IBM

Financial Transaction Manager

Upgrade FTM 4.0.3-iFix2 to 4.0.3-iFix3 (both application and Db2)

& Rollback iFix3 to iFix2 (both application and Db2)

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Contents

1. Overview

1.1 Purpose

This document enumerates the steps to:

- upgrade FTM 4.0.3 from iFix2 to iFix3
- rollback iFix3 to iFix2

1.2 iFix3 Supported install types

The 4.0.3.0 interim fix 3 (iFix3) 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 2 (iFix2) installed to the 4.0.3.0 interim fix 3 (iFix3) 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 iFix2 version must be installed and running on the cluster.

1.4 Version table

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

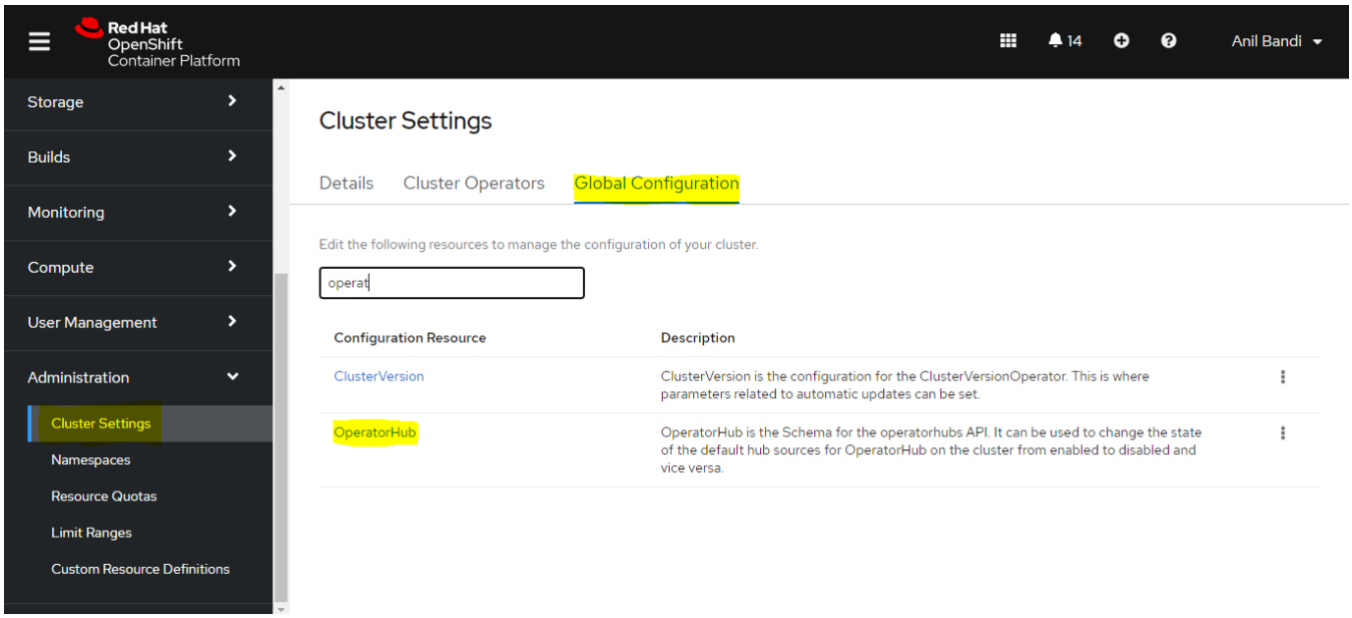
Release	Channel	Operator version	Operand version	Supported operands
403-GA	v4.0	v4.0.0	4.0.3.0	4.0.3.0 only
403-iFix1	v4.0	v4.0.1	4.0.3.0_iFix1	4.0.3.0 and 4.0.3.0_iFix1
403-iFix2	v4.0	v4.0.2	4.0.3.0_iFix2	4.0.3.0 , 4.0.3.0_iFix1 and 4.0.3.0_iFix2
403-iFix3	v4.0	v4.0.3	4.0.3.0_iFix3	4.0.3.0 , 4.0.3.0_iFix1,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

