Financial Transaction Manager Upgrade and Rollback guide for 4.0.3.0 Interim Fix 6

Overview

Purpose

This document enumerates the steps to:

1. Upgrade FTM application from 4.0.3.0 interim fix 3.1 to 4.0.3.0 interim fix 6
2. Rollback FTM application from 4.0.3.0 interim fix 6 to 4.0.3.0 interim fix 3.1

Supported Installations

The 4.0.3.0 interim fix 6 (iFix6) supports the following types of installations:

- A full (or fresh) installation on a clean system. For more information about how to do a full installation, see IBM Documentation here

- Upgrade a system that has FTM for Interac e-Transfers 4.0.3.0 interim fix 3.1 (iFix3.1) installed to the 4.0.3.0 interim fix 6 (iFix6) level.

Prerequisites

- A cluster with OCP version 4.6 or higher
- Administrator permissions for the OCP cluster
- Access to the OpenShift Console

- Mirror the images to the external environment. For more information, see
- The 4.0.3 iFix3.1 version must be installed and running on the cluster.

Versioning

Release	Channel	Operator	Operand	Supported Operands	Case
403-GA	v4.0	4.0.0	4.0.3.0	4.0.3.0	v4.0.3
403-iFix1	v4.0	4.0.1	4.0.3.0_iFix1	4.0.3.0_iFix1 & 4.0.3.0	v4.0.4
403-iFix2	v4.0	4.0.2	4.0.3.0_iFix2	4.0.3.0_iFix2 & 4.0.3.0_iFix1	v4.0.5
403-iFix3	v4.0	4.0.3	4.0.3.0_iFix3	4.0.3.0_iFix3 & 4.0.3.0_iFix2	v4.0.6
403-iFix4	v4.0	4.0.4	4.0.3.0_iFix4	4.0.3.0_iFix4 & 4.0.3.0_iFix3	v4.0.7
403-iFix3.1	v4.0	4.0.5	4.0.3.0_iFix3.1	4.0.3.0_iFix3.1 & 4.0.3.0_iFix3	v4.0.8
403-iFix6	**v4.0**	**4.0.6 (head)**	**4.0.3.0_iFix6**	**4.0.3.0_iFix6** & 4.0.3.0_iFix3.1	**v4.0.9**

Upgrade using Command Line Interface (OC-CLI)

Upgrade

Clean-up

1. Login to OpenShift as cluster administrator

```
oc login --token=<token-key> --server=<server-host-url>
```

> Logged into "" as "" using the token provided.
>
> You have access to 70 projects, the list has been suppressed. You can list all projects with 'oc projects'
>
> Using project "default".

2. Switch project

```
oc project openshift-marketplace
```

> Now using project "openshift-marketplace" on server

3. Get the catalog source

```
oc get catalogsource | grep interac
```

> ibm-ftm-interac-e-transfers-catalog grpc 12d

4. Delete the catalog source

```
oc delete catalogsource ibm-ftm-dp-interac-e-transfers-send-catalog
```

> catalogsource.operators.coreos.com "ibm-ftm-dp-interac-e-transfers-send-catalog" deleted

5. Switch project

```
oc project <working-project-name>
```

> Now using project "" on server

6. Get the instance name

```
oc get ftminteracetransferartifacts
```

> NAME AGE
> data 12m

7. Delete the artifact instance.

```
oc delete ftminteracetransferartifacts <artifact-instance-name>
```

> ftminteracetransferartifact.ftm.ibm.com "" deleted

Catalog Upgrade

Follow the below steps to upgrade catalog

1. Login to OCP cluster as cluster administrator.

```
oc login --token=<token-key> --server=<server-host-url>
```

> Logged into "" as "" using the token provided.
>
> You have access to 70 projects, the list has been suppressed. You can list all projects with 'oc projects'
>
> Using project "default".

2. Switch project to openshift-marketplace.

```
oc project openshift-marketplace
```

> Now using project "openshift-marketplace" on server

3. Update or Create the catalog source

```
cat <<EOF | oc apply -f -
apiVersion: operators.coreos.com/v1alpha1
kind: CatalogSource
metadata:
  name: ibm-operator-catalog
  namespace: openshift-marketplace
spec:
  displayName: IBM Operator Catalog
  publisher: IBM
  sourceType: grpc
  image: icr.io/cpopen/ibm-operator-catalog@sha256:<update-latest-digest-
here>
  updateStrategy:
    registryPoll:
      interval: 45m
EOF
```

> Output: catalogsource.operators.coreos.com/ibm-operator-catalog created

4. List of catalog sources

```
oc get catalogsource | grep ibm-operator-catalog
```

> NAME DISPLAY TYPE PUBLISHER
> ibm-operator-catalog IBM Operator Catalog grpc IBM

5. Switch project

```
oc project <working-project-name>
```

> Now using project "" on server

6. Get the Subscription

```
oc get subscription
```

> NAME PACKAGE SOURCE CHANNEL
> ibm-ftm-base-operator ibm-ftm-base-operator ibm-operator-catalog v4.0
> ibm-ftm-dp-operator ibm-ftm-dp-operator ibm-operator-catalog v4.0
> ibm-ftm-interac-e-transfers-operator ibm-ftm-interac-e-transfer ibm-operator-catalog v4.0
> ibm-ftm-ip-operator ibm-ftm-ip-operator ibm-operator-catalog v4.0

7. Change the source for FTM Interac-e-Transfers Operator

```
oc patch subscription ibm-ftm-interac-e-transfers-operator -p '{"spec":
{"source":"ibm-operator-catalog"}}' --type merge
```

Operator Upgrade

1. Switch to working project

```
oc project <working-project-name>
```

> Now using project "" on server

2. Get the install plans

```
oc get installplans
```

> NAME CSV APPROVAL APPROVED
> install-6vpwc ibm-ftm-dp-operator.v4.0.4 Manual false
> install-7b26j ibm-ftm-base-operator.v4.0.4 Manual false
> install-7rd4q operand-deployment-lifecycle-manager.v1.3.1 Manual false
> install-jspq7 ftminterac-e-transfers-operator.v4.0.6 Manual false
> install-r5x99 ibm-ftm-ip-operator.v4.0.4 Manual false

3. Approve the install plans

   Execute the below command for all the listed FTM Operators install plans.

```
oc patch installplan <install-plan-name> -p '{"spec":{"approved":true}}' --
type merge
```

> installplan.operators.coreos.com/ patched

4. Verify the install plans

```
oc get installplans
```

> NAME CSV APPROVAL APPROVED
> install-6vpwc ibm-ftm-dp-operator.v4.0.4 Manual true
> install-7b26j ibm-ftm-base-operator.v4.0.4 Manual true
> install-7rd4q operand-deployment-lifecycle-manager.v1.3.1 Manual true
> install-jspq7 ftminterac-e-transfers-operator.v4.0.6 Manual true
> install-r5x99 ibm-ftm-ip-operator.v4.0.4 Manual true

5. Verify the operators upgrade

```
oc get csv
```

> NAME DISPLAY
> VERSION REPLACES PHASE
> ftminterac-e-transfers-operator.v4.0.6 IBM FTM-DP-Interac e-Transfers Send 4.0.6
> ftminterac-e-transfers-operator.v4.0.6 Succeeded
>
> ibm-ftm-base-operator.v4.0.4 IBM FTM Base Operator 4.0.4
> ibm-ftm-base-operator.v4.0.6 Succeeded

> ibm-ftm-ip-operator.v4.0.4 IBM FTM IP Operator 4.0.4 ibm-ftm-ip-operator.v4.0.6 Succeeded
>
> ibm-ftm-dp-operator.v4.0.4 IBM FTM DP Operator 4.0.4 ibm-ftm-dp-operator.v4.0.6 Succeeded

Operand Upgrade

Artifact Upgrade

1. Switch project

```
oc project <working-project-name>
```

> Now using project "" on server

2. Create FTM Interac-e-Transfers Artifact Instance.

```
cat <<EOF | oc create -f -
apiVersion: ftm.ibm.com/v1
kind: FTMInteracETransferArtifact
metadata:
  name: data
  labels:
    app.kubernetes.io/instance: ftm-interac-e-transfers
    app.kubernetes.io/managed-by: IBM
    app.kubernetes.io/name: ftminterac-e-transfers-operator
spec:
  license:
    accept: true
  version: 4.0.3.0_iFix6
EOF
```

> ftminteracetransferartifact.ftm.ibm.com/data created

FTM Application Upgrade

1. Switch project

```
oc project <working-project-name>
```

> Now using project "" on server

2. Get the instance names

```
oc get ftminteracetransfers
```

> NAME AGE
> ak-dev 6h23m

3. Enable dr.mode to passive

```
oc patch ftminteracetransfers <instance-name> -p '{"spec":{"dr":{"mode":
"passive"}}}' --type merge
```

> ftminteracetransfer.ftm.ibm.com/ patched

Note: Change the **DR mode** to "**passive**" , then wait until all pods (that is the J2EE, J2SE, IBM MQ, and App Connect Enterprise pods) scale down to zero - you may need to wait up to 10 minutes for all pods to scale to zero.

