

Troubleshoot FailedGetResourceMetric Events Generated by Istiod Pods

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Introduction

This document describes how to address `FailedGetResourceMetric` events generated by istiod pods.

Problem

After deploying Subscriber Microservices Infrastructure (SMI) cluster using 2023.01 Cloud Native Deployment Platform (CNDP) release it has been noticed istiod pods keep generating `FailedGetResourceMetric` events:

```
<#root>
```

```
ccloud-user@ndce-smi-1:~$
```

```
kubectl get events -A -o yaml
```

```
apiVersion: v1
items:
- apiVersion: v1
```

```
count: 467057
```

```
  eventTime: null
  firstTimestamp: "2023-12-31T03:57:42Z"
  involvedObject:
    apiVersion: autoscaling/v2beta2
    kind: HorizontalPodAutoscaler
    name: istiod
    namespace: istio-system
    resourceVersion: "4374"
    uid: c85a05a1-b9ec-4241-8347-0b3c9eec1193
  kind: Event
  lastTimestamp: "2024-03-22T14:42:49Z"
```

```
message: 'unable to get metrics for resource cpu: unable to fetch metrics from resource
```

```
  metrics API: the server could not find the requested resource (get pods.metrics.k8s.io)'
```

```
metadata:
  creationTimestamp: "2023-12-31T03:57:42Z"
  managedFields:
  - apiVersion: v1
    fieldsType: FieldsV1
    fieldsV1:
      f:count: {}
      f:firstTimestamp: {}
      f:involvedObject:
        f:apiVersion: {}
        f:kind: {}
        f:name: {}
        f:namespace: {}
        f:resourceVersion: {}
        f:uid: {}
      f:lastTimestamp: {}
      f:message: {}
      f:reason: {}
      f:source:
        f:component: {}
        f:type: {}
    manager: kube-controller-manager
    operation: Update
    time: "2023-12-31T03:57:42Z"
  name: istiod.17a5ce7b410bceb6
  namespace: istio-system
  resourceVersion: "55452121"
  selfLink: /api/v1/namespaces/istio-system/events/istiod.17a5ce7b410bceb6
  uid: 9616bdc6-90d1-4475-b6af-6d41e185b434
```

reason: FailedGetResourceMetric

```
reportingComponent: ""
reportingInstance: ""
source:
```

component: horizontal-pod-autoscaler

```
type: Warning
kind: List
metadata:
  resourceVersion: ""
  selfLink: ""
```

Analysis

The issue appears to be due to Horizontal Pod Autoscaler (HPA) is enabled in istiod pods during the deployment. Since HPA requires Metrics API to determine CPU utilization for scaling pods up/down, and Metrics API is not currently used in CNDP managed Kubernetes cluster, then this is a design flaw in istiod deployment.

Solution

HPA has been removed starting 2023.03 CNDP release onwards.