2. Upgrading from iFix2 to iFix3

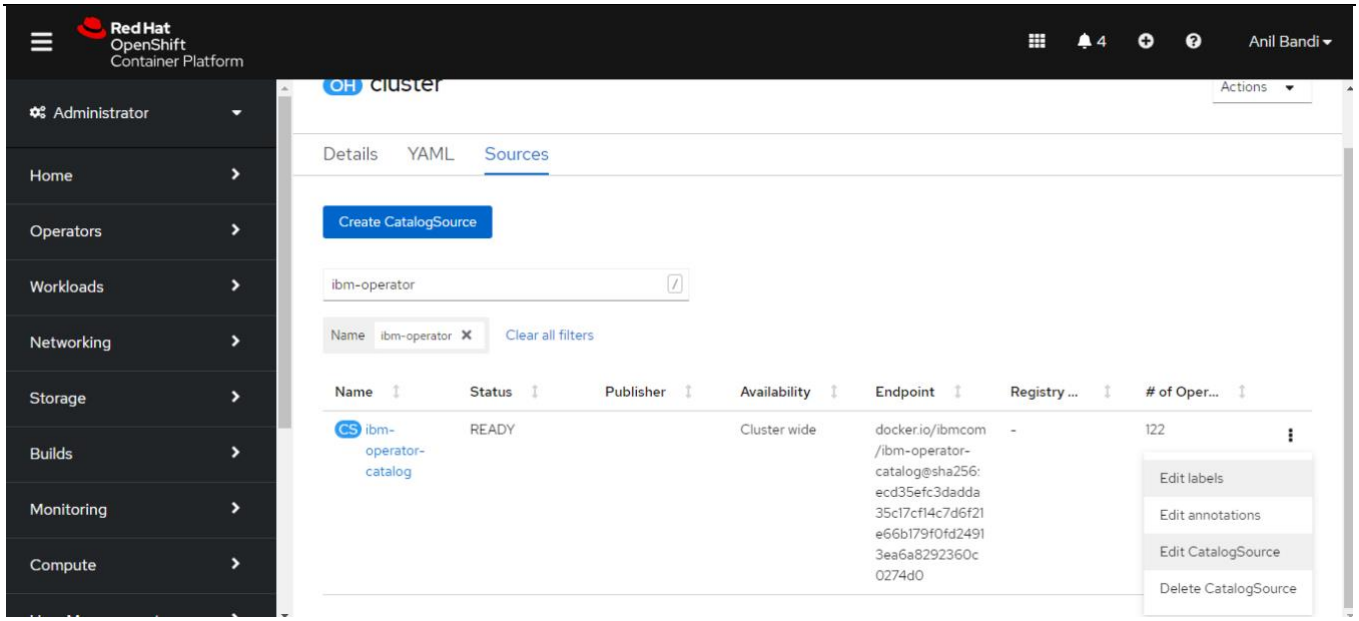
2.1 Update the Operator catalogs to the latest catalog sha values

