Financial Transaction Manager

Upgrade FTM 4.0.3-iFix3 to 4.0.3-iFix3.1 (application only)

& Rollback iFix3.1 to iFix3 (application only)

Note: There is no Db2 migration required between 4.0.3-iFix3 and 4.0.3-iFix3.1

21 December 2021

Contents

1. Overview

1.1 Purpose

This document enumerates the steps to:

- upgrade FTM 4.0.3 from iFix3 to iFix3.1
- rollback iFix3.1 to iFix3

1.2 iFix3.1 Supported install types

The 4.0.3.0 interim fix 3.1 (iFix3.1) 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 (iFix3) installed to the 4.0.3.0 interim fix 3.1 (iFix3.1) level.

1.3 Prerequisites

Prerequisite for airgap clusters:

- Mirror the images to the external environment. For more information, see

Prerequisite for an upgrade installation:

- The 4.0.3 iFix3 version must be installed and running on the cluster.

1.4 Version table

Use the following table to understand the operator and operand versioning.

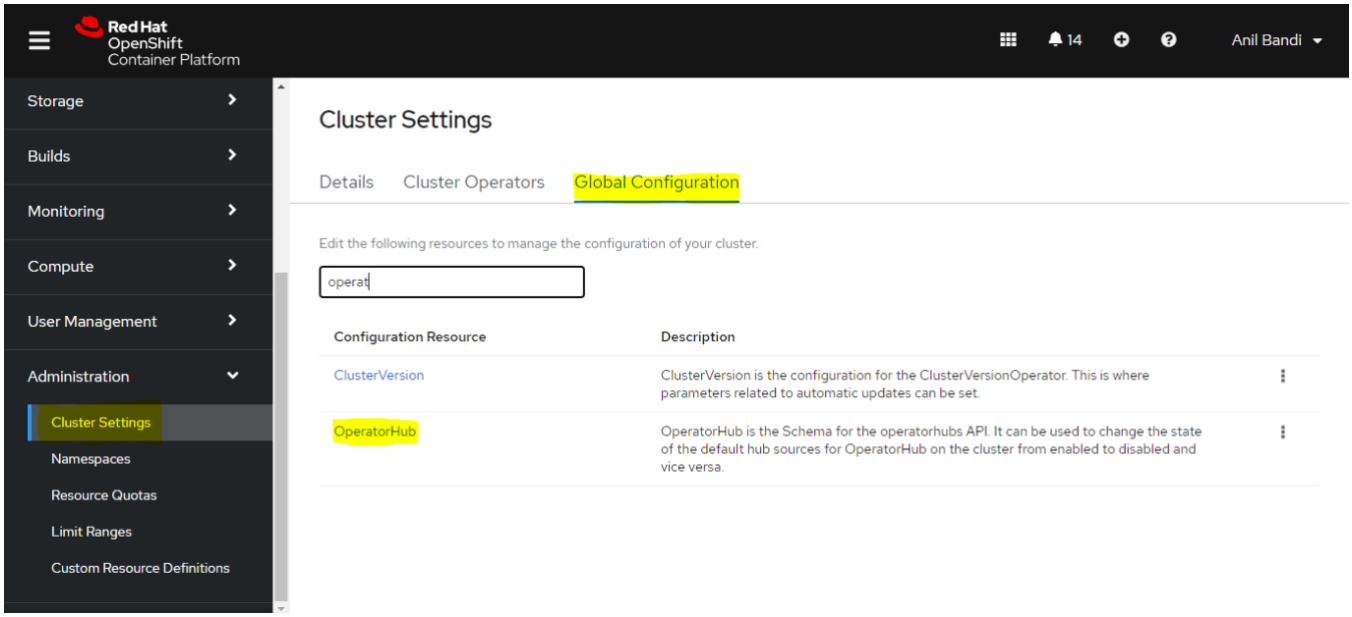
Release	Channel	Operator version	Operand version	Supported operands
403-GA	v4.0	v4.0.0	4.0.3.0	4.0.3.0 only
403-iFix1	v4.0	v4.0.1	4.0.3.0_iFix1	4.0.3.0 & 4.0.3.0_iFix1
403-iFix2	v4.0	v4.0.2	4.0.3.0_iFix2	4.0.3.0 , 4.0.3.0_iFix1 & 4.0.3.0_iFix2
403-iFix3	v4.0	v4.0.3	4.0.3.0_iFix3	4.0.3.0 , 4.0.3.0_iFix1, 4.0.3.0_iFix2 & 4.0.3.0_iFix3
403-iFix3.1	v4.0	v4.0.5	4.0.3.0_iFix3.1	4.0.3.0 , 4.0.3.0_iFix1 4.0.3.0_iFix2, 4.0.3.0_iFix3 & 4.0.3.0_iFix3.1

