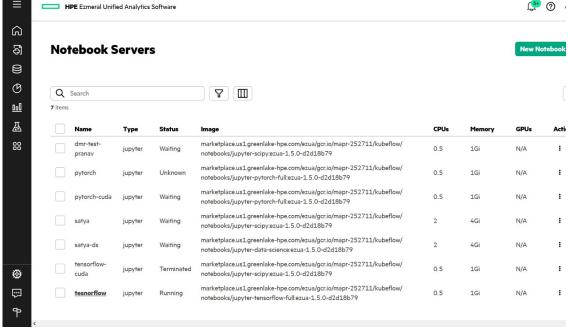
Hewlett Packard HPE Support Center Enterprise

After creating a Jupyter notebook in EZUA the notebook is inaccessible

	 After creating a new Jupyter notebook, a customer reported getting the below error when accessing the notebook: 				
Environment					
1	no healthy upstream				
	upstream connect error or disconnect/reset before headers. reset reason: remote connection failure, transport failure reason: delayed connect error: 111				
	Pods are in a continuous loop of creation and deletion:				
	∼ » kgpon euadev1-4441a814 NAME	READY	STATUS	RESTARTS	AGE
	cherry-chart-57f4674c9-hpbdq	2/2	Running	0	49d
	dmr-test-pranav-0	0/2	Terminating	0	21s
	fs-6766454dd5-659c8 list-files-and-sleep-list-files-n8l3m0yg	2/2 0/1	Running Completed	0 0	49d 10h
	list-files-and-sleep-sleep-for-1-hour-bb41e1ml	0/1	Completed	0	9h
	ml-pipeline-ui-artifact-8464898bc8-r29p7	2/2	Running	0	49d
	ml-pipeline-visualizationserver-7ccbdccf8f-zpvvk	2/2	Running	0	49d
	pytorch-0	1/2	Running	0	16s
	pytorch-cuda-0	1/2	Running	0	16s
	satya-0	0/2	Init:0/1	0	13s
	satya-ds-0	0/2	Init:0/1	0	6s
	tensorflow-cuda-0	0/2	Terminating	0	8m21s
	tesnorflow-0	2/2	Terminating	0	12s



Environment

EDF 7.8

RHEL 8.8

Cause

The notebook controller keeps updating the stateful sets, and that is why the pod is getting deleted and recreated.

```
$ kubectl logs -n kubeflow notebook-controller-deployment-69849ffcb5-67qb8 | grep awez-notebook
   grep Updating.StatefulSe | tail -n5
1.7319334984617977e+09 INFO controllers.Notebook Updating StatefulSet {"notebook": "euadev1-4441a814/awez-notebook", "namespace": "euadev1-4441a814", "name": "awez-notebook"}
4441a814/awez-notebook", "namespace": "euadev1-4441a814", "name": "awez-notebook"}
1.73193350084064e+09 INFO controllers.Notebook Updating StatefulSet {"notebook": "euadev1-4441a814/awez-notebook"}
1.7319335031596932e+09 INFO controllers.Notebook Updating StatefulSet {"notebook": "euadev1-4441a814/awez-notebook", "namespace": "euadev1-4441a814", "name": "awez-notebook"}
1.7319335057427795e+09 INFO controllers.Notebook Updating StatefulSet {"notebook": "euadev1-4441a814/awez-notebook", "namespace": "euadev1-4441a814", "name": "awez-notebook"; "euadev1-4441a814/awez-notebook", "namespace": "euadev1-4441a814", "name": "awez-notebook"}
1.7319335075301127e+09 INFO controllers.Notebook Updating StatefulSet {"notebook": "euadev1-4441a814/awez-notebook", "namespace": "euadev1-4441a814", "name": "awez-notebook"}
1.7320106843326902e+09 INFO
                                                       controllers.Notebook
                                                                                               Reconciliation loop started
{"notebook": "euadev1-4441a814/awez-notebook"}
1.7320106843327568e+09 INFO
                                                                                               Notebook labels CM Not found
                                                      controllers.Notebook
  {"configmap": "euadev1-4441a814/notebook-labels-cm"}
1.73201068433277e+09
                                      TNFO
                                                      controllers.Notebook
                                                                                               Get Labels From CM
                                                                                                                                        {"configman":
"kubeflow/notebook-labels-cm"}
1.7320106843328106e+09 INFO
                                                       controllers.Notebook
                                                                                               Updating StatefulSet
                                                                                                                                        {"notebook":
"euadev1-4441a814/awez-notebook", "namespace": "euadev1
                                                                                               -4441a814", "name": "awez-notebook"}
1.7320106846233249e+09 INFO
                                                      controllers.Notebook
                                                                                               Initializing Notebook CR Status
{"notebook": "euadev1-4441a814/awez-notebook"}
1.7320106846233547e+09 INFO
                                                       controllers.Notebook
                                                                                               Calculating Notebook's containerState
  {"notebook": "euadev1-4441a814/awez-notebook"}
1.732010684623359e+09
                                        INF0
                                                      controllers.Notebook
                                                                                               Updating Notebook CR state:
{"notebook": "euadev1-4441a814/awez-notebook", "state":
                                                                                               {"running":{"startedAt":"2024-11-
18T15:57:14Z"}}
1.7320106846233766e+09 INFO
                                                                                               Calculating Notebook's Conditions
                                                       controllers.Notebook
{"notebook": "euadev1-4441a814/awez-notebook"}
1.7320106846233816e+09 INFO
                                                      controllers.Notebook
                                                                                               Updating Notebook CR Status
1./3/8/1008402/3/81.06+09 INFO controllers.Notebook Updating Notebook
{"notebook": "euadev1-4441814/awez-notebook", "status": {"conditions": [{"type":"Initialized", "status": "True", "lastProbeTime":"2024-11-
19T10:04:44Z", "lastTransitionTime":"2024-11-18T15:57:12Z"},
{"type":"Ready", "status":"True", "lastProbeTime":"2024-11-
19T10:04:44Z", "lastTransitionTime":"2024-11-18T15:57:15Z"},
{"type":"ContainersReady", "status":"True", "lastProbeTime":"2024-11-
19T10:04:44Z", "lastTransitionTime":"2024-11-18T15:57:15Z"},
{"type":"PodScheduled", "status":"True", "lastProbeTime":"2024-11-
19T10:04:44Z", "lastTransitionTime":"2024-11-18T15:56:58Z"!] "readvRen]ii
19T10:04:44Z", "lastTransitionTime": "2024-11-18T15:56:58Z"}], "readyReplicas": 1, "containerState":
{"running":{"startedAt":"2024-11-18T15:57:14Z"}}}
Upon further checking it was found that there were two clusterpolicies in kyverno:
add-vendor-app-labels-cherry-chart
          mutate:
              patchStrategicMerge:
                 spec:
                     template:
                        metadata:
                            labels:
                               hpe-ezua/type: vendor-service
hpe-ezua-add-labels-kubeflow-user-pods
          mutate:
              patchStrategicMerge:
                 spec:
                     template:
                        metadata:
                               hpe-ezua/app: kubeflow
                               hpe-ezua/type: app-service-user
```

Resolution

Changed kyverno policy label from,

hpe-ezua/type: vendor-service

And these were "conflicting" for the hpe-ezua/type label.

hpe-ezua/type2: vendor-service

resolved the issue.

