



Hewlett Packard
Enterprise

HPE Ezmeral Runtime Enterprise 5.4 Documentation

Published: June 2022
Edition: 5.4.1

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Abstract

HPE Ezmeral Container Platform is a unified container platform built on open source Kubernetes and designed for both cloud-native applications and non-cloud-native applications running on any infrastructure either on-premises, in multiple public clouds, in a hybrid model, or at the edge.

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Validating the Kubeflow Installation

Required access rights: Platform Administrator or Cluster Administrator

When your Kubernetes cluster is ready, perform the following basic tests to validate the Kubeflow installation.

The Kubeflow dashboard link in the AI/ML tenant UI will be active after the Kubeflow service is up, which may take 10-15 minutes.

1. Run the following command on the master node to ensure that the kubeflow-installer pod has been completed.

```
kubectl get pods -n kubeflow-jobs
```

| NAME | READY | STATUS | RESTARTS | AGE |
|------------------------------|-------|-----------|----------|-----|
| dex-secret-generator-4ktlp | 0/1 | Completed | 0 | 3m |
| hpecpconfig-patch-jh5sd | 0/1 | Completed | 0 | 3m |
| kf-installer-n8dkt | 0/1 | Completed | 0 | 3m |
| minio-config-generator-k2pfk | 0/1 | Completed | 0 | 3m |

2. Confirm that the Dex config secret was created according to the authentication settings provided during cluster creation.

```
kubectl get secret dex-config-secret -n auth -o yaml
```

3. Confirm that the pods are up and running. Deployment of Kubeflow manifests may take 10-15 minutes.

```
kubectl get pods -n auth && kubectl get pods -n cert-manager && kubectl get pods -n knative-eventing && kubectl get pods -n knative-serving && kubectl get pods -n kubeflow && kubectl get pods -n kubeflow-user-example-com && kubectl get pods -n prism-ns
```

| NAME | READY | STATUS | RESTARTS | AGE |
|---|-------|---------|----------|-----|
| dex-769c444b5c-zhwx9 | 1/1 | Running | 1 | 3m |
| cert-manager-7c75b559c4-xwn7w | 1/1 | Running | 0 | 3m |
| cert-manager-cainjector-7f964fd7b5-7449m | 1/1 | Running | 3 | 3m |
| cert-manager-webhook-566dd99d6-dgxrd | 1/1 | Running | 0 | 3m |
| eventing-controller-7954cb6bf-p9jfc | 1/1 | Running | 0 | 3m |
| eventing-webhook-7756b5c89d-j7x2x | 1/1 | Running | 0 | 3m |
| imc-controller-cfbfc87f6-tr6h6 | 1/1 | Running | 0 | 3m |
| imc-dispatcher-5d5b4d7cd9-issf9 | 1/1 | Running | 0 | 3m |
| mt-broker-controller-6b495d8567-97q6s | 1/1 | Running | 0 | 3m |
| mt-broker-filter-6f5c5cc57c-kcgjt | 1/1 | Running | 0 | 3m |
| mt-broker-ingress-6fddb8568b-zhfh2 | 1/1 | Running | 0 | 3m |
| activator-7678f99c9b-qplqw | 2/2 | Running | 8 | 3m |
| autoscaler-5d76457cf8-jjvbx | 2/2 | Running | 0 | 3m |
| controller-5f4558d9f4-2869k | 1/1 | Running | 0 | 3m |
| istio-webhook-7b7f869596-vss2g | 2/2 | Running | 1 | 3m |
| networking-istio-ff8b6b5cd-qz28n | 2/2 | Running | 1 | 3m |
| webhook-5bd86464c-fblcw | 2/2 | Running | 1 | 3m |
| admission-webhook-deployment-65dcd649d8-lsd82 | 1/1 | Running | 0 | 3m |
| cache-deployer-deployment-84866455bb-m8js9 | 1/1 | Running | 0 | 3m |
| cache-server-5c98c678f8-bv6f9 | 1/1 | Running | 0 | 3m |
| centraldashboard-6557cdbfd5-7jbnd | 1/1 | Running | 0 | 3m |
| jupyter-web-app-deployment-f885d8cfb-6cssk | 1/1 | Running | 0 | 3m |
| katib-controller-596f9cf5df-cbbk5 | 1/1 | Running | 0 | 3m |
| katib-db-manager-7b95fcd979-jcjqq | 1/1 | Running | 0 | 3m |
| katib-mysql-586f79b694-vfxbf | 1/1 | Running | 0 | 3m |
| katib-ui-857d6778f8-b5ts6 | 1/1 | Running | 0 | 3m |
| kfserving-controller-manager-0 | 2/2 | Running | 0 | 3m |
| kfserving-models-web-app-67658874d7-h7kn6 | 1/1 | Running | 0 | 3m |

