

# **CDP PVC Data Service alerts for version 1.5.0 of PVC-DS**

**Date published:**

**Date modified:**

**CLOUDERA**

# Legal Notice

© Cloudera Inc. 2023. All rights reserved.

The documentation is and contains Cloudera proprietary information protected by copyright and other intellectual property rights. No license under copyright or any other intellectual property right is granted herein.

Unless otherwise noted, scripts and sample code are licensed under the Apache License, Version 2.0.

Copyright information for Cloudera software may be found within the documentation accompanying each component in a particular release.

Cloudera software includes software from various open source or other third party projects, and may be released under the Apache Software License 2.0 (“ASLv2”), the Affero General Public License version 3 (AGPLv3), or other license terms. Other software included may be released under the terms of alternative open source licenses. Please review the license and notice files accompanying the software for additional licensing information.

Please visit the Cloudera software product page for more information on Cloudera software. For more information on Cloudera support services, please visit either the Support or Sales page. Feel free to contact us directly to discuss your specific needs.

Cloudera reserves the right to change any products at any time, and without notice. Cloudera assumes no responsibility nor liability arising from the use of products, except as expressly agreed to in writing by Cloudera.

Cloudera, Cloudera Altus, HUE, Impala, Cloudera Impala, and other Cloudera marks are registered or unregistered trademarks in the United States and other countries. All other trademarks are the property of their respective owners.

Disclaimer: EXCEPT AS EXPRESSLY PROVIDED IN A WRITTEN AGREEMENT WITH CLOUDERA, CLOUDERA DOES NOT MAKE NOR GIVE ANY REPRESENTATION, WARRANTY, NOR COVENANT OF ANY KIND, WHETHER EXPRESS OR IMPLIED, IN CONNECTION WITH CLOUDERA TECHNOLOGY OR RELATED SUPPORT PROVIDED IN CONNECTION THEREWITH. CLOUDERA DOES NOT WARRANT THAT CLOUDERA PRODUCTS NOR SOFTWARE WILL OPERATE UNINTERRUPTED NOR THAT IT WILL BE FREE FROM DEFECTS NOR ERRORS, THAT IT WILL PROTECT YOUR DATA FROM LOSS, CORRUPTION NOR UNAVAILABILITY, NOR THAT IT WILL MEET ALL OF CUSTOMER'S BUSINESS REQUIREMENTS. WITHOUT LIMITING THE FOREGOING, AND TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, CLOUDERA EXPRESSLY DISCLAIMS ANY AND ALL IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO IMPLIED WARRANTIES OF MERCHANTABILITY, QUALITY, NON-INFRINGEMENT, TITLE, AND FITNESS FOR A PARTICULAR PURPOSE AND ANY REPRESENTATION, WARRANTY, OR COVENANT BASED ON COURSE OF DEALING OR USAGE IN TRADE.

# Contents

<b>KubePodCrashLooping.....</b>	<b>11</b>
<b>KubePodNotReady.....</b>	<b>11</b>
<b>KubeDeploymentGenerationMismatch.....</b>	<b>11</b>
<b>KubeDeploymentReplicasMismatch.....</b>	<b>12</b>
<b>KubeStatefulSetReplicasMismatch.....</b>	<b>12</b>
<b>KubeStatefulSetGenerationMismatch.....</b>	<b>13</b>
<b>KubeStatefulSetUpdateNotRolledOut.....</b>	<b>13</b>
<b>KubeDaemonSetRolloutStuck.....</b>	<b>13</b>
<b>KubeContainerWaiting.....</b>	<b>14</b>
<b>KubeDaemonSetNotScheduled.....</b>	<b>14</b>
<b>KubeDaemonSetMisScheduled.....</b>	<b>15</b>
<b>KubeCronJobRunning.....</b>	<b>15</b>
<b>KubeJobCompletion.....</b>	<b>15</b>
<b>KubeJobFailed.....</b>	<b>16</b>
<b>KubeHpaReplicasMismatch.....</b>	<b>16</b>
<b>KubeHpaMaxedOut.....</b>	<b>16</b>

<b>KubeQuotaExceeded.....</b>	<b>17</b>
<b>MonitoringPlatformTopologyConfigurationDurationHigh.....</b>	<b>17</b>
<b>MonitoringPlatformUpgradeFailed.....</b>	<b>18</b>
<b>MonitoringPlatformProvisionFailed.....</b>	<b>18</b>
<b>MonitoringDbAccessUnavailable.....</b>	<b>18</b>
<b>AlertAdministrationConfigurationFailed.....</b>	<b>19</b>
<b>AlertManagerConfigurationDurationHigh.....</b>	<b>19</b>
<b>AlertAdministrationTopologyStreamReceiveFailedRatioHigh.....</b>	<b>19</b>
<b>AlertAdministrationBuiltInRuleLoadingFailed.....</b>	<b>20</b>
<b>AlertAdministrationCmImportFailed.....</b>	<b>20</b>
<b>AlertRuleConfigurationDurationHigh.....</b>	<b>20</b>
<b>PrometheusConfigmapReloadFailed.....</b>	<b>21</b>
<b>EnvironmentPrometheusConnectionCheckFailed.....</b>	<b>21</b>
<b>PrometheusNotConnectedToAlertmanager.....</b>	<b>21</b>
<b>PrometheusAlertmanagerNotificationFailing.....</b>	<b>22</b>
<b>PrometheusAlertmanagerConfigurationReloadFailure.....</b>	<b>22</b>
<b>ControlPlanePrometheusBadConfig.....</b>	<b>22</b>
<b>ControlPlanePrometheusNotificationQueueRunningFull.....</b>	<b>23</b>

<b>ControlPlanePrometheusErrorSendingAlertsToSomeAlertmanagers.....</b>	<b>23</b>
<b>ControlPlanePrometheusErrorSendingAlertsToAnyAlertmanager.....</b>	<b>23</b>
<b>ControlPlanePrometheusTSDBReloadsFailing.....</b>	<b>24</b>
<b>ControlPlanePrometheusTSDBCompactionsFailing.....</b>	<b>24</b>
<b>ControlPlanePrometheusNotIngestingSamples.....</b>	<b>25</b>
<b>ControlPlanePrometheusDuplicateTimestamps.....</b>	<b>25</b>
<b>ControlPlanePrometheusOutOfOrderTimestamps.....</b>	<b>25</b>
<b>ControlPlanePrometheusRemoteStorageFailures.....</b>	<b>26</b>
<b>ControlPlanePrometheusRemoteWriteBehind.....</b>	<b>26</b>
<b>ControlPlanePrometheusRemoteWriteDesiredShards.....</b>	<b>26</b>
<b>ControlPlanePrometheusPrometheusRuleFailures.....</b>	<b>27</b>
<b>ControlPlanePrometheusMissingRuleEvaluations.....</b>	<b>27</b>
<b>ControlPlanePrometheusTargetLimitHit.....</b>	<b>28</b>
<b>ControlPlanePrometheusLabelLimitHit.....</b>	<b>28</b>
<b>ControlPlanePrometheusScrapeBodySizeLimitHit.....</b>	<b>28</b>
<b>ControlPlanePrometheusScrapeSampleLimitHit.....</b>	<b>29</b>
<b>ControlPlanePrometheusTargetSyncFailure.....</b>	<b>29</b>
<b>PrometheusRemoteWriteConfigurationDurationHigh.....</b>	<b>29</b>

<b>RemoteWriteConfigurationFailed.....</b>	<b>30</b>
<b>TargetDown.....</b>	<b>30</b>
<b>DataLakeClusterHealthIsBad.....</b>	<b>30</b>
<b>DataLakeClusterHealthIsConcerning.....</b>	<b>31</b>
<b>DataLakeClusterIsStopped.....</b>	<b>31</b>
<b>DataLakeDidNotStart.....</b>	<b>31</b>
<b>DataLakeHealthUnknownOrDisabled.....</b>	<b>32</b>
<b>HiveJvmPauseTimeCritical.....</b>	<b>32</b>
<b>HiveJvmPauseTimeWarning.....</b>	<b>32</b>
<b>HiveJvmThreadsDeadlocked.....</b>	<b>33</b>
<b>HiveJvmHeapPercentCritical.....</b>	<b>33</b>
<b>HiveJvmHeapPercentWarning.....</b>	<b>33</b>
<b>LargeNumberOfCompactionFailuresWarning.....</b>	<b>34</b>
<b>OldestInitiatedCompactionPassedThresholdWarning.....</b>	<b>34</b>
<b>OldestInitiatedCompactionPassedThresholdError.....</b>	<b>35</b>
<b>OldestReadyForCleaningCompactionPassedThresholdWarning.....</b>	<b>35</b>
<b>OldAbortedTransactionNotClearedWarning.....</b>	<b>35</b>
<b>OldAbortedTransactionNotClearedCritical.....</b>	<b>36</b>

<b>PartitionsWithManyAbortsCritical.....</b>	<b>36</b>
<b>OldestOpenNonReplTransactionPassedThresholdWarning.....</b>	<b>36</b>
<b>OldestOpenNonReplTransactionPassedThresholdCritical.....</b>	<b>37</b>
<b>LargeNumberOfActiveDeltasWarning.....</b>	<b>37</b>
<b>LargeNumberOfSmallDeltasWarning.....</b>	<b>37</b>
<b>LargeNumberOfObsoleteDeltasWarning.....</b>	<b>38</b>
<b>ExcessiveAcidMetadataCompletedTxnComponentsWarning.....</b>	<b>38</b>
<b>ExcessiveAcidMetadataCompletedTxnComponentsCritical.....</b>	<b>38</b>
<b>ExcessiveAcidMetadataTxnToWriteIdWarning.....</b>	<b>39</b>
<b>ExcessiveAcidMetadataTxnToWriteIdCritical.....</b>	<b>39</b>
<b>ActivityOnTableWithDisabledAutoCompactionWarning.....</b>	<b>40</b>
<b>ExcessiveInitiatorFailuresInTheLast24hError.....</b>	<b>40</b>
<b>ExcessiveCleanerFailuresInTheLast24hWarning.....</b>	<b>40</b>
<b>ExcessiveCleanerFailuresInTheLast24hCritical.....</b>	<b>41</b>
<b>LongRunningInitiatorCycleWarning.....</b>	<b>41</b>
<b>LongRunningInitiatorCycleCritical.....</b>	<b>41</b>
<b>ImpalaJvmPauseTimeCritical.....</b>	<b>42</b>
<b>ImpalaJvmGcTimeCritical.....</b>	<b>42</b>

