Upgrading to FTM 4.0.3.0 interim fix 2 (iFix2) in a customer environment

The 4.0.3.0 interim fix 2 (iFix2) 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 https://www.ibm.com/docs/en/ftmfm/4.0.3?topic=financial-transaction-manager-red-hat-openshift
- Upgrade a system that has FTM for Interac e-Transfers 4.0.3.0 interim fix 1 (iFix1) installed to the 4.0.3.0 interim fix 2 (iFix2) level.

This documentation describes how to do an upgrade from 4.0.3.0 interim fix 1 (iFix1) to 4.0.3.0 interim fix 2 (iFix2)

Prerequisite for air gap clusters: Mirror the images to the external environment. For more information, see https://www.ibm.com/docs/en/ftmfm/4.0.3?topic=device-mirror-images-external-host.

Prerequisite for an upgrade installation:

- The 4.0.3 iFix1 version must be installed and running on the cluster.

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

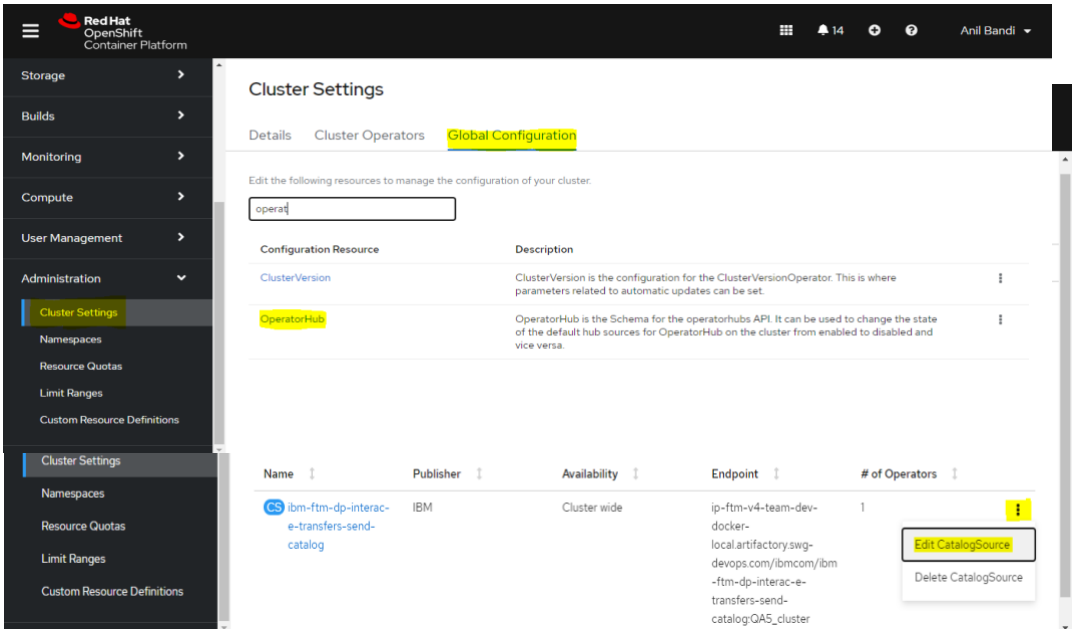
Release	Channel	Operator version	Operand version	Supported operands
403-GA	v4.0	4.0.0	4.0.3.0	4.0.3.0 only
403-iFix1	v4.0	4.0.1	4.0.3.0_iFix1	4.0.3.0 and 4.0.3.0_iFix1
403-iFix2	v4.0	4.0.2	4.0.3.0_iFix2	4.0.3.0 , 4.0.3.0_iFix1 and 4.0.3.0_iFix2

Note: If the catalog images are integrated with the cluster by using the latest tag, skip the step 1 section.

Step1: Manual steps for the catalog upgrade.

1. The cluster administrator updates the catalog source as follows: Log in to the OCP cluster as the cluster administrator.

