

istio升级问题记录1.2.5-1.7.3

SCM

Exported on 12/16/2020

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首先卸载1.2.5

可以直接删除命名空间istio-system

或者使用helm delete istio-init 和 istio。

删除后需要确认crd资源已经删除了：kubectl get crd |grep istio|wc -l

① 无法删除命名空间状态一直为Terminating

可能遇到的问题

无法删除命名空间，状态一直为Terminating

解决办法：

1.获取json文件

```
kubectl get namespace istio-system -o json >ns.json
```

删除字段spec和finalizers这两个字段包含的内容。

```
[root@VM_131_230_centos istio-1.7.3]# cat ns.json
{
    "apiVersion": "v1",
    "kind": "Namespace",
    "metadata": {
        "creationTimestamp": "2020-10-07T19:36:30Z",
        "deletionTimestamp": "2020-10-07T19:42:41Z",
        "labels": {
            "istio-injection": "disabled"
        },
        "name": "istio-system",
        "resourceVersion": "85346241",
        "selfLink": "/api/v1/namespaces/istio-system",
        "uid": "06a8835b-70c1-487a-bfb5-a32fdf4f794d"
    },
    "spec": {
        "finalizers": [
        ]
    },
    "status": {
        "conditions": [

```

2.开启集群apiserver代理

```
kubectl proxy --port=8081
```

```
3.curl -k -H "Content-Type: application/json" -X PUT --data-binary @ns.json http://127.0.0.1:8081/api/v1/namespaces/istio-system/finalize
```

安装1.7.3

按照官方文档安装 <https://istio.io/latest/zh/docs/setup/install/istioctl/#generate-a-manifest-before-installation>

```
istioctl manifest install --set addonComponents.grafana.enabled=true --set addonComponents.kiali.enabled=true
--set addonComponents.tracing.enabled=true --set addonComponents.prometheus.enabled=true
```

使用参数安装非核心组件时会提示你 use the samples/addons/ deployments instead

验证安装

```
istioctl manifest generate --set addonComponents.grafana.enabled=true --set
addonComponents.kiali.enabled=true --set addonComponents.tracing.enabled=true --set
addonComponents.prometheus.enabled=true >test.yaml
```

```
[root@VM_131_230_centos istio-1.7.3]# istioctl verify-install -f test.yaml
CustomResourceDefinition: adapters.config.istio.io.default checked successfully
CustomResourceDefinition: attributemanifests.config.istio.io.default checked successfully
CustomResourceDefinition: authorizationpolicies.security.istio.io.default checked successfully
CustomResourceDefinition: destinationrules.networking.istio.io.default checked successfully
CustomResourceDefinition: envoyfilters.networking.istio.io.default checked successfully
CustomResourceDefinition: gateways.networking.istio.io.default checked successfully
CustomResourceDefinition: handlers.config.istio.io.default checked successfully
CustomResourceDefinition: httpapispecbindings.config.istio.io.default checked successfully
CustomResourceDefinition: httpapispecs.config.istio.io.default checked successfully
CustomResourceDefinition: instances.config.istio.io.default checked successfully
Error: Istio installation failed, incomplete or does not match "test.yaml" - the required CustomResourceDefinition:istiooperators.install.istio.io is not ready due to: the server could not find the requested resource
```

安装失败的话重新安装即可，重新执行安装命令也无法成功的话就清理命令空间和crd，然后再重新安装。

安装operator

```
[root@VM_131_230_centos helm]# istioctl operator init
Using operator Deployment image: docker.io/istio/operator:1.7.3
✓ Istio operator installed
✓ Installation complete
```

遗留问题

helm无法使用了， gateway无法创建，使用kubectl可以创建成功，可能是helm的API问题。有待后续分析。

Console Output

Progress

```
Started by user dongyupu
[EnvInject] - Loading node environment variables.
Building remotely on helm-install (helm) in workspace /usr/local/tomcat/Jenkins_workspace/workspace/jenkins-k8s
[jenkins-k8s] $ /bin/sh -xe /tmp/jenkins6241051819979118260.sh
+ helm package jenkins --version 31
Successfully packaged chart and saved it to: /usr/local/tomcat/Jenkins_workspace/workspace/jenkins-k8s/jenkins-31.tgz
+ helm delete --purge jenkins
release 'jenkins' deleted
+ sleep 30
+ helm upgrade --install --wait --timeout 600 --recreate-pods --namespace atlassian jenkins --version jenkins-31 http://172.16.131.230:8879/charts/jenkins-31.tgz
Release "jenkins" does not exist. Installing it now.
Error: release jenkins failed: the server could not find the requested resource (post gateways.networking.istio.io)
Build step 'Execute shell' marked build as failure
Finished: FAILURE
```

2020.10.19

helm版本升级到3.3.4，可以成功创建istio crd资源gateway和VirtualService

后续问题， helm3 无法从helm2的repo server下载chart，后续跟进处理。