

Managing Licenses

Overview

JFrog Mission Control manages activation, renewal and upgrade of all Artifactory type services under your control, including the following benefits:

- Upload your license buckets to Mission Control using a signed URL or by uploading an offline bucket file
- Licenses can be managed from the Mission Control UI or using [REST API](#)
- Large number of Artifactory services can be easily managed and automated using license buckets and [JFrog CLI](#)

License Bucket Management

Mission Control uses License Buckets to manage large number of Artifactory services. License buckets are available for Enterprise+, Artifactory Edge and Enterprise.

Once you have your license bucket(s), you can add them to Mission Control and match them against their services.

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Obtaining a License Bucket

Once your licence bucket is created, you will receive an email with a link to a dedicated web page.



Contacting your JFrog representative to create a bucket

For additional information on how you can get your License Buckets, please contact JFrog sales:

- Enterprise Buckets: sales@jfrog.com
- Enterprise+ and Artifactory Edge buckets: service_Eplus@jfrog.com

This page will display your personalized bucket license information needed when adding your bucket, including the **Bucket Identifier**, **Signed URL** and **Key**.

BUCKET LICENSE INFORMATION

During the installation, you'll be requested to specify the following bucket details.

TRIAL ENTERPRISE+ BUCKET & XRAY INCLUDED:

Contains **3** licenses, expires on **Jan 1, 2019**.

Bucket identifier:

Signed URL:

 Copy to Clipboard

 Download

[Blurred signed URL text]

Key:

 Copy

TRIAL EDGE BUCKET :

Contains **2** licenses, expires on **Jan 1, 2019**.

Bucket identifier:

Signed URL:

 Copy to Clipboard

 Download

[Blurred signed URL text]

Key:

 Copy

For any assistance please contact: service_Eplus@jfrog.com.

Adding a License Bucket

There are two ways to add your license bucket:

1. The [Onboarding Wizard](#)
2. The Admin Module



Using a Signed URL

When using a signed URL to download a license bucket, the URL points to a location on JFrog Bintray. Ensure the host running Mission Control is able to connect to URLs prefixed with `https://dl.bintray.com/`

Onboarding Wizard

Step 4 of the [Onboarding Wizard](#) allows you to add your license buckets using an **Offline Bucket File** or **Signed URL** and **Bucket Key**.

Add License Bucket

Add license buckets to simplify the management of licenses for large numbers of Artifactory instances.

i Enter your license bucket URL or upload the bucket file, and enter the Key. Skip this step if you do not have a bucket. Repeat this step if you have more than one bucket.

Name *

File upload URL

Drop file here or Select file

Key *



Back Skip Create

Add L

Add license

i Ent
buc

Name *

File upl

Signed URL

Key *

Admin Module

Go to the **Admin module > Licenses > Bucket Management**, and click **Add new bucket**.

License Bucket

[+ Add new bucket](#)

1 Bucket

Filter by Bucket Name or Bucket ID

< Page 1 of 1 >

Bucket Name	Bucket ID	License Type	Issue Date	Expiry Date	Used / Bucket Size	Customer Name
New-Bucket	415921223	ENTERPRISE	2017-10-30	2018-10-30	0 / 5	JFrog

Enter a **Name** for your bucket, an **Offline Bucket File** or **Signed URL**, the **Key** you received from your JFrog representative, and click **Add Bucket**.

License Bucket

New Bucket _____

Name *

File upload URL

Drop file here or Select file

Key *

Cancel Add Bucket

Licenses

New Bucket _____

Name *

File upload URL

Signed UP

Key *



Matching the URL and Key

For more than one license bucket, make sure the URL and Key that you enter correspond to the same Bucket Identifier.



Bucket name and identifier are two different things

Don't confuse the bucket Name with the Bucket Identifier. The bucket name is an arbitrary logical name you assign to the bucket. The identifier is a unique identifier assigned to the bucket by JFrog.

Once the license bucket has been loaded into Mission Control, you can attach licenses from it using [JFrog CLI](#).

Viewing Bucket Information

A bucket report provides a variety of information on usage of licenses in the bucket. To view a bucket report, hover over a bucket and select **View Report** from the **Actions** drop down menu.