Note: The artifacts and simulator pods keep running because they are not part of the disaster recovery (DR) activity.

4. Update Interac runtime instance version to 4.0.3.0_iFix6

```
oc patch ftminteracetransfers <instance-name> -p '{"spec":{"version":
"4.0.3.0_iFix6"}}' --type merge
```

> ftminteracetransfer.ftm.ibm.com/ patched

5. Enable dr.mode to active

```
oc patch ftminteracetransfers <instance-name> -p '{"spec":{"dr":{"mode":
"active"}}}' --type merge
```

> ftminteracetransfer.ftm.ibm.com/ patched

6. Get Simulators instance name

```
oc get ftminteracetransfersimulators
```

> NAME AGE
> ak-dev 6h23m

7. Update the simulator instance to version 4.0.3.0_iFix6

```
oc patch ftminteracetransfersimulators <instance-name> -p '{"spec":
{"version": "4.0.3.0_iFix6"}}' --type merge
```

8. When all of the pods scale up to 4.0.3.0_iFix6, the FTM Application upgrade is successful.

Rollback

Artifact Rollback

1. Switch project

```
oc project <working-project-name>
```

> Now using project "" on server

2. Rollback FTM Interac-e-Transfers Artifact Instance.

```
cat <<EOF | oc apply -f -
apiVersion: ftm.ibm.com/v1
kind: FTMInteracETransferArtifact
metadata:
  name: data
  labels:
    app.kubernetes.io/instance: ftm-interac-e-transfers
    app.kubernetes.io/managed-by: IBM
    app.kubernetes.io/name: ftminterac-e-transfers-operator
```

```
spec:
  license:
    accept: true
  version: 4.0.3.0_iFix3.1
EOF
```

> ftminteracetransferartifact.ftm.ibm.com/data configured

FTM Application Rollback

1. Switch project

```
oc project <working-project-name>
```

> Now using project "" on server

2. Get the instance names

```
oc get ftminteracetransfers
```

> NAME AGE
> ak-dev 6h23m

3. Enable dr.mode to passive

```
oc patch ftminteracetransfers <instance-name> -p '{"spec":{"dr":{"mode":
"passive"}}}' --type merge
```

> ftminteracetransfer.ftm.ibm.com/ patched

4. Update version to 4.0.3.0_iFix3.1

```
oc patch ftminteracetransfers <instance-name> -p '{"spec":{"version":
"4.0.3.0_iFix3.1"}}' --type merge
```

> ftminteracetransfer.ftm.ibm.com/ patched

5. Enable dr.mode to active

```
oc patch ftminteracetransfers <instance-name> -p '{"spec":{"dr":{"mode":
"active"}}}' --type merge
```

> ftminteracetransfer.ftm.ibm.com/ patched

6. Get Simulators instance name

```
oc get ftminteracetransfersimulators
```

> NAME AGE
> ak-dev 6h23m

7. Rollback the simulator instance to version 4.0.3.0_iFix3.1

```
oc patch ftminteracetransfersimulators <instance-name> -p '{"spec":
{"version": "4.0.3.0_iFix3.1"}}' --type merge
```

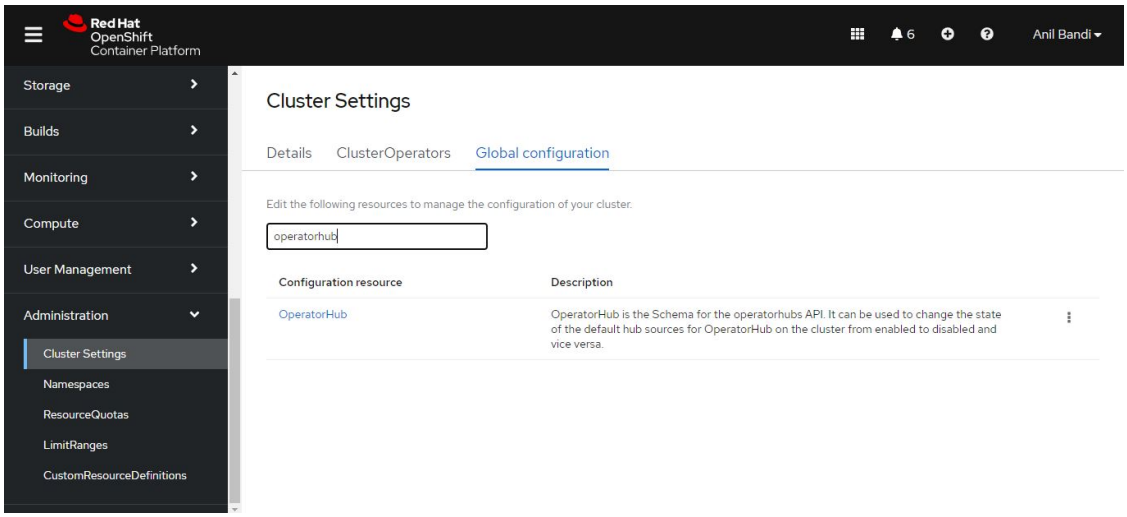
8. When all of the pods scale up to 4.0.3.0_iFix3.1, the FTM Application rollback is successful.

Upgrade using Graphical User Interface (OCP-GUI)

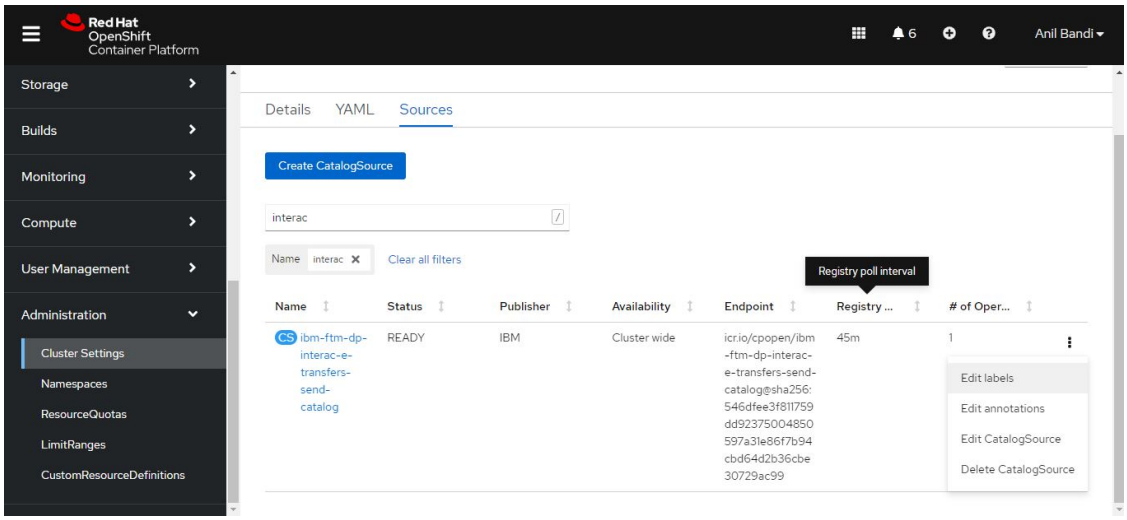
Upgrade

Clean-up

1. Log in to the OCP cluster as the cluster administrator.
2. Select Administration > Cluster Settings > Global Configuration > OperatorHub