<b>ImpalaJvmPauseTimeWarning.....</b>	<b>42</b>
<b>ImpalaJvmGcTimeWarning.....</b>	<b>43</b>
<b>ImpalaCatalogTimedOutCnxnRequest.....</b>	<b>43</b>
<b>ImpalaStatestoreTimedOutCnxnRequest.....</b>	<b>43</b>
<b>ImpalaBackendTimedOutCnxnRequest.....</b>	<b>44</b>
<b>ImpalaHs2FrontendTimedOutCnxnRequest.....</b>	<b>44</b>
<b>ImpalaHs2HttpFrontendTimedOutCnxnRequest.....</b>	<b>45</b>
<b>PrometheusNotConnectedToAlertmanager.....</b>	<b>45</b>
<b>PrometheusAlertmanagerNotificationFailing.....</b>	<b>45</b>
<b>PrometheusAlertmanagerConfigurationReloadFailure.....</b>	<b>46</b>
<b>PrometheusConfigmapReloadFailed.....</b>	<b>46</b>
<b>EnvPrometheusBadConfig.....</b>	<b>46</b>
<b>EnvPrometheusNotificationQueueRunningFull.....</b>	<b>47</b>
<b>EnvPrometheusErrorSendingAlertsToSomeAlertmanagers.....</b>	<b>47</b>
<b>EnvPrometheusErrorSendingAlertsToAnyAlertmanager.....</b>	<b>47</b>
<b>EnvPrometheusTSDBReloadsFailing.....</b>	<b>48</b>
<b>EnvPrometheusTSDBCompactionsFailing.....</b>	<b>48</b>
<b>EnvPrometheusNotIngestingSamples.....</b>	<b>48</b>

<b>EnvPrometheusDuplicateTimestamps.....</b>	<b>49</b>
<b>EnvPrometheusOutOfOrderTimestamps.....</b>	<b>49</b>
<b>EnvPrometheusRemoteStorageFailures.....</b>	<b>50</b>
<b>EnvPrometheusRemoteWriteBehind.....</b>	<b>50</b>
<b>EnvPrometheusRemoteWriteDesiredShards.....</b>	<b>50</b>
<b>EnvPrometheusPrometheusRuleFailures.....</b>	<b>51</b>
<b>EnvPrometheusMissingRuleEvaluations.....</b>	<b>51</b>
<b>EnvPrometheusTargetLimitHit.....</b>	<b>51</b>
<b>EnvPrometheusLabelLimitHit.....</b>	<b>52</b>
<b>EnvPrometheusScrapeBodySizeLimitHit.....</b>	<b>52</b>
<b>EnvPrometheusScrapeSampleLimitHit.....</b>	<b>52</b>
<b>EnvPrometheusTargetSyncFailure.....</b>	<b>53</b>
<b>KubePodCrashLooping.....</b>	<b>53</b>
<b>KubePodNotReady.....</b>	<b>53</b>
<b>KubeDeploymentGenerationMismatch.....</b>	<b>54</b>
<b>KubeDeploymentReplicasMismatch.....</b>	<b>54</b>
<b>KubeStatefulSetReplicasMismatch.....</b>	<b>55</b>
<b>KubeStatefulSetGenerationMismatch.....</b>	<b>55</b>

<b>KubeStatefulSetUpdateNotRolledOut.....</b>	<b>55</b>
<b>KubeDaemonSetRolloutStuck.....</b>	<b>56</b>
<b>KubeContainerWaiting.....</b>	<b>56</b>
<b>KubeDaemonSetNotScheduled.....</b>	<b>57</b>
<b>KubeDaemonSetMisScheduled.....</b>	<b>57</b>
<b>KubeCronJobRunning.....</b>	<b>57</b>
<b>KubeJobCompletion.....</b>	<b>58</b>
<b>KubeJobFailed.....</b>	<b>58</b>
<b>KubeHpaReplicasMismatch.....</b>	<b>58</b>
<b>KubeHpaMaxedOut.....</b>	<b>59</b>
<b>KubeQuotaExceeded.....</b>	<b>59</b>

## KubePodCrashLooping

Reference information for KubePodCrashLooping used as part of Pulse in CDP PVC Data Services.

### Summary

Pod is crash looping.

### PromQL Expression

```
rate(kube_pod_container_status_restarts_total{component="kube-state-metrics",appType="{{ $app.code }}}}[15m]) > 0
```

### Time Period

15m

### Severity

critical

### Source

environments/{{ \$app.code }}

## KubePodNotReady

Reference information for KubePodNotReady used as part of Pulse in CDP PVC Data Services.

### Summary

Pod has been in a non-ready state for more than 15 minutes.

### PromQL Expression

```
sum by (namespace, pod, appType, appId, appName, workloadId) (max by(namespace, pod, owner_kind, appType, appId, appName, workloadId) (kube_pod_status_phase{component="kube-state-metrics", phase=~"Pending|Unknown",appType="{{ $app.code }}}}) * on(namespace, pod) group_left(owner_kind) max by(namespace, pod, owner_kind, appType, appId, appName, workloadId) (kube_pod_owner{owner_kind!="Job",appType="{{ $app.code }}})) > 0
```

### Time Period

15m

### Severity

critical

### Source

environments/{{ \$app.code }}

## KubeDeploymentGenerationMismatch

Reference information for KubeDeploymentGenerationMismatch used as part of Pulse in CDP PVC Data Services.

### Summary

Deployment generation mismatch due to possible roll-back

### PromQL Expression

```
kube_deployment_status_observed_generation{component="kube-state-metrics",appType="{{ $app.code }}} != kube_deployment_metadata_generation{component="kube-state-metrics",appType="{{ $app.code }}}}
```

**Time Period**

15m

**Severity**

critical

**Source**

environments/{{ \$app.code }}

## KubeDeploymentReplicasMismatch

Reference information for KubeDeploymentReplicasMismatch used as part of Pulse in CDP PVC Data Services.

**Summary**

Deployment has not matched the expected number of replicas.

**PromQL Expression**

```
( kube_deployment_spec_replicas{component="kube-state-metrics",appType="{{ $app.code }}"}
= kube_deployment_status_replicas_available{component="kube-state-metrics",appType="{{ $app.code }}"
} ) and
( changes(kube_deployment_status_replicas_updated{component="kube-state-metrics",appType="{{ $app.code }}"
})[5m] == 0 )
```

**Time Period**

15m

**Severity**

critical

**Source**

environments/{{ \$app.code }}

## KubeStatefulSetReplicasMismatch

Reference information for KubeStatefulSetReplicasMismatch used as part of Pulse in CDP PVC Data Services.

**Summary**

Deployment has not matched the expected number of replicas.

**PromQL Expression**

```
( kube_statefulset_status_replicas_ready{component="kube-state-metrics",appType="{{ $app.code }}"
} != kube_statefulset_status_replicas{component="kube-state-metrics",appType="{{ $app.code }}"
} ) and
( changes(kube_statefulset_status_replicas_updated{component="kube-state-metrics",appType="{{ $app.code
}}"}[5m]) == 0 )
```

**Time Period**

15m

**Severity**

critical

**Source**

environments/{{ \$app.code }}

## KubeStatefulSetGenerationMismatch

Reference information for KubeStatefulSetGenerationMismatch used as part of Pulse in CDP PVC Data Services.

### Summary

StatefulSet generation mismatch due to possible roll-back

### PromQL Expression

```
kube_statefulset_status_observed_generation{component="kube-state-metrics",appType="{{ $app.code }}}" != kube_statefulset_metadata_generation{component="kube-state-metrics",appType="{{ $app.code }}}"
```

### Time Period

15m

### Severity

critical

### Source

environments/{{ \$app.code }}

## KubeStatefulSetUpdateNotRolledOut

Reference information for KubeStatefulSetUpdateNotRolledOut used as part of Pulse in CDP PVC Data Services.

### Summary

StatefulSet update has not been rolled out.

### PromQL Expression

```
max without (revision) ( kube_statefulset_status_current_revision{component="kube-state-metrics",appType="{{ $app.code }}}" ) unless kube_statefulset_status_update_revision{component="kube-state-metrics",appType="{{ $app.code }}}"} * ( kube_statefulset_replicas{component="kube-state-metrics",appType="{{ $app.code }}}" != kube_statefulset_status_replicas_updated{component="kube-state-metrics",appType="{{ $app.code }}}")
```

### Time Period

15m

### Severity

critical

### Source

environments/{{ \$app.code }}

## KubeDaemonSetRolloutStuck

Reference information for KubeDaemonSetRolloutStuck used as part of Pulse in CDP PVC Data Services.

### Summary

DaemonSet rollout is stuck.

### PromQL Expression

```
kube_daemonset_status_number_ready{component="kube-state-metrics",appType="{{ $app.code }}"}
kube_daemonset_status_desired_number_scheduled{component="kube-state-metrics",appType="{{ $app.code }}" < 1.00}
```

**Time Period**

15m

**Severity**

critical

**Source**

environments/{{ \$app.code }}

## KubeContainerWaiting

Reference information for KubeContainerWaiting used as part of Pulse in CDP PVC Data Services.

**Summary**

Pod container waiting longer than 1 hour

**PromQL Expression**

```
sum by (namespace, pod, container, appType, appId, appName, workloadId)
(kube_pod_container_status_waiting_reason{component="kube-state-metrics",appType="{{ $app.code }}}) > 0
```

**Time Period**

1h

**Severity**

critical

**Source**

environments/{{ \$app.code }}

## KubeDaemonSetNotScheduled

Reference information for KubeDaemonSetNotScheduled used as part of Pulse in CDP PVC Data Services.

