object
	eAccount:
	ription:  -
	precatedServiceAccount is a depreciated alias for ServiceAccountName.
	precated: Use serviceAccountName instead.
	string
	eAccountName:
	ription:  -
Ser	viceAccountName is the name of the ServiceAccount to use to run this pod.

More info: https://kubernetes.io/docs/tasks/configure-pod-container/configure-
service-account/
type: string
setHostnameAsFQDN:
description:  -
If true the pod's hostname will be configured as the pod's FQDN, rather than the lea
name (the default).
In Linux containers, this means setting the FQDN in the hostname field of the kerne
(the nodename field of struct utsname).
In Windows containers, this means setting the registry value of hostname for the
registry key HKEY_LOCAL_MACHINE\\SYSTEM\\CurrentControlSet\\Services\\Tcpip\\Parameters to
If a pod does not have FQDN, this has no effect.
•
Default to false.
type: boolean
shareProcessNamespace:
description:  -
Share a single process namespace between all of the containers in a pod.
When this is set containers will be able to view and signal processes from other
containers
in the same pod, and the first process in each container will not be assigned PID 1.
HostPID and ShareProcessNamespace cannot both be set.
Optional: Default to false.
type: boolean
subdomain:
description:  -
If specified, the fully qualified Pod hostname will be
" <hostname>.<subdomain>.<pod namespace="">.svc.<cluster domain="">".</cluster></pod></subdomain></hostname>
If not specified, the pod will not have a domainname at all.
type: string
terminationGracePeriodSeconds:
description:  -
Optional duration in seconds the pod needs to terminate gracefully. May be
decreased in delete request.
Value must be non-negative integer. The value zero indicates stop immediately via
the kill signal (no opportunity to shut down).
If this value is nil, the default grace period will be used instead.
The grace period is the duration in seconds after the processes running in the pod
are sent
a termination signal and the time when the processes are forcibly halted with a kill
signal.
Set this value longer than the expected cleanup time for your process.
Defaults to 30 seconds.
format: int64
type: integer
tolerations:
description: If specified, the pod's tolerations.
items:
description:  -
The pod this Toleration is attached to tolerates any taint that matches
the triple <key,value,effect> using the matching operator <operator>.</operator></key,value,effect>
properties:
effect:
description:  -
Effect indicates the taint effect to match. Empty means match all taint effects.

type: string key: description:  - Key is the taint key that the toleration applies to. Empty means match all taint values and all keys. If the key is empty, operator must be Exists; this combination means to match all values and all keys. type: string operator: description:  - Operator represents a key's relationship to the value. Valid operators are Exists and Equal. Defaults to Equal. Exists is equivalent to wildcard for value, so that a pod can tolerate all taints of a particular category. type: string tolerationSeconds: description:  - TolerationSeconds represents the period of time the toleration (which must be of effect NoExecute, otherwise this field is ignored) tolerates the taint. By default, it is not set, which means tolerate the taint forever (do not evict). Zero and negative values will be treated as 0 (evict immediately) by the system. format: int64 type: integer value: description:  - Value is the taint value the toleration matches to. If the operator is Exists, the value should be empty, otherwise just a regular string. type: object type: array topologySpreadConstraints: description:  - TopologySpreadConstraints describes how a group of pods ought to spread across		When specified, allowed values are NoSchedule, PreferNoSchedule and
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how to spread matching pods among the given topology. properties: labelSelector: description:  - LabelSelector is used to find matching pods. Pods that match this label selector are counted to determine the number of pods in their corresponding topology domain. properties: matchExpressions:		
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in their corresponding topology domain. properties: matchExpressions:		
properties: matchExpressions:		•
matchExpressions:		
description: matchExpressions is a list		
of label selector requirements. The requirements		
are ANDed		are ANDed.
items:		description:  -
items:		
	A label selector requirement is a selector that contains values, a key, and an	
------------------	--	
operator that		
	relates the key and values.	
	properties:	
	key:	
	description: key is the label key	
	that the selector applies to.	
	type: string	
	operator:	
	description:  -	
	operator represents a key's relationship to a set of values.	
	Valid operators are In, NotIn, Exists and DoesNotExist.	
	type: string	
	values:	
	description:  -	
	values is an array of string values. If the operator is In or NotIn,	
	the values array must be non-empty. If the operator is Exists or	
DoesNotExist,		
Dooolitotzikioti	the values array must be empty. This array is replaced during a strategic	
	merge patch.	
	items:	
	type: string	
	type: array	
	required:	
	- key	
	- operator	
	type: object	
	type: array	
	matchLabels:	
	additionalProperties:	
	type: string	
	description:  -	
	matchLabels is a map of {key,value} pairs. A single {key,value} in the	
matchLabels		
	map is equivalent to an element of matchExpressions, whose key field is	
"key", the		
	operator is "In", and the values array contains only "value". The requirements	
are ANDed.		
	type: object	
	type: object	
	x-kubernetes-map-type: atomic	
	maxSkew:	
	description:  -	
	MaxSkew describes the degree to which pods may be unevenly distributed.	
	When `whenUnsatisfiable=DoNotSchedule`, it is the maximum permitted	
difference		
	between the number of matching pods in the target topology and the global	
minimum.		
	The global minimum is the minimum number of matching pods in an eligible	
domain		
	or zero if the number of eligible domains is less than MinDomains.	
	For example, in a 3-zone cluster, MaxSkew is set to 1, and pods with the same	
	labelSelector spread as 2/2/1:	
	In this case, the global minimum is 1.	
	zone1   zone2   zone3	
	PP   PP   P   .	

	<ul> <li>- if MaxSkew is 1, incoming pod can only be scheduled to zone3 to become</li> </ul>
2/2/2;	
	scheduling it onto zone1(zone2) would make the ActualSkew(3-1) on
zone1(zone2)	violate MaxSkew(1).
	- if MaxSkew is 2, incoming pod can be scheduled onto any zone.
	When `whenUnsatisfiable=ScheduleAnyway`, it is used to give higher
precedence	
	to topologies that satisfy it.
	It's a required field. Default value is 1 and 0 is not allowed.
	format: int32
	type: integer
	ninDomains:
	description:  - MinDomains indicates a minimum number of eligible domains.
	When the number of eligible domains with matching topology keys is less than
minDomains,	
,	Pod Topology Spread treats "global minimum" as 0, and then the calculation of
Skew is performed.	
	And when the number of eligible domains with matching topology keys equals or
greater than minDomair	
	this value has no effect on scheduling.
	As a result, when the number of eligible domains is less than minDomains, scheduler won't schedule more than maxSkew Pods to those domains.
	If value is nil, the constraint behaves as if MinDomains is equal to 1.
	Valid values are integers greater than 0.
	When value is not nil, WhenUnsatisfiable must be DoNotSchedule.
and an elementation de la casa de	For example, in a 3-zone cluster, MaxSkew is set to 2, MinDomains is set to 5
and pods with the same	
	labelSelector spread as 2/2/2:   zone1   zone2   zone3
	The number of domains is less than 5(MinDomains), so "global minimum" is
treated as 0.	
	In this situation, new pod with the same labelSelector cannot be scheduled,
	because computed skew will be 3(3 - 0) if new Pod is scheduled to any of the
three zones,	
	it will violate MaxSkew.
	This is an alpha field and requires enabling MinDomainsInPodTopologySpread
feature gate.	
	format: int32
	type: integer
	opologyKey:
	description:  -
	TopologyKey is the key of node labels. Nodes that have a label with this key
	and identical values are considered to be in the same topology. We consider each <key, value=""> as a "bucket", and try to put balanced number</key,>
	of pods into each bucket.
	We define a domain as a particular instance of a topology.
	Also, we define an eligible domain as a domain whose nodes match the node
selector.	