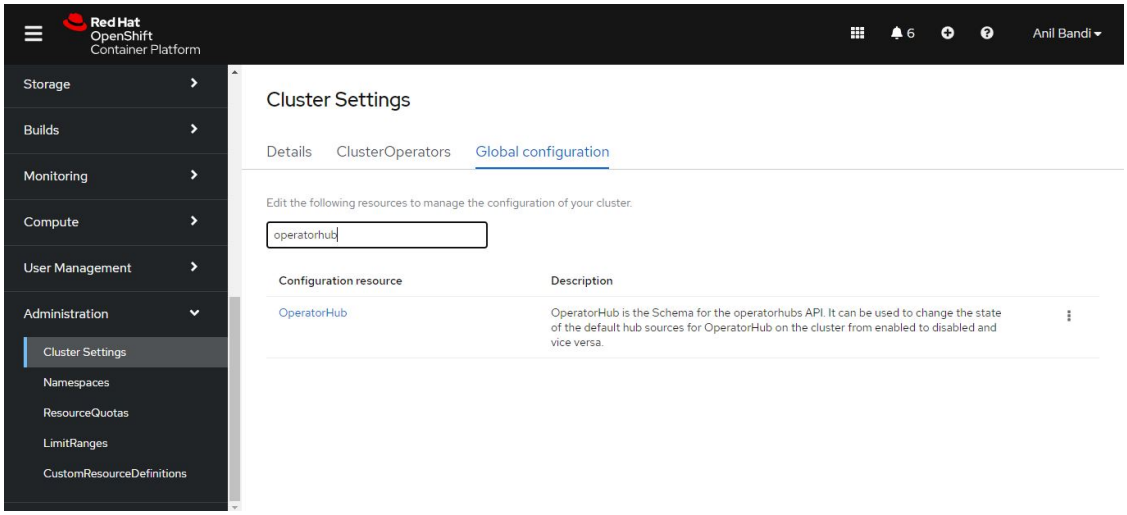


3. Click on OperatorHub > Select Sources > Search for interac >click the overflow menu > Delete CatalogSource

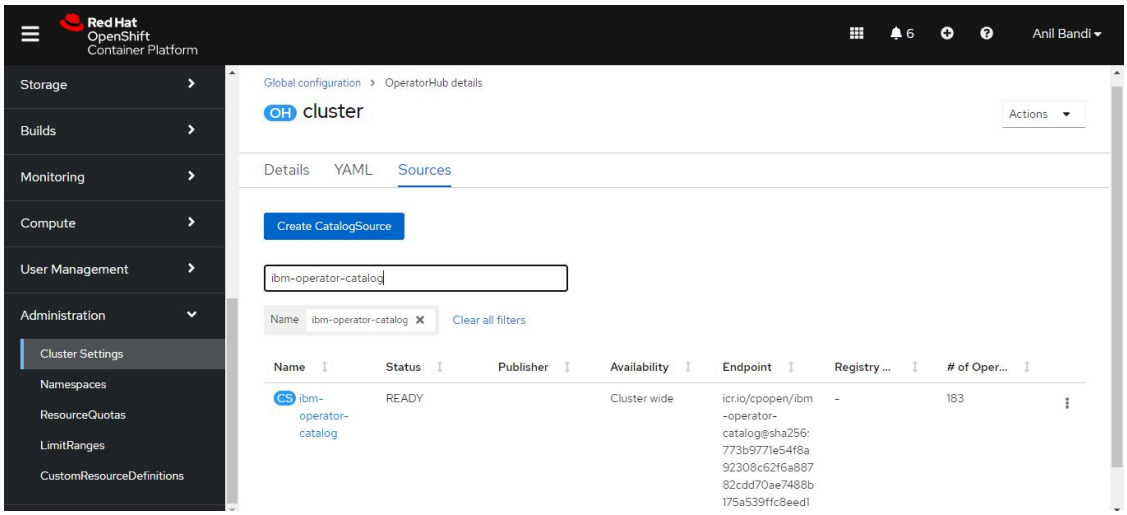


Catalog Upgrade

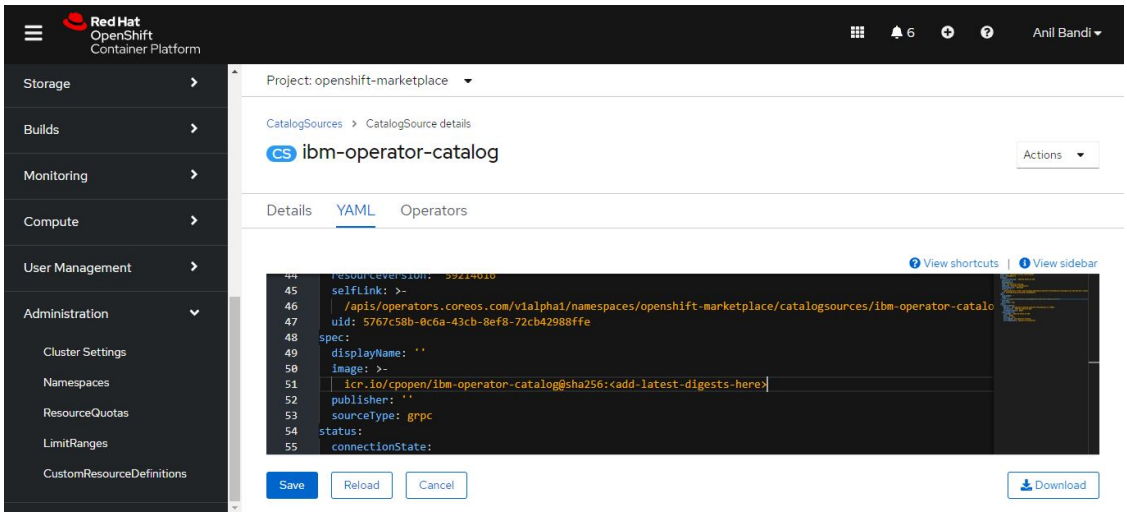
1. Log in to the OCP cluster as the cluster administrator.
2. Select Administration > Cluster Settings > Global Configuration > OperatorHub



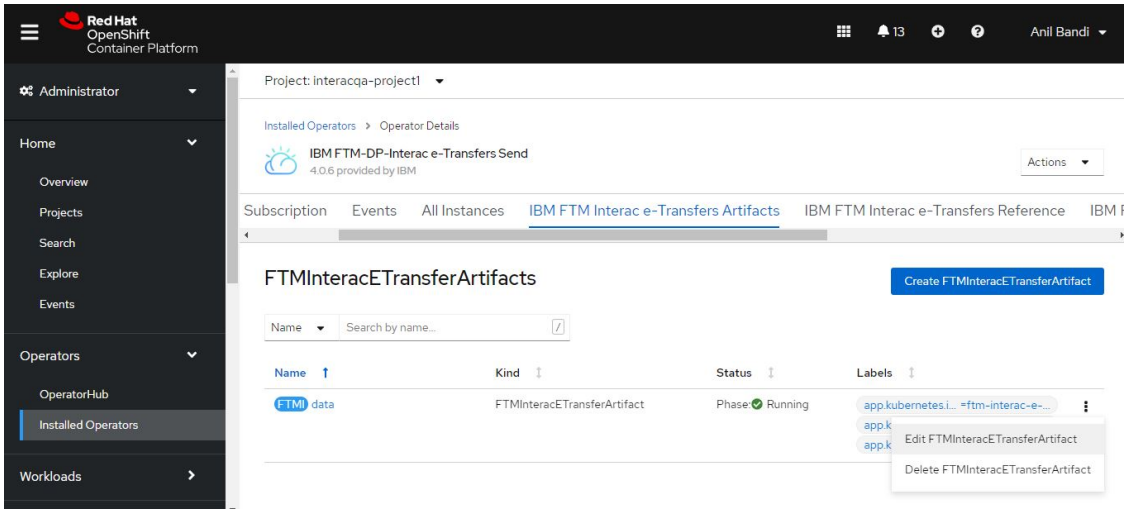
3. Click on OperatorHub > Select Sources > Search for ibm-operator-catalog > click the overflow menu > Edit CatalogSource



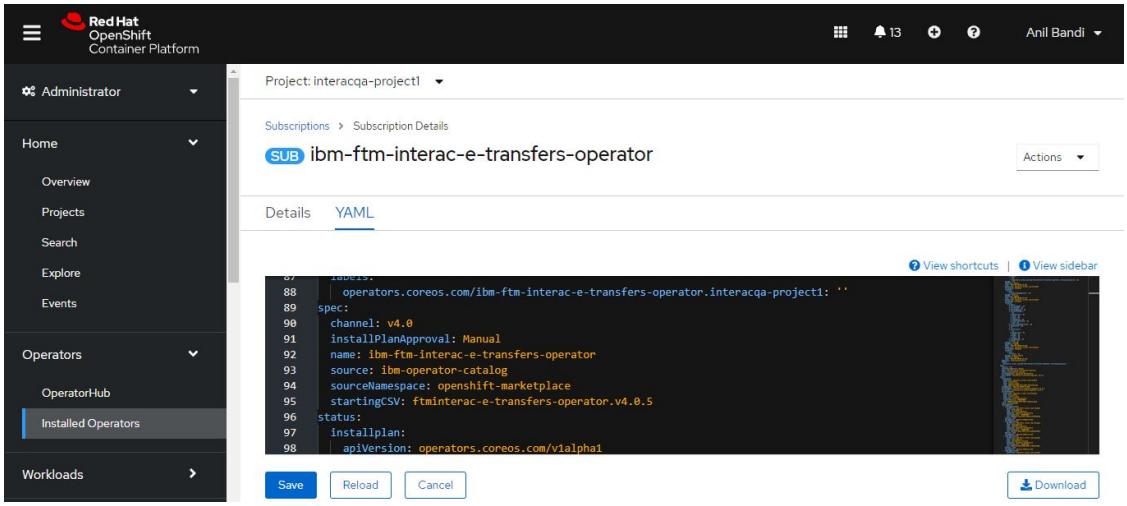
4. In **the ibm-operator-catalog** YAML replace the current image with icr.io/cpopen/ibm-operator-catalog@sha256: and Click on save.



