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# After Upgrading from OpenShift Pipelines to 1.9 the operator is no longer working due to a failing CRD conversion

🔒 SOLUTION UNVERIFIED - Updated June 12 2023 at 2:45 PM - English ▼

## Environment

- Red Hat OpenShift Pipelines 1.9

## Issue

- The tekton-controller is throwing the following messages:

```
W0223 10:50:27.142577 1 reflector.go:424]
knative.dev/pkg/controller/controller.go:732: failed to list *v1beta1.PipelineRun:
conversion webhook for tekton.dev/v1alpha1, Kind=PipelineRun failed: conversion not
supported for type [kind=PipelineRun group=tekton.dev version=v1alpha1]
```

- tektoninstallerset shows the following error:

```
Install failed with message: CustomResourceDefinition.apiextensions.k8s.io
"clustertasks.tekton.dev" is invalid: status.storedVersions[0]: Invalid value:
"v1alpha1": must appear in spec.versions
```

## Resolution

Red Hat is aware about the problem and investigating a potential solution in SRVKP-2935. To raise questions or obtain further information, contact Red Hat Technical Support.

## Workaround 1

Removing `v1alpha1` from the respective `storedVersions` in the `CustomResourceDefinition` (CRD) using the below patch should prevent the situation from happening and thus allow a successful upgrade to Red Hat OpenShift Pipelines 1.9

```
for object in tasks pipelines taskruns pipelineruns clustertasks; do
    INDEX=$(kubectl get crd ${object}.tekton.dev -o json | jq
'.status.storedVersions | map(. == "v1alpha1") | index(true)')
    kubectl patch crd ${object}.tekton.dev --subresource='status' --type=json -
p="[{ 'op': 'remove', 'path': '/status/storedVersions/$INDEX' }]"
done
```

## Workaround 2

**NOT RECOMMENDED** workaround to remove all the Tekton related `v1alpha1` resources from etcd:

```
ETCD=$(oc get pods -n openshift-etcd -l app=etcd --field-
selector="status.phase==Running" -o jsonpath="{.items[0].metadata.name}")

oc exec -n openshift-etcd $ETCD -c etcdctl -- etcdctl get / --prefix --keys-only |
grep "kubernetes.io/tekton.dev" | while read KEY; do apiVersion=$(oc exec -n
openshift-etcd $ETCD -c etcdctl -- sh -c "etcdctl get $KEY --print-value-only" | jq
'select(.apiVersion | contains ("alpha")).apiVersion' -r ) && if [ "$apiVersion" =
"tekton.dev/v1alpha1" ]; then oc exec -n openshift-etcd $ETCD -c etcdctl -- etcdctl
del $KEY; fi; done
```

## Private Notes (Red Hat Internal)



- Check SRVKP-2989 for details about the solution and possible work-around that should be applied before the upgrade is started.

## Diagnostic Steps

- After the Red Hat OpenShift Pipelines 1.9 update seems completed, check the `TektonInstallerSet` using the below command to see whether all components have been successfully updated or are stuck with the message reported.

```
$ oc get tektoninstallerset
```

NAME	READY	REASON
addon-custom-clustertask-6dbvm	True	
addon-custom-communityclustertask-m2lcs	True	
addon-custom-consolecli-6z4wr	True	
addon-custom-openshiftconsole-xn52r	True	
addon-custom-pipelinstemplate-jfndf	True	
addon-custom-triggersresources-rwdx2	True	
addon-versioned-clustertasks-1-6-wk92v	True	
addon-versioned-clustertasks-1-7-fdnlg	True	
addon-versioned-clustertasks-1-8-wlvtv	True	
addon-versioned-clustertasks-1.9-vwf2h	True	
pipeline-main-deployment-tzd7h	False	Webhook: requeue after: 10s
pipeline-main-static-mqxm2	False	Install failed with message: CustomResourceDefinition.apiextensions.k8s.io "clustertasks.tekton.dev" is invalid: status.storedVersions[0]: Invalid value: "v1alpha1": must appear in spec.versions
pipeline-pre-blv9p	True	
rhosp-rbac-pcprw	True	
trigger-main-deployment-7qf4q	True	
trigger-main-static-x86zw	True	
validating-mutating-webhook-1t5h8	True	

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