2.1.1 Upgrade to iFix3 using the IBM Operator Catalog

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



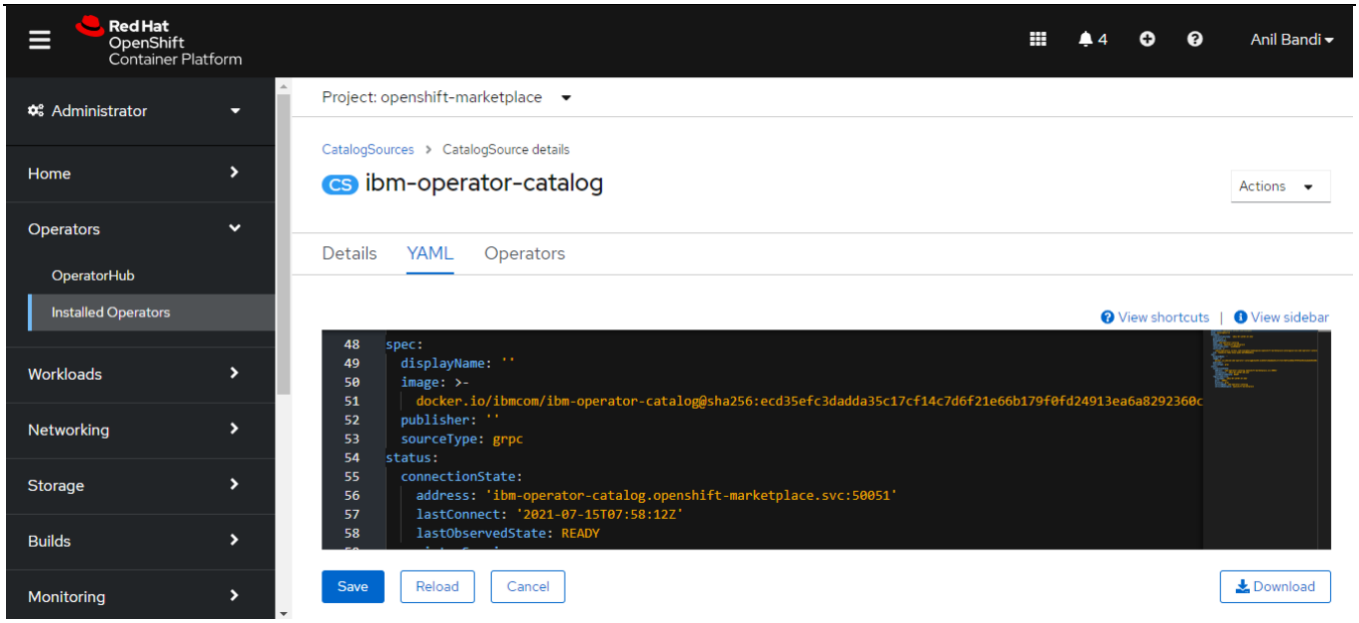
3. Select Sources > click the overflow menu of the catalog that you want to modify > Edit CatalogSource



4. In **the ibm-operator-catalog** YAML replace the iFix2 image sha256 value with the iFix3 image sha256 value as per the following table and click Save.

IBM Operator Catalog

Operator Catalog	**Interim fix 3: IBM catalog sha256 value and IBM catalog image tag**
IBM OPERATOR CATALOG	docker.io/ibmcom/ibm-operator-catalog@sha256:8658993ca5b1abce023c12d066dcd49e722ca7b224c9339d0829014d3a01123c **OR using the IBM catalog tag ":latest"** docker.io/ibmcom/ibm-operator-catalog:latest