5. Click Installed operators > Click on IBM FTM-DP-Interac-e-Transfers Send Operator > Click on IBM FTM Interac-e-Transfers Artifacts > Click on Delete FTMInteracETransfersArtifact

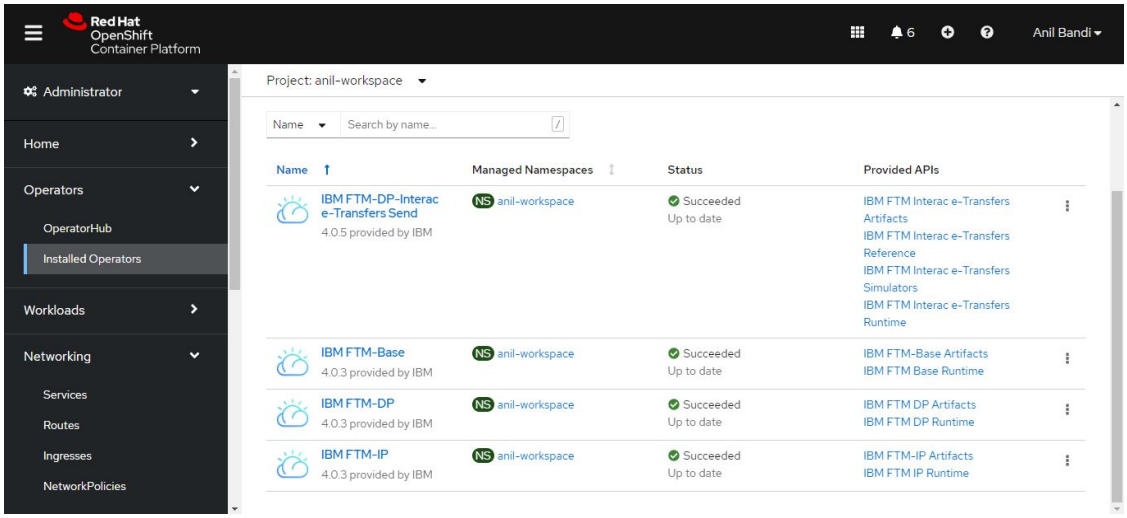


6. Click Installed operators > Click on IBM FTM-DP-Interac-e-Transfers Send Operator > Click on Subscription > Click on Actions dropdown > Click on Edit Subscription > Change source under spec to ibm-operator-catalog > Click on save.

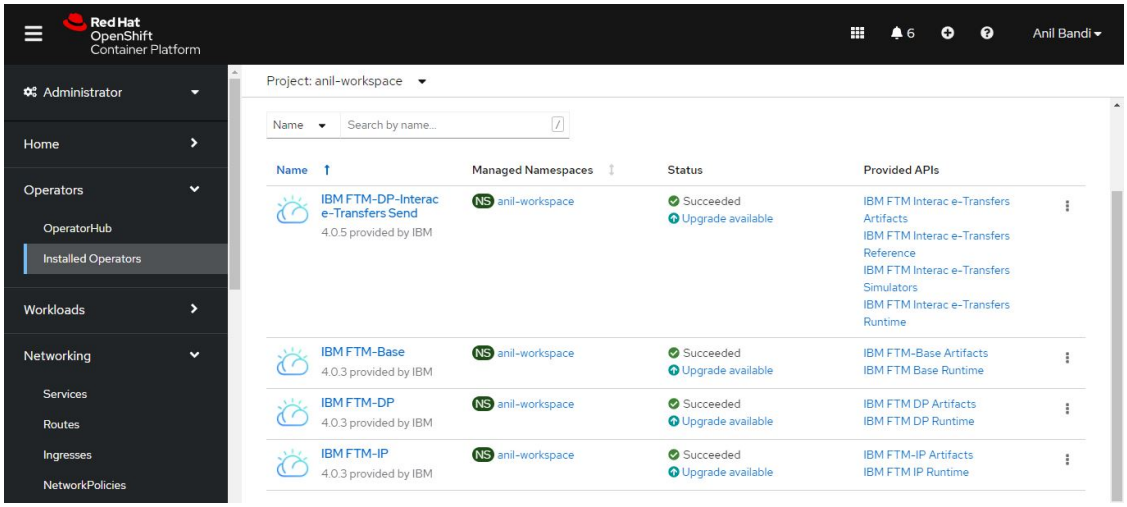


Operator Upgrade

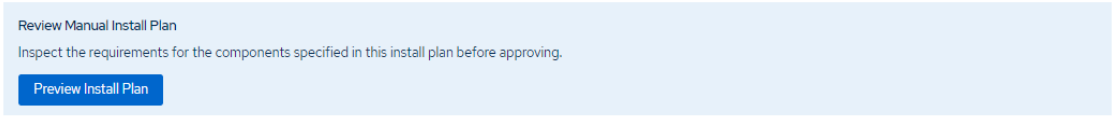
1. Click Installed operators and wait until you see the Upgrade available option under the status section of the operators, as shown in the following screen capture. This message might take up to 10 minutes to appear.



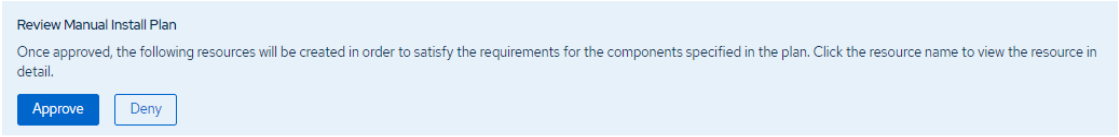
2. Click the Upgrade Available



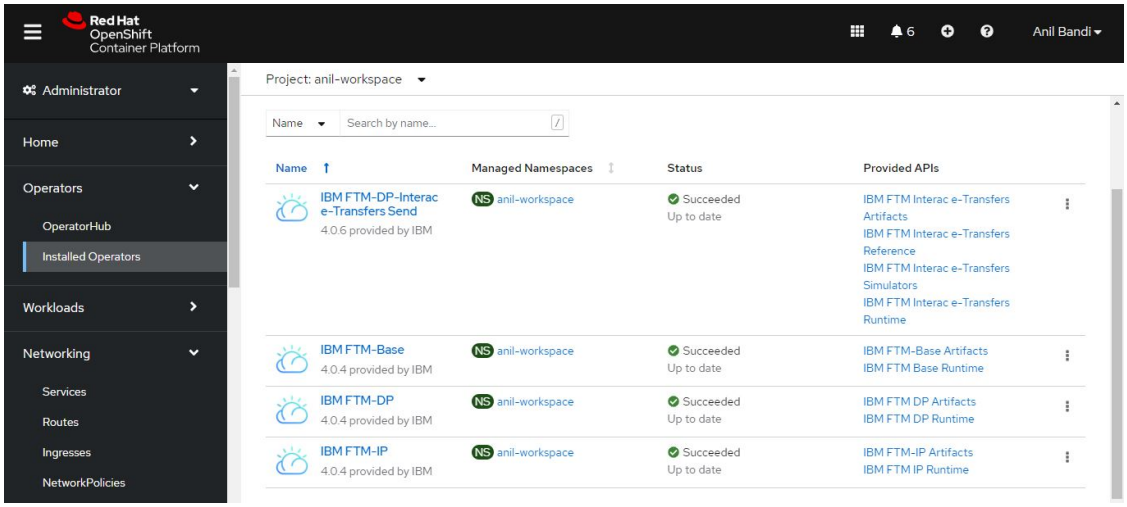
3. Click Preview Install Plan



4. Click Approve



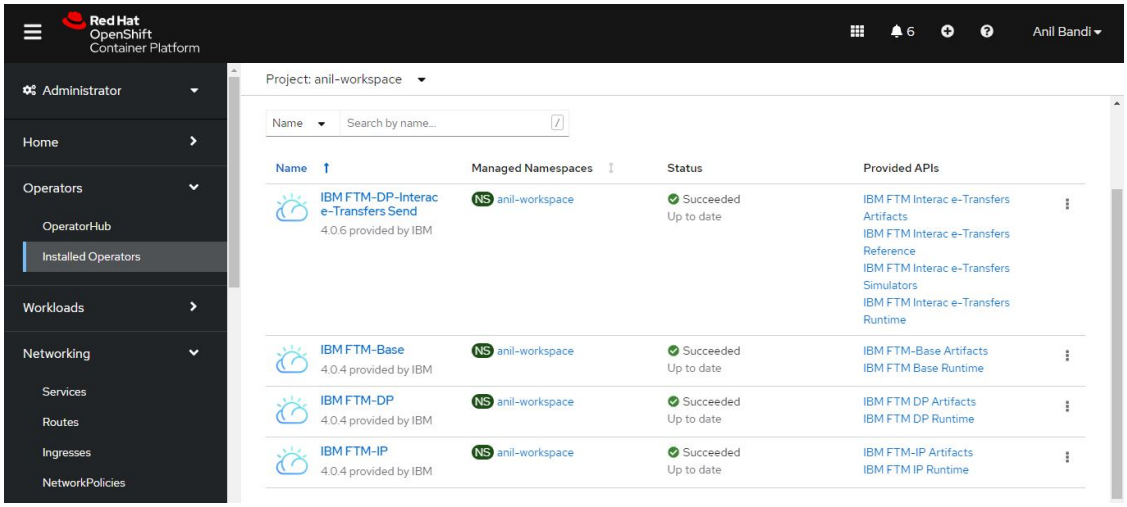
5. After a successful installation, the following information is displayed.



