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## **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**

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# 1. Overview

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## 1.1 Purpose

This document enumerates the steps to:

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

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## 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.

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## 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.

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## 1.4 Version table

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

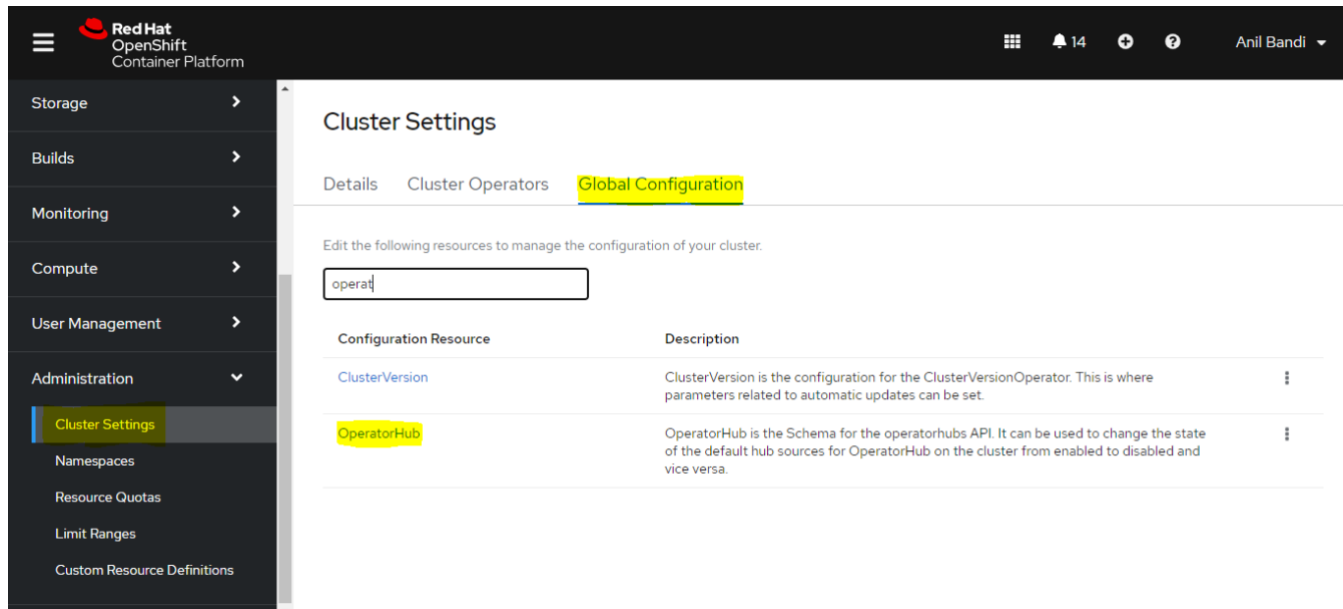
Release	Channel	Operator version	Operand version	Supported operands
403-GA	v4.0	v4.0.0	4.0.3.0	4.0.3.0 only
403-iFix1	v4.0	v4.0.1	4.0.3.0_iFix1	4.0.3.0 & 4.0.3.0_iFix1
403-iFix2	v4.0	v4.0.2	4.0.3.0_iFix2	4.0.3.0 , 4.0.3.0_iFix1 & 4.0.3.0_iFix2
403-iFix3	v4.0	v4.0.3	4.0.3.0_iFix3	4.0.3.0 , 4.0.3.0_iFix1,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