**Summary**

DaemonSet pods are not scheduled.

**PromQL Expression**

```
kube_daemonset_status_desired_number_scheduled{component="kube-state-metrics",appType="{{ $app.code }}"
kube_daemonset_status_current_number_scheduled{component="kube-state-metrics",appType="{{ $app.code }}"} > 0
```

**Time Period**

10m

**Severity**

critical

**Source**

environments/{{ \$app.code }}

## KubeDaemonSetMisScheduled

Reference information for KubeDaemonSetMisScheduled used as part of Pulse in CDP PVC Data Services.

**Summary**

DaemonSet pods are misscheduled.

**PromQL Expression**

```
kube_daemonset_status_number_misscheduled{component="kube-state-metrics",appType="{{ $app.code }}}"} > 0
```

**Time Period**

15m

**Severity**

critical

**Source**

environments/{{ \$app.code }}

## KubeCronJobRunning

Reference information for KubeCronJobRunning used as part of Pulse in CDP PVC Data Services.

**Summary**

CronJob did not complete in time

**PromQL Expression**

```
time() - kube_cronjob_next_schedule_time{component="kube-state-metrics",appType="{{ $app.code }}}"} > 3600
```

**Time Period**

1h

**Severity**

critical

**Source**

environments/{{ \$app.code }}

## KubeJobCompletion

Reference information for KubeJobCompletion used as part of Pulse in CDP PVC Data Services.

**Summary**

Job did not complete in time

**PromQL Expression**

```
kube_job_spec_completions{component="kube-state-metrics",appType="{{ $app.code }}}"} - kube_job_status_succeeded{component="kube-state-metrics",appType="{{ $app.code }}}"} > 0
```

**Time Period**

1h

**Severity**

critical

**Source**

```
environments/{{ $app.code }}
```

## KubeJobFailed

Reference information for KubeJobFailed used as part of Pulse in CDP PVC Data Services.

**Summary**

Job failed to complete.

**PromQL Expression**

```
kube_job_failed{component="kube-state-metrics",appType="{{ $app.code }}" } > 0
```

**Time Period**

15m

**Severity**

critical

**Source**

```
environments/{{ $app.code }}
```

## KubeHpaReplicasMismatch

Reference information for KubeHpaReplicasMismatch used as part of Pulse in CDP PVC Data Services.

**Summary**

HPA has not matched desired number of replicas.

**PromQL Expression**

```
(kube_horizontalpodautoscaler_status_desired_replicas{component="kube-state-metrics",appType="{{ $app.code }}" } != kube_horizontalpodautoscaler_status_current_replicas{component="kube-state-metrics",appType="{{ $app.code }}" }) and changes(kube_horizontalpodautoscaler_status_current_replicas{appType="{{ $app.code }}" } [15m]) == 0
```

**Time Period**

15m

**Severity**

critical

**Source**

```
environments/{{ $app.code }}
```

## KubeHpaMaxedOut

Reference information for KubeHpaMaxedOut used as part of Pulse in CDP PVC Data Services.

**Summary**

HPA is running at max replicas

**PromQL Expression**

```
kube_horizontalpodautoscaler_status_current_replicas{component="kube-state-metrics",appType="{{ $app.code }}" } ==
```

```
kube_horizontalpodautoscaler_spec_max_replicas{component="kube-state-metrics",appType="{{ $app.code }}"}'
```

**Time Period**

15m

**Severity**

critical

**Source**

environments/{{ \$app.code }}

## KubeQuotaExceeded

Reference information for KubeQuotaExceeded used as part of Pulse in CDP PVC Data Services.

**Summary**

Namespace quota has exceeded the limits.

**PromQL Expression**

```
cube_resourcequota{component="kube-state-metrics", type="used", appType="{{ $app.code }}"} / ignoring(instance, job, type) (cube_resourcequota{component="kube-state-metrics", type="hard", appType="{{ $app.code }}"} > 0) > 0.90
```

**Time Period**

15m

**Severity**

critical

**Source**

environments/{{ \$app.code }}

## MonitoringPlatformTopologyConfigurationDurationHigh

Reference information for MonitoringPlatformTopologyConfigurationDurationHigh used as part of Pulse in CDP PVC Data Services.

**Summary**

The avg monitoring platform reconfiguration time is longer than 5 minutes

**PromQL Expression**

```
rate(monitoring_platform_topology_configuration_duration_seconds_sum[10m]) / rate(monitoring_platform_topology_configuration_duration_seconds_count[10m]) > 300
```

**Time Period**

15m

**Severity**

warning

**Source**

controlplane/

## MonitoringPlatformUpgradeFailed

Reference information for MonitoringPlatformUpgradeFailed used as part of Pulse in CDP PVC Data Services.

**Summary**

The monitoring components of an environment were failed to be updated to the latest version.

**PromQL Expression**

```
monitoring_platform_upgrade_failed == 1
```

**Time Period**

0s

**Severity**

critical

**Source**

controlplane/

## MonitoringPlatformProvisionFailed

Reference information for MonitoringPlatformProvisionFailed used as part of Pulse in CDP PVC Data Services.

**Summary**

Provisioning of monitoring components for an environment have failed.

**PromQL Expression**

```
monitoring_platform_provision_failed > 0
```

**Time Period**

5m

**Severity**

critical

**Source**

controlplane/

## MonitoringDbAccessUnavailable

Reference information for MonitoringDbAccessUnavailable used as part of Pulse in CDP PVC Data Services.

**Summary**

Ping failed to the monitoring database.

**PromQL Expression**

```
monitoring_db_unavailable == 1
```

**Time Period**

0s

**Severity**

warning

**Source**

controlplane/

## AlertAdministrationConfigurationFailed

Reference information for AlertAdministrationConfigurationFailed used as part of Pulse in CDP PVC Data Services.

### Summary

Alert administration configuration failed.

### PromQL Expression

```
alert_administration_configuration_failed == 1
```

### Time Period

2m

### Severity

critical

### Source

controlplane/

## AlertManagerConfigurationDurationHigh

Reference information for AlertManagerConfigurationDurationHigh used as part of Pulse in CDP PVC Data Services.

### Summary

The avg alert manager reconfiguration time is longer than 5 minutes.

### PromQL Expression

```
rate(alert_administration_alert_manager_configuration_duration_seconds_sum[10m]) /  
rate(alert_administration_alert_manager_configuration_duration_seconds_count[10m]) > 300
```

### Time Period

### Severity

warning

### Source

controlplane/

## AlertAdministrationTopologyStreamReceiveFailedRatioHigh

Reference information for AlertAdministrationTopologyStreamReceiveFailedRatioHigh used as part of Pulse in CDP PVC Data Services.

### Summary

Failed to receive topology stream messages.

### PromQL Expression

```
(rate(alert_administration_topology_stream_receive_failed_total[5m]) /  
rate(alert_administration_topology_stream_receive_total[5m])) * 100 > 10
```

### Time Period

5m

### Severity

warning

**Source**

controlplane/

## AlertAdministrationBuiltInRuleLoadingFailed

Reference information for AlertAdministrationBuiltInRuleLoadingFailed used as part of Pulse in CDP PVC Data Services.

**Summary**

Failed to load built-in alert rules

**PromQL Expression**

```
alert_administration_builtin_rule_loading_failed == 1
```

**Time Period**

0s

**Severity**

critical

**Source**

controlplane/

## AlertAdministrationCmImportFailed

Reference information for AlertAdministrationCmImportFailed used as part of Pulse in CDP PVC Data Services.

**Summary**

Failed to import CM alert settings

**PromQL Expression**

```
alert_administration_cm_import_failed == 1
```

**Time Period**

0s

**Severity**

warning

**Source**

controlplane/

## AlertRuleConfigurationDurationHigh

Reference information for AlertRuleConfigurationDurationHigh used as part of Pulse in CDP PVC Data Services.

**Summary**

The avg alert rule reconfiguration time is longer than 5 minutes.

**PromQL Expression**

```
rate(alert_administration_alert_rules_configuration_duration_seconds_sum[10m]) /  
rate(alert_administration_alert_rules_configuration_duration_seconds_count[10m]) > 300
```

**Time Period**

0s

**Severity**

warning

**Source**

controlplane/

## PrometheusConfigmapReloadFailed

Reference information for PrometheusConfigmapReloadFailed used as part of Pulse in CDP PVC Data Services.

**Summary**

Configmap reloader in Prometheus pod is failing to load the updated configmap.

**PromQL Expression**
 $\text{configmap\_reload\_last\_reload\_error} == 1$ 
**Time Period**

30s

**Severity**

critical

**Source**

environments/infra

## EnvironmentPrometheusConnectionCheckFailed

Reference information for EnvironmentPrometheusConnectionCheckFailed used as part of Pulse in CDP PVC Data Services.

**Summary**

Environment Prometheus is inaccessible from Control Plane.

**PromQL Expression**
 $\text{platform\_environment_prometheus_connection_request_failed} > 0$ 
**Time Period**

5m

**Severity**

warning

**Source**

controlplane/

## PrometheusNotConnectedToAlertmanager

Reference information for PrometheusNotConnectedToAlertmanager used as part of Pulse in CDP PVC Data Services.

**Summary**

Prometheus is not connected to alertmanager

**PromQL Expression**
 $\text{max_over_time(prometheus_notifications_alertmanagers_discovered[5m])} < 1$ 
**Time Period**

10m

**Severity**

critical

**Source**

environments/infra

## PrometheusAlertmanagerNotificationFailing

Reference information for PrometheusAlertmanagerNotificationFailing used as part of Pulse in CDP PVC Data Services.

**Summary**

Alertmanager is failing to send notifications

**PromQL Expression**`rate(alertmanager_notifications_failed_total[10m]) > 0`**Time Period**

0s

**Severity**

critical

**Source**

environments/infra

## PrometheusAlertmanagerConfigurationReloadFailure

Reference information for PrometheusAlertmanagerConfigurationReloadFailure used as part of Pulse in CDP PVC Data Services.