2. Upgrading from iFix3 to iFix3.1

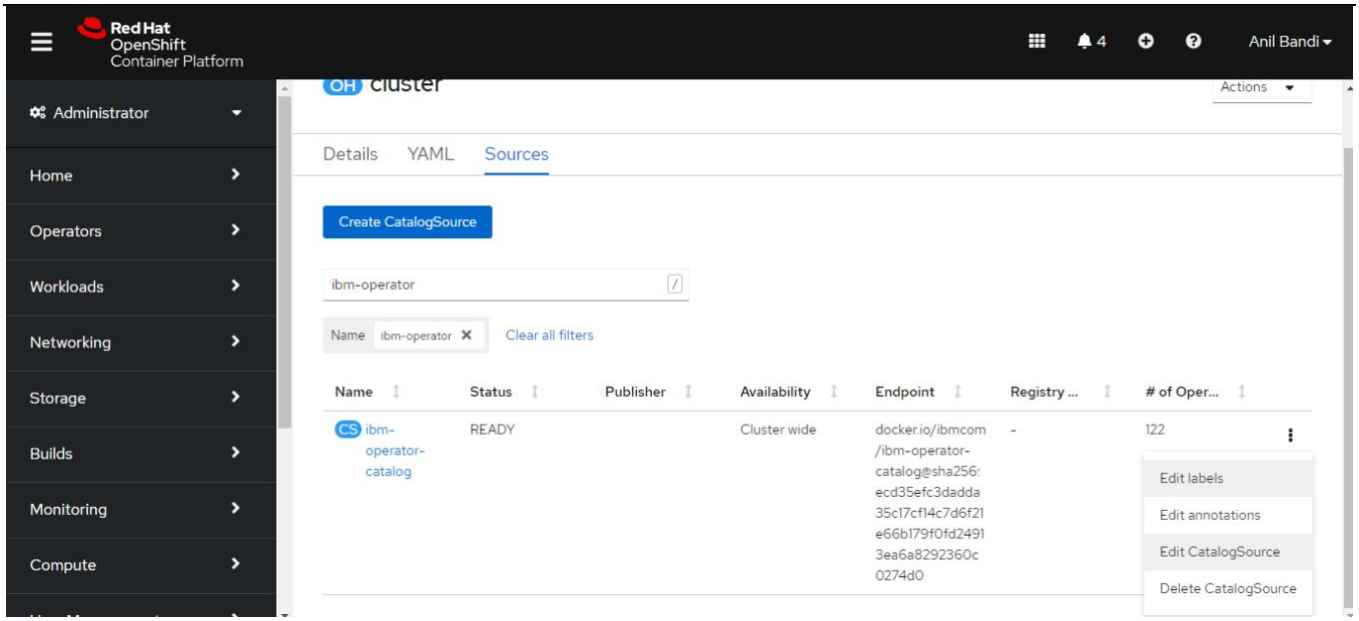
2.1 Update the Operator catalogs to the latest catalog sha values