Red Hat OpenShift Container Platform

Cluster Settings

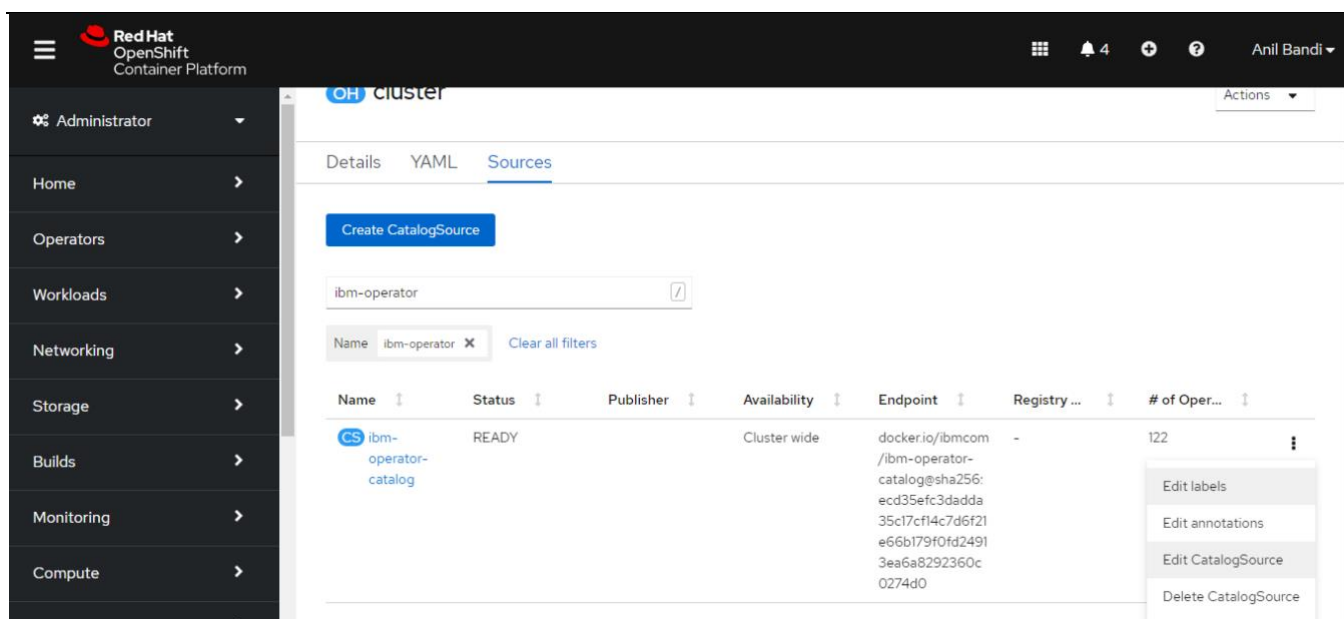
Details Cluster Operators **Global Configuration**

Edit the following resources to manage the configuration of your cluster.

operat

Configuration Resource	Description
<a href="#">ClusterVersion</a>	ClusterVersion is the configuration for the ClusterVersionOperator. This is where parameters related to automatic updates can be set.
<b><a href="#">OperatorHub</a></b>	OperatorHub is the Schema for the operatorhubs API. It can be used to change the state of the default hub sources for OperatorHub on the cluster from enabled to disabled and vice versa.

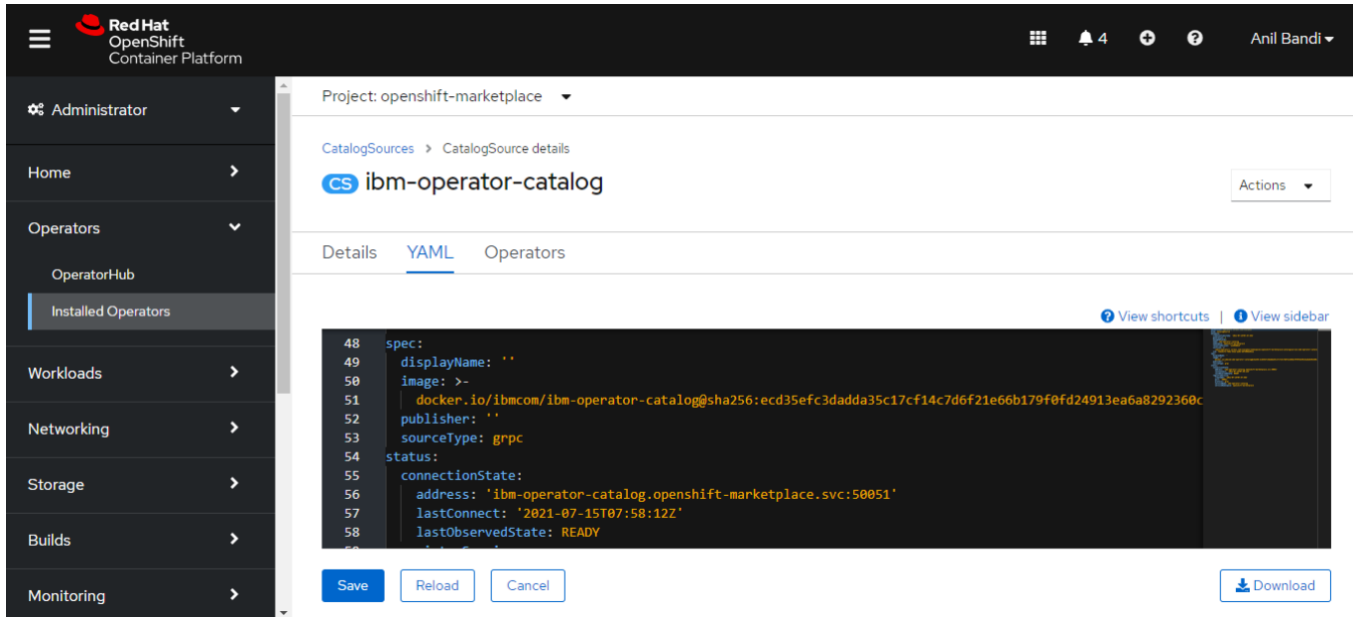
3. Select [Sources](#) > click the overflow menu of the catalog that you want to modify > [Edit CatalogSource](#)



