<> Code   ⊙ **Issues** 511   ⌥ Pull requests 59   📖 Wiki   ⚠ Security 9   ⌁ Insights

New issue   Jump to bottom

Internal error occurred: failed calling admission webhook "pilot.validation.istio.io" #17162

⊘ Closed   **xiaozhongliu** opened this issue on Sep 18, 2019 · 10 comments

Labels   area/config   area/environments   **kind/need more info**

---

xiaozhongliu commented on Sep 18, 2019 • edited ▾

Bug description
Cannot apply some configs after upgrading istio from 1.1.8 to 1.2.5 with the following error:
Error from server (InternalError): error when creating "src/script/istio-config/isolated-gateway.yml":
Internal error occurred: failed calling admission webhook "pilot.validation.istio.io": Post https://istio-galley.istio-system.svc:443/admitpilot?timeout=30s: dial tcp 172.22.0.246:443: connect: connection refused

I checked the galley pod and find it's not listening on 443:

```
~ k exec -it istio-galley-5b87c47669-hfgwn sh
# netstat -nltp
Active Internet connections (only servers)
Proto Recv-Q Send-Q Local Address           Foreign Address         State
PID/Program name
tcp       0      0 127.0.0.1:9876          0.0.0.0:*               LISTEN
1/galley
tcp6      0      0 :::15014                :::*                    LISTEN
1/galley
tcp6      0      0 :::9901                 :::*                    LISTEN
1/galley
```

Affected product area (please put an X in all that apply)

[ ] Networking
[ ] Performance and Scalability
[ ] Policies and Telemetry
[ ] Security
[X] Test and Release
[ ] User Experience
[X] Developer Infrastructure

Expected behavior
Can apply all kinds of configs normally.

Steps to reproduce the bug
It's hard to provide.

Version (include the output of `istioctl version --remote` and `kubectl version`)

```
~ istioctl version --remote
client version: 1.2.5
grafana version:
grafana version:
citadel version: 1.2.5
galley version: 1.2.5
ingressgateway version: 1.2.5
pilot version: 1.2.5
pilot-gateway version:
policy version: 1.2.5
policy-gateway version:
sidecar-injector version: 1.2.5
telemetry version: 1.2.5
telemetry-gateway version:
kiali version:
prometheus version:
```

```
~ kubectl version
Client Version: version.Info{Major:"1", Minor:"13", GitVersion:"v1.13.1",
GitCommit:"eec55b9ba98609a46fee712359c7b5b365bdd920", GitTreeState:"clean",
BuildDate:"2018-12-13T19:44:19Z", GoVersion:"go1.11.2", Compiler:"gc",
Platform:"darwin/amd64"}
Server Version: version.Info{Major:"1", Minor:"12+", GitVersion:"v1.12.6-aliyun.1",
GitCommit:"8cb561c", GitTreeState:"", BuildDate:"2019-05-23T11:28:17Z",
GoVersion:"go1.10.8", Compiler:"gc", Platform:"linux/amd64"}
```

How was Istio installed?
Aliyun ACK, Operator

Environment where bug was observed (cloud vendor, OS, etc)
Aliyun ACK, CentOS 7

howardjohn commented on Sep 18, 2019

Interesting, can you provide some more info like `kubectl logs galley`, `kubectl get pod galley -oyaml`