License Bucket

Add New Bucket

4 Items

Filter 1 out of 1

Bucket Name ^	Bucket ID	License Type	Issue Date	Expiry Date	Used / Bucket Size	Customer Name
> edge	905539862	EDGE	Mar 5, 2018	Mar 5, 2019	2 / 3	JFrog
> EnterprisePlus	486609822	EDGE_TRIAL	Apr 26, 2018	May 26, 2019	1 / 10	JFrog
> EntRTPlus	187594975	ENTERPRISE_PLUS_TRIAL	Apr 26, 2018	May 26, 2019	3 / 10	JFrog
july26	263128383	EDGE	Jul 17, 2018	Jul 17, 2019	0 / 5	JFrog

View Report

Attach License

Split

Delete

License Bucket

Bucket Report: EntRTPlus

Total Licenses: 10
 Bucket Identifier: 187594975
 Expiry Date: May 26, 2019
 Maximum consumed licenses over time: 3

Split Buckets

1 Item

Filter 1 out of 1

Bucket Name ^	Bucket Identifier	Issue Date	# licenses
Bucket1	187594975-1	Mar 17, 2019	2

Services

1 Item

Filter 1 out of 1

Service Name ^	Description	Site	# licenses
NinetyTwo	92 server	Bengaluru	1

Close

Total Licenses	The total number of licenses in this bucket.
Bucket Identifier	The identifier of this license bucket.
Expiry Date	The expiry date for this license bucket.
Max. consumed licenses	The maximum number of licenses that were ever in use concurrently during the validity period of this bucket.
Split Buckets	The additional buckets split from this original bucket.
Services	The services attached to this license bucket.



Do you have enough or too many licenses in your bucket?

Max. Consumed Licenses shows you that highest number licenses you ever used during the validity period of this bucket. This is something to consider when you renew your JFrog Artifactory licenses.

- If you not used all the licenses in this bucket concurrently, you may be able to manage with fewer licenses.
- If you reached the total number of licenses in this bucket, you may not be meeting the demand for Artifactory services in your organization and should consider purchasing more Artifactory licenses.

Splitting a License Bucket

A license bucket can be split into any number of separate buckets that can be applied to multiple environments as needed.

This is useful for isolated environments that have disconnected networks, and each require a separate Mission Control service. For example: separate environments for Development, Staging and Production. In this case you would split the bucket into additional sub-buckets that can be assigned to each Mission Control service that's within each one of the environments in your organization.

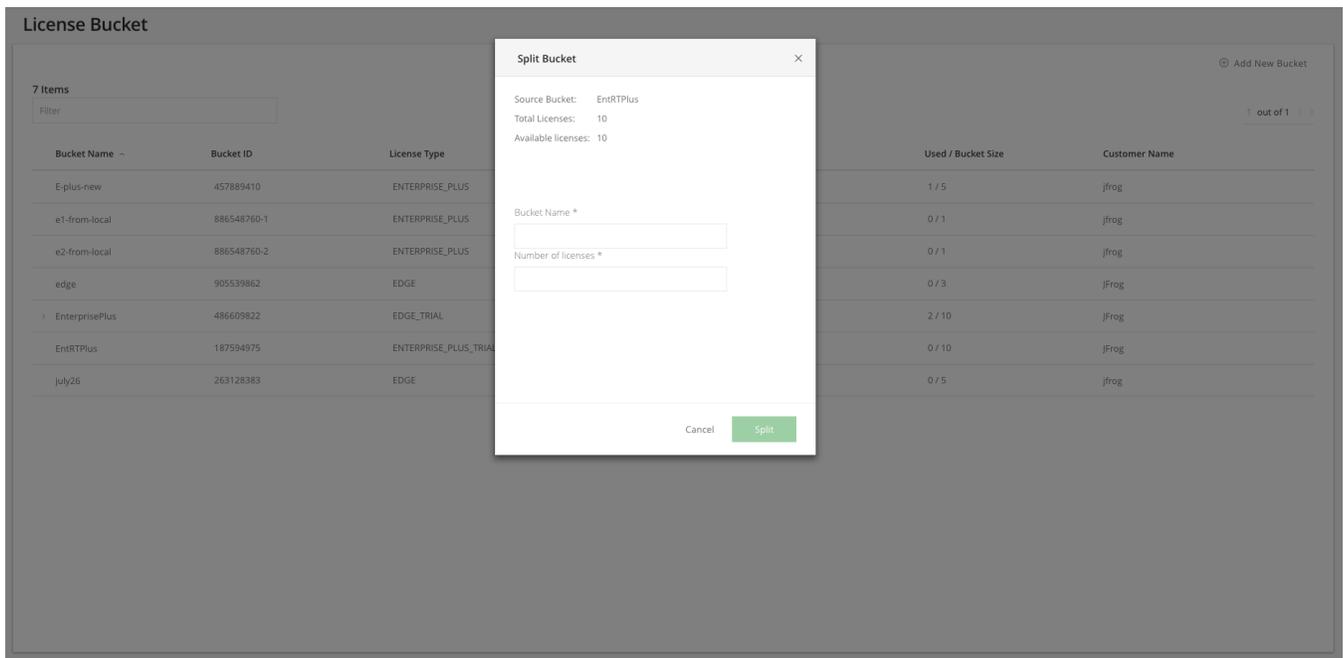
To Split a bucket, select "Split" from the action drop down list.