2.1.2 Upgrade to iFix3 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.

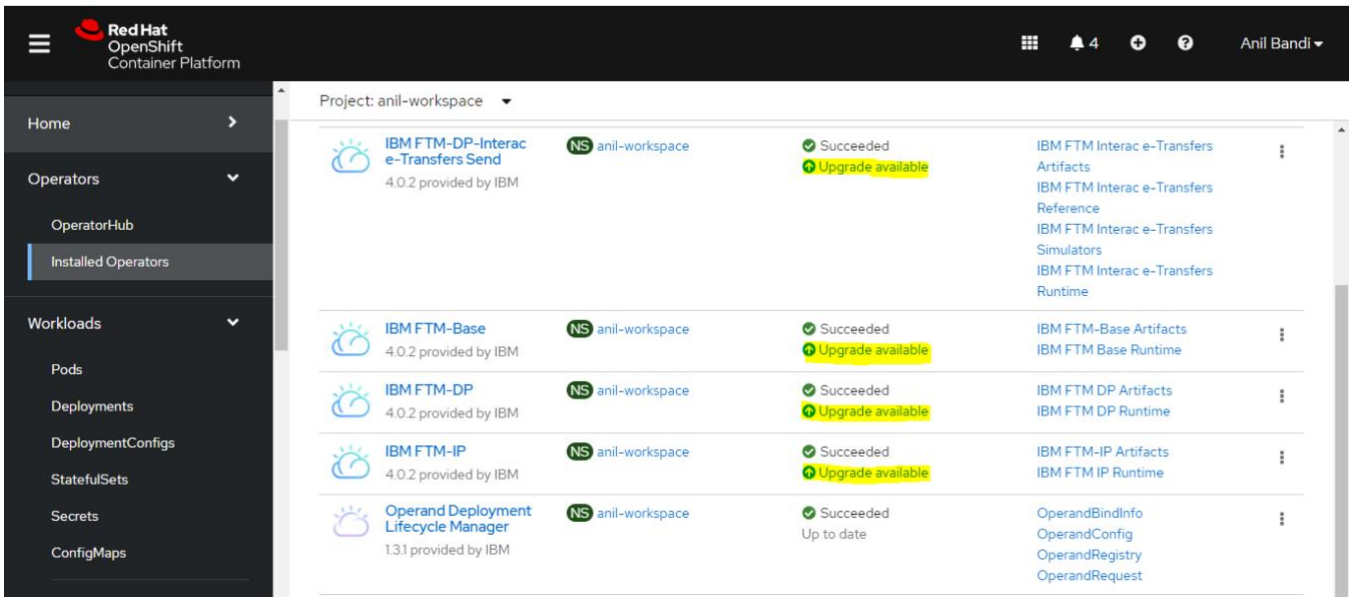
Individual Product Catalogs

Product	**Interim fix 3: Product Operator catalog sha256 values.**
FTM Base	docker.io/ibmcom/ibm-ftm-base-catalog@sha256:781db90621ee31aead3c87443425997de16873393660d073d1b88d4a71ed9c71
FTM IP	docker.io/ibmcom/ibm-ftm-ip-catalog@sha256:906e07eb548613b47ce6edc938045d922f46f8a10f2f71c33fdff659f956b356
FTM DP	docker.io/ibmcom/ibm-ftm-dp-catalog@sha256:f2cc6702436424da4212a008b07ae29edeebd0427c2b42373d0ba1bcac2a3c43
FTM Interac	docker.io/ibmcom/ibm-ftm-dp-interac-e-transfers-send-catalog@sha256:8118f544124d20e0810db67e422f29dbe2b5110951125b6cf581313f916b7ad7

2.2 Upgrade each FTM product Operator to “v4.0.3”

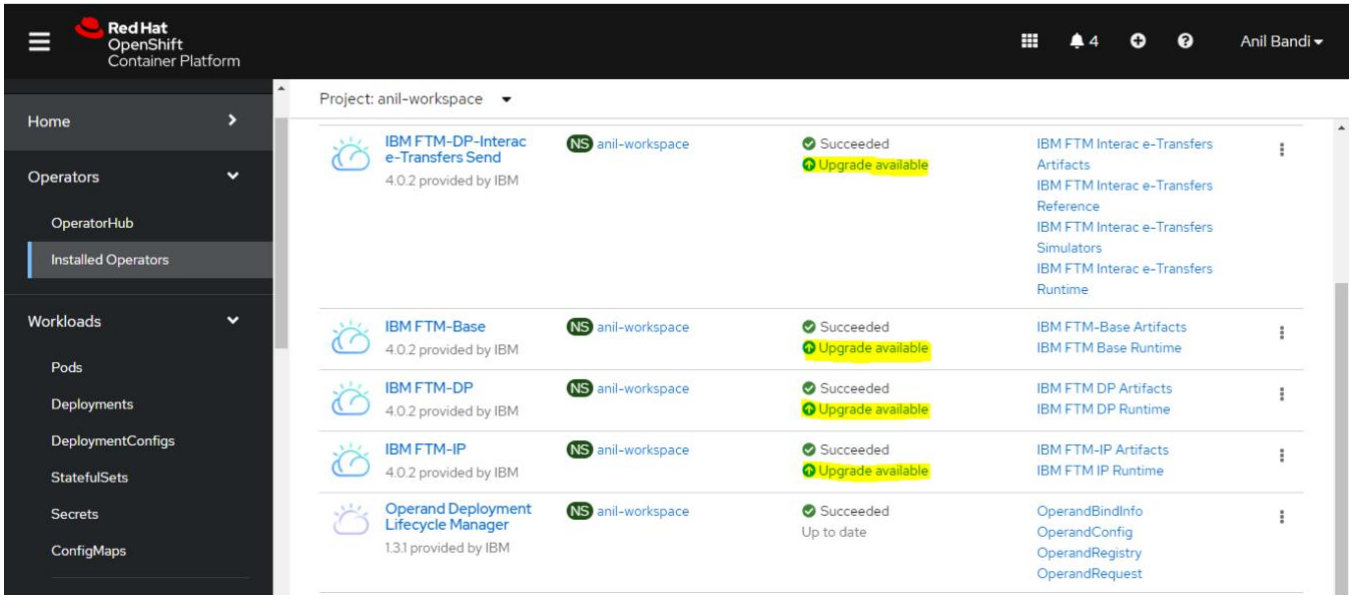
Note: If the approval strategy is set to automatic, the operator is automatically upgraded to v4.0.3, however, if the approval strategy is set to manual, follow these steps:

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.

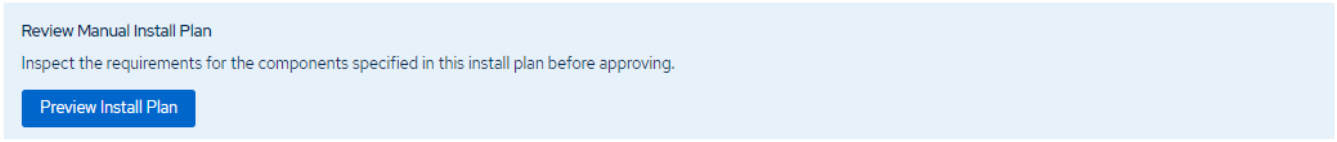


Note: The previous screen capture applies to OCP v4.6. For OCP v4.5, the status is shown as “updating”.

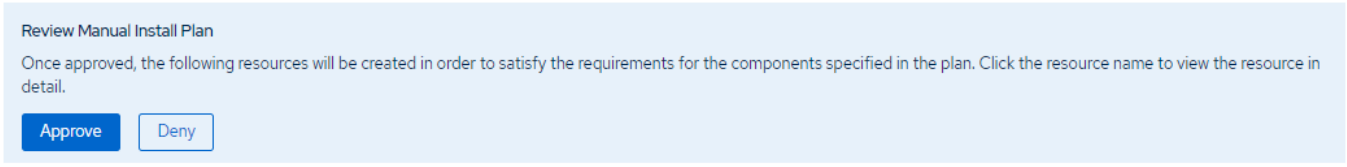
2. Click the Upgrade available For example, IBM FTM-DP-Interac e-Transfers-Send Operator.