2.1.1 Upgrade to iFix3.1 using the IBM Operator Catalog

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



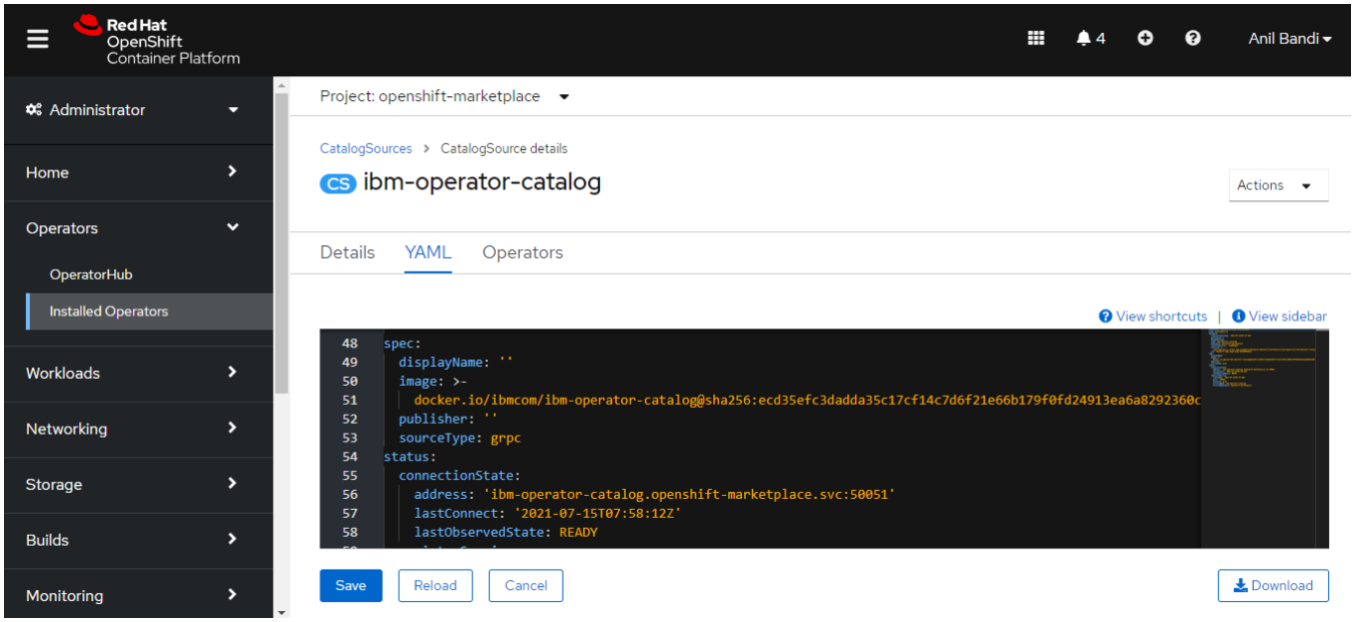
3. Select Sources > click the overflow menu of the catalog that you want to modify > Edit CatalogSource



4. In **the ibm-operator-catalog** YAML replace the iFix3 image sha256 value with the iFix3.1 image sha256 value as per the following table and click Save.

IBM Operator Catalog

Operator Catalog	**Interim fix 3.1: IBM catalog sha256 value and IBM catalog image tag**
IBM OPERATOR CATALOG	icr.io/cpopen/ibm-operator-catalog@sha256:5a4ec096810ad019f6624d54aff6d8bddeabb20bbb3d094690f658d281bbfe60 OR using the "**IBM catalog**" image name. IBM provides a catalog of product offerings in the form of a catalog index image. The catalog image can be added on a Red Hat OpenShift 4.x cluster by using a CatalogSource resource in order to show IBM offerings in the Red Hat OpenShift operator catalog. In addition, IBM provides a catalog index image of foundational services utilized across offerings. The "IBM catalog" image name is: ***icr.io/cpopen/ibm-operator-catalog:latest*** Notes: 1) The sha value for "*icr.io/cpopen/ibm-operator-catalog:latest*" gets update each time a new IBM product is added to the IBM catalog so it most likely will not match the sha value above. 2) IBM have moved from using the "*docker.io/ibmcom*" to using "*icr.io/cpopen*" as our public repository. IBM Container Registry (ICR) is IBM's preferred image repository for unauthenticated Operator Catalog Images. Namespace cpopen has been created in icr.io to host Operator, Bundle, Catalog and webhook images. The official location is icr.io/cpopen



2.1.2 Upgrade to iFix3.1 using the FTM Product Operator Catalogs

Note: Only upgrade using the Individual Product catalogs if you are NOT using the IBM catalog as described in 2.1.1.