	e.g. If TopologyKey is "kubernetes.io/hostname", each Node is a domain of that
topology.	· · · · · · · · · · · · · · · · · · ·
	And, if TopologyKey is "topology.kubernetes.io/zone", each zone is a domain of
that topology.	
	It's a required field.
	type: string whenUnsatisfiable:
	description:  -
	WhenUnsatisfiable indicates how to deal with a pod if it doesn't satisfy
	the spread constraint DoNotSchedule (default) tells the scheduler not to schedule it.
	- ScheduleAnyway tells the scheduler to schedule the pod in any location,
	but giving higher precedence to topologies that would help reduce the
	skew.
	A constraint is considered "Unsatisfiable" for an incoming pod
	if and only if every possible node assignment for that pod would violate
	"MaxSkew" on some topology.
	For example, in a 3-zone cluster, MaxSkew is set to 1, and pods with the same
	labelSelector spread as 3/1/1:
	zone1   zone2   zone3
	If WhenUnsatisfiable is set to DoNotSchedule, incoming pod can only be
scheduled	
	to zone2(zone3) to become 3/2/1(3/1/2) as ActualSkew(2-1) on zone2(zone3)
satisfies	
	MaxSkew(1). In other words, the cluster can still be imbalanced, but scheduler
	won't make it *more* imbalanced.
	It's a required field.
	type: string
	required:
	- maxSkew
	- topologyKey - whenUnsatisfiable
	type: object
	type: array
	x-kubernetes-list-map-keys:
	- topologyKey
	- whenUnsatisfiable
	x-kubernetes-list-type: map
N	volumes:
	description:  -
	List of volumes that can be mounted by containers belonging to the pod.
	More info: https://kubernetes.io/docs/concepts/storage/volumes
	items:
	description: Volume represents a named volume in
	a pod that may be accessed by any container in
	the pod.
	properties:
	awsElasticBlockStore:
	description:  -
	awsElasticBlockStore represents an AWS Disk resource that is attached to a
	kubelet's host machine and then exposed to the pod.
https://kubaraataa :	More info:
mups.//kupemetes.h	o/docs/concepts/storage/volumes#awselasticblockstore
	properties: fsType:
	iorypo.

description:  -	
fsType is the filesystem type of the volume that you want to mount.	
Tip: Ensure that the filesystem type is supported by the host operating	
system.	find
Examples: "ext4", "xfs", "ntfs". Implicitly inferred to be "ext4" if unspeci More info:	lied.
https://kubernetes.io/docs/concepts/storage/volumes#awselasticblockstore	
TODO: how do we prevent errors in the filesystem from compromising	the
machine	
type: string	
partition: description:  -	
partition is the partition in the volume that you want to mount.	
If omitted, the default is to mount by volume name.	
Examples: For volume /dev/sda1, you specify the partition as "1".	
Similarly, the volume partition for /dev/sda is "0" (or you can leave the property empty).	
format: int32	
type: integer	
readOnly:	
description:  -	
readOnly value true will force the readOnly setting in VolumeMounts. More info:	
https://kubernetes.io/docs/concepts/storage/volumes#awselasticblockstore	
type: boolean	
volumeID:	
description:  -	
volumeID is unique ID of the persistent disk resource in AWS (Amazor volume).	IEB2
More info:	
https://kubernetes.io/docs/concepts/storage/volumes#awselasticblockstore	
type: string	
required: - volumeID	
type: object	
azureDisk:	
description: azureDisk represents an Azure Data	
Disk mount on the host and bind mount to the	
pod. properties:	
cachingMode:	
description: 'cachingMode is the Host Caching	
mode: None, Read Only, Read Write.'	
type: string	
diskName: description: diskName is the Name of the	
data disk in the blob storage	
type: string	
diskURI:	
description: diskURI is the URI of data	
disk in the blob storage	
disk in the blob storage type: string fsType: description:  -	
disk in the blob storage type: string fsType:	

Ex. "ext4", "xfs", "ntfs". Implicitly inferred to be "ext4" if unspecified. type: string kind: description: 'kind expected values are Shared: multiple blob disks per storage account Dedicated: single blob disk per storage account Managed: azure managed data disk (only in managed availability set). defaults to shared' type: string readOnly: description: |readOnly Defaults to false (read/write). ReadOnly here will force the ReadOnly setting in VolumeMounts. type: boolean required: - diskName - diskURI type: object azureFile: description: azureFile represents an Azure File Service mount on the host and bind mount to the pod. properties: readOnly: description: |readOnly defaults to false (read/write). ReadOnly here will force the ReadOnly setting in VolumeMounts. type: boolean secretName: description: secretName is the name of secret that contains Azure Storage Account Name and Key type: string shareName: description: shareName is the azure share Name type: string required: - secretName - shareName type: object cephfs: description: cephFS represents a Ceph FS mount on the host that shares a pod's lifetime properties: monitors: description: Imonitors is Required: Monitors is a collection of Ceph monitors More info: https://examples.k8s.io/volumes/cephfs/README.md#how-to-useitems: type: string type: array path: description: 'path is Optional: Used as the mounted root, rather than the full

it

	Ceph tree, default is /
	type: string
	readOnly:
	description:  -
	readOnly is Optional: Defaults to false (read/write). ReadOnly here will force
	the ReadOnly setting in VolumeMounts.
	More info: https://examples.k8s.io/volumes/cephfs/README.md#how-to-use-
it	
	type: boolean
	secretFile:
	description:  -
	secretFile is Optional: SecretFile is the path to key ring for User, default is
/etc/ceph/user.secret	
	More info: https://examples.k8s.io/volumes/cephfs/README.md#how-to-use-
it	······································
	type: string
	secretRef:
	description:  -
	secretRef is Optional: SecretRef is reference to the authentication secret for
User, default is empty.	
ecol, default le ompty.	More info: https://examples.k8s.io/volumes/cephfs/README.md#how-to-use-
it	
it.	properties:
	name:
	description:  -
	Name of the referent.
	More info: https://kubernetes.io/docs/concepts/overview/working-with-
objects/names/#names	
objects/names/#names	TODO: Add other useful fields. apiVersion, kind, uid?
	type: string
	type: object
	x-kubernetes-map-type: atomic
	description:  -
	user is optional: User is the rados user name, default is admin
.,	More info: https://examples.k8s.io/volumes/cephfs/README.md#how-to-use-
it	
	type: string
	equired:
	monitors
	/pe: object
	nder:
	lescription:  -
	cinder represents a cinder volume attached and mounted on kubelets host
machine.	
	More info: https://examples.k8s.io/mysql-cinder-pd/README.md
	roperties:
	fsType:
	description:  -
	fsType is the filesystem type to mount.
	Must be a filesystem type supported by the host operating system.
	Examples: "ext4", "xfs", "ntfs". Implicitly inferred to be "ext4" if unspecified.
	More info: https://examples.k8s.io/mysql-cinder-pd/README.md
	type: string
	readOnly:
	description:  -

