⚠ A translation for your language preference does not exist.

The node in a degraded state because of the use of a deleted machineconfig: machineconfig.machineconfiguration.openshift.io; rendered-$[custom-machine-config] not found in OpenShift 4.x

SOLUTION 已验证 - 已更新 2022年十月11日06:14 - English

环境

- Openshift Container Platform (OCP)
  - 4.X
- RHCOS/RHEL 8.

问题

- Assigning a `machineConfigPool` to a node and then deleting by accident the `machineConfig` in use will put the node in a loopback trying to render the deleted `machineConfig` . It will cause discrepancies with the existing `machineConfigPool` to be in a degraded state.
- Deletion of a rendered `machineConfig` in use should never be done since it will lead to a degraded status of the node associated.
- The only other reason to lose a rendered config is a drift during install between the bootstrap and master generation.

决议

The node annotation `machineconfiguration.openshift.io/desiredConfig` is generated by the `machine-config-controller` , and there is no way to "update" it other than having the controller re-render manually(`rendered-config-xxx` describes the state of a system). The `machine-config-controller` is not able to understand what the config needs to be since the `rendered-config` is an aggregate of all `machineConfigs` assigned to that node selector.

- It is needed to recover the non-existent rendered-worker `machineConfig` by manually recreating it with the yaml used and resetting `machineConfig` daemon:

```
$ oc create -f $mc.yaml
$ oc debug node/$node_name -- touch /host/run/machine-config-daemon-force
```

- Apply the following in an automated way in order to have `machineconfiguration.openshift.io/currentConfig` and `machineconfiguration.openshift.io/desiredConfig` matching:

```
$ oc patch node $node_name --type merge --patch "{\"metadata\":
{\"annotations\": {\"machineconfiguration.openshift.io/currentConfig\":
\"${new_value}\"}}}"
$ oc patch node $node_name  --type merge --patch "{\"metadata\":
{\"annotations\": {\"machineconfiguration.openshift.io/desiredConfig\":
\"${new_value}\"}}}"
$ oc patch node $node_name  --type merge --patch '{"metadata": {"annotations":
{"machineconfiguration.openshift.io/reason": ""}}}'
$ oc patch node $node_name  --type merge --patch '{"metadata": {"annotations":
{"machineconfiguration.openshift.io/state": "Done"}}}'
```

- Or manually edit the node's annotation `machineconfiguration.openshift.io/currentConfig` in order to be paired up with `machineconfiguration.openshift.io/desiredConfig` by following the example, as well as the annotation `machineconfiguration.openshift.io/state` to 'Done' status while leaving `machineconfiguration.openshift.io/reason` empty:

```
$ oc edit node/$node
Annotations:
                    machineconfiguration.openshift.io/currentConfig: rendered-
worker-36f40ba3c1038c7ce5ce54f8a840a58f
                    machineconfiguration.openshift.io/desiredConfig: rendered-
worker-36f40ba3c1038c7ce5ce54f8a840a58f
                    machineconfiguration.openshift.io/reason:
                    machineconfiguration.openshift.io/state: Done
```

A reboot will be triggered(if paused spec is set to false as per `oc patch --type=merge --patch='{"spec":{"paused":false}}' machineconfigpool/$MCP_name`) and the node will come back to Ready status.

If any label was set in the node, delete the label used after the operation:

```
$ oc label node $worker-example.redhat.com node-role.kubernetes.io/$[label]-
```

根源

The node annotations `machineconfiguration.openshift.io/currentConfig` or `machineconfiguration.openshift.io/desiredConfig` point to a `machineConfig` that no longer exists, and the `machine-config-operator` can not process that request.

诊断步骤

- The following message indicates that the machine config rendered used is not found.

```
$ oc get mcp -n openshift-machine-config-operator
$ oc describe mcp $x -n openshift-machine-config-operator
....
Message:               Node worker-2.example.com is reporting:
"machineconfig.machineconfiguration.openshift.io \"rendered-test-$[ID]\" not
found"
    Reason:                1 nodes are reporting degraded status on sync
....
```

- Gather the following information of the `machine-config-operator` :

```
# oc describe clusteroperator machine-config
# oc describe machineconfig -n openshift-machine-config-operator
# oc get machineconfigpool -n openshift-machine-config-operator
# oc describe machineconfigpool the-failing-pool -n openshift-machine-config-
operator
# oc describe node
```

- Gather the following logs:

```
# for POD in $(oc get po -l k8s-app=machine-config-daemon -o name | awk -F '/'
'{print $2 }'); do oc logs $POD > $POD.log; done
```