Individual Product Catalogs

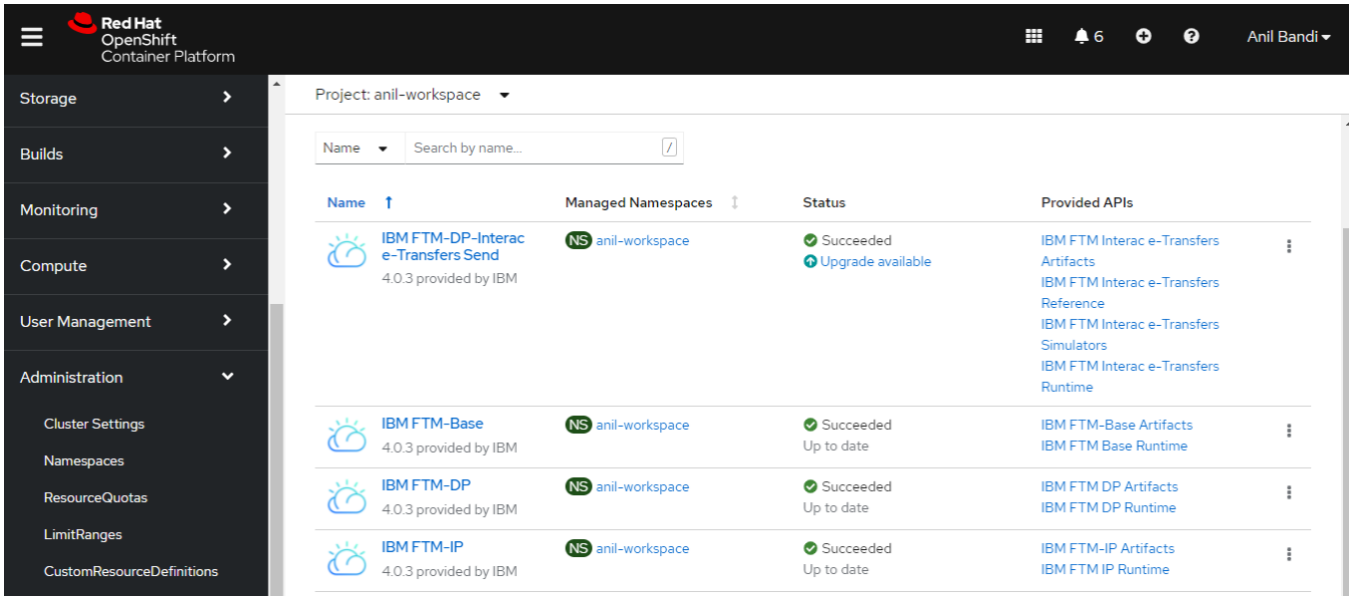
Product	**Interim fix 3.1: Product Operator catalog sha256 values.**
FTM Interac	icr.io/cpopen/ibm-ftm-dp-interac-e-transfers-send-catalog@sha256:546dfee3f811759dd92375004850597a31e86f7b94cbd64d2b36cbe30729ac99

Note: IBM have moved from using the “docker.io/ibmcom” to using “icr.io/cpopen” as our public repository. IBM Container Registry (ICR) is IBM's preferred image repository for unauthenticated Operator Catalog Images. Namespace cpopen has been created in icr.io to host Operator, Bundle, Catalog and webhook images. The official location is icr.io/cpopen

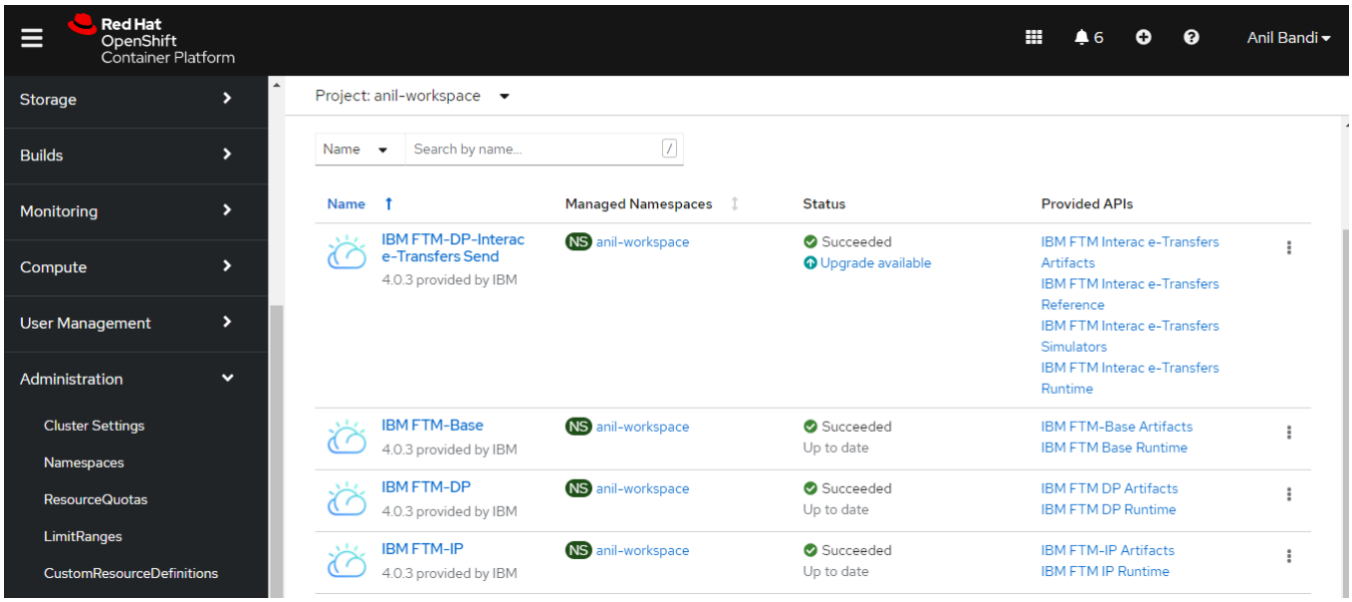
2.2 Upgrade each FTM product Operator to “v4.0.5”