	Only defaults to false (read/write). ReadOnly here will force
More	ReadOnly setting in VolumeMounts. info: https://examples.k8s.io/mysql-cinder-pd/README.md
	poolean
secretF	ption:  -
	etRef is optional: points to a secret object containing parameters used to
connect	
to O	penStack.
prope	
nam	9:
	cription:  -
	ame of the referent.
	ore info: https://kubernetes.io/docs/concepts/overview/working-with-
objects/names/#names	
	DDO: Add other useful fields. apiVersion, kind, uid?
	e: string
type: ·	
volume	ernetes-map-type: atomic
	ption:  -
	nelD used to identify the volume in cinder.
	e info: https://examples.k8s.io/mysql-cinder-pd/README.md
type:	
required	
- volume	
type: ob	ect
configMa	):
	on: configMap represents a configMap
	ould populate this volume
propertie	
default	
	ption:  -
default.	ultMode is optional: mode bits used to set permissions on created files by
	be an octal value between 0000 and 0777 or a decimal value between 0
and 511.	
	IL accepts both octal and decimal values, JSON requires decimal values
for mode bits.	
Defa	ults to 0644.
Direc	ctories within the path are not affected by this setting.
This	might be in conflict with other options that affect the file
mod	e, like fsGroup, and the result can be other mode bits set.
forma	t: int32
	nteger
items:	
	ption:  -
	s if unspecified, each key-value pair in the Data field of the referenced
	igMap will be projected into the volume as a file whose name is the
	and content is the value. If specified, the listed keys will be acted into the specified paths, and unlisted keys will not be
	ent. If a key is specified which is not present in the ConfigMap,
	volume setup will error unless it is marked optional. Paths must be
	ive and may not contain the '' path or start with ''.
items	
	ription: Maps a string key to a path

within a volume.
properties:
key:
description: key is the key to project.
type: string
mode:
description:  -
mode is Optional: mode bits used to set permissions on this file.
Must be an octal value between 0000 and 0777 or a decimal value
between 0 and 511.
YAML accepts both octal and decimal values, JSON requires decimal
values for mode bits.
If not specified, the volume defaultMode will be used.
This might be in conflict with other options that affect the file
mode, like fsGroup, and the result can be other mode bits set.
format: int32
type: integer
path:
description:  -
path is the relative path of the file to map the key to.
May not be an absolute path.
May not contain the path element ''.
May not start with the string ''.
type: string
required:
- key
- path
type: object
type: array
name:
description:  -
Name of the referent.
More info: https://kubernetes.io/docs/concepts/overview/working-with-
objects/names/#names
TODO: Add other useful fields. apiVersion, kind, uid?
type: string
optional:
description: optional specify whether the
ConfigMap or its keys must be defined
type: boolean
type: object
x-kubernetes-map-type: atomic
CSI:
description: csi (Container Storage Interface)
represents ephemeral storage that is handled
by certain external CSI drivers (Beta feature).
properties:
driver:
description:  -
driver is the name of the CSI driver that handles this volume.
Consult with your admin for the correct name as registered in the cluster.
type: string
fsType:
description:  -
fsType to mount. Ex. "ext4", "xfs", "ntfs".
If not provided, the empty value is passed to the associated CSI driver

t nc c	which will determine the default filesystem to apply. ype: string dePublishSecretRef: lescription:  - nodePublishSecretRef is a reference to the secret object containing sensitive information to pass to the CSI driver to complete the CSI NodePublishVolume and NodeUnpublishVolume calls. This field is optional, and may be empty if no secret is required. If the secret object contains more than one secret, all secret references are passed. properties: name: description:  - Name of the referent. More infer bttps://kubernetes.io/docs/concepts/oven/jow/working.with
objects/names/#names	More info: https://kubernetes.io/docs/concepts/overview/working-with-
	TODO: Add other useful fields. apiVersion, kind, uid? type: string
	ype: object
	-kubernetes-map-type: atomic
	adOnly:
ť	lescription:  - readOnly specifies a read-only configuration for the volume.
	Defaults to false (read/write).
ť	ype: boolean
	lumeAttributes:
a	dditionalProperties:
	type: string
	lescription:  -
	volumeAttributes stores driver-specific properties that are passed to the CSI
	driver. Consult your driver's documentation for supported values.
	ype: object
	uired: iver
	e: object
	nwardAPI:
	cription: downwardAPI represents downward
	Pl about the pod that should populate this
	lume
pro	perties:
de	faultMode:
C	lescription:  -
	Optional: mode bits to use on created files by default. Must be a
	Optional: mode bits used to set permissions on created files by default.
and 511.	Must be an octal value between 0000 and 0777 or a decimal value between 0
and 511.	YAML accepts both octal and decimal values, JSON requires decimal values
for mode bits.	
	Defaults to 0644.
	Directories within the path are not affected by this setting.
	This might be in conflict with other options that affect the file
	mode, like fsGroup, and the result can be other mode bits set.
	ormat: int32
	ype: integer
	ms:
С	lescription: Items is a list of downward
	API volume file

	iteme
	items:
	description: DownwardAPIVolumeFile represents
	information to create the file containing
	the pod field
	properties:
	fieldRef:
	description: 'Required: Selects a
	field of the pod: only annotations,
	labels, name and namespace are supported.
	properties:
	apiVersion:
	description: Version of the schema
	the FieldPath is written in
	terms of, defaults to "v1".
	type: string
	fieldPath:
	description: Path of the field
	to select in the specified API
	•
	version.
	type: string
	required:
	- fieldPath
	type: object
	x-kubernetes-map-type: atomic
	mode:
	description:  -
	Optional: mode bits used to set permissions on this file, must be an octal
value	
	between 0000 and 0777 or a decimal value between 0 and 511.
	YAML accepts both octal and decimal values, JSON requires decimal
values for mode bits.	
	If not specified, the volume defaultMode will be used.
	This might be in conflict with other options that affect the file
	mode, like fsGroup, and the result can be other mode bits set.
	format: int32
	type: integer
	path:
	description: 'Required: Path is the
	relative path name of the file to
	be created. Must not be absolute
	or contain the "" path. Must
	be utf-8 encoded. The first item
	of the relative path must not start
	with ""
	type: string
	resourceFieldRef:
	description:  -
	Selects a resource of the container: only resources limits and requests
	(limits.cpu, limits.memory, requests.cpu and requests.memory) are
currently supported.	
	properties:
	containerName:
	description: 'Container name:
	required for volumes, optional
	for env vars'
	type: string

divisor: anvOf: - type: integer - type: string description: Specifies the output format of the exposed resources, defaults to "1" pattern: ^(\+|-)?(([0-9]+(\.[0-9]\*)?))(\.[0-9]+))(([KMGTPE]i)|[numkMGTPE]|([eE](\+|-)?(([0-9]+(\.[0-9]\*)?)|(\.[0-9]+))))?\$ x-kubernetes-int-or-string: true resource: description: 'Required: resource to select' type: string required: - resource type: object x-kubernetes-map-type: atomic required: - path type: object type: array type: object emptyDir: description: |emptyDir represents a temporary directory that shares a pod's lifetime. More info: https://kubernetes.io/docs/concepts/storage/volumes#emptydir properties: medium: description: |medium represents what type of storage medium should back this directory. The default is "" which means to use the node's default medium. Must be an empty string (default) or Memory. More info: https://kubernetes.io/docs/concepts/storage/volumes#emptydir type: string sizeLimit: anyOf: - type: integer - type: string description: |sizeLimit is the total amount of local storage required for this EmptyDir volume. The size limit is also applicable for memory medium. The maximum usage on memory medium EmptyDir would be the minimum value between the SizeLimit specified here and the sum of memory limits of all containers in a pod. The default is nil which means that the limit is undefined. More info: http://kubernetes.io/docs/user-guide/volumes#emptydir pattern: ^(\+|-)?(([0-9]+(\.[0-9]\*)?))(\.[0-9]+))(([KMGTPE]i)|[numkMGTPE]|([eE](\+|-)?(([0-9]+(\.[0-9]\*)?)|(\.[0-9]+))))?\$ x-kubernetes-int-or-string: true type: object ephemeral: description: |ephemeral represents a volume that is handled by a cluster storage driver.

the pod starts,	The volume's lifecycle is tied to the pod that defines it - it will be created before
	and deleted when the pod is removed.
	<ul> <li>Use this if:</li> <li>a) the volume is only needed while the pod runs,</li> <li>b) features of normal volumes like restoring from snapshot or capacity tracking are needed,</li> <li>c) the storage driver is specified through a storage class, and</li> <li>d) the storage driver supports dynamic volume provisioning through a PersistentVolumeClaim (see EphemeralVolumeSource for more information on the connection between this volume type and PersistentVolumeClaim).</li> </ul>
	Use PersistentVolumeClaim or one of the vendor-specific APIs for volumes that persist for longer than the lifecycle of an individual pod.
	Use CSI for light-weight local ephemeral volumes if the CSI driver is meant to be used that way - see the documentation of the driver for more information.
	A pod can use both types of ephemeral volumes and persistent volumes at the same time. properties: volumeClaimTemplate: description:  - Will be used to create a stand-alone PVC to provision the volume. The pod in which this EphemeralVolumeSource is embedded will be the owner of the PVC, i.e. the PVC will be deleted together with the pod. The name of the PVC will be ` <pod name="">-<volume name="">` where `<volume name="">` is the name from the `PodSpec.Volumes` array entry. Pod validation will reject the pod if the concatenated name is not valid for a PVC (for example, too long).</volume></volume></pod>
	An existing PVC with that name that is not owned by the pod will *not* be used for the pod to avoid using an unrelated volume by mistake. Starting the pod is then blocked until the unrelated PVC is removed. If such a pre-created PVC is meant to be used by the pod, the PVC has to updated with an owner reference to the pod once the pod exists. Normally this should not be necessary, but it may be useful when manually reconstructing a broken cluster.
	This field is read-only and no changes will be made by Kubernetes to the PVC after it has been created.