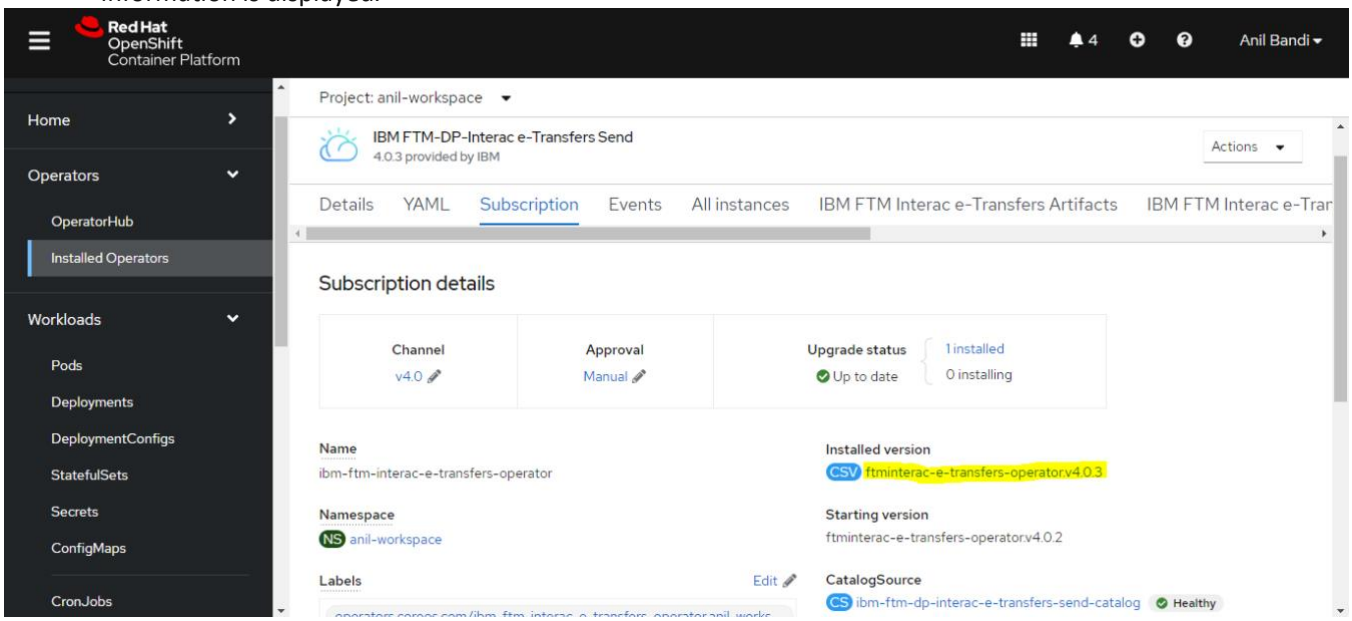
3. Click Preview Install Plan.



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 v4.0.3 (refer to the Version Table above)

2.3 Upgrade each FTM product Operand to “4.0.3.0_iFix3” (Artifact)

Use the following steps to upgrade the operand to “4.0.3.0_iFix3”

1. Log in to the OCP
2. Switch to your project: “oc project <project-name>”
3. Get the product artifact instance; edit the instance by updating the “version” to “**4.0.3.0_iFix3**“, then Save.

Product name	Command	Update version and save.
FTM Base	oc get ftmbaseartifacts oc edit ftmbaseartifacts <instance-name>	spec: license: accept: true **version: 4.0.3.0_iFix3**
FTM for Immediate Payments	oc get ftmipartifacts oc edit ftmipartifacts <instance-name>	spec: license: accept: true **version: 4.0.3.0_iFix3**
FTM for Digital Payments	oc get ftmdpartifacts oc edit ftmdpartifacts <instance-name>	spec: license: accept: true **version: 4.0.3.0_iFix3**
FTM for Interac e-Transfers	oc get ftminteracetransferartifacts oc edit ftminteracetransferartifacts <instance-name>	spec: license: accept: true **version: 4.0.3.0_iFix3**

2.4 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 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**

2.5 Migrate Db2 from iFix2 to iFix3

To migrate the Db2 FTM database from iFix2 to iFix3 follow the instructions in the **Db2_Migration_From_iFix2_to_iFix3.pdf** file which is stored in the Interac Entitled documents. See the FTM 4.0.3 Release Information for instructions on how to download the Interac Entitled documents.

2.6 Upgrade each FTM product Operand to “4.0.3.0_iFix3” (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**“
3. save the changes.

Note: It is recommended that you only enable the **init** containers **after the upgrade**. For more information about enabling the init containers see the IBM Documentation here. If you have already enable the init containers you can ignore this comment.