The screenshot shows the JFrog Mission Control interface for License Buckets. The top navigation bar includes the JFrog logo, 'JFrog Mission Control', a search icon, and buttons for 'Add Service', 'Execute Script', 'Welcome, Insight (Log Out)', and 'Help'. The main content area is titled 'License Bucket' and shows '4 Items'. A filter input field is present. The table below lists the buckets:

Bucket Name ^	Bucket ID	License Type	Issue Date	Expiry Date	Used / Bucket Size	Customer Name
edge	905539862	EDGE	Mar 5, 2018	Mar 5, 2019	0 / 3	JFrog
EnterprisePlus	486609822	EDGE_TRIAL	Apr 26, 2018	May 26, 2019	0 / 10	JFrog
EntRTPlus	187594975	ENTERPRISE_PLUS_TRIAL	Apr 26, 2018	May 26, 2019	0 / 10	JFrog
July26	263128383	EDGE	Jul 17, 2018	Jul 17, 2019	0 / 5	jfrog

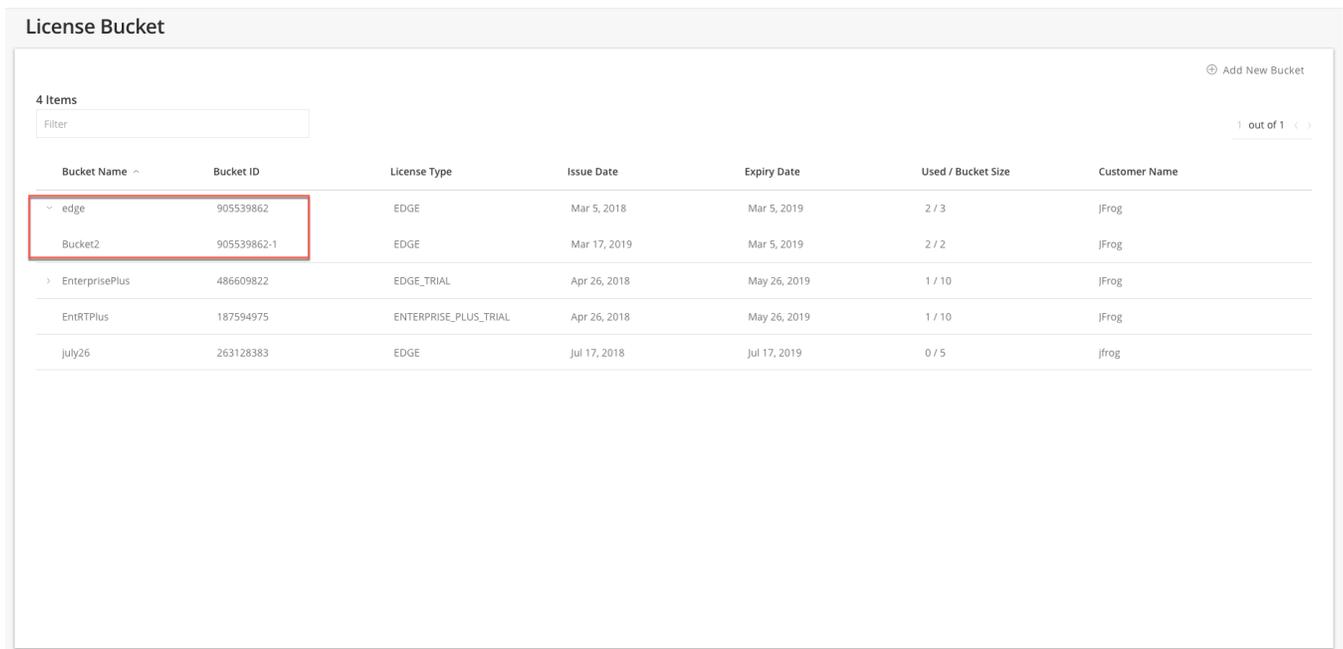
A context menu is open for the 'July26' bucket, showing options: 'View Report', 'Attach License', 'Split' (highlighted with a red box), and 'Delete'. The 'Split' option is the one to be selected according to the text.

