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Events

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Overview

Events in OpenShift Container Platform are modeled based on events that happen to API objects in an OpenShift Container Platform cluster. Events allow OpenShift Container Platform to record information about real-world events in a resource-agnostic manner. They also allow developers and administrators to consume information about system components in a unified way.

Viewing Events with the CLI

You can get a list of events in a given project using the following command:

```
$ oc get events [-n <project>]
```



Viewing Events in the Console

You can see events in your project from the web console from the **Browse** → **Events** page. Many other objects, such as pods and deployments, have their own **Events** tab as well, which shows events related to that object.

Comprehensive List of Events

This section describes the events of OpenShift Container Platform.

Table 1. Configuration Events

Name	Description
FailedValidation	Failed pod configuration validation.

Table 2. Container Events

Name	Description
BackOff	Back-off restarting failed the container.

Name	Description
Created	Container created.
Failed	Pull/Create/Start failed.
Killing	Killing the container.
Started	Container started.
Preempting	Preempting other pods.
ExceededGracePeriod	Container runtime did not stop the pod within specified grace period.

Table 3. Health Events

Name	Description
Unhealthy	Container is unhealthy.

Table 4. Image Events

Name	Description
BackOff	Back off Ctr Start, image pull.
ErrImageNeverPull	The image's NeverPull Policy is violated.
Failed	Failed to pull the image.
InspectFailed	Failed to inspect the image.
Pulled	Successfully pulled the image or the container image is already present on the machine.
Pulling	Pulling the image.

Table 5. Image Manager Events

Name	Description
FreeDiskSpaceFailed	Free disk space failed.
InvalidDiskCapacity	Invalid disk capacity.

Table 6. Node Events

Name	Description
FailedMount	Volume mount failed.
HostNetworkNotSupported	Host network not supported.
HostPortConflict	Host/port conflict.

Name	Description
InsufficientFreeCPU	Insufficient free CPU.
InsufficientFreeMemory	Insufficient free memory.
KubeletSetupFailed	Kubelet setup failed.
NilShaper	Undefined shaper.
NodeNotReady	Node is not ready.
NodeNotSchedulable	Node is not schedulable.
NodeReady	Node is ready.
NodeSchedulable	Node is schedulable.
NodeSelectorMismatching	Node selector mismatch.
OutOfDisk	Out of disk.
Rebooted	Node rebooted.
Starting	Starting kubelet.
FailedAttachVolume	Failed to attach volume.
FailedDetachVolume	Failed to detach volume.
VolumeResizeFailed	Failed to expand/reduce volume.
VolumeResizeSuccessful	Successfully expanded/reduced volume.
FileSystemResizeFailed	Failed to expand/reduce file system.
FileSystemResizeSuccessful	Successfully expanded/reduced file system.
FailedUnmount	Failed to unmount volume.
FailedMapVolume	Failed to map a volume.
FailedUnmapDevice	Failed unmaped device.
AlreadyMountedVolume	Volume is already mounted.
SuccessfulDetachVolume	Volume is successfully detached.
SuccessfulMountVolume	Volume is successfully mounted.
SuccessfulUnmountVolume	Volume is successfully unmounted.
ContainerGCFailed	Container garbage collection failed.
ImageGCFailed	Image garbage collection failed.
FailedNodeAllocatableEnforcement	Failed to enforce System Reserved Cgroup limit.
NodeAllocatableEnforced	Enforced System Reserved Cgroup limit.

Name	Description
UnsupportedMountOption	Unsupported mount option.
SandboxChanged	Pod sandbox changed.
FailedCreatePodSandBox	Failed to create pod sandbox.
FailedPodSandBoxStatus	Failed pod sandbox status.

Table 7. Pod Worker Events

Name	Description
FailedSync	Pod sync failed.

Table 8. System Events

Name	Description
SystemOOM	There is an OOM (out of memory) situation on the cluster.

Table 9. Pod Events

Name	Description
FailedKillPod	Failed to stop a pod.
FailedCreatePodContainer	Failed to create a pod container.
Failed	Failed to make pod data directories.
NetworkNotReady	Network is not ready.
FailedCreate	Error creating: <error-msg> .
SuccessfulCreate	Created pod: <pod-name> .
FailedDelete	Error deleting: <error-msg> .
SuccessfulDelete	Deleted pod: <pod-id> .