**Summary**

Alertmanager is failing to reload configuration

**PromQL Expression**`alertmanager_config_last_reload_successful != 1`**Time Period**

0s

**Severity**

warning

**Source**

environments/infra

## ControlPlanePrometheusBadConfig

Reference information for ControlPlanePrometheusBadConfig used as part of Pulse in CDP PVC Data Services.

**Summary**

Failed Prometheus configuration reload.

**PromQL Expression**`max_over_time(prometheus_config_last_reload_successful[5m]) == 0`**Time Period**

10m

**Severity**

critical

**Source**

controlplane/

## ControlPlanePrometheusNotificationQueueRunningFull

Reference information for ControlPlanePrometheusNotificationQueueRunningFull used as part of Pulse in CDP PVC Data Services.

**Summary**

Prometheus alert notification queue predicted to run full in less than 30m.

**PromQL Expression**

```
( predict_linear(prometheus_notifications_queue_length[5m], 60 * 30) >
  min_over_time(prometheus_notifications_queue_capacity[5m]) )
```

**Time Period**

15m

**Severity**

warning

**Source**

controlplane/

## ControlPlanePrometheusErrorSendingAlertsToSomeAlertmanager

Reference information for ControlPlanePrometheusErrorSendingAlertsToSomeAlertmanagers used as part of Pulse in CDP PVC Data Services.

**Summary**

Prometheus has encountered more than 1% errors sending alerts to a specific Alertmanager.

**PromQL Expression**

```
( rate(prometheus_notifications_errors_total[5m]) / rate(prometheus_notifications_sent_total[5m]) )
 * 100 > 1
```

**Time Period**

15m

**Severity**

warning

**Source**

controlplane/

## ControlPlanePrometheusErrorSendingAlertsToAnyAlertmanager

Reference information for ControlPlanePrometheusErrorSendingAlertsToAnyAlertmanager used as part of Pulse in CDP PVC Data Services.

**Summary**

Prometheus encounters more than 3% errors sending alerts to any Alertmanager.

#### **PromQL Expression**

```
min without (alertmanager) ( rate(prometheus_notifications_errors_total{alertmanager!~``}[5m]) /  
rate(prometheus_notifications_sent_total{alertmanager!~``}[5m]) ) * 100 > 3
```

#### **Time Period**

15m

#### **Severity**

critical

#### **Source**

controlplane/

## ControlPlanePrometheusTSDBReloadsFailing

Reference information for ControlPlanePrometheusTSDBReloadsFailing used as part of Pulse in CDP PVC Data Services.

#### **Summary**

Prometheus has issues reloading blocks from disk.

#### **PromQL Expression**

```
increase(prometheus_tsdb_reloads_failures_total[3h]) > 0
```

#### **Time Period**

4h

#### **Severity**

warning

#### **Source**

controlplane/

## ControlPlanePrometheusTSDBCompactionsFailing

Reference information for ControlPlanePrometheusTSDBCompactionsFailing used as part of Pulse in CDP PVC Data Services.

#### **Summary**

Prometheus has issues compacting blocks.

#### **PromQL Expression**

```
increase(prometheus_tsdb_compactions_failed_total[3h]) > 0
```

#### **Time Period**

4h

#### **Severity**

warning

#### **Source**

controlplane/

## ControlPlanePrometheusNotIngestingSamples

Reference information for ControlPlanePrometheusNotIngestingSamples used as part of Pulse in CDP PVC Data Services.

### Summary

Prometheus is not ingesting samples.

### PromQL Expression

```
( rate(prometheus_tsdb_head_samples_appended_total[5m]) <= 0 and ( sum without(scrape_job)
(prometheus_target_metadata_cache_entries) > 0 or sum without(rule_group)
(prometheus_rule_group_rules) > 0 ) )
```

### Time Period

10m

### Severity

warning

### Source

controlplane/

## ControlPlanePrometheusDuplicateTimestamps

Reference information for ControlPlanePrometheusDuplicateTimestamps used as part of Pulse in CDP PVC Data Services.

### Summary

Prometheus is dropping samples with duplicate timestamps.

### PromQL Expression

```
rate(prometheus_target_scrapes_sample_duplicate_timestamp_total[5m]) > 0
```

### Time Period

10m

### Severity

warning

### Source

controlplane/

## ControlPlanePrometheusOutOfOrderTimestamps

Reference information for ControlPlanePrometheusOutOfOrderTimestamps used as part of Pulse in CDP PVC Data Services.

### Summary

Prometheus drops samples with out-of-order timestamps.

### PromQL Expression

```
rate(prometheus_target_scrapes_sample_out_of_order_total[5m]) > 0
```

### Time Period

10m

**Severity**

warning

**Source**

controlplane/

## ControlPlanePrometheusRemoteStorageFailures

Reference information for ControlPlanePrometheusRemoteStorageFailures used as part of Pulse in CDP PVC Data Services.

**Summary**

Prometheus fails to send samples to remote storage.

**PromQL Expression**

```
( rate(prometheus_remote_storage_samples_failed_total[5m]) /
  ( rate(prometheus_remote_storage_samples_failed_total[5m]) +
    rate(prometheus_remote_storage_samples_total[5m]) ) * 100 > 1
```

**Time Period**

0s

**Severity**

critical

**Source**

controlplane/

## ControlPlanePrometheusRemoteWriteBehind

Reference information for ControlPlanePrometheusRemoteWriteBehind used as part of Pulse in CDP PVC Data Services.

**Summary**

Prometheus remote write is behind.

**PromQL Expression**

```
( max_over_time(prometheus_remote_storage_highest_timestamp_in_seconds[5m]) -
  ignoring(remote_name, url) group_right
  max_over_time(prometheus_remote_storage_queue_highest_sent_timestamp_seconds[5m]) ) > 120
```

**Time Period**

0s

**Severity**

critical

**Source**

controlplane/

## ControlPlanePrometheusRemoteWriteDesiredShards

Reference information for ControlPlanePrometheusRemoteWriteDesiredShards used as part of Pulse in CDP PVC Data Services.

**Summary**

Prometheus remote write desired shards calculation wants to run more than configured max shards.

**PromQL Expression**

```
( max_over_time(prometheus_remote_storage_shards_desired[5m]) >
  max_over_time(prometheus_remote_storage_shards_max[5m]) )
```

**Time Period**

15m

**Severity**

warning

**Source**

controlplane/

## ControlPlanePrometheusPrometheusRuleFailures

Reference information for ControlPlanePrometheusPrometheusRuleFailures used as part of Pulse in CDP PVC Data Services.

**Summary**

Prometheus is failing rule evaluations.

**PromQL Expression**

```
increase(prometheus_rule_evaluation_failures_total[5m]) > 0
```

**Time Period**

15m

**Severity**

critical

**Source**

controlplane/

## ControlPlanePrometheusMissingRuleEvaluations

Reference information for ControlPlanePrometheusMissingRuleEvaluations used as part of Pulse in CDP PVC Data Services.

**Summary**

Prometheus is missing rule evaluations due to slow rule group evaluation.

**PromQL Expression**

```
increase(prometheus_rule_group_iterations_missed_total[5m]) > 0
```

**Time Period**

15m

**Severity**

warning

**Source**

controlplane/

## ControlPlanePrometheusTargetLimitHit

Reference information for ControlPlanePrometheusTargetLimitHit used as part of Pulse in CDP PVC Data Services.

### Summary

Prometheus has dropped targets because some scrape configs have exceeded the targets limit.

### PromQL Expression

$$\text{increase}(\text{prometheus\_target\_scrape\_pool\_exceeded\_target\_limit\_total}[5m]) > 0$$

### Time Period

15m

### Severity

warning

### Source

controlplane/

## ControlPlanePrometheusLabelLimitHit

Reference information for ControlPlanePrometheusLabelLimitHit used as part of Pulse in CDP PVC Data Services.

### Summary

Prometheus has dropped targets because some scrape configs have exceeded the labels limit.

### PromQL Expression

$$\text{increase}(\text{prometheus\_target\_scrape\_pool\_exceeded\_label\_limits\_total}[5m]) > 0$$

### Time Period

15m

### Severity

warning

### Source

controlplane/

## ControlPlanePrometheusScrapeBodySizeLimitHit

Reference information for ControlPlanePrometheusScrapeBodySizeLimitHit used as part of Pulse in CDP PVC Data Services.

### Summary

Prometheus has dropped some targets that exceeded body size limit.

### PromQL Expression

$$\text{increase}(\text{prometheus\_target\_scrapes\_exceeded\_body\_size\_limit\_total}[5m]) > 0$$

### Time Period

15m

### Severity

warning

### Source

controlplane/

## ControlPlanePrometheusScrapeSampleLimitHit

Reference information for ControlPlanePrometheusScrapeSampleLimitHit used as part of Pulse in CDP PVC Data Services.

### Summary

Prometheus has failed scrapes that have exceeded the configured sample limit.

### PromQL Expression

$$\text{increase}(\text{prometheus\_target\_scrapes\_exceeded\_sample\_limit\_total}[5m]) > 0$$

### Time Period

15m

### Severity

warning

### Source

controlplane/

## ControlPlanePrometheusTargetSyncFailure

Reference information for ControlPlanePrometheusTargetSyncFailure used as part of Pulse in CDP PVC Data Services.

### Summary

Prometheus has failed to sync targets.

### PromQL Expression

$$\text{increase}(\text{prometheus\_target\_sync\_failed\_total}[30m]) > 0$$

### Time Period

5m

### Severity

critical

### Source

controlplane/

## PrometheusRemoteWriteConfigurationDurationHigh

Reference information for PrometheusRemoteWriteConfigurationDurationHigh used as part of Pulse in CDP PVC Data Services.

### Summary

The avg prometheus remote-write reconfiguration time is longer than 5 minutes

### PromQL Expression

$$\text{rate}(\text{remote\_write\_reconcile\_duration\_seconds\_sum}[10m]) / \text{rate}(\text{remote\_write\_reconcile\_duration\_seconds\_count}[10m]) > 300$$

### Time Period

15m

### Severity

warning

**Source**

controlplane/

## RemoteWriteConfigurationFailed

Reference information for RemoteWriteConfigurationFailed used as part of Pulse in CDP PVC Data Services.