Required, must not be nil. properties:

	metadata:
	description:  -
	May contain labels and annotations that will be copied into the PVC
	when creating it. No other fields are allowed and will be rejected during
	validation.
	properties:
	annotations:
	additionalProperties:
	type: string
	type: object
	finalizers:
	items:
	type: string
	type: array
	labels:
	additionalProperties:
	•
	type: string
	type: object
	name:
	type: string
	namespace:
	type: string
	type: object
	spec:
	description:  -
	The specification for the PersistentVolumeClaim. The entire content is
	copied unchanged into the PVC that gets created from this
	template. The same fields as in a PersistentVolumeClaim
	are also valid here.
	properties:
	accessModes:
	description:  -
	accessModes contains the desired access modes the volume should
have.	
	More info: https://kubernetes.io/docs/concepts/storage/persistent-
volumes#access-modes-1	
Volumes#access-modes-1	items:
	type: string
	type: array
	dataSource:
	description:  -
	dataSource field can be used to specify either:
	* An existing VolumeSnapshot object
(snapshot.storage.k8s.io/Vo	
	* An existing PVC (PersistentVolumeClaim)
	If the provisioner or an external controller can support the specified data
source,	
	it will create a new volume based on the contents of the specified data
source.	
	If the AnyVolumeDataSource feature gate is enabled, this field will
always have	- · · ·
-	the same contents as the DataSourceRef field.
	properties:
	apiGroup:
	description:  -
	APIGroup is the group for the resource being referenced.

	If APIGroup is not specified, the specified Kind must be in the core API
group.	
	For any other third-party types, APIGroup is required.
	type: string
	kind:
	description: Kind is the type
	of resource being referenced
	type: string
	name:
	description: Name is the name
	of resource being referenced
	type: string
	required:
	- kind
	- name
	type: object
	x-kubernetes-map-type: atomic
	dataSourceRef:
	description:  -
	dataSourceRef specifies the object from which to populate the volume
with data, if a non-empty	
	volume is desired. This may be any local object from a non-empty API
group (non	· ····································
9.00p (	core object) or a PersistentVolumeClaim object.
	When this field is specified, volume binding will only succeed if the type
of	
01	the specified object matches some installed volume populator or
dynamic	
aynamie	provisioner.
	This field will replace the functionality of the DataSource field and as
such	
odon	if both fields are non-empty, they must have the same value. For
backwards	in boar holde are non empty; they made have the barne value. For
Sucharao	compatibility, both fields (DataSource and DataSourceRef) will be set to
the same	
	value automatically if one of them is empty and the other is non-empty.
	There are two important differences between DataSource and
DataSourceRef:	There are two important differences between Databource and
DataSourcerter.	* While DataSource only allows two specific types of objects,
DataSourceRef	while DataSource only allows two specific types of objects,
DataSourceiver	allows any non-core object, as well as PersistentVolumeClaim objects.
	* While DataSource ignores disallowed values (dropping them),
DataSourceRef	while Dataoource ignores disallowed values (dropping them),
DataSourceiver	preserves all values, and generates an error if a disallowed value is
	specified.
	(Beta) Using this field requires the AnyVolumeDataSource feature gate
to be enabled.	(Deta) Using this held requires the AnyvolumeDataSource reature gate
to be enabled.	proportion
	properties:
	apiGroup:
	description:  -
	APIGroup is the group for the resource being referenced.
aroun	If APIGroup is not specified, the specified Kind must be in the core API
group.	For any other third party types, APIC roup is required
	For any other third-party types, APIGroup is required.
	type: string kind:
	NIIG.

description: Kind is the type
of resource being referenced
type: string
name:
description: Name is the name
of resource being referenced
type: string
required:
- kind
- name
type: object
x-kubernetes-map-type: atomic
resources:
description:  -
resources represents the minimum resources the volume should have.
If RecoverVolumeExpansionFailure feature is enabled users are allowed
to specify resource requirements
that are lower than previous value but must still be higher than capacity
recorded in the
status field of the claim.
More info: https://kubernetes.io/docs/concepts/storage/persistent-
volumes#resources
properties:
limits:
additionalProperties:
anyOf:
- type: integer
- type: string
pattern: $(+ -)?(([0-9]+().[0-9]*)?) (.[0-0]+))/((KMCTPE]))[pumkMCTPE])/(pE])/(pE)/(pO)+().[0,0]*)?)((pO)+().[0,0]*)?)(2)$
9]+))(([KMGTPE]i) [numkMGTPE] ([eE](\+ -)?(([0-9]+(\.[0-9]*)?) (\.[0-9]+))))?\$
x-kubernetes-int-or-string: true
description:  -
Limits describes the maximum amount of compute resources allowed.
More info: https://kubernetes.io/docs/concepts/configuration/manage-
resources-containers/
type: object
requests:
additionalProperties:
anyOf:
- type: integer
- type: string
pattern: ^(\+ -)?(([0-9]+(\.[0-9]*)?) (\.[0-
9]+))(([KMGTPE]i) [numkMGTPE] ([eE](\+ -)?(([0-9]+(\.[0-9]*)?) (\.[0-9]+))))?\$
x-kubernetes-int-or-string: true
description:  -
Requests describes the minimum amount of compute resources
required.
If Requests is omitted for a container, it defaults to Limits if that is
explicitly specified,
otherwise to an implementation-defined value.
More info: https://kubernetes.io/docs/concepts/configuration/manage-
resources-containers/
type: object
type: object
selector:
description: selector is a label

	<pre>query over volumes to consider for binding. properties: matchExpressions: description: matchExpressions is a list of label selector requirements. The requirements are ANDed. items: description:  - A label selector requirement is a selector that contains values, a key,</pre>
and an operator that	
·	relates the key and values.
	properties: key:
	description: key is the label key that the selector applies to.
	type: string operator:
	description:  - operator represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists and DoesNotExist. type: string
	values: description:  -
	values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or
DoesNotExist,	
	the values array must be empty. This array is replaced during a
strategic	and the second sec
	merge patch. items:
	type: string
	type: array
	required:
	- key
	- operator
	type: object
	type: array
	matchLabels:
	additionalProperties:
	type: string
	description:  -
	matchLabels is a map of {key,value} pairs. A single {key,value} in the
matchLabels	
	map is equivalent to an element of matchExpressions, whose key field
is "key", the	
	operator is "In", and the values array contains only "value". The
requirements are ANDed.	
-	type: object
	type: object
	x-kubernetes-map-type: atomic
	storageClassName: description:  -