xiaozhongliu commented on Sep 18, 2019 • edited ▾

```
 2   2019-09-16T11:45:40.541946Z error   mcp MCP: connection {addr=172.22.0.235:47798 id=2}: TERMINATED with errors: rpc error: code = Canceled desc = context canceled
 3   2019-09-17T02:22:56.538592Z error   mcp MCP: connection {addr=172.22.0.22:59094 id=7}: TERMINATED with errors: rpc error: code = Canceled desc = context canceled
 4   2019-09-17T02:22:56.538802Z info    transport: loopyWriter.run returning. connection error: desc = "transport is closing"
 5   2019-09-17T02:22:56.635426Z info    transport: loopyWriter.run returning. connection error: desc = "transport is closing"
 6   2019-09-17T02:22:56.635483Z error   mcp MCP: connection {addr=172.22.0.20:47198 id=6}: TERMINATED with errors: rpc error: code = Canceled desc = context canceled
 7   2019-09-17T02:22:56.727389Z info    transport: loopyWriter.run returning. connection error: desc = "transport is closing"
 8   2019-09-17T02:22:56.727417Z error   mcp MCP: connection {addr=172.22.0.23:56108 id=5}: TERMINATED with errors: rpc error: code = Canceled desc = context canceled
 9   [isolated-hz:istio-system]➜ ~
```

```
 Untitled-2 ●
 1   [root@iZbp15c6fs936ktol26julZ ~]# k logs istio-galley-7c5f8967b6-5q9wv|grep err
 2   2019-09-05T23:51:55.958320Z info    transport: loopyWriter.run returning. connection error: desc = "transport is closing"
 3   2019-09-05T23:51:55.958368Z info    mcp MCP: connection {addr=172.20.4.207:54078 id=19441}: TERMINATED "rpc error: code = Canceled desc = context canceled"
 4   2019-09-05T23:59:36.419721Z info    mcp MCP: connection {addr=172.20.2.98:60846 id=19442}: TERMINATED "rpc error: code = Canceled desc = context canceled"
 5   2019-09-06T00:03:56.423925Z info    mcp MCP: connection {addr=172.20.2.98:34452 id=19443}: TERMINATED "rpc error: code = Canceled desc = context canceled"
 6   2019-09-06T00:07:57.118945Z info    transport: loopyWriter.run returning. connection error: desc = "transport is closing"
 7   2019-09-06T00:07:57.118990Z info    mcp MCP: connection {addr=172.20.3.231:38690 id=19415}: TERMINATED "rpc error: code = Canceled desc = context canceled"
 8   2019-09-06T00:07:57.829990Z info    mcp MCP: connection {addr=172.20.2.98:37612 id=19444}: TERMINATED "rpc error: code = Canceled desc = context canceled"
 9   2019-09-06T00:07:57.830047Z info    transport: loopyWriter.run returning. connection error: desc = "transport is closing"
10   2019-09-06T00:14:38.748362Z info    mcp MCP: connection {addr=172.20.2.99:58034 id=19445}: TERMINATED "rpc error: code = Canceled desc = context canceled"
11   2019-09-06T00:18:58.751815Z info    mcp MCP: connection {addr=172.20.2.99:59274 id=19446}: TERMINATED "rpc error: code = Canceled desc = context canceled"
12   ^C
13   [root@iZbp15c6fs936ktol26julZ ~]#
```

Seems no clue.