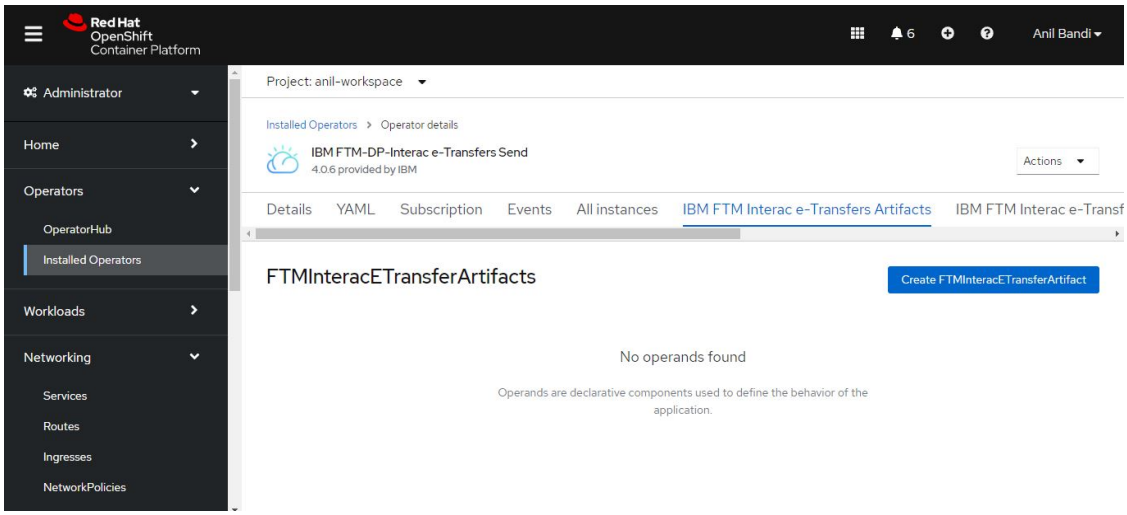
Operand Upgrade

Artifact Upgrade

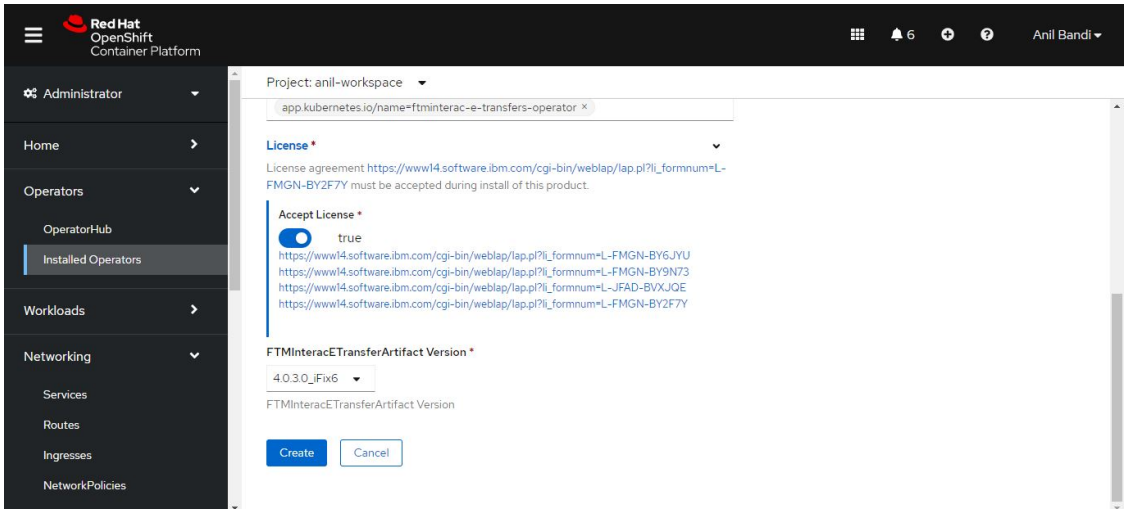
1. Log in to the OCP Cluster.
2. Switch to working project and Click on Installed Operators.



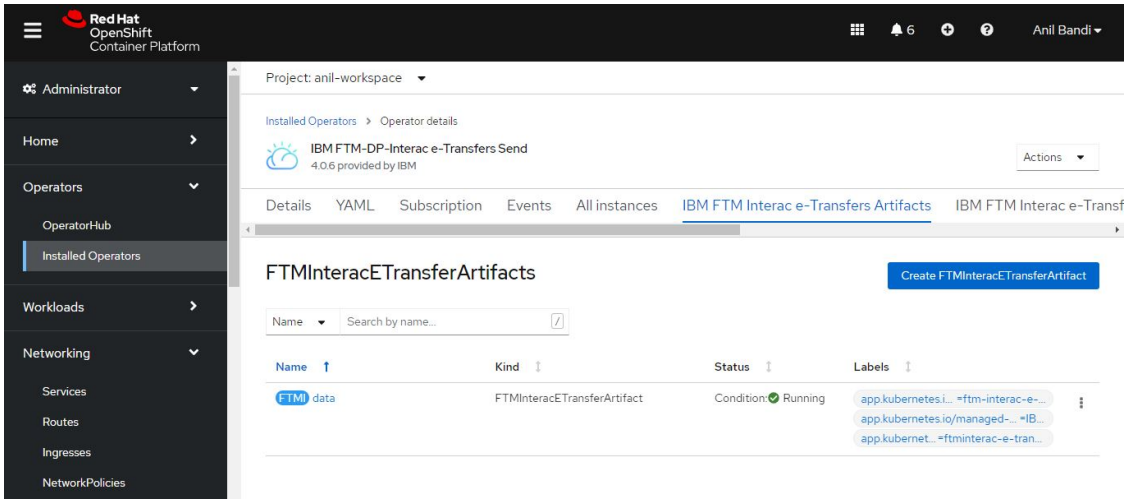
3. Click on IBM FTM-DP-Interac-e-Transfers Send Operator > Click on IBM FTM Interac-e-Transfers Artifacts > Click on Create FTMInteracETransfersArtifact