	storageClassName is the name of the StorageClass required by the
claim.	
	More info: https://kubernetes.io/docs/concepts/storage/persistent-
volumes#class-1	
	type: string
	volumeMode:
	description:  -
	volumeMode defines what type of volume is required by the claim.
	Value of Filesystem is implied when not included in claim spec.
	type: string
	volumeName:
	description: volumeName is the binding
	reference to the PersistentVolume
	backing this claim.
	type: string
	type: object
	required:
	•
	- spec
	type: object
	type: object fc:
	description: fc represents a Fibre Channel resource
	that is attached to a kubelet's host machine
	and then exposed to the pod.
	properties:
	fsType:
	description:  -
	fsType is the filesystem type to mount.
	Must be a filesystem type supported by the host operating system.
	Ex. "ext4", "xfs", "ntfs". Implicitly inferred to be "ext4" if unspecified.
	TODO: how do we prevent errors in the filesystem from compromising the
machine	
	type: string
	lun:
	description: 'lun is Optional: FC target
	lun number'
	format: int32
	type: integer
	readOnly:
	description:  -
	readOnly is Optional: Defaults to false (read/write). ReadOnly here will force
	the ReadOnly setting in VolumeMounts.
	type: boolean
	targetWWNs:
	description: 'targetWWNs is Optional: FC
	target worldwide names (WWNs)'
	items:
	type: string
	type: array
	wwids:
	description:  -
	wwids Optional: FC volume world wide identifiers (wwids)
aimultanaayah	Either wwids or combination of targetWWNs and lun must be set, but not both
simultaneously.	itomo
	items:
	type: string

type: array type: object flexVolume: description: |flexVolume represents a generic volume resource that is provisioned/attached using an exec based plugin. properties: driver: description: driver is the name of the driver to use for this volume. type: string fsType: description: |fsType is the filesystem type to mount. Must be a filesystem type supported by the host operating system. Ex. "ext4", "xfs", "ntfs". The default filesystem depends on FlexVolume script. type: string options: additionalProperties: type: string description: 'options is Optional: this field holds extra command options if any.' type: object readOnly: description: |readOnly is Optional: defaults to false (read/write). ReadOnly here will force the ReadOnly setting in VolumeMounts. type: boolean secretRef: description: |secretRef is Optional: secretRef is reference to the secret object containing sensitive information to pass to the plugin scripts. This may be empty if no secret object is specified. If the secret object contains more than one secret, all secrets are passed to the plugin scripts. properties: name: description: |-Name of the referent. More info: https://kubernetes.io/docs/concepts/overview/working-withobjects/names/#names TODO: Add other useful fields. apiVersion, kind, uid? type: string type: object x-kubernetes-map-type: atomic required: - driver type: object flocker: description: flocker represents a Flocker volume attached to a kubelet's host machine. This depends on the Flocker control service being running properties: datasetName: description: |-

datasetName is Name of the dataset stored as metadata -> name on the
dataset for Flocker
should be considered as deprecated
type: string
datasetUUID:
description: datasetUUID is the UUID of
the dataset. This is unique identifier
of a Flocker dataset
type: string
type: object
gcePersistentDisk:
description:  -
gcePersistentDisk represents a GCE Disk resource that is attached to a
kubelet's host machine and then exposed to the pod.
More info:
https://kubernetes.io/docs/concepts/storage/volumes#gcepersistentdisk
properties:
fsType:
description:  -
fsType is filesystem type of the volume that you want to mount.
Tip: Ensure that the filesystem type is supported by the host operating
system.
Examples: "ext4", "xfs", "ntfs". Implicitly inferred to be "ext4" if unspecified.
More info:
https://kubernetes.io/docs/concepts/storage/volumes#gcepersistentdisk
TODO: how do we prevent errors in the filesystem from compromising the
machine
type: string
partition:
description:  -
partition is the partition in the volume that you want to mount.
If omitted, the default is to mount by volume name.
Examples: For volume /dev/sda1, you specify the partition as "1". Similarly, the volume partition for /dev/sda is "0" (or you can leave the
property empty). More info:
https://kubernetes.io/docs/concepts/storage/volumes#gcepersistentdisk
format: int32
type: integer
pdName:
description:  -
pdName is unique name of the PD resource in GCE. Used to identify the disl
in GCE.
More info:
https://kubernetes.io/docs/concepts/storage/volumes#gcepersistentdisk
type: string
readOnly:
description:  -
readOnly here will force the ReadOnly setting in VolumeMounts.
Defaults to false.
More info:
https://kubernetes.io/docs/concepts/storage/volumes#gcepersistentdisk
type: boolean
required:
- pdName
type: object

	gitRepo:
	description:  -
	gitRepo represents a git repository at a particular revision.
	DEPRECATED: GitRepo is deprecated. To provision a container with a git repo,
mount an	Event. Divists on Init@exteiner.that classes the same using sit they around the
EmptyDir	EmptyDir into an InitContainer that clones the repo using git, then mount the
EmptyDir	into the Pod's container.
	properties:
	directory:
	description:  -
	directory is the target directory name.
	Must not contain or start with ''. If '.' is supplied, the volume directory will be
the	
	git repository. Otherwise, if specified, the volume will contain the git
repository in	git lopoolioly. Otherwood, il opoolilou, the volume will contain the git
	the subdirectory with the given name.
	type: string
	repository:
	description: repository is the URL
	type: string
	revision:
	description: revision is the commit hash
	for the specified revision.
	type: string
	required:
	- repository
	type: object
	glusterfs:
	description:  -
	glusterfs represents a Glusterfs mount on the host that shares a pod's lifetime.
	More info: https://examples.k8s.io/volumes/glusterfs/README.md
	properties:
	endpoints:
	description:  -
	endpoints is the endpoint name that details Glusterfs topology.
	More info: https://examples.k8s.io/volumes/glusterfs/README.md#create-a-
pod	
	type: string
	path:
	description:  -
	path is the Glusterfs volume path.
	More info: https://examples.k8s.io/volumes/glusterfs/README.md#create-a-
pod	
	type: string
	readOnly:
	description:  -
normicolono	readOnly here will force the Glusterfs volume to be mounted with read-only
permissions.	Defaults to false.
	More info: https://examples.k8s.io/volumes/glusterfs/README.md#create-a-
nod	More milo. milps.//examples.kos.io/volumes/glustens/README.mu#create-a-
pod	type: boolean
	required:
	- endpoints
	- path
	paul

	type: object hostPath: description:  -
	hostPath represents a pre-existing file or directory on the host machine that is directly exposed to the container. This is generally
	used for system agents or other privileged things that are allowed
	to see the host machine. Most containers will NOT need this. More info: https://kubernetes.io/docs/concepts/storage/volumes#hostpath
can/can not	TODO(jonesdl) We need to restrict who can use host directory mounts and who
	mount host directories as read/write.
	properties:
	path:
	description:  -
	path of the directory on the host.
	If the path is a symlink, it will follow the link to the real path. More info: https://kubernetes.io/docs/concepts/storage/volumes#hostpath type: string
	type:
	description:  -
	type for HostPath Volume
	Defaults to ""
	More info: https://kubernetes.io/docs/concepts/storage/volumes#hostpath
	type: string
	required:
	- path
	type: object
	iscsi: description:  -
	iscsi represents an ISCSI Disk resource that is attached to a
	kubelet's host machine and then exposed to the pod.
	More info: https://examples.k8s.io/volumes/iscsi/README.md
	properties:
	chapAuthDiscovery:
	description: chapAuthDiscovery defines whether
	support iSCSI Discovery CHAP authentication
	type: boolean
	chapAuthSession:
	description: chapAuthSession defines whether
	support iSCSI Session CHAP authentication
	type: boolean
	fsType: description:  -
	fsType is the filesystem type of the volume that you want to mount.
	Tip: Ensure that the filesystem type is supported by the host operating
system.	
	Examples: "ext4", "xfs", "ntfs". Implicitly inferred to be "ext4" if unspecified.
	More info: https://kubernetes.io/docs/concepts/storage/volumes#iscsi
	TODO: how do we prevent errors in the filesystem from compromising the
machine	type: string
	type: string initiatorName:
	description:  -
	initiatorName is the custom iSCSI Initiator Name.