Add the new bucket name and the number of licenses to assign to it.



Once the new bucket is created, it will be added below the original bucket with the same name, appended by a dash and an ordered number. For example:

- original bucket ID: 905539862
- new bucket ID: 905539862-1



The newly created licences bucket should be downloaded and uploaded to the Mission Control environment it is intended for.

To download the split license bucket, hover over the bucket and select **Download Bucket** and **Copy Key** from the from the **Actions** drop down menu.

License Bucket

4 Items

Filter

1 out of 1 < >

⊕ Add New Bucket

Bucket Name ^	Bucket ID	License Type	Issue Date	Expiry Date	Used / Bucket Size	Customer Name	
> edge	905539862	EDGE	Mar 5, 2018	Mar 5, 2019	2 / 3	JFrog	
~ EnterprisePlus	486609822	EDGE_TRIAL	Apr 26, 2018	May 26, 2019	1 / 10	JFrog	
e1	486609822-1	EDGE_TRIAL	Mar 17, 2019	May 26, 2019	1 / 1	JFrog	
> EntRTPlus	187594975	ENTERPRISE_PLUS_TRIAL	Apr 26, 2018	May 26, 2019	3 / 10	JFrog	
july26	263128383	EDGE	Jul 17, 2018	Jul 17, 2019	0 / 5	jfrog	

-  View Report
-  Download Bucket
-  Copy Key
-  Delete

Removing a License Bucket

To remove a license bucket, go to **Admin > Licenses > Bucket Management**, hover over a specific bucket and select **Delete** from the **Actions** drop down.



Removing the bucket will not remove the licenses from the services

Once the license bucket is removed, the services that were attached to it should be assigned to a new bucket.

License Bucket

4 Items

Filter

1 out of 1 < >

⊕ Add New Bucket

Bucket Name ^	Bucket ID	License Type	Issue Date	Expiry Date	Used / Bucket Size	Customer Name	
> edge	905539862	EDGE	Mar 5, 2018	Mar 5, 2019	2 / 3	JFrog	
> EnterprisePlus	486609822	EDGE_TRIAL	Apr 26, 2018	May 26, 2019	1 / 10	JFrog	
> EntRTPlus	187594975	ENTERPRISE_PLUS_TRIAL	Apr 26, 2018	May 26, 2019	3 / 10	JFrog	
july26	263128383	EDGE	Jul 17, 2018	Jul 17, 2019	0 / 5	jfrog	

-  View Report
-  Attach License
-  Split
-  Delete

Automating License Buckets with CLI

Using license buckets and JFrog CLI, you can easily automate, and therefore greatly simplify, managing licenses for a large number of Artifactory services.

Using Mission Control CLI

JFrog CLI is a compact and smart client that provides a simple interface to JFrog Mission Control (through its REST API). It can be used by your automation environment for fully automated license management for all your Artifactory services through Mission Control. For details on downloading and installing JFrog CLI, please refer to the [JFrog CLI documentation](#).