And the yaml:

```
~ k get po/istio-galley-5b87c47669-hfgwn -oyaml
apiVersion: v1
kind: Pod
metadata:
  annotations:
    scheduler.alpha.kubernetes.io/critical-pod: ""
    sidecar.istio.io/inject: "false"
  creationTimestamp: "2019-09-16T11:11:28Z"
  generateName: istio-galley-5b87c47669-
  labels:
    app: istio-galley
    istio: galley
    pod-template-hash: 5b87c47669
  name: istio-galley-5b87c47669-hfgwn
  namespace: istio-system
  ownerReferences:
  - apiVersion: apps/v1
    blockOwnerDeletion: true
    controller: true
    kind: ReplicaSet
    name: istio-galley-5b87c47669
    uid: 8c1aa0f3-d85c-11e9-9eeb-86acd481b704
  resourceVersion: "1074702418"
  selfLink: /api/v1/namespaces/istio-system/pods/istio-galley-5b87c47669-hfgwn
  uid: bab28e34-d872-11e9-9eeb-86acd481b704
spec:
  containers:
  - args:
    - server
    - --meshConfigFile=/etc/mesh-config/mesh
    - --livenessProbeInterval=1s
    - --livenessProbePath=/healthliveness
    - --readinessProbePath=/healthready
    - --readinessProbeInterval=1s
    - --deployment-namespace=istio-system
    - --validation-webhook-config-file
    - /etc/config/validatingwebhookconfiguration.yaml
```

```
                            enable-validation=false
            command:
            - /usr/local/bin/galley
            image: registry.cn-hangzhou.aliyuncs.com/aliacs-app-catalog/galley:1.2.5
            imagePullPolicy: IfNotPresent
            livenessProbe:
              exec:
                command:
                - /usr/local/bin/galley
                - probe
                - --probe-path=/healthliveness
                - --interval=10s
              failureThreshold: 3
              initialDelaySeconds: 5
              periodSeconds: 5
              successThreshold: 1
              timeoutSeconds: 1
            name: galley
            ports:
            - containerPort: 443
              protocol: TCP
            - containerPort: 15014
              protocol: TCP
            - containerPort: 9901
              protocol: TCP
            readinessProbe:
              exec:
                command:
                - /usr/local/bin/galley
                - probe
                - --probe-path=/healthready
                - --interval=10s
              failureThreshold: 3
              initialDelaySeconds: 5
              periodSeconds: 5
              successThreshold: 1
              timeoutSeconds: 1
            resources:
              limits:
                cpu: "2"
                memory: 2G
              requests:
                cpu: 200m
                memory: 256Mi
            terminationMessagePath: /dev/termination-log
            terminationMessagePolicy: File
            volumeMounts:
            - mountPath: /etc/certs
              name: certs
              readOnly: true
            - mountPath: /etc/config
              name: config
              readOnly: true
            - mountPath: /etc/mesh-config
              name: mesh-config
              readOnly: true
            - mountPath: /var/run/secrets/kubernetes.io/serviceaccount
```

```yaml
        nodeName: cn-hangzhou.i-bp141w3g2hh1g000Twv
        nodeSelector:
          beta.kubernetes.io/os: linux
        priority: 0
        restartPolicy: Always
        schedulerName: default-scheduler
        securityContext: {}
        serviceAccount: istio-galley-service-account
        serviceAccountName: istio-galley-service-account
        terminationGracePeriodSeconds: 30
        tolerations:
        - effect: NoExecute
          key: node.kubernetes.io/not-ready
          operator: Exists
          tolerationSeconds: 300
        - effect: NoExecute
          key: node.kubernetes.io/unreachable
          operator: Exists
          tolerationSeconds: 300
        volumes:
        - name: certs
          secret:
            defaultMode: 420
            secretName: istio.istio-galley-service-account
        - configMap:
            defaultMode: 420
            name: istio-galley-configuration
          name: config
        - configMap:
            defaultMode: 420
            name: istio
          name: mesh-config
        - name: istio-galley-service-account-token-s7dn7
          secret:
            defaultMode: 420
            secretName: istio-galley-service-account-token-s7dn7
      status:
        conditions:
        - lastProbeTime: null
          lastTransitionTime: "2019-09-16T11:11:28Z"
          status: "True"
          type: Initialized
        - lastProbeTime: null
          lastTransitionTime: "2019-09-16T11:11:35Z"
          status: "True"
          type: Ready
        - lastProbeTime: null
          lastTransitionTime: "2019-09-16T11:11:35Z"
          status: "True"
          type: ContainersReady
        - lastProbeTime: null
          lastTransitionTime: "2019-09-16T11:11:28Z"
          status: "True"
          type: PodScheduled
        containerStatuses:
        - containerID: docker://d56b7ef3e59b40a58c0adc28a479d18912a86067bd87c0e467bf0422c2311df
          image: registry.cn-hangzhou.aliyuncs.com/aliacs-app-catalog/galley:1.2.5
```

```
    ready: true
    restartCount: 0
    state:
      running:
        startedAt: "2019-09-16T11:11:30Z"
  hostIP: 172.16.151.36
  phase: Running
  podIP: 172.22.0.246
  qosClass: Burstable
  startTime: "2019-09-16T11:11:28Z"
```

howardjohn commented on Sep 18, 2019

```
  - --enable-validation=false
```
seems the culrpit

osswangxining commented on Sep 18, 2019

Yes, this is migrated from previous version which enabled the validation, but currently the configuration does not enable it while the ValidatingWebhookConfiguration resource is not removed together.

Resolution:
option 1: set --enable-validation=true
option 2: remove ValidatingWebhookConfiguration istio-galley by using kubectl

👍 5

🏷️ **howardjohn** added   kind/need more info   and removed   area/test and release   labels on Sep 19, 2019

howardjohn commented on Sep 27, 2019

This is working as intended and a fix is given above. Thanks!

howardjohn closed this as completed on Sep 27, 2019

kkasravi mentioned this issue on Oct 3, 2019

getting error when calling webhook "pilot.validation.istio.io" kubeflow/manifests#422

⊘ Closed

k8s-ci-robot pushed a commit to kubeflow/manifests that referenced this issue on Oct 11, 2019

add application overlays for pipeline (#470)   ⋯   db49649

kkasravi mentioned this issue on Oct 11, 2019

document istio workaround for 'Internal error occurred: failed calling admission webhook "pilot.validation.istio.io"' kubeflow/manifests#495