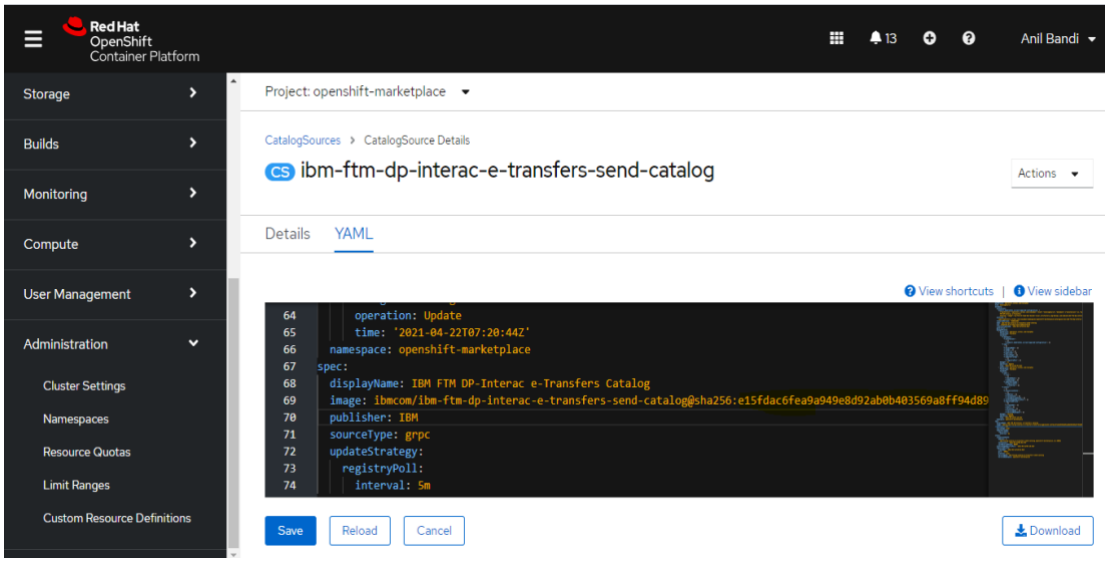
Click Administration > Cluster Settings > Global Configuration > OperatorHub



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

3. Replace the iFix1 image sha256 value with the following iFix2 image sha256 value and click Save.

Operator Catalogs	Interim fix 2 sha256 values.
FTM Base	docker.io/ibmcom/ibm-ftm-base-catalog@sha256:be8a949e3f9fe86d0828dbecca4205ddebb057065e52e14155aa1fc75c7290b3
FTM IP	docker.io/ibmcom/ibm-ftm-ip-catalog@sha256:47ecb8907e12724803f91a78ee1dc3c1618cb061098ba7bbd9a839b9a5c1d102
FTM DP	docker.io/ibmcom/ibm-ftm-dp-catalog@sha256:62aaf2e6e3d16b99c009ae2c236ea7c861a28189e08135a3e867f43a6585eb32
FTM Interac	docker.io/ibmcom/ibm-ftm-dp-interac-e-transfers-send-catalog@sha256:02d449b2daafc72cae57bc21f496434729628da4ddd56a8d8357fddc4fc1c5ce