4. Accept the License, Select version 4.0.3.0_iFix6 from dropdown and Click on Create.

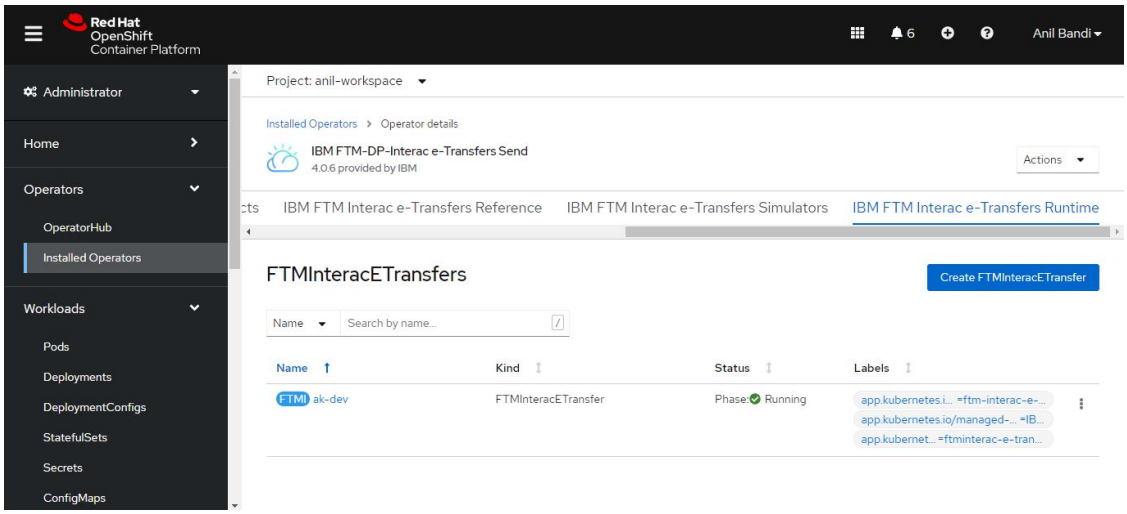


5. Verify Artifact Instance status.

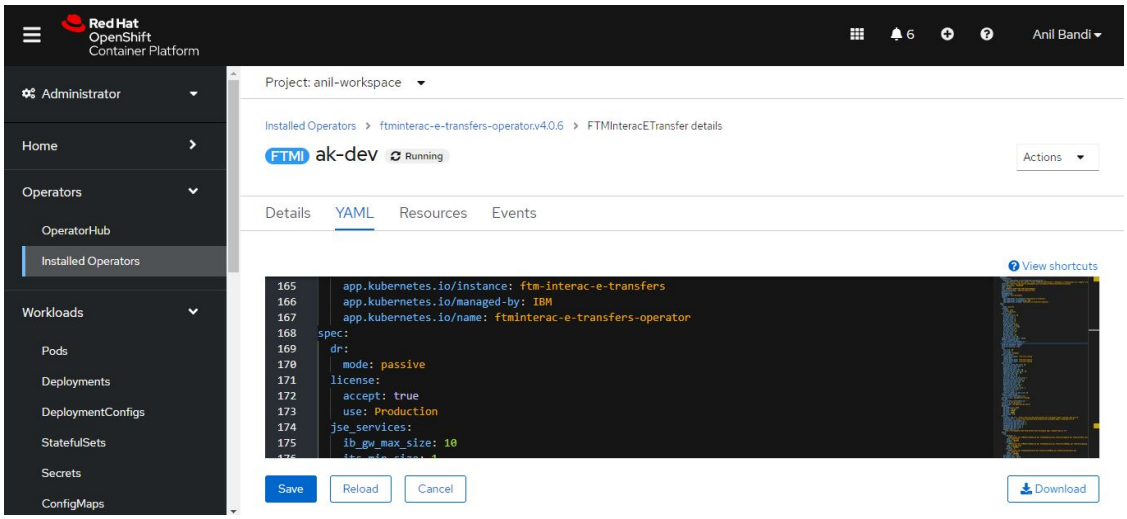


FTM Application Upgrade

1. Log in to the OCP Cluster
2. Switch to working project
3. Click on Installed Operators > Click on IBM FTM-DP-Interac-e-Transfers Send Operator > Click on IBM FTM Interac-e-Transfers Runtime > Edit Instance



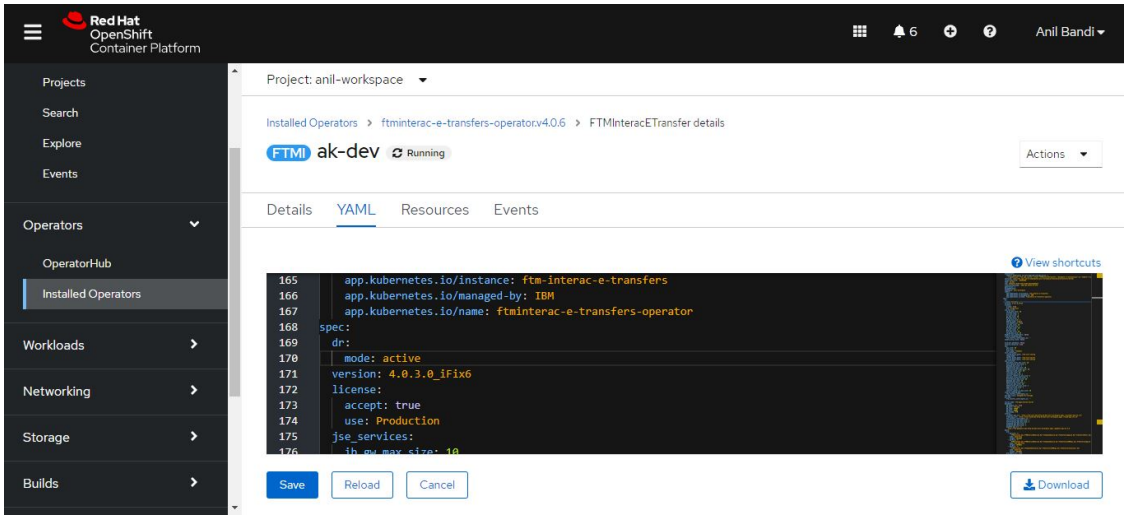
4. Edit the Instance and add dr.mode to passive and save.



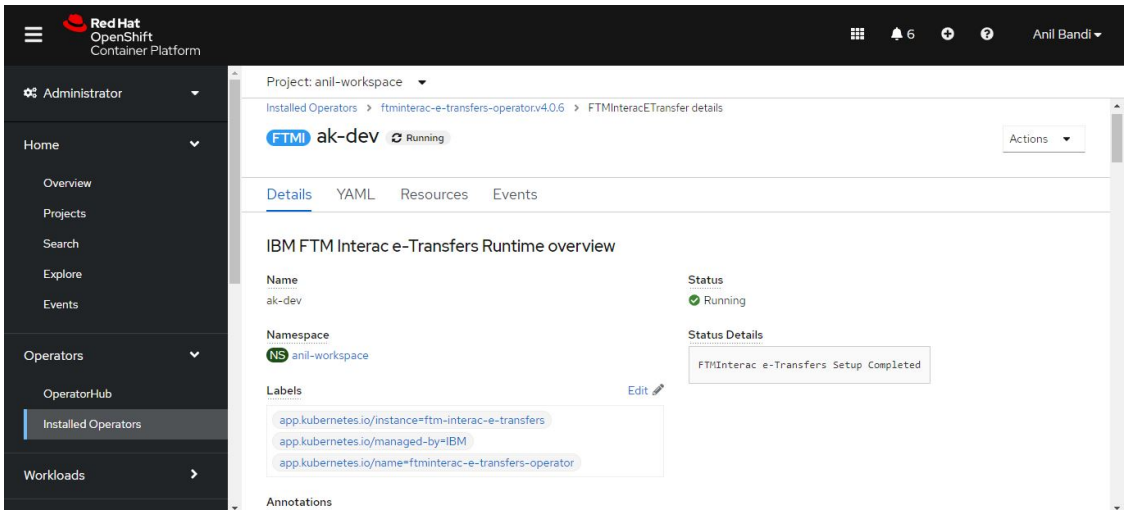
Note: Change the **DR mode** to "**passive**" , then wait until all pods (that is the J2EE, J2SE, IBM MQ, and App Connect Enterprise pods) scale down to zero - you may need to wait up to 10 minutes for all pods to scale to zero.

Note: The artifacts and simulator pods keep running because they are not part of the disaster recovery (DR) activity.

5. Update the version to 4.0.3.0_iFix6, dr.mode to active and click on save.



6. Verify the FTM Interac-e-Transfers application status > The status should be shown as FTM Interac e-Transfers Setup Completed.