**Summary**

Remote-write configuration failed.

**PromQL Expression**

`max_over_time(monitoring_remote_write_configuration_failed[2m]) > 0`

**Time Period**

0s

**Severity**

critical

**Source**

controlplane/

## TargetDown

Reference information for TargetDown used as part of Pulse in CDP PVC Data Services.

**Summary**

Target Down

**PromQL Expression**

`100 * (count(up == 0) BY (job, namespace, service, appType, appName) / count(up) BY (job, namespace, service, appType, appName)) > 10`

**Time Period**

10m

**Severity**

warning

**Source**

environments/de

## DataLakeClusterHealthIsBad

Reference information for DataLakeClusterHealthIsBad used as part of Pulse in CDP PVC Data Services.

**Summary**

Data lake cluster health is bad

**PromQL Expression**

`cm_cluster_health == 7`

**Time Period**

0s

**Severity**  
critical

**Source**  
environments/

## DataLakeClusterHealthIsConcerning

Reference information for DataLakeClusterHealthIsConcerning used as part of Pulse in CDP PVC Data Services.

**Summary**

Data lake cluster health is concerning

**PromQL Expression**

`cm_cluster_health == 6`

**Time Period**

0s

**Severity**  
warning

**Source**  
environments/

## DataLakeClusterIsStopped

Reference information for DataLakeClusterIsStopped used as part of Pulse in CDP PVC Data Services.

**Summary**

Data lake cluster health is stopped

**PromQL Expression**

`cm_cluster_health == 3 or cm_cluster_health == 4`

**Time Period**

0s

**Severity**  
warning

**Source**  
environments/

## DataLakeDidNotStart

Reference information for DataLakeDidNotStart used as part of Pulse in CDP PVC Data Services.

**Summary**

Data lake cluster did not start

**PromQL Expression**

`cm_cluster_health == 2`

**Time Period**

15m

**Severity**

warning

**Source**

environments/

## DataLakeHealthUnknownOrDisabled

Reference information for DataLakeHealthUnknownOrDisabled used as part of Pulse in CDP PVC Data Services.

**Summary**

Data lake cluster health is unknown or disabled

**PromQL Expression**

$$\text{cm\_cluster\_health} == 0 \text{ or } \text{cm\_cluster\_health} == 1$$
**Time Period**

10m

**Severity**

warning

**Source**

environments/

## HiveJvmPauseTimeCritical

Reference information for HiveJvmPauseTimeCritical used as part of Pulse in CDP PVC Data Services.

**Summary**

Hive JVM GC pause time critical

**PromQL Expression**

$$\text{sum}(\text{increase}(\text{jvm\_gc\_collection\_seconds\_sum}\{\text{appType}=\text{"dw"}\}[300s])) \text{ without (gc) / 3 } \geq 20$$
**Time Period**

0s

**Severity**

critical

**Source**

environments/dw

## HiveJvmPauseTimeWarning

Reference information for HiveJvmPauseTimeWarning used as part of Pulse in CDP PVC Data Services.

**Summary**

Hive JVM GC pause time warning

**PromQL Expression**

$$\text{sum}(\text{increase}(\text{jvm\_gc\_collection\_seconds\_sum}\{\text{appType}=\text{"dw"}\}[300s])) \text{ without (gc) / 3 } > 10$$
**Time Period**

0s

**Severity**

warning

**Source**

environments/dw

## HiveJvmThreadsDeadlocked

Reference information for HiveJvmThreadsDeadlocked used as part of Pulse in CDP PVC Data Services.

**Summary**

Hive JVM threads deadlocked

**PromQL Expression**`jvm_threads_deadlocked > 0`**Time Period**

0s

**Severity**

critical

**Source**

environments/dw

## HiveJvmHeapPercentCritical

Reference information for HiveJvmHeapPercentCritical used as part of Pulse in CDP PVC Data Services.

**Summary**

Hive JVM heap percent critical

**PromQL Expression**

$$100 * \text{jvm_memory_bytes_used}\{\text{appType}=\text{"dw"}\} / (\text{jvm_memory_bytes_max}\{\text{appType}=\text{"dw"}\} > 0) > 95$$
**Time Period**

0s

**Severity**

critical

**Source**

environments/dw

## HiveJvmHeapPercentWarning

Reference information for HiveJvmHeapPercentWarning used as part of Pulse in CDP PVC Data Services.

**Summary**

Hive JVM heap percent warning

**PromQL Expression**

$$100 * \text{jvm_memory_bytes_used}\{\text{appType}=\text{"dw"}\} / (\text{jvm_memory_bytes_max}\{\text{appType}=\text{"dw"}\} > 0) > 80$$
**Time Period**

0s

**Severity**

warning

**Source**

environments/dw

## LargeNumberOfCompactionFailuresWarning

Reference information for LargeNumberOfCompactionFailuresWarning used as part of Pulse in CDP PVC Data Services.

**Summary**

Large number of compaction failures

**PromQL Expression**

```
(max(compaction_num_failed{appType="dw"}) by (appId, appName) +
 max(compaction_num_attempted{appType="dw"}) by (appId, appName)) /
(max(compaction_num_failed{appType="dw"}) by (appId, appName) +
 max(compaction_num_attempted{appType="dw"}) by (appId, appName) +
 max(compaction_num_succeeded{appType="dw"}) by (appId, appName)) > .01
```

**Time Period**

0s

**Severity**

warning

**Source**

environments/dw

## OldestInitiatedCompactionPassedThresholdWarning

Reference information for OldestInitiatedCompactionPassedThresholdWarning used as part of Pulse in CDP PVC Data Services.

**Summary**

Oldest initiated compaction passed threshold

**PromQL Expression**

```
12 * 3600 >= max(compaction_oldest_enqueue_age_in_sec{appType="dw"}) by (appId, appName,
namespace, service) > 3600
```

**Time Period**

0s

**Severity**

warning

**Source**

environments/dw

## OldestInitiatedCompactionPassedThresholdError

Reference information for OldestInitiatedCompactionPassedThresholdError used as part of Pulse in CDP PVC Data Services.

### Summary

Oldest initiated compaction passed threshold

### PromQL Expression

$$\max(\text{compaction\_oldest\_enqueue\_age\_in\_sec}\{\text{appType}=\text{"dw"}\}) \text{ by (appId, appName)} > 12 * 3600$$

### Time Period

0s

### Severity

critical

### Source

environments/dw

## OldestReadyForCleaningCompactionPassedThresholdWarning

Reference information for OldestReadyForCleaningCompactionPassedThresholdWarning used as part of Pulse in CDP PVC Data Services.

### Summary

Oldest uncleaned compaction passed threshold

### PromQL Expression

$$\max(\text{oldest\_ready\_for\_cleaning\_age\_in\_sec}\{\text{appType}=\text{"dw"}\}) \text{ by (appId, appName)} > 24 * 3600$$

### Time Period

0s

### Severity

warning

### Source

environments/dw

## OldAbortedTransactionNotClearedWarning

Reference information for OldAbortedTransactionNotClearedWarning used as part of Pulse in CDP PVC Data Services.

### Summary

Old aborted transaction not cleared

### PromQL Expression

$$48 * 3600 \geq \max(\text{oldest\_aborted\_txn\_age\_in\_sec}\{\text{appType}=\text{"dw"}\}) \text{ by (appId, appName)} > 24 * 3600$$

### Time Period

0s

### Severity

warning

**Source**

environments/dw

## OldAbortedTransactionNotClearedCritical

Reference information for OldAbortedTransactionNotClearedCritical used as part of Pulse in CDP PVC Data Services.

**Summary**

Old aborted transaction not cleared

**PromQL Expression** $\max(\text{oldest\_aborted\_txn\_age\_in\_sec}\{\text{appType}=\text{"dw"}\}) \text{ by } (\text{appId}, \text{appName}) > 48 * 3600$ **Time Period**

0s

**Severity**

critical

**Source**

environments/dw

## PartitionsWithManyAbortsCritical

Reference information for PartitionsWithManyAbortsCritical used as part of Pulse in CDP PVC Data Services.

**Summary**

Tables/partitions with many aborts

**PromQL Expression** $\max(\text{tables\_with\_x\_aborted\_transactions}\{\text{appType}=\text{"dw"}\}) \text{ by } (\text{appId}, \text{appName}) > 0$ **Time Period**

0s

**Severity**

critical

**Source**

environments/dw

## OldestOpenNonReplTransactionPassedThresholdWarning

Reference information for OldestOpenNonReplTransactionPassedThresholdWarning used as part of Pulse in CDP PVC Data Services.

**Summary**

Oldest open transaction passed threshold

**PromQL Expression** $3 * 24 * 3600 \geq \max(\text{oldest\_open\_non\_repl\_txn\_age\_in\_sec}\{\text{appType}=\text{"dw"}\}) \text{ by } (\text{appId}, \text{appName}) > 24 * 3600$ **Time Period**

0s

**Severity**

warning

**Source**

environments/dw

## OldestOpenNonReplTransactionPassedThresholdCritical

Reference information for OldestOpenNonReplTransactionPassedThresholdCritical used as part of Pulse in CDP PVC Data Services.

**Summary**

Oldest open transaction passed threshold

**PromQL Expression**

```
max(oldest_open_non_repl_txn_age_in_sec{appType="dw"}) by (appId, appName) > 3 * 24 * 3600
```

**Time Period**

0s

**Severity**

critical

**Source**

environments/dw

## LargeNumberOfActiveDeltasWarning

Reference information for LargeNumberOfActiveDeltasWarning used as part of Pulse in CDP PVC Data Services.

**Summary**

Table/partition with large number of active delta directories

**PromQL Expression**

```
max(compaction_num_active_deltas{appType="dw"}) by (appId, appName) > 200
```

**Time Period**

0s

**Severity**

warning

**Source**

environments/dw

## LargeNumberOfSmallDeltasWarning

Reference information for LargeNumberOfSmallDeltasWarning used as part of Pulse in CDP PVC Data Services.