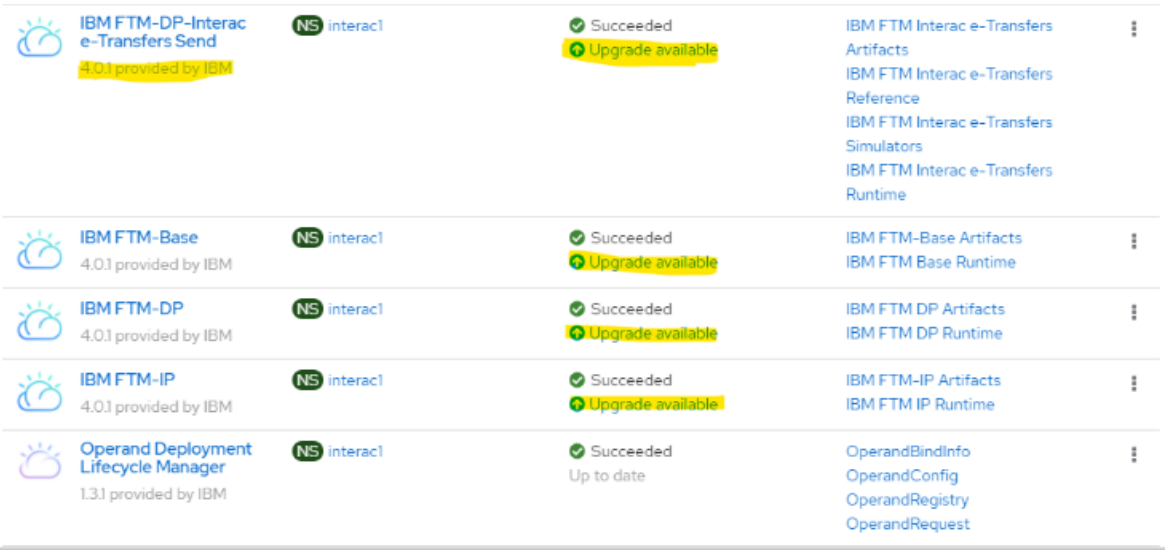


Step 2: Manual steps for the operator and the operand upgrade.

Operator upgrade

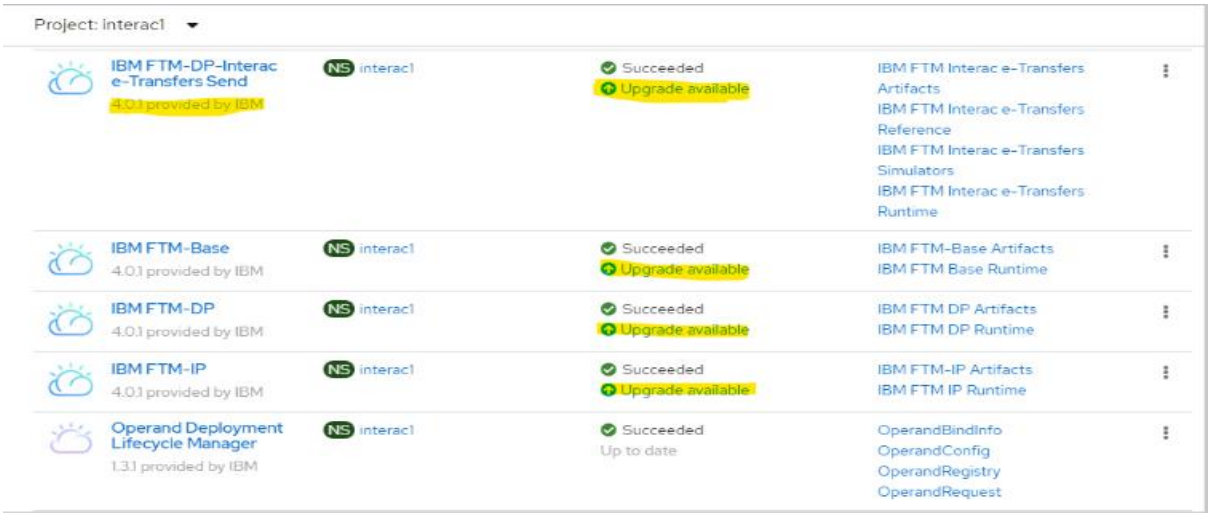
Note: If the approval strategy is set to automatic, the operator is automatically upgraded to v4.0.2. If the approval strategy is set to manual, follow these steps

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.

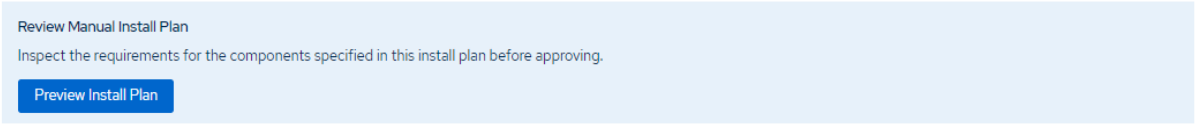


Note: The previous screen capture applies to OCP v4.6. For OCP v4.5, the status is shown as updating.

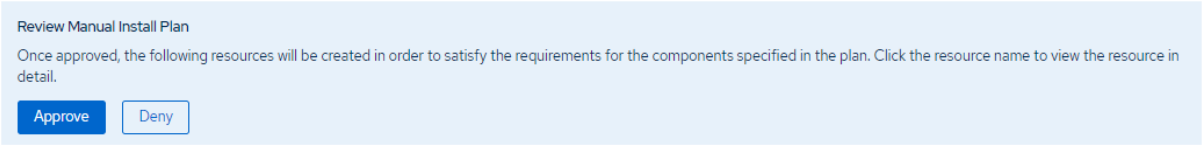
2. Click the Upgrade available For example, IBM FTM-DP-Interac e-Transfers-Send Operator.