| | | | | |
|---|-----|---------|---|----|
| kubeflow-pipelines-profile-controller-86cdb8fb8b-xkn8l | 1/1 | Running | 0 | 3m |
| metacontroller-0 | 1/1 | Running | 0 | 3m |
| metadata-envoy-deployment-6756c995c9-lqszk | 1/1 | Running | 0 | 3m |
| metadata-grpc-deployment-7cb87744c7-k49dh | 1/1 | Running | 0 | 3m |
| metadata-writer-574df45956-jdzvq | 1/1 | Running | 0 | 3m |
| minio-655dc66f9-wzm54 | 1/1 | Running | 0 | 3m |
| minio-console-869ddd8788-68fgx | 1/1 | Running | 0 | 3m |
| ml-pipeline-659698b8bf-jpfj9 | 1/1 | Running | 0 | 3m |
| ml-pipeline-persistenceagent-ffc9cfb96-d4cn8 | 1/1 | Running | 0 | 3m |
| ml-pipeline-scheduledworkflow-6d669f9bd7-cw5f4 | 1/1 | Running | 0 | 3m |
| ml-pipeline-ui-5cb48b8d75-vzg67 | 1/1 | Running | 0 | 3m |
| ml-pipeline-viewer-crd-64dbbc8cc5-868kt | 1/1 | Running | 0 | 3m |
| ml-pipeline-visualizationserver-78bcc958cd-62sh4 | 1/1 | Running | 0 | 3m |
| mpi-operator-687bff7b67-mctxl | 1/1 | Running | 8 | 3m |
| mxnet-operator-6cffc568b7-dtn4m | 1/1 | Running | 0 | 3m |
| mysql-f7b9b7dd4-wckvl | 1/1 | Running | 0 | 3m |
| notebook-controller-deployment-659979788c-sw4m2 | 1/1 | Running | 0 | 3m |
| profiles-deployment-d44cb54d5-pg4cr | 2/2 | Running | 0 | 3m |
| pytorch-operator-5fd684795b-kdqtq | 1/1 | Running | 0 | 3m |
| seldon-controller-manager-df746d665-ktmcp | 1/1 | Running | 0 | 3m |
| tensorboard-controller-controller-manager-bc567f889-9wc7s | 2/2 | Running | 0 | 3m |
| tensorboards-web-app-deployment-5479bdb7d-k2h5t | 1/1 | Running | 0 | 3m |
| tf-job-operator-859885c8c4-7wj49 | 1/1 | Running | 0 | 3m |
| volumes-web-app-deployment-6cc4dd9df9-s8qvf | 1/1 | Running | 0 | 3m |
| workflow-controller-7b74b5964d-9kx5c | 1/1 | Running | 0 | 3m |
| xgboost-operator-deployment-c6ddb584-tfnjh | 1/1 | Running | 0 | 3m |
| ml-pipeline-ui-artifact-5d68fc6566-74z8f | 2/2 | Running | 0 | 2m |
| ml-pipeline-visualizationserver-6b46b8fbd9-qw9xn | 2/2 | Running | 0 | 2m |
| kftoken-app-6f6fd49489-9x7qw | 1/1 | Running | 0 | 3m |
| prism-76c74955bd-9tm4m | 1/1 | Running | 0 | 3m |

- Confirm that the pods in the `istio-system` namespace are up and running.

```
kubectl get pods -n istio-system
```

| NAME | READY | STATUS | RESTARTS | AGE |
|--|-------|---------|----------|-----|
| authservice-0 | 1/1 | Running | 0 | 53m |
| cluster-local-gateway-5654f5bdbb-k86x7 | 1/1 | Running | 0 | 53m |
| grafana-784c89f4cf-wht8z | 1/1 | Running | 0 | 62m |
| istio-egressgateway-7cc84b9db7-mwdpp | 1/1 | Running | 0 | 62m |
| istio-ingressgateway-67c4db88bf-2kxqf | 1/1 | Running | 0 | 62m |
| istiod-59799754d9-xw5qq | 1/1 | Running | 0 | 62m |
| jaeger-685d97b97d-bpj2q | 1/1 | Running | 0 | 62m |
| prometheus-7bfddb8dbf-qmpfh | 2/2 | Running | 0 | 62m |

Parent topic: [Kubeflow](#)