**Summary**

Table/partition with large number of small delta directories

**PromQL Expression**

```
max(compaction_num_small_deltas{appType="dw"}) by (appId, appName) > 200
```

**Time Period**

0s

**Severity**

warning

**Source**

environments/dw

## LargeNumberOfObsoleteDeltasWarning

Reference information for LargeNumberOfObsoleteDeltasWarning used as part of Pulse in CDP PVC Data Services.

**Summary**

Table/partition with large number of obsolete delta directories

**PromQL Expression**

$$\max(\text{compaction\_num\_obsolete\_deltas}) \text{ by } (\text{appId}, \text{appName}, \text{namespace}, \text{service}) > 200$$
**Time Period**

0s

**Severity**

warning

**Source**

environments/dw

## ExcessiveAcidMetadataCompletedTxnComponentsWarning

Reference information for ExcessiveAcidMetadataCompletedTxnComponentsWarning used as part of Pulse in CDP PVC Data Services.

**Summary**

The COMPLETED\_TXN\_COMPONENTS metadata table is too large

**PromQL Expression**

$$1000000 >= \max(\text{compaction\_num\_completed\_txn\_components}\{\text{appType}=\text{"dw"}\}) \text{ by } (\text{appId}, \text{appName}) > 500000$$
**Time Period**

0s

**Severity**

warning

**Source**

environments/dw

## ExcessiveAcidMetadataCompletedTxnComponentsCritical

Reference information for ExcessiveAcidMetadataCompletedTxnComponentsCritical used as part of Pulse in CDP PVC Data Services.

**Summary**

The COMPLETED\_TXN\_COMPONENTS metadata table is too large

**PromQL Expression**

```
max(compaction_num_completed_txn_components{appType="dw"}) by (appId, appName) >
1000000
```

**Time Period**

0s

**Severity**

critical

**Source**

environments/dw

## ExcessiveAcidMetadataTxnToWriteIdWarning

Reference information for ExcessiveAcidMetadataTxnToWriteIdWarning used as part of Pulse in CDP PVC Data Services.

**Summary**

The TXN\_TO\_WRITE\_ID metadata table is too large

**PromQL Expression**

```
1000000 >= max(compaction_num_txn_to_writeid{appType="dw"}) by (appId, appName) >
500000
```

**Time Period**

0s

**Severity**

warning

**Source**

environments/dw

## ExcessiveAcidMetadataTxnToWriteIdCritical

Reference information for ExcessiveAcidMetadataTxnToWriteIdCritical used as part of Pulse in CDP PVC Data Services.

**Summary**

The TXN\_TO\_WRITE\_ID metadata table is too large

**PromQL Expression**

```
max(compaction_num_txn_to_writeid{appType="dw"}) by (appId, appName) > 1000000
```

**Time Period**

0s

**Severity**

critical

**Source**

environments/dw

## ActivityOnTableWithDisabledAutoCompactionWarning

Reference information for ActivityOnTableWithDisabledAutoCompactionWarning used as part of Pulse in CDP PVC Data Services.

### Summary

Activity on table with disabled auto-compaction

### PromQL Expression

```
sum(increase(num_writes_to_disabled_compaction_table{appType="dw"}[24h])) by (appId, appName) > 0
```

### Time Period

0s

### Severity

warning

### Source

environments/dw

## ExcessiveInitiatorFailuresInTheLast24hError

Reference information for ExcessiveInitiatorFailuresInTheLast24hError used as part of Pulse in CDP PVC Data Services.

### Summary

Compactor initiation failures in the last 24h

### PromQL Expression

```
sum(increase(compaction_initiator_failure_counter[24h])) by (appId, appName, namespace, service) >= 5
```

### Time Period

0s

### Severity

critical

### Source

environments/dw

## ExcessiveCleanerFailuresInTheLast24hWarning

Reference information for ExcessiveCleanerFailuresInTheLast24hWarning used as part of Pulse in CDP PVC Data Services.

### Summary

Compactor cleaner failures in the last 24h

### PromQL Expression

```
5 > sum(increase(compaction_cleaner_failure_counter[24h])) by (appId, appName, namespace, service) >= 2
```

### Time Period

0s

**Severity**

warning

**Source**

environments/dw

## ExcessiveCleanerFailuresInTheLast24hCritical

Reference information for ExcessiveCleanerFailuresInTheLast24hCritical used as part of Pulse in CDP PVC Data Services.

**Summary**

Compactor cleaner failures in the last 24h

**PromQL Expression**

```
sum(increase(compaction_cleaner_failure_counter[24h])) by (appId, appName, namespace, service)
>= 5
```

**Time Period**

0s

**Severity**

critical

**Source**

environments/dw

## LongRunningInitiatorCycleWarning

Reference information for LongRunningInitiatorCycleWarning used as part of Pulse in CDP PVC Data Services.

**Summary**

Long Running Initiator Cycle

**PromQL Expression**

```
12 * 3600 * 1000 >= max(compaction_initiator_cycle_duration) by (appId, appName, namespace, service)
> 6 * 3600 * 1000
```

**Time Period**

0s

**Severity**

warning

**Source**

environments/dw

## LongRunningInitiatorCycleCritical

Reference information for LongRunningInitiatorCycleCritical used as part of Pulse in CDP PVC Data Services.

**Summary**

Long Running Initiator Cycle

**PromQL Expression**

```
max(compaction_initiator_cycle_duration) by (appId, appName, namespace, service) > 12 * 3600 *
1000
```

**Time Period**

0s

**Severity**

critical

**Source**

environments/dw

## ImpalaJvmPauseTimeCritical

Reference information for ImpalaJvmPauseTimeCritical used as part of Pulse in CDP PVC Data Services.

**Summary**

Impala JVM pause time critical

**PromQL Expression**
 $\text{increase}(\text{impala_jvm_gc_total_extra_sleep_time_millis}\{\text{appType}=\text{"dw"}\}[5m]) / 1000 \geq 60$ 
**Time Period**

0s

**Severity**

critical

**Source**

environments/dw

## ImpalaJvmGcTimeCritical

Reference information for ImpalaJvmGcTimeCritical used as part of Pulse in CDP PVC Data Services.

**Summary**

Impala JVM GC pause time critical

**PromQL Expression**
 $\text{increase}(\text{impala_jvm_gc_time_millis}\{\text{appType}=\text{"dw"}\}[5m]) / 1000 \geq 60$ 
**Time Period**

0s

**Severity**

critical

**Source**

environments/dw

## ImpalaJvmPauseTimeWarning

Reference information for ImpalaJvmPauseTimeWarning used as part of Pulse in CDP PVC Data Services.

**Summary**

Impala JVM pause time warning

**PromQL Expression**

```
increase(impala_jvm_gc_total_extra_sleep_time_millis{appType="dw"}[5m]) >= 30000 and
increase(impala_jvm_gc_total_extra_sleep_time_millis{appType="dw"}[5m]) < 60000
```

**Time Period**

0s

**Severity**

warning

**Source**

environments/dw

## ImpalaJvmGcTimeWarning

Reference information for ImpalaJvmGcTimeWarning used as part of Pulse in CDP PVC Data Services.

**Summary**

Impala JVM GC pause time warning

**PromQL Expression**

```
increase(impala_jvm_gc_timeInMillis{appType="dw"}[5m]) >= 30000 and
increase(impala_jvm_gc_timeInMillis{appType="dw"}[5m]) < 60000
```

**Time Period**

0s

**Severity**

warning

**Source**

environments/dw

## ImpalaCatalogTimedOutCnxnRequest

Reference information for ImpalaCatalogTimedOutCnxnRequest used as part of Pulse in CDP PVC Data Services.

**Summary**

Impala catalog timed out cnxn request

**PromQL Expression**

```
rate(impala_thrift_server_CatalogService_timedout_cnxn_requests{appType="dw"}[2m]) > 1
```

**Time Period**

5m

**Severity**

warning

**Source**

environments/dw

## ImpalaStatestoreTimedOutCnxnRequest

Reference information for ImpalaStatestoreTimedOutCnxnRequest used as part of Pulse in CDP PVC Data Services.

**Summary**

Impala statestore timed out cnxn request

**PromQL Expression**

`rate(impala_thrift_server_StatestoreService_timedout_cnxn_requests{appType="dw"}[2m]) > 1`

**Time Period**

5m

**Severity**

warning

**Source**

environments/dw

## ImpalaBackendTimedOutCnxnRequest

Reference information for ImpalaBackendTimedOutCnxnRequest used as part of Pulse in CDP PVC Data Services.

**Summary**

Impala backend timed out cnxn request

**PromQL Expression**

`rate(impala_thrift_server_backend_timedout_cnxn_requests{appType="dw"}[2m]) > 1`

**Time Period**

5m

**Severity**

warning

**Source**

environments/dw

## ImpalaHs2FrontendTimedOutCnxnRequest

Reference information for ImpalaHs2FrontendTimedOutCnxnRequest used as part of Pulse in CDP PVC Data Services.

**Summary**

Impala hs2 frontend timed out cnxn request

**PromQL Expression**

`rate(impala_thrift_server_hiveserver2_frontend_timedout_cnxn_requests{appType="dw"}[2m]) > 1`

**Time Period**

5m

**Severity**

warning

**Source**

environments/dw

## ImpalaHs2HttpFrontendTimedOutCnxnRequest

Reference information for ImpalaHs2HttpFrontendTimedOutCnxnRequest used as part of Pulse in CDP PVC Data Services.

### Summary

Impala hs2 http frontend timed out cnxn request

### PromQL Expression

```
rate(impala_thrift_server_hiveserver2_http_frontend_timedout_cnxn_requests{appType="dw"}  
[2m]) > 1
```

### Time Period

5m

### Severity

warning

### Source

environments/dw

## PrometheusNotConnectedToAlertmanager

Reference information for PrometheusNotConnectedToAlertmanager used as part of Pulse in CDP PVC Data Services.

### Summary

Prometheus is not connected to alertmanager

### PromQL Expression

```
max_over_time(prometheus_notifications_alertmanagers_discovered[5m]) < 1
```

### Time Period

10m

### Severity

critical

### Source

environments/infra

## PrometheusAlertmanagerNotificationFailing

Reference information for PrometheusAlertmanagerNotificationFailing used as part of Pulse in CDP PVC Data Services.