interface	If initiatorName is specified with iscsiInterface simultaneously, new iSCSI
Interface	<target portal="">:<volume name=""> will be created for the connection. type: string</volume></target>
	iqn: description: iqn is the target iSCSI Qualified
	Name.
	type: string
	iscsiInterface: description:  -
	iscsiInterface is the interface Name that uses an iSCSI transport. Defaults to 'default' (tcp).
	type: string lun:
	description: lun represents iSCSI Target Lun number.
	format: int32
	type: integer portals:
	description:  -
	portals is the iSCSI Target Portal List. The portal is either an IP or
ip_addr:port if the port	is other than default (typically TCP ports 860 and 3260).
	items:
	type: string
	type: array
	readOnly:
	description:  -
	readOnly here will force the ReadOnly setting in VolumeMounts.
	Defaults to false.
	type: boolean secretRef:
	description: secretRef is the CHAP Secret
	for iSCSI target and initiator authentication
	properties:
	name:
	description:  -
	Name of the referent.
	More info: https://kubernetes.io/docs/concepts/overview/working-with-
objects/names/#names	
	TODO: Add other useful fields. apiVersion, kind, uid? type: string
	type: object
	x-kubernetes-map-type: atomic
	targetPortal:
	description:  -
	targetPortal is iSCSI Target Portal. The Portal is either an IP or ip_addr:port if
the port	
	is other than default (typically TCP ports 860 and 3260).
	type: string
	required:
	- iqn - lun
	- targetPortal
	type: object
	name:

description:  - name of the volume. Must be a DNS_LABEL and unique within the pod. More info: https://wherpates.io/dess/consecuto/overview/working.with
More info: https://kubernetes.io/docs/concepts/overview/working-with- objects/names/#names
type: string
nfs: description:  -
nfs represents an NFS mount on the host that shares a pod's lifetime
More info: https://kubernetes.io/docs/concepts/storage/volumes#nfs
properties:
path:
description:  -
path that is exported by the NFS server.
More info: https://kubernetes.io/docs/concepts/storage/volumes#nfs
type: string
readOnly:
description:  -
readOnly here will force the NFS export to be mounted with read-only
permissions.
Defaults to false.
More info: https://kubernetes.io/docs/concepts/storage/volumes#nfs type: boolean
server:
description:  -
server is the hostname or IP address of the NFS server.
More info: https://kubernetes.io/docs/concepts/storage/volumes#nfs
type: string
required:
- path
- server
type: object
persistentVolumeClaim.
description:  -
persistentVolumeClaimVolumeSource represents a reference to a
PersistentVolumeClaim in the same namespace. More info: https://kubernetes.io/docs/concepts/storage/persistent-
volumes#persistentvolumeclaims
properties:
claimName:
description:  -
claimName is the name of a PersistentVolumeClaim in the same namespace
as the pod using this volume.
More info: https://kubernetes.io/docs/concepts/storage/persistent-
volumes#persistentvolumeclaims
type: string
readOnly:
description:  - readOnly Will force the ReadOnly setting in VolumeMounts.
Default false.
type: boolean
required:
- claimName
type: object
photonPersistentDisk:
description: photonPersistentDisk represents

	otonController persistent disk attached
	mounted on kubelets host machine
prope	
fsTyp	
	cription:  -
	Type is the filesystem type to mount.
	ust be a filesystem type supported by the host operating system. c. "ext4", "xfs", "ntfs". Implicitly inferred to be "ext4" if unspecified.
	e: string
pdID	-
•	cription: pdID is the ID that identifies
	noton Controller persistent disk
	e: string
require	
- pdID	
type: o	object
	xVolume:
	ption: portworxVolume represents a portworx
	ne attached and mounted on kubelets host
mach	
prope	
fsTyp	
	cription:  -
	Type represents the filesystem type to mount ust be a filesystem type supported by the host operating system.
	. "ext4", "xfs". Implicitly inferred to be "ext4" if unspecified.
	e: string
	Only:
	cription:  -
	adOnly defaults to false (read/write). ReadOnly here will force
	e ReadOnly setting in VolumeMounts.
	e: boolean
	nelD:
	cription: volumeID uniquely identifies
	Portworx volume
	e: string
require	
- volur	
type: o projecte	
	ption: projected items for all in one
	urces secrets, configmaps, and downward
API	
prope	rties:
	ultMode:
des	cription:  -
de	faultMode are the mode bits used to set permissions on created files by
default.	
	ust be an octal value between 0000 and 0777 or a decimal value between 0
and 511.	
	AML accepts both octal and decimal values, JSON requires decimal values
for mode bits.	
	rectories within the path are not affected by this setting.
	is might be in conflict with other options that affect the file ode, like fsGroup, and the result can be other mode bits set.
	nat: int32

	: integer
sourc	
	cription: sources is the list of volume
	ojections
item	scription: Projection that may be projected
	long with other supported volume types
	opperties:
	onfigMap:
	description: configMap information
	about the configMap data to project
	properties:
	items:
	description:  -
	items if unspecified, each key-value pair in the Data field of the
referenced	On the Man will be any instantial interflore shares and the second state of the
	ConfigMap will be projected into the volume as a file whose name is the
	key and content is the value. If specified, the listed keys will be
	projected into the specified paths, and unlisted keys will not be present. If a key is specified which is not present in the ConfigMap,
	the volume setup will error unless it is marked optional. Paths must be
	relative and may not contain the '' path or start with ''.
	items:
	description: Maps a string key
	to a path within a volume.
	properties:
	key:
	description: key is the
	key to project.
	type: string
	mode: description:  -
	mode is Optional: mode bits used to set permissions on this file.
	Must be an octal value between 0000 and 0777 or a decimal value
between 0 and 511.	
	YAML accepts both octal and decimal values, JSON requires
decimal values for mode bits.	
	If not specified, the volume defaultMode will be used.
	This might be in conflict with other options that affect the file
	mode, like fsGroup, and the result can be other mode bits set.
	format: int32
	type: integer
	path: description:  -
	path is the relative path of the file to map the key to.
	May not be an absolute path.
	May not contain the path element ''.
	May not start with the string ''.
	type: string
	required:
	- key
	- path
	type: object
	type: array name:
	description:  -

Name of the referent. More info: https://kubernetes.io/docs/concepts/overview/working-withobjects/names/#names TODO: Add other useful fields. apiVersion, kind, uid? type: string optional: description: optional specify whether the ConfigMap or its keys must be defined type: boolean type: object x-kubernetes-map-type: atomic downwardAPI: description: downwardAPI information about the downwardAPI data to project properties: items: description: Items is a list of DownwardAPIVolume file items: description: DownwardAPIVolumeFile represents information to create the file containing the pod field properties: fieldRef: description: 'Required: Selects a field of the pod: only annotations, labels, name and namespace are supported.' properties: apiVersion: description: Version of the schema the FieldPath is written in terms of, defaults to "v1". type: string fieldPath: description: Path of the field to select in the specified API version. type: string required: - fieldPath type: object x-kubernetes-map-type: atomic mode: description: |-Optional: mode bits used to set permissions on this file, must be an octal value between 0000 and 0777 or a decimal value between 0 and 511. YAML accepts both octal and decimal values, JSON requires

decimal values for mode bits.