⊘ Closed

---

vhosakot commented on Dec 17, 2019

Saw the same error when installing istio `1.3.6`:

```
Error: release istio failed: Internal error occurred: failed calling webhook
"pilot.validation.istio.io": Post https://istio-galley.istio-
system.svc:443/admitpilot?timeout=30s: dial tcp 10.107.180.45:443: connect: connection
refused
```

Galley and pilot logs had the following errors:

```
$ kubectl logs istio-galley-66f5bcd4f9-ds2w9 -n=istio-system
...
2019-12-16T22:21:39.963581Z    info    validation      https handler for validation
webhook is not ready: HTTP request to https://localhost:443/ready failed: Get
https://localhost:443/ready: dial tcp 127.0.0.1:443: connect: connection refused
2019-12-16T22:21:40.052199Z    warn    validation      istio-system/istio-galley
endpoint not ready: no subsets
2019-12-16T22:21:40.600664Z    warn    validation      istio-system/istio-galley
endpoint not ready: no ready addresses
...

$ kubectl logs istio-pilot-6c94f7f575-69wbf -n=istio-system --all-containers=true
...
2019-12-16T22:21:49.974537Z    info    grpc: addrConn.createTransport failed to
connect to {istio-galley.istio-system.svc:9901 0  <nil>}. Err :connection error:
desc = "transport: Error while dialing dial tcp 10.107.180.45:9901: connect: no
route to host". Reconnecting...
2019-12-16T22:21:49.974779Z    info    pickfirstBalancer: HandleSubConnStateChange:
0xc00063f670, TRANSIENT_FAILURE
2019-12-16T22:21:49.974936Z    error   mcp     Failed to create a new MCP sink
stream: rpc error: code = Unavailable desc = all SubConns are in TransientFailure,
latest connection error: connection error: desc = "transport: Error while dialing
dial tcp 10.107.180.45:9901: connect: no route to host"
...
```

Dirk-c-Walter mentioned this issue on Feb 21, 2020

Internal error occurred: failed calling webhook "pilot.validation.istio.io": Post https://istio-galley.istio-system.svc:443/admitpilot?timeout=30s: context deadline exceeded #19916

⊘ Closed

---

shouldnotappea… commented on Mar 7, 2020

I'm using Istio `1.5.0` and still experience this issue.I replaced `flannel` with `calico` to restart the cluster to solve this problem

---

feliperfmarques mentioned this issue on Apr 16, 2020

Timeout: request did not complete from requested timeout 30s for IngressGateway and AddonComponents #22944

⊘ Closed

---

feliperfmarques commented on Apr 16, 2020

For webhook works, firewall rule needs setting to port 15017 instead of 9443 on Istio 1.5, as mentioned here #19532 (comment).

---

ashrafxcoder commented on May 5, 2020

I've upgraded from 1.0.6 up until 1.3.8 (no skip upgrades) without any issues but when I upgrade to 1.4.8 this is happening consistently.
I using helm/tiller (v2.11.0)

```
Waiting until all CRD jobs are completed
job.batch/istio-init-crd-10-1.4.8 condition met
job.batch/istio-init-crd-11-1.4.8 condition met
job.batch/istio-init-crd-14-1.4.8 condition met
Upgrading Istio charts
helm : Error: UPGRADE FAILED: failed to create resource: Internal error occurred: failed calling webhook "pilot.validation.istio.io": Post
https://istio-galley.istio-system.svc:443/admitpilot?timeout=30s: dial tcp 10.0.23.162:443: connect: connection refused
At line:1 char:1
+ helm upgrade default-istio c:\temp\istio-1.4.8\install\kubernetes\hel ...
+ ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
    + CategoryInfo          : NotSpecified: (Error: UPGRADE ...nection refused:String) [], RemoteException
    + FullyQualifiedErrorId : NativeCommandError

NAME          REVISION   UPDATED                    STATUS   CHART        APP VERSION   NAMESPACE
default-istio 9          Tue May  5 15:03:07 2020   FAILED   istio-1.4.8  1.4.8         istio-system

namespace/default not labeled
Completed in: 1.457688755 Minutes
```

Sandeep0045 commented on Aug 13, 2020

together.

Resolution:
option 1: set --enable-validation=true
option 2: remove ValidatingWebhookConfiguration istio-galley by using kubectl

can you give full cmd of option . how to use it

Assignees

No one assigned

Labels

area/config   area/environments   kind/need more info

Projects

None yet

Milestone

No milestone

Development

No branches or pull requests

9 participants