### Summary

Alertmanager is failing to send notifications

### PromQL Expression

```
rate(alertmanager_notifications_failed_total[10m]) > 0
```

### Time Period

0s

### Severity

critical

**Source**

environments/infra

## PrometheusAlertmanagerConfigurationReloadFailure

Reference information for PrometheusAlertmanagerConfigurationReloadFailure used as part of Pulse in CDP PVC Data Services.

**Summary**

Alertmanager is failing to reload configuration

**PromQL Expression**
 $\text{alertmanager\_config\_last\_reload\_successful} \neq 1$ 
**Time Period**

0s

**Severity**

warning

**Source**

environments/infra

## PrometheusConfigmapReloadFailed

Reference information for PrometheusConfigmapReloadFailed used as part of Pulse in CDP PVC Data Services.

**Summary**

Configmap reloader in Prometheus pod is failing to load the updated configmap.

**PromQL Expression**
 $\text{configmap\_reload\_last\_reload\_error} == 1$ 
**Time Period**

30s

**Severity**

critical

**Source**

environments/infra

## EnvPrometheusBadConfig

Reference information for EnvPrometheusBadConfig used as part of Pulse in CDP PVC Data Services.

**Summary**

Failed Prometheus configuration reload.

**PromQL Expression**
 $\text{max\_over\_time(prometheus\_config\_last\_reload\_successful[5m])} == 0$ 
**Time Period**

10m

**Severity**  
critical

**Source**  
environments/infra

## EnvPrometheusNotificationQueueRunningFull

Reference information for EnvPrometheusNotificationQueueRunningFull used as part of Pulse in CDP PVC Data Services.

**Summary**

Prometheus alert notification queue predicted to run full in less than 30m.

**PromQL Expression**

```
( predict_linear(prometheus_notifications_queue_length[5m], 60 * 30) >
  min_over_time(prometheus_notifications_queue_capacity[5m]) )
```

**Time Period**

15m

**Severity**  
warning

**Source**  
environments/infra

## EnvPrometheusErrorSendingAlertsToSomeAlertmanagers

Reference information for EnvPrometheusErrorSendingAlertsToSomeAlertmanagers used as part of Pulse in CDP PVC Data Services.

**Summary**

Prometheus has encountered more than 1% errors sending alerts to a specific Alertmanager.

**PromQL Expression**

```
( rate(prometheus_notifications_errors_total[5m]) / rate(prometheus_notifications_sent_total[5m]) )
 * 100 > 1
```

**Time Period**

15m

**Severity**  
warning

**Source**  
environments/infra

## EnvPrometheusErrorSendingAlertsToAnyAlertmanager

Reference information for EnvPrometheusErrorSendingAlertsToAnyAlertmanager used as part of Pulse in CDP PVC Data Services.

**Summary**

Prometheus encounters more than 3% errors sending alerts to any Alertmanager.

**PromQL Expression**

```
min without (alertmanager) ( rate(prometheus_notifications_errors_total{alertmanager!~``}[5m]) /
rate(prometheus_notifications_sent_total{alertmanager!~``}[5m]) ) * 100 > 3
```

**Time Period**

15m

**Severity**

critical

**Source**

environments/infra

## EnvPrometheusTSDBReloadsFailing

Reference information for EnvPrometheusTSDBReloadsFailing used as part of Pulse in CDP PVC Data Services.

**Summary**

Prometheus has issues reloading blocks from disk.

**PromQL Expression**

```
increase(prometheus_tsdb_reloads_failures_total[3h]) > 0
```

**Time Period**

4h

**Severity**

warning

**Source**

environments/infra

## EnvPrometheusTSDBCompactionsFailing

Reference information for EnvPrometheusTSDBCompactionsFailing used as part of Pulse in CDP PVC Data Services.

**Summary**

Prometheus has issues compacting blocks.

**PromQL Expression**

```
increase(prometheus_tsdb_compactions_failed_total[3h]) > 0
```

**Time Period**

4h

**Severity**

warning

**Source**

environments/infra

## EnvPrometheusNotIngestingSamples

Reference information for EnvPrometheusNotIngestingSamples used as part of Pulse in CDP PVC Data Services.

**Summary**

Prometheus is not ingesting samples.

#### **PromQL Expression**

```
( rate(prometheus_tsdb_head_samples_appended_total[5m]) <= 0 and ( sum without(scrape_job)
(prometheus_target_metadata_cache_entries) > 0 or sum without(rule_group)
(prometheus_rule_group_rules) > 0 ) )
```

#### **Time Period**

10m

#### **Severity**

warning

#### **Source**

environments/infra

## EnvPrometheusDuplicateTimestamps

Reference information for EnvPrometheusDuplicateTimestamps used as part of Pulse in CDP PVC Data Services.

#### **Summary**

Prometheus is dropping samples with duplicate timestamps.

#### **PromQL Expression**

```
rate(prometheus_target_scrapes_sample_duplicate_timestamp_total[5m]) > 0
```

#### **Time Period**

10m

#### **Severity**

warning

#### **Source**

environments/infra

## EnvPrometheusOutOfOrderTimestamps

Reference information for EnvPrometheusOutOfOrderTimestamps used as part of Pulse in CDP PVC Data Services.

#### **Summary**

Prometheus drops samples with out-of-order timestamps.

#### **PromQL Expression**

```
rate(prometheus_target_scrapes_sample_out_of_order_total[5m]) > 0
```

#### **Time Period**

10m

#### **Severity**

warning

#### **Source**

environments/infra

## EnvPrometheusRemoteStorageFailures

Reference information for EnvPrometheusRemoteStorageFailures used as part of Pulse in CDP PVC Data Services.

### Summary

Prometheus fails to send samples to remote storage.

### PromQL Expression

```
( rate(prometheus_remote_storage_samples_failed_total[5m]) /
( rate(prometheus_remote_storage_samples_failed_total[5m]) +
rate(prometheus_remote_storage_samples_total[5m]) ) * 100 > 1
```

### Time Period

0s

### Severity

critical

### Source

environments/infra

## EnvPrometheusRemoteWriteBehind

Reference information for EnvPrometheusRemoteWriteBehind used as part of Pulse in CDP PVC Data Services.

### Summary

Prometheus remote write is behind.

### PromQL Expression

```
( max_over_time(prometheus_remote_storage_highest_timestamp_in_seconds[5m]) -
ignoring(remote_name, url) group_right
max_over_time(prometheus_remote_storage_queue_highest_sent_timestamp_seconds[5m]) ) > 120
```

### Time Period

0s

### Severity

critical

### Source

environments/infra

## EnvPrometheusRemoteWriteDesiredShards

Reference information for EnvPrometheusRemoteWriteDesiredShards used as part of Pulse in CDP PVC Data Services.

### Summary

Prometheus remote write desired shards calculation wants to run more than configured max shards.

### PromQL Expression

```
( max_over_time(prometheus_remote_storage_shards_desired[5m]) >
max_over_time(prometheus_remote_storage_shards_max[5m]) )
```

### Time Period

15m

**Severity**  
warning

**Source**  
environments/infra

## EnvPrometheusPrometheusRuleFailures

Reference information for EnvPrometheusPrometheusRuleFailures used as part of Pulse in CDP PVC Data Services.

**Summary**  
Prometheus is failing rule evaluations.

**PromQL Expression**

`increase(prometheus_rule_evaluation_failures_total[5m]) > 0`

**Time Period**

15m

**Severity**  
critical

**Source**  
environments/infra

## EnvPrometheusMissingRuleEvaluations

Reference information for EnvPrometheusMissingRuleEvaluations used as part of Pulse in CDP PVC Data Services.

**Summary**  
Prometheus is missing rule evaluations due to slow rule group evaluation.

**PromQL Expression**

`increase(prometheus_rule_group_iterations_missed_total[5m]) > 0`

**Time Period**

15m

**Severity**  
warning

**Source**  
environments/infra

## EnvPrometheusTargetLimitHit

Reference information for EnvPrometheusTargetLimitHit used as part of Pulse in CDP PVC Data Services.

**Summary**  
Prometheus has dropped targets because some scrape configs have exceeded the targets limit.

**PromQL Expression**

`increase(prometheus_target_scrape_pool_exceeded_target_limit_total[5m]) > 0`

**Time Period**

15m

**Severity**  
warning

**Source**  
environments/infra

## EnvPrometheusLabelLimitHit

Reference information for EnvPrometheusLabelLimitHit used as part of Pulse in CDP PVC Data Services.

**Summary**

Prometheus has dropped targets because some scrape configs have exceeded the labels limit.

**PromQL Expression**

`increase(prometheus_target_scrape_pool_exceeded_label_limits_total[5m]) > 0`

**Time Period**

15m

**Severity**  
warning

**Source**  
environments/infra

## EnvPrometheusScrapeBodySizeLimitHit

Reference information for EnvPrometheusScrapeBodySizeLimitHit used as part of Pulse in CDP PVC Data Services.

**Summary**

Prometheus has dropped some targets that exceeded body size limit.

**PromQL Expression**

`increase(prometheus_target_scrapes_exceeded_body_size_limit_total[5m]) > 0`

**Time Period**

15m

**Severity**  
warning

**Source**  
environments/infra

## EnvPrometheusScrapeSampleLimitHit

Reference information for EnvPrometheusScrapeSampleLimitHit used as part of Pulse in CDP PVC Data Services.

**Summary**

Prometheus has failed scrapes that have exceeded the configured sample limit.

**PromQL Expression**

`increase(prometheus_target_scrapes_exceeded_sample_limit_total[5m]) > 0`

**Time Period**

15m

**Severity**

warning

**Source**

environments/infra

## EnvPrometheusTargetSyncFailure

Reference information for EnvPrometheusTargetSyncFailure used as part of Pulse in CDP PVC Data Services.

**Summary**

Prometheus has failed to sync targets.