While each Artifactory license can only activate one Artifactory service at a time, you are free to move any license around to different Artifactory services as long as the license remains valid. For example, you can temporarily attach a license from a bucket to an Artifactory service used for a specific development project. Once the project is complete and the Artifactory service is no longer needed, you can detach the license and return it to the bucket managed by Mission Control.

Attaching and Detaching Licenses

You can attach and detach licenses with the JFrog CLI.

The `attach-lic` command extracts a license from the bucket specified and attaches it to the specified Artifactory service.

The `detach-lic` command removes the specified license from the specified Artifactory service and returns it to the specified bucket in JFrog Mission Control.

A license always belongs to the same bucket

When you detach a license, it is always returned to the same bucket it was attached from.

For details on using the JFrog CLI to [attach](#) and [detach](#) licenses, please refer to the [JFrog CLI documentation](#).

Working with Artifactory HA

From version 5.0 of JFrog Artifactory, licensing for all cluster nodes in an Artifactory High Availability configuration are managed through the [Cluster License Manager](#). When attaching or detaching licenses to an HA cluster, Mission Control will detect the Artifactory version and work accordingly with the Cluster License Manager if the version is 5.0 or above, or directly with each node for earlier versions of Artifactory.

Updating Licenses

To attach a license bucket, hover over the bucket and select **Attach License** from the **Actions** drop down menu.



Split Licence Buckets

A split bucket is intended to be applied to Artifactory services in a separate Mission Control environment. When applying licenses, split licenses should not be used.

The Attach License page displays the available and used licenses within the selected license bucket, and the **online** Artifactory services managed by this Mission Control service.

You can attach as many licenses to an Artifactory cluster as needed.



Attaching additional licenses to your Artifactory cluster will allow you to dynamically scale it up on demand.

To set the **number of licences** you would like to attach to each service, select the **green check icon** and click on **Attach licenses**. You can set the licenses to all services in bulk by selecting the uppermost green checkbox.

The "**# Licenses to Attach**" column initially displays the minimum number of licenses the specific service requires. You can increase this number according to the number of available licenses in your bucket. However, you cannot attach less licenses than this default number.



Detaching Licenses

Licenses can only be detached from the Artifactory service.

License Bucket ⊕ Add New Bucket

7 Items 1 out of 1

Filter

Bucket Name	Bucket ID	License Type	Issue Date	Expiry Date	Used / Bucket Size	Customer Name
E-plus-new	457889410	ENTERPRISE_PLUS	Mar 4, 2019	Mar 4, 2020	1 / 5	Jfrog
e1-from-local	886548760-1	ENTERPRISE_PLUS	Mar 19, 2019	Mar 15, 2020	0 / 1	Jfrog
e2-from-local	886548760-2	ENTERPRISE_PLUS	Mar 20, 2019	Mar 15, 2020	0 / 1	Jfrog
edge	905539862	EDGE	Mar 5, 2018	Mar 5, 2019	0 / 3	JFrog
> EnterprisePlus	486609822	EDGE_TRIAL	Apr 26, 2018	May 26, 2019	2 / 10	JFrog
EntRTPlus	187594975	ENTERPRISE_PLUS_TRIAL	Apr 26, 2018	May 26, 2019	0 / 10	JFrog
july26	263128383	EDGE	Jul 17, 2018	Jul 17, 2019	0 / 5	Jfrog

License Management for individual Artifactory or Artifactory Edge

To apply licenses to a single Artifactory instance use the following steps:

1. [Add a new bucket](#)
2. Select [Edit service](#) for an existing Artifactory or Edge service
3. In the credentials section, enter username/password and select **Test Connectivity**. If the connectivity test succeeds, the dropdown for bucket selection is enabled.
4. Choose the new bucket from the list and select Save.

Mission Control will determine the number of licenses the selected Artifactory/Edge instance requires and deploys that many licenses. If the existing licenses have better expiry than the selected bucket, then no action is taken.



Artifactory / Artifactory Edge licenses

Note: For Artifactory and Artifactory Edge services, buckets of both types are available for selection. This allows you to switch an Artifactory to Artifactory Edge or vice versa.