Product name	**Command**	**Update dr.mode to “active”; add version: 4.0.3.0_iFix3 and save.**
FTM Base	oc get ftmbase oc edit ftmbase <instance-name>	spec: license: accept: true **dr:** **mode: active** **version: 4.0.3.0_iFix3**
FTM for Immediate Payments	oc get ftmip oc edit ftmip <instance-name>	spec: license: accept: true **dr:** **mode: active** **version: 4.0.3.0_iFix3**
FTM for Digital Payments	oc get ftmdp oc edit ftmdp <instance-name>	spec: license: accept: true **dr:** **mode: active** **version: 4.0.3.0_iFix3**
FTM for Interac e-Transfers	oc get ftminteracetransfers oc get ftminteracetransfersimulators oc get ftminteracetransferreferences **if the instance was created by the runtime** **Note:** Update the simulators instance first. oc edit ftminteracetransfersimulators <instance-name> oc edit ftminteracetransfers <instance-name> **if the instance was created by the reference** oc edit ftminteracetransferreferences <instance-name>	**For Runtime Instance:** spec: license: accept: true **dr:** **mode: active** **version: 4.0.3.0_iFix3** **For Simulator Instance:** spec: license: accept: true **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.

3. Rollback to iFix2

3.1 Rollback the application Artifacts Operand to “4.0.3_iFix2”

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

Product name	**Command**	**Instructions:** **Update version and save.**
FTM Base	oc get ftmbaseartifacts oc edit ftmbaseartifacts <instance-name>	spec: license: accept: true **version: 4.0.3.0_iFix2**
FTM for Immediate Payments	oc get ftmipartifacts oc edit ftmipartifacts <instance-name>	spec: license: accept: true **version: 4.0.3.0_iFix2**
FTM for Digital Payments	oc get ftmdpartifacts oc edit ftmdpartifacts <instance-name>	spec: license: accept: true **version: 4.0.3.0_iFix2**
FTM for Interac e-Transfers	oc get ftminteracetransferartifacts oc edit ftminteracetransferartifacts <instance-name>	spec: license: accept: true **version: 4.0.3.0_iFix2**

This will automatically revert the Artifact pods to **4.0.3.0_iFix2** without the need to scale down these pods.

3.2 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.

3.3 Rollback Db2 to iFix2

To rollback the FTM Db2 database from iFix3 to iFix2 follow the instructions in the **Db2_Migration_From_iFix2_to_iFix3.pdf** file which is stored in the Interac Entitled documents. See the FTM 4.0.3 Release Information for instructions on how to download the Interac Entitled documents.

3.4 Rollback the Application Operand to “4.0.3_iFix2”

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

Note: It is recommended to only enable the **init** containers after the rollback. If you have already enabled the init containers you can ignore this note. See the IBM Documentation for information on the init containers here.

Product name	**Command**	**Instructions** **Update dr.mode to "active";** **Update version to 4.0.3.0_iFix2 and save.**
FTM Base	oc get ftmbase oc edit ftmbase <instance-name>	spec: license: accept: true **dr:** **mode: active** **version: 4.0.3.0_iFix2**
FTM for Immediate Payments	oc get ftmip oc edit ftmip <instance-name>	spec: license: accept: true **dr:** **mode: active** **version: 4.0.3.0_iFix2**
FTM for Digital Payments	oc get ftmdp oc edit ftmdp <instance-name>	spec: license: accept: true **dr:** **mode: active** **version: 4.0.3.0_iFix2**
FTM for Interac e-Transfers	oc get ftminteracetransfers oc get ftminteracetransfersimulators oc get ftminteracetransferreferences **if the instance was created by the runtime** **Note:** Update the simulators instance first. oc edit ftminteracetransfersimulators <instance-name> oc edit ftminteracetransfers <instance-name> **if the instance was created by the reference** oc edit ftminteracetransferreferences <instance-name>	**For Runtime Instance:** spec: license: accept: true **dr:** **mode: active** **version: 4.0.3.0_iFix2** **For Simulator Instance:** spec: license: accept: true **version: 4.0.3.0_iFix2**

Wait until the 4.0.3.0_iFix2 operand pods are created. After a successful upgrade, all the pods should be in a "Running" state.