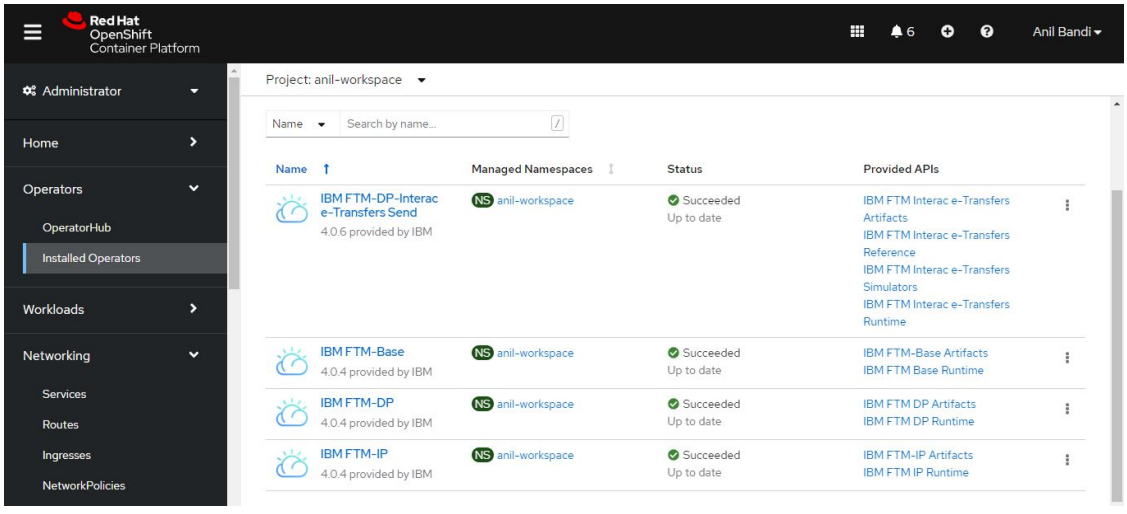


7. When all of the pods scale up to 4.0.3.0_iFix6, the FTM Application upgrade is successful.

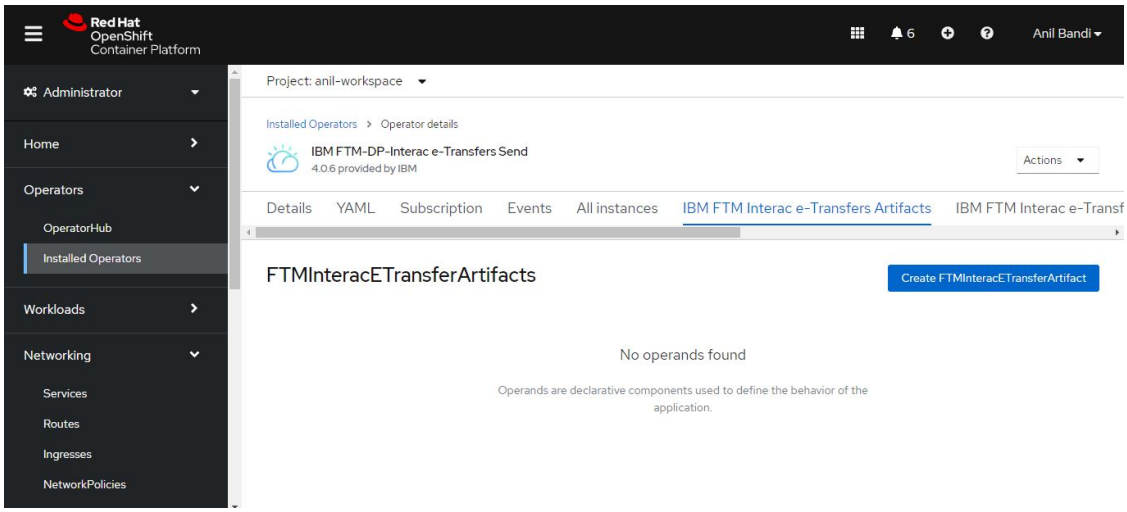
Rollback

Artifact Rollback

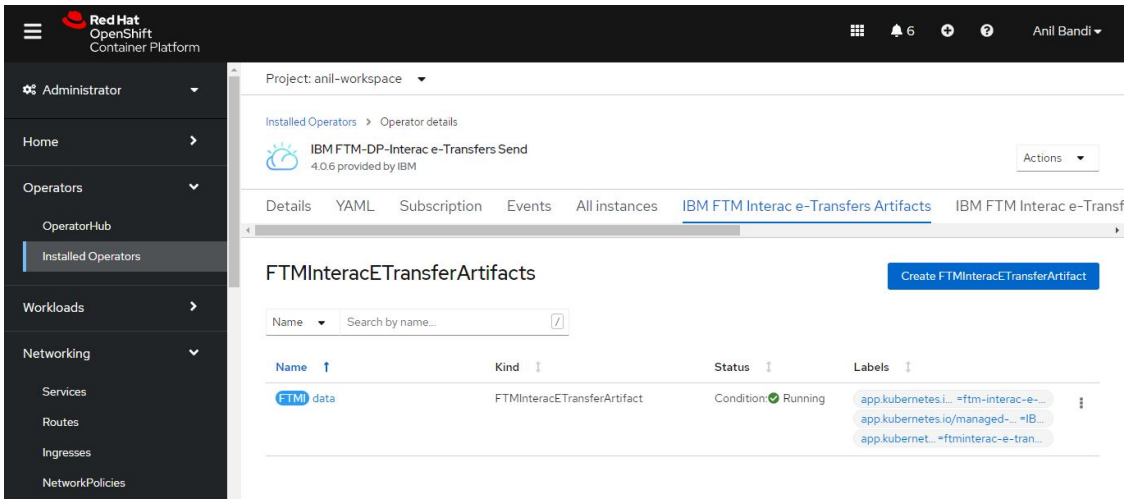
1. Switch to working project and Click on Installed Operators.



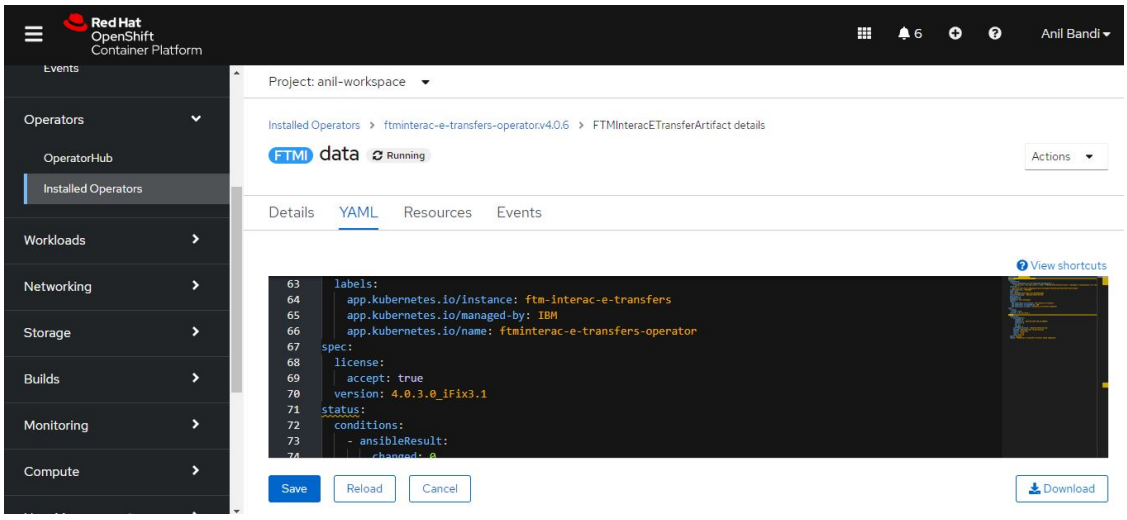
2. Click on IBM FTM-DP-Interac-e-Transfers Send Operator > Click on IBM FTM Interac-e-Transfers Artifacts > Click on Create FTMInteracETransfersArtifact > Edit Instance



3. Edit the Artifact instance

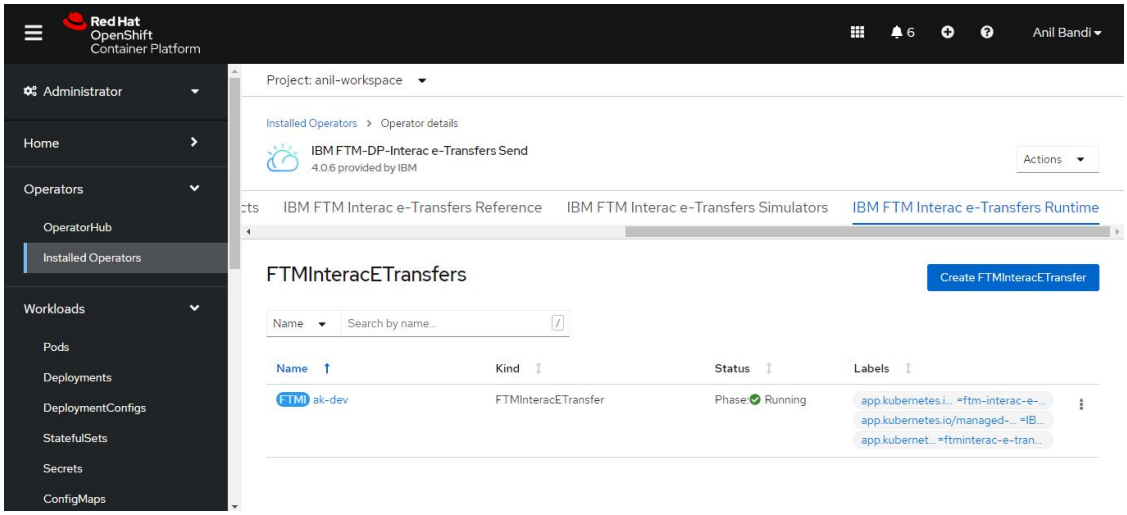


4. Update version to 4.0.3.0_iFix3.1 and click on save

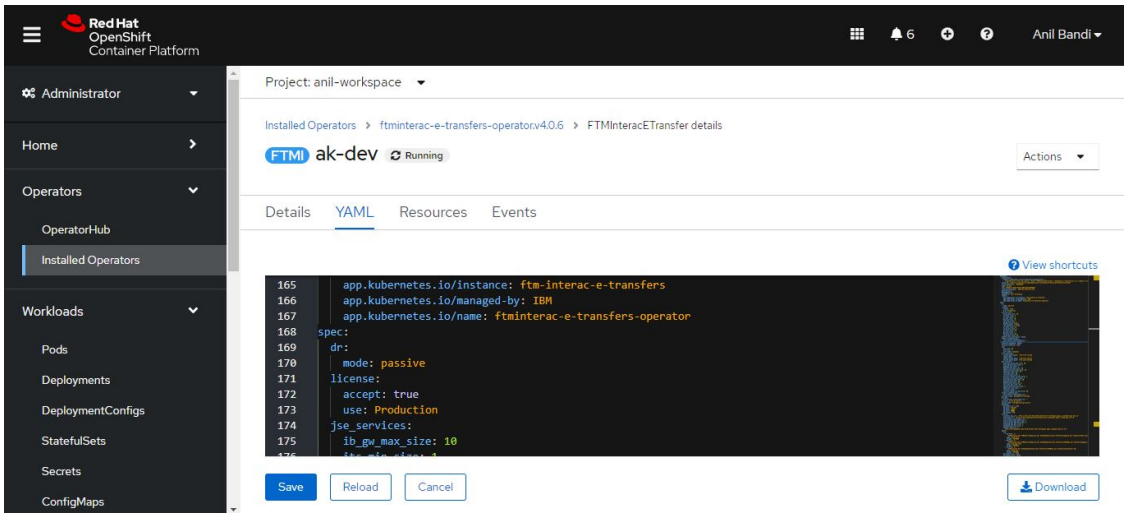


FTM Application Rollback

1. Switch to working project > Click on Installed Operators > Click on IBM FTM-DP-Interac-e-Transfers Send Operator > Click on IBM FTM Interac-e-Transfers Runtime > Edit Instance