Note: If the approval strategy is set to automatic, the operator is automatically upgraded to v4.0.5, however, if the approval strategy is set to manual, follow these steps:

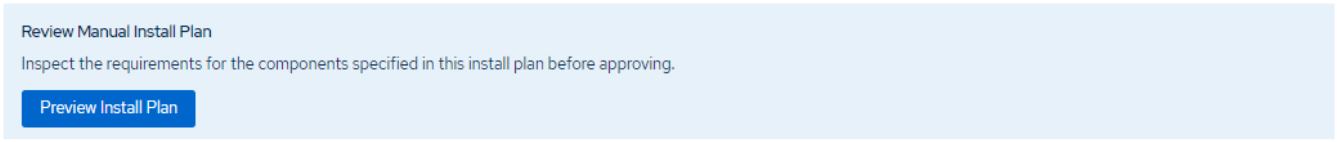
1. Click Installed Operators and wait until you see the Upgrade available option under the status section of the operators, as shown in the following screen capture. This message might take up to 10 minutes to appear.



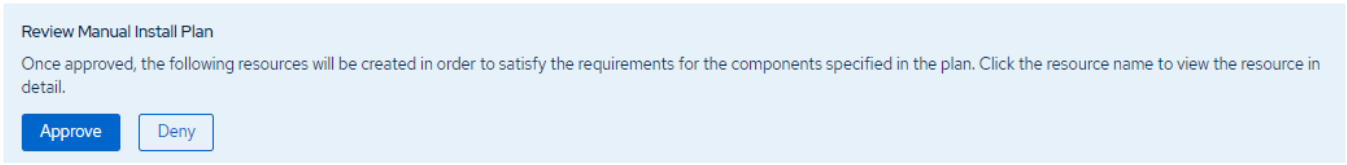
2. Click the Upgrade available For example, IBM FTM-DP-Interac e-Transfers-Send Operator.



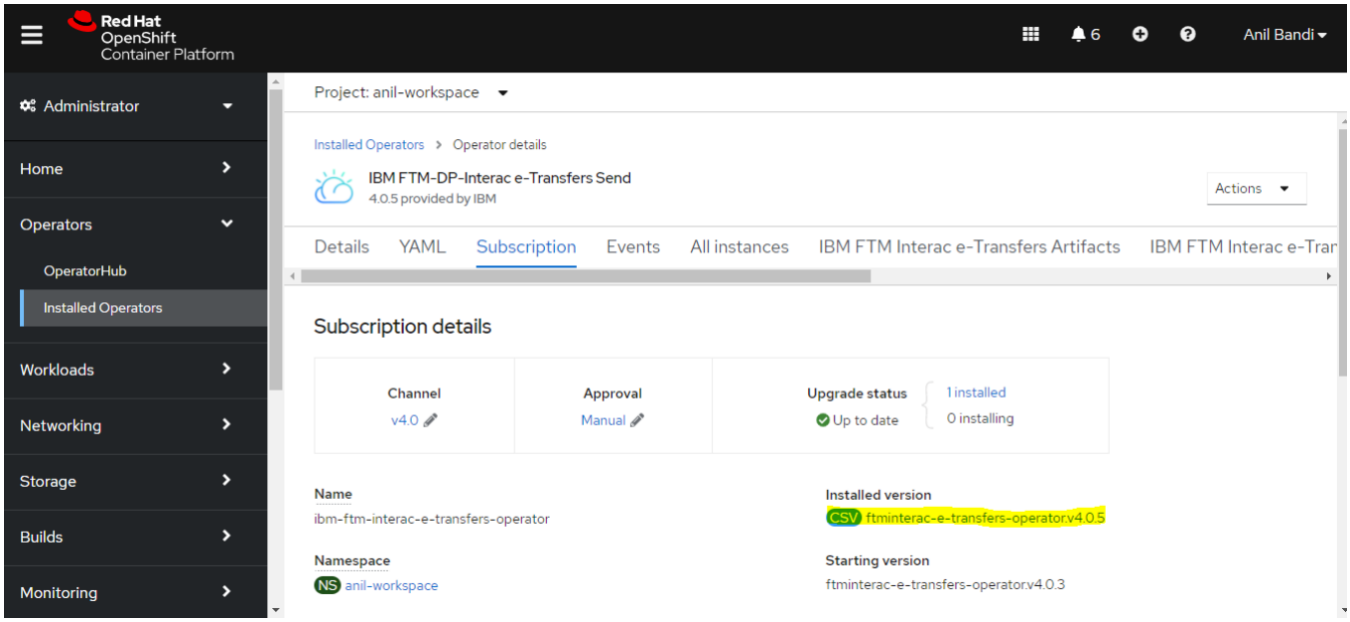
3. Click Preview Install Plan.