If not spe	cified, the volume defaultMode will be used.
This migh	nt be in conflict with other options that affect the file
mode, lik	e fsGroup, and the result can be other mode bits set.
format: int	32
type: integ	er
path:	
•	n: 'Required:
	ne relative
•	e of the file
	ated. Must not
	ite or contain
the "" pa	
	encoded. The
	of the relative
patn mus	t not start with
type: string	
resourceFie	
description	
•	resource of the container: only resources limits and
requests	
	u, limits.memory, requests.cpu and requests.memory) are
currently supported.	
properties:	
container	
•	ion: 'Container
	required for
	es, optional
for env	
type: str	Ing
divisor:	
anyOf:	atagar
- type: ir	-
- type: s descript	ion: Specifies
	put format
	exposed resources,
	s to "1"
	^(\+ -)?(([0-9]+(\.[0-9]*)?))(\.[0-
9]+))(([KMGTPE]i) [numkMGTPE] ([eE](\+ -)?((	[0-9]+(\.[0-9]*)?) (\.[0-9]+))))?\$
	netes-int-or-string: true
resource:	-
descript	ion: 'Required:
resource	ce to select'
type: str	ing
required:	
- resource	
type: object	
	es-map-type: atomic
required:	
- path	
type: object	
type: array	
type: object secret:	
	et information about

	the secret data to project
properties: items:	
	description:  -
	items if unspecified, each key-value pair in the Data field of the
referenced	
	Secret will be projected into the volume as a file whose name is the key and content is the value. If specified, the listed keys will be projected into the specified paths, and unlisted keys will not be present. If a key is specified which is not present in the Secret, the volume setup will error unless it is marked optional. Paths must be relative and may not contain the '' path or start with ''. items:
	description: Maps a string key
	to a path within a volume. properties:
	key:
	description: key is the key to project.
	type: string
	mode:
	description:  -
	mode is Optional: mode bits used to set permissions on this file.
batwaan 0 and E11	Must be an octal value between 0000 and 0777 or a decimal value
between 0 and 511.	YAML accepts both octal and decimal values, JSON requires
decimal values for mode bits.	
	If not specified, the volume defaultMode will be used.
	This might be in conflict with other options that affect the file
	mode, like fsGroup, and the result can be other mode bits set.
	format: int32
	type: integer path:
	description:  -
	path is the relative path of the file to map the key to.
	May not be an absolute path.
	May not contain the path element ''.
	May not start with the string ''.
	type: string
	required: - key
	- path
	type: object
	type: array
	name:
	description:  - Name of the referent.
	More info: https://kubernetes.io/docs/concepts/overview/working-with-
objects/names/#names	
	TODO: Add other useful fields. apiVersion, kind, uid?
	type: string
	optional:
	description: optional field specify whether the Secret or its key
	must be defined
	type: boolean

	type: object
	x-kubernetes-map-type: atomic
	serviceAccountToken:
	description: serviceAccountToken is
	information about the serviceAccountToken
	data to project
	properties:
	audience:
	description:  -
	audience is the intended audience of the token. A recipient of a token must identify itself with an identifier specified in the audience of the token, and otherwise should reject the token. The audience defaults to
the	
	identifier of the apiserver.
	type: string
	expirationSeconds:
	description:  -
	expirationSeconds is the requested duration of validity of the service
	account token. As the token approaches expiration, the kubelet volume
	plugin will proactively rotate the service account token. The kubelet will
	start trying to rotate the token if the token is older than 80 percent of
	its time to live or if the token is older than 24 hours. Defaults to 1 hour
	and must be at least 10 minutes.
	format: int64
	type: integer
	path:
	description:  -
	path is the path relative to the mount point of the file to project the
	token into.
	type: string
	required:
	- path
	type: object
	type: object
	type: array
	type: object
	quobyte:
	description: quobyte represents a Quobyte mount
	on the host that shares a pod's lifetime
	properties:
	group:
	description:  -
	group to map volume access to
	Default is no group
	type: string
	readOnly:
	description:  -
	readOnly here will force the Quobyte volume to be mounted with read-only
permissions.	
	Defaults to false.
	type: boolean
	registry:
	description:  -
	registry represents a single or multiple Quobyte Registry services
	specified as a string as host:port pair (multiple entries are separated with
``	

commas)

	which acts as the central registry for volumes
	type: string tenant:
	description:  -
	tenant owning the given Quobyte volume in the Backend
plugin	Used with dynamically provisioned Quobyte volumes, value is set by the
F9	type: string
	user:
	description:  -
	user to map volume access to Defaults to serivceaccount user
	type: string
	volume:
	description: volume is a string that references
	an already created Quobyte volume by name.
	type: string
	required: - registry
	- registry - volume
	type: object
	rbd:
	description:  -
life time a	rbd represents a Rados Block Device mount on the host that shares a pod's
lifetime.	More info: https://examples.k8s.io/volumes/rbd/README.md
	properties:
	fsType:
	description:  -
	fsType is the filesystem type of the volume that you want to mount.
avetam	Tip: Ensure that the filesystem type is supported by the host operating
system.	Examples: "ext4", "xfs", "ntfs". Implicitly inferred to be "ext4" if unspecified.
	More info: https://kubernetes.io/docs/concepts/storage/volumes#rbd
	TODO: how do we prevent errors in the filesystem from compromising the
machine	
	type: string
	image:
	description:  - image is the rados image name.
	More info: https://examples.k8s.io/volumes/rbd/README.md#how-to-use-it
	type: string
	keyring:
	description:  -
	keyring is the path to key ring for RBDUser.
	Default is /etc/ceph/keyring. More info: https://examples.k8s.io/volumes/rbd/README.md#how-to-use-it
	type: string
	monitors:
	description:  -
	monitors is a collection of Ceph monitors.
	More info: https://examples.k8s.io/volumes/rbd/README.md#how-to-use-it
	items:
	type: string type: array
	pool:
	•

description: |pool is the rados pool name. Default is rbd. More info: https://examples.k8s.io/volumes/rbd/README.md#how-to-use-it type: string readOnly: description: |readOnly here will force the ReadOnly setting in VolumeMounts. Defaults to false. More info: https://examples.k8s.io/volumes/rbd/README.md#how-to-use-it type: boolean secretRef: description: |secretRef is name of the authentication secret for RBDUser. If provided overrides keyring. Default is nil. More info: https://examples.k8s.io/volumes/rbd/README.md#how-to-use-it properties: name: description: |-Name of the referent. More info: https://kubernetes.io/docs/concepts/overview/working-withobjects/names/#names TODO: Add other useful fields. apiVersion, kind, uid? type: string type: object x-kubernetes-map-type: atomic user: description: |user is the rados user name. Default is admin. More info: https://examples.k8s.io/volumes/rbd/README.md#how-to-use-it type: string required: - image - monitors type: object scaleIO: description: scaleIO represents a ScaleIO persistent volume attached and mounted on Kubernetes nodes. properties: fsType: description: |fsType is the filesystem type to mount. Must be a filesystem type supported by the host operating system. Ex. "ext4", "xfs", "ntfs". Default is "xfs". type: string gateway: description: gateway is the host address of the ScaleIO API Gateway. type: string protectionDomain: description: protectionDomain is the name of the ScaleIO Protection Domain for the

configured storage. type: string readOnly: description: |readOnly Defaults to false (read/write). ReadOnly here will force the ReadOnly setting in VolumeMounts. type: boolean secretRef: description: |secretRef references to the secret for ScaleIO user and other sensitive information. If this is not provided, Login operation will fail. properties: name: description: |-Name of the referent. More info: https://kubernetes.io/docs/concepts/overview/working-withobjects/names/#names TODO: Add other useful fields. apiVersion, kind, uid? type: string type: object x-kubernetes-map-type: atomic sslEnabled: description: sslEnabled Flag enable/disable SSL communication with Gateway, default false type: boolean storageMode: description: |storageMode indicates whether the storage for a volume should be ThickProvisioned or ThinProvisioned. Default is ThinProvisioned. type: string storagePool: description: storagePool is the ScaleIO Storage Pool associated with the protection domain. type: string system: description: system is the name of the storage system as configured in ScaleIO. type: string volumeName: description: |volumeName is the name of a volume already created in the ScaleIO system that is associated with this volume source. type: string required: - gateway - secretRef - system type: object secret: description: |secret represents a secret that should populate this volume. More info: https://kubernetes.io/docs/concepts/storage/volumes#secret properties:

	defaultMode:
	description:  -
	defaultMode is Optional: mode bits used to set permissions on created files by
default.	
	Must be an octal value between 0000 and 0777 or a decimal value between 0
and 511.	
	YAML accepts both octal and decimal values, JSON requires decimal values
	for mode bits. Defaults to 0644.
	Directories within the path are not affected by this setting.
	This might be in conflict with other options that affect the file
	mode, like fsGroup, and the result can be other mode bits set.
	format: int32
	type: integer
	items:
	description:  -
	items If unspecified, each key-value pair in the Data field of the referenced
	Secret will be projected into the volume as a file whose name is the
	key and content is the value. If specified, the listed keys will be
	projected into the specified paths, and unlisted keys will not be
	present. If a key is specified which is not present in the Secret,
	the volume setup will error unless it is marked optional. Paths must be
	relative and may not contain the '' path or start with ''.
	items:
	description: Maps a string key to a path
	within a volume.
	properties:
	key:
	description: key is the key to project.
	type: string
	mode:
	description:  -
	mode is Optional: mode bits used to set permissions on this file.
	Must be an octal value between 0000 and 0777 or a decimal value
between 0 and 511.	
	YAML accepts both octal and decimal values, JSON requires decimal
values for mode bits.	
	If not specified, the volume defaultMode will be used.
	This might be in conflict with other options that affect the file
	mode, like fsGroup, and the result can be other mode bits set.
	format: int32
	type: integer
	path:
	description:  -
	path is the relative path of the file to map the key to.
	May not be an absolute path.
	May not contain the path element ''.
	May not start with the string ''.
	type: string
	required:
	- key
	- path
	type: object
	type: array
	optional:
	description: optional field specify whether
	the Secret or its keys must be defined

type: boolean
secretName:
description:  -
secretName is the name of the secret in the pod's namespace to use.
More info: https://kubernetes.io/docs/concepts/storage/volumes#secret
type: string
type: object
storageos:
description: storageOS represents a StorageOS
volume attached and mounted on Kubernetes
nodes.
properties:
fsType:
description:  -
fsType is the filesystem type to mount.
Must be a filesystem type supported by the host operating system.
Ex. "ext4", "xfs", "ntfs". Implicitly inferred to be "ext4" if unspecified.
type: string
readOnly:
description:  -
readOnly defaults to false (read/write). ReadOnly here will force
the ReadOnly setting in VolumeMounts.
type: boolean
secretRef:
description:  -
secretRef specifies the secret to use for obtaining the StorageOS API
credentials. If not specified, default values will be attempted.
properties:
name:
description:  -
Name of the referent.
More info: https://kubernetes.io/docs/concepts/overview/working-with-
objects/names/#names
TODO: Add other useful fields. apiVersion, kind, uid?
type: string
type: object
x-kubernetes-map-type: atomic
volumeName:
description:  -
volumeName is the human-readable name of the StorageOS volume.
Volume
names are only unique within a namespace.
type: string
volumeNamespace:
description:  -
volumeNamespace specifies the scope of the volume within StorageOS. If no
namespace is specified then the Pod's namespace will be used. This allows
the
Kubernetes name scoping to be mirrored within StorageOS for tighter
integration.
Set VolumeName to any name to override the default behaviour.
Set to "default" if you are not using namespaces within StorageOS.
Namespaces that do not pre-exist within StorageOS will be created.
type: string
type: object
vsphereVolume:

```
description: vsphereVolume represents a vSphere
                  volume attached and mounted on kubelets host
                  machine
                 properties:
                  fsType:
                   description: |-
                     fsType is filesystem type to mount.
                     Must be a filesystem type supported by the host operating system.
                     Ex. "ext4", "xfs", "ntfs". Implicitly inferred to be "ext4" if unspecified.
                   type: string
                   storagePolicyID:
                   description: storagePolicyID is the storage
                     Policy Based Management (SPBM) profile
                     ID associated with the StoragePolicyName.
                   type: string
                   storagePolicyName:
                   description: storagePolicyName is the storage
                     Policy Based Management (SPBM) profile
                     name.
                   type: string
                  volumePath:
                   description: volumePath is the path that
                     identifies vSphere volume vmdk
                   type: string
                 required:
                 - volumePath
                 type: object
               required:
              - name
              type: object
             type: array
           required:
           - containers
           type: object
        type: object
       ttlSecondsAfterFinished:
        format: int32
        type: integer
     required:
     - template
     type: object
   type: object
  schedule:
   minLength: 0
   type: string
  successfulJobsHistoryLimit:
   format: int32
   minimum: 0
   type: integer
 required:
 - jobTemplate
 - schedule
 type: object
status:
 properties:
  active:
```

type: string datacenter: type: string type: object type: object served: true storage: true subresources: status: {} 05-namespace.yaml apiVersion: v1 kind: Namespace metadata: name: kubecronic #название пространства имен в kubernetes для установки оператора 10-configmap.yaml apiVersion: v1 kind: ConfigMap metadata:

annotations:

project/owner: kubecronic

name: kubecronic

namespace: kubecronic #название пространства имен в kubernetes для установки оператора data:

ENV: production/dc1 #окружение для установки kubecronic. По умолчанию - production + имя кластера

KUBECRONIC\_DATACENTER: dc1 #название кластера. Должно быть уникальным LOG\_LEVEL: info REDIS\_ADDR: 10.10.10.6379 #адрес и порт экземпляра redis SENTRY\_DSN: https://qwerty@sentry.some.domain/1 SIGNAL\_CONSUL\_ADDRESSES: consul:8500 SIGNAL\_CONSUL\_KEY: service/maintenance immutable: false

10-secret.yaml

apiVersion: v1 kind: Secret metadata: name: kubecronic-secret namespace: kubecronic #название пространства имен в kubernetes для установки оператора type: Opaque stringData: REDIS\_PASSWORD: "password" #пароль для доступа к экземпляру redis SIGNAL\_CONSUL\_TOKEN: "token"

20-rbac.yaml apiVersion: rbac.authorization.k8s.io/v1 kind: ClusterRole metadata: name: vseinstrumenti:kubecronic-controller rules: - apiGroups:

- kubecronic.vseinstrumenti.ru resources: - cronjobs - cronjobs/status verbs: - get - list - watch - create - delete - deletecollection - patch - update - apiGroups: - batch resources: - jobs verbs: - get - list - watch - create - delete - deletecollection - patch - update - apiGroups: <u>'</u> "" resources: - pods verbs: - get - list - watch --apiVersion: rbac.authorization.k8s.io/v1 kind: ClusterRoleBinding metadata: name: vseinstrumenti:kubecronic-controller roleRef: apiGroup: rbac.authorization.k8s.io kind: ClusterRole name: vseinstrumenti:kubecronic-controller subjects: - kind: ServiceAccount name: default namespace: kubecronic #название пространства имен в kubernetes для установки оператора

## 50-deployment.yaml

apiVersion: apps/v1 kind: Deployment metadata: annotations: project/owner: kubecronic

name: kubecronic namespace: kubecronic #название пространства имен в kubernetes для установки оператора spec: progressDeadlineSeconds: 600 replicas: 1 revisionHistoryLimit: 2 selector: matchLabels: app: kubecronic strategy: rollingUpdate: maxSurge: 25% maxUnavailable: 50% type: RollingUpdate template: metadata: labels: app: kubecronic spec: automountServiceAccountToken: true containers: - command: - /usr/bin/kubecronic envFrom: - secretRef: name: kubecronic-secret optional: false - configMapRef: name: kubecronic optional: false image: kubecronic:latest #путь до docker-registry с образом kubecronic imagePullPolicy: IfNotPresent name: app ports: - containerPort: 9000 name: http protocol: TCP resources: limits: cpu: 400m memory: 512Mi requests: cpu: 10m memory: 512Mi restartPolicy: Always shareProcessNamespace: false terminationGracePeriodSeconds: 30

Прменить полученные манифесты во всех кластерах kubernetes командой kubectl apply -f '\*.yaml'