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	<p><a href="https://icr.io/cpopen/ibm-operator-catalog@sha256:5a4ec096810ad019f6624d54aff6d8bddeabb20bbb3d094690f658d281bbfe60">icr.io/cpopen/ibm-operator-catalog@sha256:5a4ec096810ad019f6624d54aff6d8bddeabb20bbb3d094690f658d281bbfe60</a></p> <p>OR</p> <p>using the “<b>IBM catalog</b>” 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.</p> <p>The “IBM catalog” image name is: <i><b>icr.io/cpopen/ibm-operator-catalog:latest</b></i></p> <p><b>Notes:</b></p> <p>1) The sha value for “<i><b>icr.io/cpopen/ibm-operator-catalog:latest</b></i>” 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.</p> <p>2) IBM have moved from using the “<i><b>docker.io/ibmcom</b></i>” to using “<i><b>icr.io/cpopen</b></i>” as our public repository. IBM Container Registry (ICR) is IBM's preferred image repository for unauthenticated Operator Catalog Images. Namespace <b>cpopen</b> has been created in <b>icr.io</b> to host Operator, Bundle, Catalog and webhook images. The official location is <b>icr.io/cpopen</b></p>



## 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	<a href="https://icr.io/cpopen/ibm-ftm-dp-interac-e-transfers-send-catalog@sha256:546dfec3f811759dd92375004850597a31e86f7b94cbd64d2b36cbe30729ac99">icr.io/cpopen/ibm-ftm-dp-interac-e-transfers-send-catalog@sha256:546dfec3f811759dd92375004850597a31e86f7b94cbd64d2b36cbe30729ac99</a>

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.

Project: anil-workspace

Name Search by name...

Name	Managed Namespaces	Status	Provided APIs
<b>IBM FTM-DP-Interac e-Transfers Send</b> 4.0.3 provided by IBM	<b>anil-workspace</b>	Succeeded Upgrade available	IBM FTM Interac e-Transfers Artifacts IBM FTM Interac e-Transfers Reference IBM FTM Interac e-Transfers Simulators IBM FTM Interac e-Transfers Runtime
<b>IBM FTM-Base</b> 4.0.3 provided by IBM	<b>anil-workspace</b>	Succeeded Up to date	IBM FTM-Base Artifacts IBM FTM Base Runtime
<b>IBM FTM-DP</b> 4.0.3 provided by IBM	<b>anil-workspace</b>	Succeeded Up to date	IBM FTM DP Artifacts IBM FTM DP Runtime
<b>IBM FTM-IP</b> 4.0.3 provided by IBM	<b>anil-workspace</b>	Succeeded Up to date	IBM FTM-IP Artifacts IBM FTM IP Runtime

- Click the [Upgrade](#) available For example, [IBM FTM-DP-Interac e-Transfers-Send Operator](#).