4. Click Approve.



5. Go to Installed Operators > Operator Name > Subscription. After a successful installation, the following information is displayed.



The operator version is now updated to v4.0.5 (refer to the Version Table above)

Set the Product Application to “passive” to scale all pods to zero

For each product offering (Base, IP, DP and Interac), 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.

Product name	**Command**	**Update dr.mode to “passive” and save.**
FTM for Interac e-Transfers	oc get ftminteracetransfers oc edit ftminteracetransfers <instance-name> oc get ftminteracetransferreferences oc edit ftminteracetransferreferences <instance-name>	spec: license: accept: true **dr:** **mode: passive**

2.3 Upgrade each FTM product Operand to “4.0.3.0_iFix3.1” (Runtime instance) and set mode to “active” to restart all pods

For each product offering edit its running instance as follows:

1. Change dr.mode = “**active**”
2. Edit “version” to “**4.0.3.0_iFix3.1**“
3. save the changes.

Product name	**Command**	**Update dr.mode to “active”; add version: 4.0.3.0_iFix3.1 and save.**
FTM for Interac e-Transfers	oc get ftminteracetransfers oc get ftminteracetransferreferences **if the instance was created by the reference** oc edit ftminteracetransferreferences <i-name>	**For Runtime Instance:** spec: license: accept: true **dr:** **mode: active** **version: 4.0.3.0_iFix3.1**

Wait until the 4.0.3.0_iFix3.1 operand pods are created. After a successful upgrade, all the pods should be in a “Running” state.

3. Rollback to iFix3

3.1 Scale down the application pods to zero

For each product instance follow the instructions in the next table:

Product name	**Command**	**Instructions:** **Update dr.mode: passive and save.**
FTM Base	oc get ftmbase oc edit ftmbase <instance-name>	spec: license: accept: true **dr:** **mode: passive**
FTM for Immediate Payments	oc get ftmip oc edit ftmip <instance-name>	spec: license: accept: true **dr:** **mode: passive**
FTM for Digital Payments	oc get ftmdp oc edit ftmdp <instance-name>	spec: license: accept: true **dr:** **mode: passive**
FTM for Interac e-Transfers	oc get ftminteracetransfers oc edit ftminteracetransfers <instance-name> oc get ftminteracetransferreferences oc edit ftminteracetransferreferences <instance-name>	spec: license: accept: true **dr:** **mode: passive**

Note: After changing the DR mode to “passive” wait until all the pods (that is, J2EE, J2SE, IBM MQ, and App Connect Enterprise) scale down to zero. You might need to wait approximately 10 minutes. The artifacts and simulator pods keep running because they are not a part of the disaster recovery (DR) activity.

3.2 Rollback the Application Operand to “4.0.3_iFix3”

For each product instance follow the instructions in the next table:

Product name	**Command**	**Instructions** **Update dr.mode to “active”;** **Update version to 4.0.3.0_iFix3 and save.**
FTM for Interac e-Transfers	oc get ftminteracetransfers oc get ftminteracetransferreferences **if the instance was created by the reference** oc edit ftminteracetransferreferences <i-name>	**For Runtime Instance:** spec: license: accept: true **dr:** **mode: active** **version: 4.0.3.0_iFix3**

Wait until the 4.0.3.0_iFix3 operand pods are created. After a successful upgrade, all the pods should be in a “Running” state.