**PromQL Expression**

$$\text{increase}(\text{prometheus\_target\_sync\_failed\_total}[30m]) > 0$$
**Time Period**

5m

**Severity**

critical

**Source**

environments/infra

## KubePodCrashLooping

Reference information for KubePodCrashLooping used as part of Pulse in CDP PVC Data Services.

**Summary**

Pod is crash looping.

**PromQL Expression**

$$\text{rate}(\text{kube\_pod\_container\_status\_restarts\_total}\{\text{component}=\text{"kube-state-metrics"}, \text{appType}=\{\{\$app.code\}\}\}[15m]) > 0$$
**Time Period**

15m

**Severity**

critical

**Source**

environments/\{\{\$app.code\}\}

## KubePodNotReady

Reference information for KubePodNotReady used as part of Pulse in CDP PVC Data Services.

**Summary**

Pod has been in a non-ready state for more than 15 minutes.

**PromQL Expression**

$$\text{sum by}(\text{namespace}, \text{pod}, \text{appType}, \text{appId}, \text{appName}, \text{workloadId}) (\text{max by}(\text{namespace}, \text{pod}, \text{owner\_kind}, \text{appType}, \text{appId}, \text{appName}, \text{workloadId}) (\text{kube\_pod\_status\_phase}\{\text{component}=\text{"kube-state-metrics"}, \text{phase}=\sim\text{"Pending|Unknown"}, \text{appType}=\{\{\$app.code\}\}\}) * \text{on}(\text{namespace},$$

```
pod) group_left(owner_kind) max by(namespace, pod, owner_kind, appType, appId, appName, workloadId) (kube_pod_owner{owner_kind!="Job",appType="{{ $app.code }}}") > 0
```

**Time Period**

15m

**Severity**

critical

**Source**

environments/{{ \$app.code }}

## KubeDeploymentGenerationMismatch

Reference information for KubeDeploymentGenerationMismatch used as part of Pulse in CDP PVC Data Services.

**Summary**

Deployment generation mismatch due to possible roll-back

**PromQL Expression**

```
cube_deployment_status_observed_generation{component="kube-state-metrics",appType="{{ $app.code }}}" != cube_deployment_metadata_generation{component="kube-state-metrics",appType="{{ $app.code }}}"
```

**Time Period**

15m

**Severity**

critical

**Source**

environments/{{ \$app.code }}

## KubeDeploymentReplicasMismatch

Reference information for KubeDeploymentReplicasMismatch used as part of Pulse in CDP PVC Data Services.

**Summary**

Deployment has not matched the expected number of replicas.

**PromQL Expression**

```
( kube_deployment_spec_replicas{component="kube-state-metrics",appType="{{ $app.code }}}" != kube_deployment_status_replicas_available{component="kube-state-metrics",appType="{{ $app.code }}}" ) and ( changes(kube_deployment_status_replicas_updated{component="kube-state-metrics",appType="{{ $app.code }}}}[5m]) == 0 )
```

**Time Period**

15m

**Severity**

critical

**Source**

environments/{{ \$app.code }}

## KubeStatefulSetReplicasMismatch

Reference information for KubeStatefulSetReplicasMismatch used as part of Pulse in CDP PVC Data Services.

**Summary**

Deployment has not matched the expected number of replicas.

**PromQL Expression**

```
( kube_statefulset_status_replicas_ready{component="kube-state-metrics",appType="{{ $app.code }}" } != kube_statefulset_status_replicas{component="kube-state-metrics",appType="{{ $app.code }}" } ) and  
( changes(kube_statefulset_status_replicas_updated{component="kube-state-metrics",appType="{{ $app.code }}" } )[5m] == 0 )
```

**Time Period**

15m

**Severity**

critical

**Source**

environments/{{ \$app.code }}

## KubeStatefulSetGenerationMismatch

Reference information for KubeStatefulSetGenerationMismatch used as part of Pulse in CDP PVC Data Services.

**Summary**

StatefulSet generation mismatch due to possible roll-back

**PromQL Expression**

```
 kube_statefulset_status_observed_generation{component="kube-state-metrics",appType="{{ $app.code }}" } !=  
 kube_statefulset_metadata_generation{component="kube-state-metrics",appType="{{ $app.code }}" }
```

**Time Period**

15m

**Severity**

critical

**Source**

environments/{{ \$app.code }}

## KubeStatefulSetUpdateNotRolledOut

Reference information for KubeStatefulSetUpdateNotRolledOut used as part of Pulse in CDP PVC Data Services.

**Summary**

StatefulSet update has not been rolled out.

**PromQL Expression**

```
max without (revision) ( kube_statefulset_status_current_revision{component="kube-state-metrics",appType="{{ $app.code }}" } ) unless  
 kube_statefulset_status_update_revision{component="kube-state-
```

```
metrics",appType="{{ $app.code }}"} ) * ( kube_statefulset_replicas{component="kube-state-
metrics",appType="{{ $app.code }}"} != kube_statefulset_status_replicas_updated{component="kube-state-
metrics",appType="{{ $app.code }}"} )
```

**Time Period**

15m

**Severity**

critical

**Source**

environments/{{ \$app.code }}

## KubeDaemonSetRolloutStuck

Reference information for KubeDaemonSetRolloutStuck used as part of Pulse in CDP PVC Data Services.

**Summary**

DaemonSet rollout is stuck.

**PromQL Expression**

```
kube_daemonset_status_number_ready{component="kube-state-
metrics",appType="{{ $app.code }}"} /
kube_daemonset_status_desired_number_scheduled{component="kube-state-
metrics",appType="{{ $app.code }}"} < 1.00
```

**Time Period**

15m

**Severity**

critical

**Source**

environments/{{ \$app.code }}

## KubeContainerWaiting

Reference information for KubeContainerWaiting used as part of Pulse in CDP PVC Data Services.

**Summary**

Pod container waiting longer than 1 hour

**PromQL Expression**

```
sum by (namespace, pod, container, appType, appId, appName, workloadId)
(kube_pod_container_status_waiting_reason{component="kube-state-
metrics",appType="{{ $app.code }}}) > 0
```

**Time Period**

1h

**Severity**

critical

**Source**

environments/{{ \$app.code }}

## KubeDaemonSetNotScheduled

Reference information for KubeDaemonSetNotScheduled used as part of Pulse in CDP PVC Data Services.

### Summary

DaemonSet pods are not scheduled.

### PromQL Expression

```
kube_daemonset_status_desired_number_scheduled{component="kube-state-metrics",appType="{{ $app.code }}"} - kube_daemonset_status_current_number_scheduled{component="kube-state-metrics",appType="{{ $app.code }}} > 0
```

### Time Period

10m

### Severity

critical

### Source

environments/{{ \$app.code }}

## KubeDaemonSetMisScheduled

Reference information for KubeDaemonSetMisScheduled used as part of Pulse in CDP PVC Data Services.

### Summary

DaemonSet pods are misscheduled.

### PromQL Expression

```
kube_daemonset_status_number_misscheduled{component="kube-state-metrics",appType="{{ $app.code }}} > 0
```

### Time Period

15m

### Severity

critical

### Source

environments/{{ \$app.code }}

## KubeCronJobRunning

Reference information for KubeCronJobRunning used as part of Pulse in CDP PVC Data Services.

### Summary

CronJob did not complete in time

### PromQL Expression

```
time() - kube_cronjob_next_schedule_time{component="kube-state-metrics",appType="{{ $app.code }}} > 3600
```

### Time Period

1h

**Severity**

critical

**Source**

environments/{{ \$app.code }}

## KubeJobCompletion

Reference information for KubeJobCompletion used as part of Pulse in CDP PVC Data Services.

**Summary**

Job did not complete in time

**PromQL Expression**

```
kube_job_spec_completions{component="kube-state-metrics",appType="{{ $app.code }}" } - kube_job_status_succeeded{component="kube-state-metrics",appType="{{ $app.code }}" } > 0
```

**Time Period**

1h

**Severity**

critical

**Source**

environments/{{ \$app.code }}

## KubeJobFailed

Reference information for KubeJobFailed used as part of Pulse in CDP PVC Data Services.

**Summary**

Job failed to complete.

**PromQL Expression**

```
kube_job_failed{component="kube-state-metrics",appType="{{ $app.code }}" } > 0
```

**Time Period**

15m

**Severity**

critical

**Source**

environments/{{ \$app.code }}

## KubeHpaReplicasMismatch

Reference information for KubeHpaReplicasMismatch used as part of Pulse in CDP PVC Data Services.

**Summary**

HPA has not matched desired number of replicas.

**PromQL Expression**

```
(kube_horizontalpodautoscaler_status_desired_replicas{component="kube-state-metrics",appType="{{ $app.code }}" } != kube_horizontalpodautoscaler_status_current_replicas{component="kube-state-
```

```
metrics",appType="{{ $app.code }}"}) and
changes(kube_horizontalpodautoscaler_status_current_replicas{appType="{{ $app.code }}"})
[15m]) == 0
```

**Time Period**

15m

**Severity**

critical

**Source**

environments/{{ \$app.code }}

## KubeHpaMaxedOut

Reference information for KubeHpaMaxedOut used as part of Pulse in CDP PVC Data Services.

**Summary**

HPA is running at max replicas

**PromQL Expression**

```
kube_horizontalpodautoscaler_status_current_replicas{component="kube-state-
metrics",appType="{{ $app.code }}} ==
kube_horizontalpodautoscaler_spec_max_replicas{component="kube-state-
metrics",appType="{{ $app.code }}}}
```

**Time Period**

15m

**Severity**

critical

**Source**

environments/{{ \$app.code }}

## KubeQuotaExceeded

Reference information for KubeQuotaExceeded used as part of Pulse in CDP PVC Data Services.

**Summary**

Namespace quota has exceeded the limits.

**PromQL Expression**

```
kube_resourcequota{component="kube-state-metrics", type="used",appType="{{ $app.code }}} / 
ignoring(instance, job, type) (kube_resourcequota{component="kube-state-metrics",
type="hard",appType="{{ $app.code }}} > 0) > 0.90
```

**Time Period**

15m

**Severity**

critical

**Source**

environments/{{ \$app.code }}