

GENESYS

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Setting up Genesys Multicloud CX Private Edition

Install Container Ingress Service (CIS)

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Learn how to install the F5 Container Ingress Services (CIS) on an OpenShift/Kubernetes cluster, as part of SBC integration with the private edition deployment on OpenShift.

Related documentation:

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RSS:

For private edition

Installing CIS using helm charts

1. Add BIG-IP credentials as Kubernetes secrets:

oc create secret generic bigip-login -n kube-system --from-literal=username=admin -from-literal=password=

2. Add the CIS chart repository in the helm using the following command:

helm repo add f5-stable https://github.com/F5Networks/k8s-bigip-ctlr

3. Create a values.yaml file as follows:

```
bigip_login_secret: bigip-login
rbac:
  create: true
serviceAccount:
  # Specifies whether a service account should be created
  create: true
  # The name of the service account to use.
  # If not set and create is true, a name is generated using the fullname template
  name: k8s-bigip-ctlr
# This namespace is where the Controller lives;
namespace: netops
args:
  # See https://clouddocs.f5.com/containers/latest/userguide/config-parameters.html
  # NOTE: helm has difficulty with values using `-`; `_` are used for naming
  # and are replaced with `-` during rendering.
  # REQUIRED Params
  bigip url: https://10.10.2.69
  bigip_partition: cisPartition
  openshift-sdn-name: /Common/openshift vxlan
  # namespaces: In the Genesys testing environment, the sip components were
  # deployed in the voice namespace and the media-servers in the gvp\
  # namespaces. This needs to be specified as needed
namespaces: ["webrtc", "gvp", "voice"]
  pool member type: cluster
  insecure: true
  agent: as3
```

```
as3-validation: false
log-as3-response: true
image:
    # Use the tag to target a specific version of the Controller
    user: f5networks
    repo: k8s-bigip-ctlr
    pullPolicy: Always
resources: {}
version: latest
```

4. Install the helm chart using the following command:

helm install -f values.yaml f5-stable/f5-bigip-ctlr

The CIS controller monitors all the pods in the namespaces. It configures the F5 using a REST API call to the management interface of the F5. You can view the FDB entries on the F5:

admin@(big-ip-01)(/Common)(tmos)# show net fdb tunnel openshift_vxlan

Net::FDB

Tunnel	Mac Address	Member	Dynamic
openshift_vxlan	0a:0a:0a:b6:00:07	endpoint:10.10.0.7%0	no
openshift_vxlan	0a:0a:0a:b6:00:08	endpoint:10.10.0.8%0	no
openshift_vxlan	0a:0a:0a:b6:00:09	endpoint:10.10.0.9%0	no
openshift_vxlan	0a:0a:0a:b6:01:0b	endpoint:10.10.1.11%0	no
openshift_vxlan	0a:0a:0a:b6:01:0d	endpoint:10.10.1.13%0	no
openshift_vxlan	0a:0a:0a:b6:01:05	endpoint:10.10.1.5%0	no
openshift_vxlan	0a:0a:0a:b6:01:06	endpoint:10.10.1.6%0	no
openshift_vxlan	0a:0a:0a:b6:01:07	endpoint:10.10.1.7%0	no
openshift_vxlan	0a:0a:0a:b6:01:08	endpoint:10.10.1.8%0	no
openshift_vxlan	0a:0a:0a:b6:01:09	endpoint:10.10.1.9%0	no