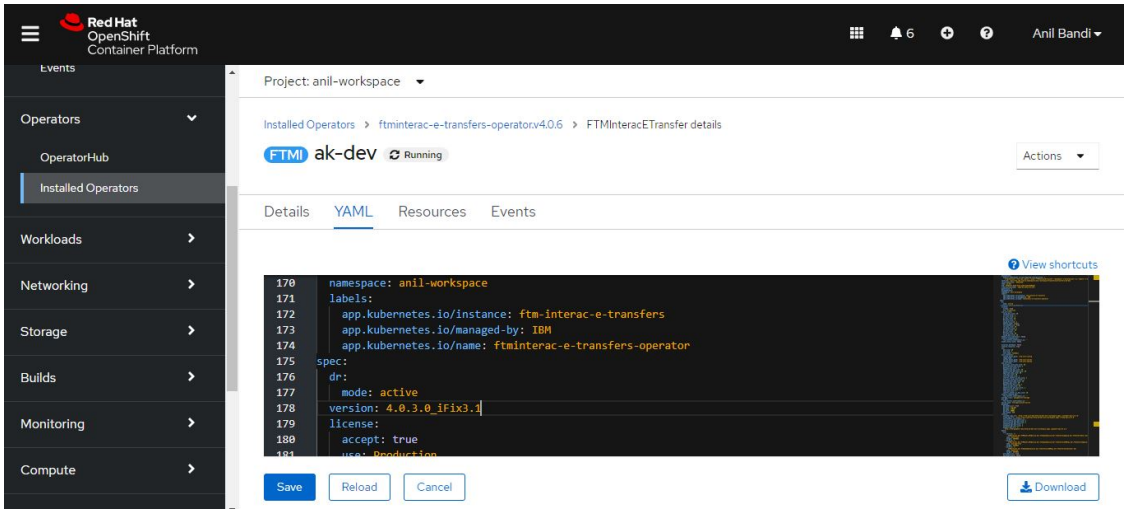
2. Edit the Instance and add dr.mode to passive and save.



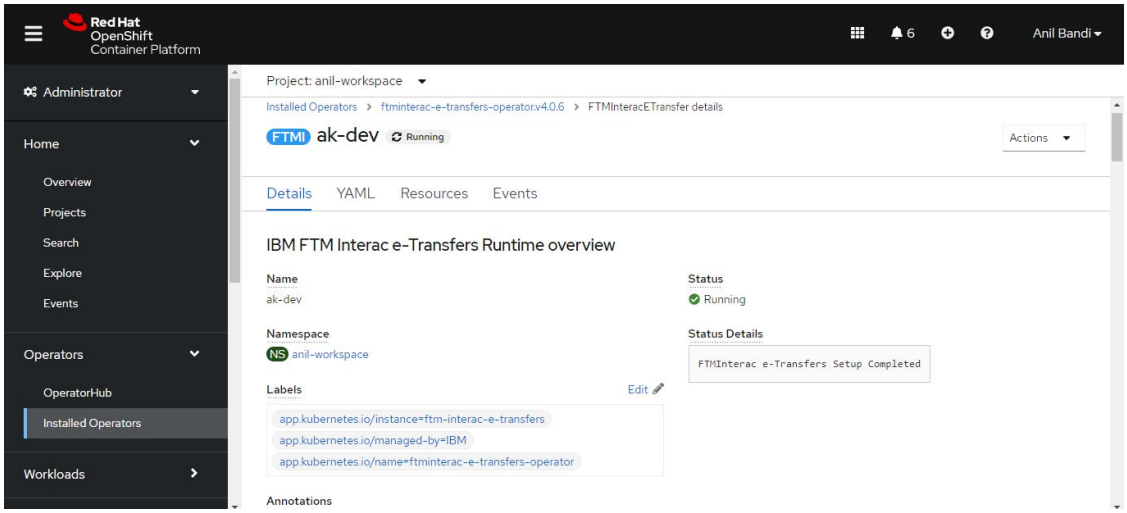
Note: Change the **DR mode** to "**passive**" , then wait until all pods (that is the J2EE, J2SE, IBM MQ, and App Connect Enterprise pods) scale down to zero - you may need to wait up to 10 minutes for all pods to scale to zero.

Note: The artifacts and simulator pods keep running because they are not part of the disaster recovery (DR) activity.

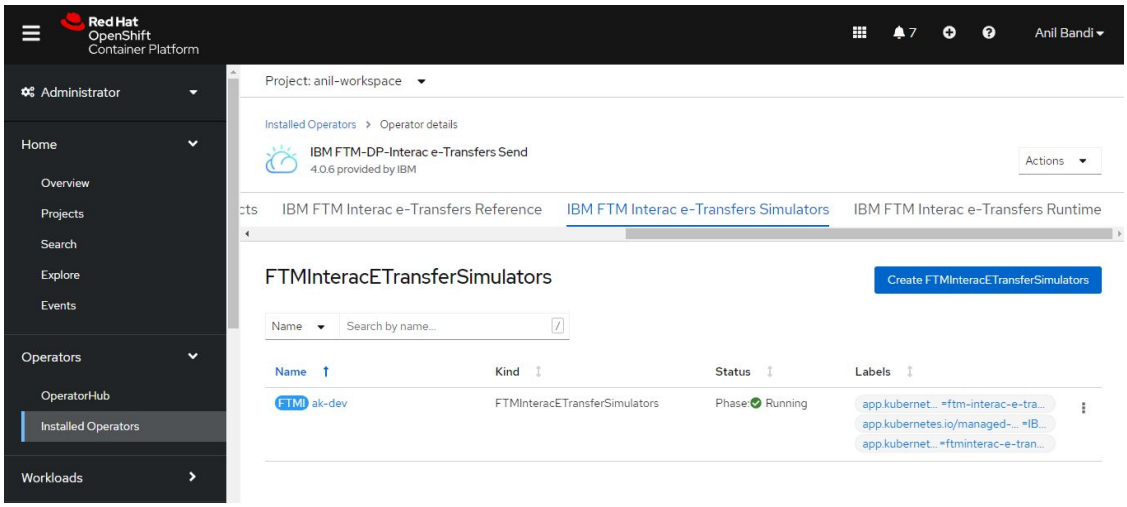
3. Update the version to 4.0.3.0_iFix3.1, dr.mode to active and click on save.



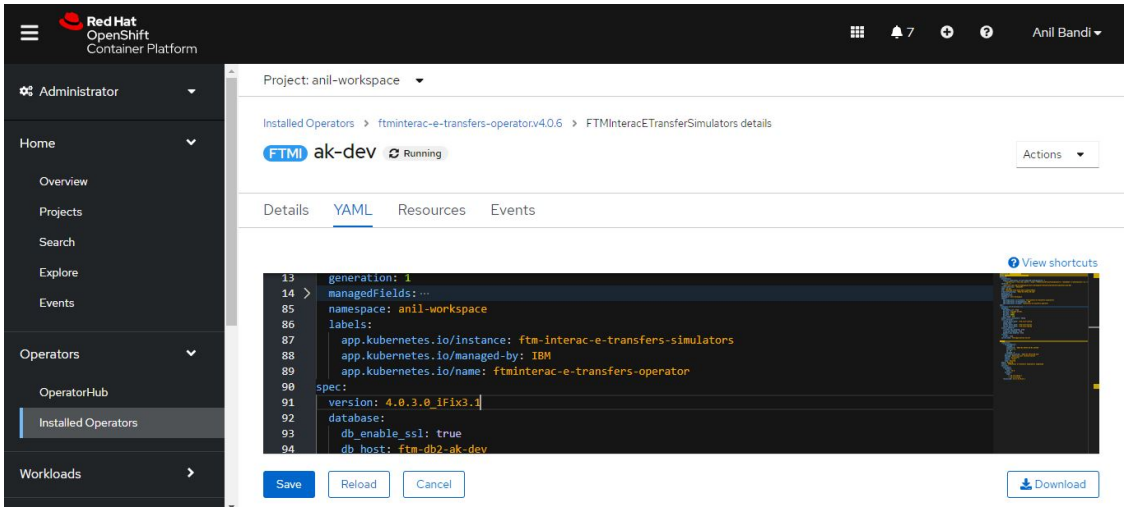
4. Verify the FTM Interac-e-Transfers application status > The status should be shown as FTM Interac e-Transfers Setup Completed.



5. Click on Installed Operators > Click on IBM FTM-DP-Interac-e-Transfers Send Operator > Click on IBM FTM Interac-e-Transfers Simulators > Edit Instance



6. Update the version to 4.0.3.0_iFix3.1 and click on save.



7. When all of the pods scale up to 4.0.3.0_iFix3.1, the FTM Application rollback is successful.