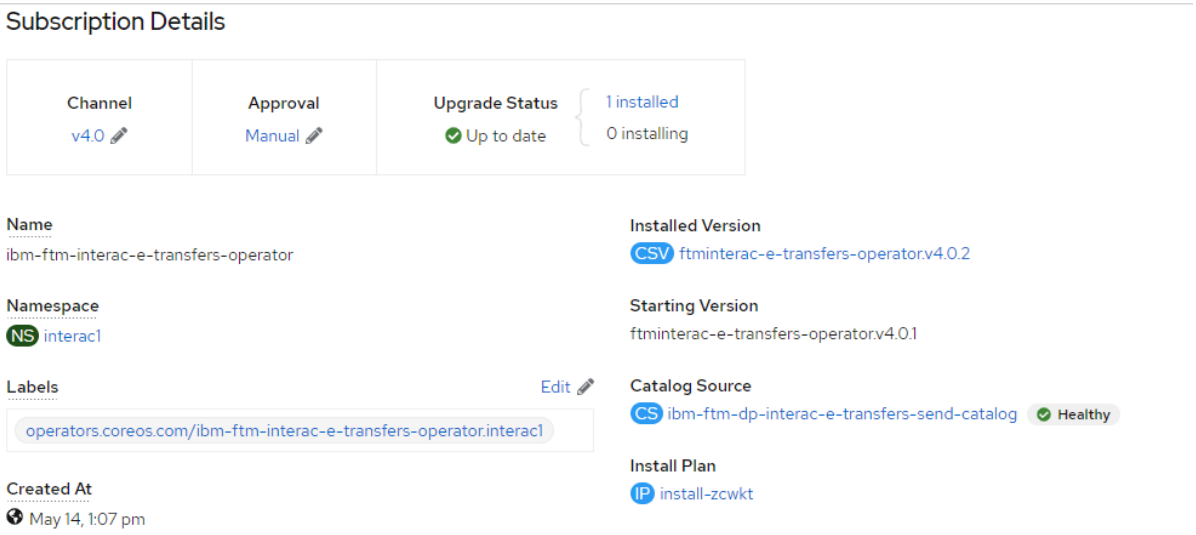
3. Click Preview Install Plan.



4. Click Approve.



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



The current installed version is updated to 4.0.2.

Note: If the operators were not automatically upgraded to v4.0.2, repeat this process for the remaining operators. That is, the operators for FTM base, FTM for Immediate Payments, FTM for Digital Payments, and FTM for Interac e-Transfers.

Operand Upgrade

Use the following steps to upgrade the operand from version 4.0.3.0_iFix1 to 4.0.3.0_iFix2

1. Log in to the OCP
2. Switch to your project.
   - oc project <project-name>
3. Get the artifact instance and edit the running artifact instance. Edit only the offering.

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_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

Note: You can use the new files to modify the external Db2 database.

4. Edit the running FTM application instance. Edit only the offering.
   Change the DR mode to passive and wait until all (that is, J2EE, J2SE, IBM MQ, and App Connect Enterprise) pods 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.

Product name	Command	Update dr mode 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	spec:

	oc edit ftminteracetransfers <instance-name> oc get ftminteracetransferreferences oc edit ftminteracetransferreferences <instance-name>	license: accept: true **dr:** **mode: passive**

5. Edit the running instance again to upgrade the operand. Edit only the offering.

   Change the DR mode to active. Update the operand version from 4.0.3.0_iFix1 to 4.0.3.0_iFix2. Then, save the changes.

   Note: Ensure that the bolded/colored section (in the 3rd column)is updated in the running instance custom resource.

   It is recommended to not enable the init containers when you do the upgrade, instead enable it after the upgrade. For more information about enabling the init containers after doing the interim fix upgrade, see the init container documentation.

Product name	Command	Update dr mode, add configuration 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. The artifacts and simulators pods are re-created if they are a part of the existing deployment. After a successful upgrade, all the pods are in a running state.