Table 10. Horizontal Pod AutoScaler Events

Name	Description
SelectorRequired	Selector is required.
InvalidSelector	Could not convert selector into a corresponding internal selector object.
FailedGetObjectMetric	HPA was unable to compute the replica count.
InvalidMetricSourceType	Unknown metric source type.

Name	Description
ValidMetricFound	HPA was able to successfully calculate a replica count.
FailedConvertHPA	Failed to convert the given HPA.
FailedGetScale	HPA controller was unable to get the target's current scale.
SucceededGetScale	HPA controller was able to get the target's current scale.
FailedComputeMetricsReplicas	Failed to compute desired number of replicas based on listed metrics.
FailedRescale	New size: <size> ; reason: <msg> ; error: <error-msg> .
SuccessfulRescale	New size: <size> ; reason: <msg> .
FailedUpdateStatus	Failed to update status.

Table 11. Network Events (openshift-sdn)

Name	Description
Starting	Starting OpenShift-SDN.
NetworkFailed	The pod's network interface has been lost and the pod will be stopped.

Table 12. Network Events (kube-proxy)

Name	Description
NeedPods	The service-port <serviceName>: <port> needs pods.

Table 13. Volume Events

Name	Description
FailedBinding	There are no persistent volumes available and no storage class is set.
VolumeMismatch	Volume size or class is different from what is requested in claim.
VolumeFailedRecycle	Error creating recycler pod.
VolumeRecycled	Occurs when volume is recycled.
RecyclerPod	Occurs when pod is recycled.
VolumeDelete	Occurs when volume is deleted.
VolumeFailedDelete	Error when deleting the volume.
ExternalProvisioning	Occurs when volume for the claim is provisioned either manually or via external software.
ProvisioningFailed	Failed to provision volume.
ProvisioningCleanupFailed	Error cleaning provisioned volume.

Name	Description
ProvisioningSucceeded	Occurs when the volume is provisioned successfully.
WaitForFirstConsumer	Delay binding until pod scheduling.

Table 14. Lifecycle hooks

Name	Description
FailedPostStartHook	Handler failed for pod start.
FailedPreStopHook	Handler failed for pre-stop.
UnfinishedPreStopHook	Pre-stop hook unfinished.

Table 15. Deployments

Name	Description
DeploymentCancellationFailed	Failed to cancel deployment.
DeploymentCancelled	Cancelled deployment.
DeploymentCreated	Created new replication controller.
IngressIPRangeFull	No available ingress IP to allocate to service.

Table 16. Scheduler Events

Name	Description
FailedScheduling	Failed to schedule pod: <pod-namespace>/<pod-name> . This event is raised for multiple reasons, for example: AssumePodVolumes failed, Binding rejected etc.
Preempted	By <preemptor-namespace>/<preemptor-name> on node <node-name> .
Scheduled	Successfully assigned <pod-name> to <node-name> .

Table 17. DaemonSet Events

Name	Description
SelectingAll	This daemon set is selecting all pods. A non-empty selector is required.
FailedPlacement	Failed to place pod on <node-name> .
FailedDaemonPod	Found failed daemon pod <pod-name> on node <node-name> , will try to kill it.

Table 18. LoadBalancer Service Events

Name	Description
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Name	Description
CreatingLoadBalancerFailed	Error creating load balancer.
DeletingLoadBalancer	Deleting load balancer.
EnsuringLoadBalancer	Ensuring load balancer.
EnsuredLoadBalancer	Ensured load balancer.
UnAvailableLoadBalancer	There are no available nodes for LoadBalancer service.
LoadBalancerSourceRanges	Lists the new LoadBalancerSourceRanges . For example, <old-source-range> → <new-source-range> .
LoadbalancerIP	Lists the new IP address. For example, <old-ip> → <new-ip> .
ExternalIP	Lists external IP address. For example, Added: <external-ip> .
UID	Lists the new UID. For example, <old-service-uid> → <new-service-uid> .
ExternalTrafficPolicy	Lists the new ExternalTrafficPolicy . For example, <old-policy> → <new-ploicy> .
HealthCheckNodePort	Lists the new HealthCheckNodePort . For example, <old-node-port> → new-node-port .
UpdatedLoadBalancer	Updated load balancer with new hosts.
LoadBalancerUpdateFailed	Error updating load balancer with new hosts.
DeletingLoadBalancer	Deleting load balancer.
DeletingLoadBalancerFailed	Error deleting load balancer.
DeletedLoadBalancer	Deleted load balancer.



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