The logs will print the following message:

```
namespaces/openshift-machine-config-operator/pods/machine-config-daemon-
lrcsq/machine-config-daemon/machine-config-daemon/logs/current.log:2020-04-
06T21:09:14.588375761-04:00 E0407 01:09:14.588272 3997140 writer.go:130]
Marking Degraded due to: machineconfig.machineconfiguration.openshift.io
"rendered-test-$[ID]" not found
```

- Check the node annotations `machineconfiguration.openshift.io/currentConfig` and `machineconfiguration.openshift.io/desiredConfig` , as those needs to be the same. The following output shows a working example:

```
$ oc describe node master-0.test.com | grep -i config
                    machineconfiguration.openshift.io/currentConfig: rendered-
master-e92fca201accd77ecd32d72796a959a4
                    machineconfiguration.openshift.io/desiredConfig: rendered-
master-e92fca201accd77ecd32d72796a959a4
```

- The following would describe the issue faced on this solution, as `machineconfiguration.openshift.io/currentConfig` is not the same as `machineconfiguration.openshift.io/desiredConfig` :

```
$ oc describe node master-0.test.com | grep -i config
                    machineconfiguration.openshift.io/currentConfig: rendered-
master-asd3451243ggs4543ecd3265754g49a
                    machineconfiguration.openshift.io/desiredConfig: rendered-
master-e92fca201accd77ecd32d72796a959a4
```

- Check if it is failing by checking the `machineConfigPool` endpoint, as the `machineConfigPool` would be deleted. In this case, the one pointed under `machineconfiguration.openshift.io/currentConfig` :

```
$ curl -kv https://localhost:22623/config/$nameMCP

I0417 13:20:37.448036       1 api.go:97] Pool server requested by [::1]:32916
E0417 13:20:37.451292       1 api.go:103] couldn't get config for req:
{server}, error: could not fetch pool. err:
machineconfigpools.machineconfiguration.openshift.io "$nameMCP" not found
```

产品（第） **Red Hat OpenShift Container Platform** **类别** **Troubleshoot**

标记 **configuration** **ocp_4** **openshift**

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6 评论

SJ

COMMUNITY MEMBER

35 Points

6 August 2020 3:16 AM

Sujin Janhormkul

can we use this step for machineconfigpools worker.

回复

RED HAT OPENSHIFT

RED HAT

COMMUNITY MEMBER

79 Points

6 August 2020 6:58 AM

Lars Bohnsack

Sujin, all the examples are showing you the mcp worker! You can use this for every mcp ...

回复

MD

16 June 2021 8:25 PM

Michael DeRoy

NEWBIE

7 Points

While these steps worked in getting my cluster out of this odd inconsistent state, the question is should it ever have gotten this way? If my custom machine config is deleted and the node is marked as a worker node, why does MCO get stuck with a desired config of my (now deleted MCP). Shouldn't the desired config now be the worker MCP?

回复

NEWBIE

17 Points

30 June 2021 4:16 PM

Raj Sarvaiya

What if i don't have the original machineconfig for masters? Seems to be the case of "The only other reason to lose a rendered config is a drift during install between the bootstrap and master generation." What's the way to recover?

回复

NEWBIE

17 Points

19 July 2021 1:55 AM

Nelson Mimura Gonzalez

Working with a fresh `openshift-installer` deployment using `libvirt` and built from source, branch `release-4.8`. In my case the operator was attempting to use a `master MachineConfig` that did not exist anymore in my environment – `rendered-master-...f37`. Instead, I had a different one, `rendered-master-...ddc`. I tried the steps in this guide but one of the components still tried to check for the existence of the old `MachineConfig`, even after editing the node configuration. The solution that worked for me was actually creating a copy of the "new" one, changing its name to match the one the operator was checking, and creating it:

```
oc get mc rendered-master-41adb3126a16f994d3caee701d20ef37 -o yaml >
tmp-mc.yaml
# edit tmp-mc.yaml, change name to match the one your operator is
looking for
oc create -f tmp-mc.yaml
```

This triggered a node reboot and after a few minutes the operator finally became available.

回复

25 August 2021 6:25 AM

Toshihiko Kai

NEWBIE

7 Points

I followed this but didn't trigger a node reboot, instead I run the command below on each node to force the new mcp

```
$ oc debug node/$node_name -- touch /host/run/machine-config-daemon-force
```

After which my issue has been resolved. Thank you

回复