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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
```

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```
    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
```