Project: anil-workspace

Name	Managed Namespaces	Status	Provided APIs
<b>IBM FTM-DP-Interac e-Transfers Send</b> 4.0.3 provided by IBM	anil-workspace	Succeeded Upgrade available	<a href="#">IBM FTM Interac e-Transfers Artifacts</a> <a href="#">IBM FTM Interac e-Transfers Reference</a> <a href="#">IBM FTM Interac e-Transfers Simulators</a> <a href="#">IBM FTM Interac e-Transfers Runtime</a>
<b>IBM FTM-Base</b> 4.0.3 provided by IBM	anil-workspace	Succeeded Up to date	<a href="#">IBM FTM-Base Artifacts</a> <a href="#">IBM FTM Base Runtime</a>
<b>IBM FTM-DP</b> 4.0.3 provided by IBM	anil-workspace	Succeeded Up to date	<a href="#">IBM FTM DP Artifacts</a> <a href="#">IBM FTM DP Runtime</a>
<b>IBM FTM-IP</b> 4.0.3 provided by IBM	anil-workspace	Succeeded Up to date	<a href="#">IBM FTM-IP Artifacts</a> <a href="#">IBM FTM IP Runtime</a>

- Click [Preview Install Plan](#).

**Review Manual Install Plan**

Inspect the requirements for the components specified in this install plan before approving.

[Preview Install Plan](#)

- Click [Approve](#).

**Review Manual Install Plan**

Once approved, the following resources will be created in order to satisfy the requirements for the components specified in the plan. Click the resource name to view the resource in detail.

[Approve](#) [Deny](#)



- Go to [Installed Operators > Operator Name > Subscription](#). After a successful installation, the following information is displayed.

The screenshot shows the Red Hat OpenShift Container Platform interface. The left sidebar contains navigation links: Administrator, Home, Operators (selected), Workloads, Networking, Storage, Builds, and Monitoring. The Operators section is expanded, showing OperatorHub and Installed Operators. The main content area displays the details for the 'IBM FTM-DP-Interac e-Transfers Send' operator (version 4.0.5 provided by IBM). The 'Subscription' tab is selected, showing the following details:

Channel	Approval	Upgrade status
v4.0	Manual	<div> <div>Up to date</div> <div>1 installed</div> <div>0 installing</div> </div>

Below the table, the 'Name' is 'ibm-ftm-interac-e-transfers-operator' and the 'Namespace' is 'anil-workspace'. The 'Installed version' is 'ftminterac-e-transfers-operatorv4.0.5' (highlighted in yellow), and the 'Starting version' is 'ftminterac-e-transfers-operatorv4.0.3'.

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



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## 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 ftminteracettransferreferences oc edit ftminteracettransferreferences <instance-name>	spec: license: accept: true <b>dr:</b> <b>mode: passive</b>

## 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 “ <b>active</b> ”; add <b>version: 4.0.3.0_iFix3.1</b> and save.
FTM for Interac e-Transfers	<pre>oc get ftminteracetransfers oc get ftminteracettransferreferences</pre> <p><b>if the instance was created by the reference</b></p> <pre>oc edit ftminteracettransferreferences &lt;i-name&gt;</pre>	<p><b>For Runtime Instance:</b></p> <pre>spec:   license:     accept: true   dr:     mode: active     version: 4.0.3.0_iFix3.1</pre>

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.



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## 3. Rollback to iFix3

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### 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: <b>passive</b> and save.
FTM Base	oc get ftmbase oc edit ftmbase <instance-name>	spec: license: accept: true <b>dr:</b> <b>mode: passive</b>
FTM for Immediate Payments	oc get ftmip oc edit ftmip <instance-name>	spec: license: accept: true <b>dr:</b> <b>mode: passive</b>
FTM for Digital Payments	oc get ftmdp oc edit ftmdp <instance-name>	spec: license: accept: true <b>dr:</b> <b>mode: passive</b>
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 <b>dr:</b> <b>mode: passive</b>

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.

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## 3.2 Rollback the Application Operand to “4.0.3\_iFix3”

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

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

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.