



TIBCO Foresight® REST API

BCCE Installation and Deployment

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Contents

Contents	2
Installation Overview	3
Installation Requirements	4
System Requirements	4
Required TIBCO Products	5
Required Third-Party Products	6
TIBCO Foresight REST API Dockerfiles and Scripts	8
Dockerfiles and Scripts	8
Configuration files	9
Deploying TIBCO Foresight REST API Application	10
In Console Mode	10
Building TIBCO Foresight REST API Engine for Docker Images	11
Building TIBCO Foresight REST API Component's Docker Images	12
In Silent Mode	17
Building TIBCO Foresight REST API Docker Image	17
Deploying TIBCO Foresight REST API Component's Docker Image	24
Uninstalling TIBCO Foresight REST API Component	27
TIBCO Documentation and Support Services	28
Legal and Third-Party Notices	30

Installation Overview

TIBCO BusinessConnect™ Container Edition is the containerized edition of TIBCO BusinessConnect™, TIBCO's leading enterprise B2B gateway.


BusinessConnect™ Container Edition does not have TIBCO Universal Installer. It contains Dockerfiles, scripts, and configuration files with preloaded settings to build and deploy Docker image of each component either on Docker or Kubernetes platform.

This document covers the instructions to build and deploy the TIBCO Foresight® REST API component Docker image as part of BCCE Container Edition installation.

Installation Requirements

Before you install and deploy the application, ensure that your system meets all the hardware and software requirements. For more information about the hardware and software requirements, supported platforms, versions, and the required patches, see the product *Readme* file.

The *Readme* file can be obtained either on the [TIBCO Product Documentation](#) website or from the [TIBCO eDelivery](#) website with the product software.

 **Note:** To access the [TIBCO eDelivery](#) website, you need a username and password. If you did not receive a username and password, contact [TIBCO Support](#).

System Requirements

Supported Platforms

The supported platforms are as follows:

- CentOS 7.7 64-bit on x86-64
- Ubuntu Server 18.04 64-bit on x86-64

Disk Space Requirements

The minimum disk space requirement is 20 GB.

System Memory Requirements

The minimum system memory requirement is 4 GB.

Required TIBCO Products

The following table lists the required and optional TIBCO products.



Note: The following software products are distributed and installed separately from this product. See the *Readme* file for the supported versions.

Software	Description
TIBCO® Auditsafe	<p>Required.</p> <p>TIBCO Auditsafe is used to securely post and store audit events generated by your business processes, and retrieve those events later.</p> <p>You must deploy and run TIBCO Auditsafe to post audit logs from TIBCO BusinessConnect™ Container Edition.</p>
TIBCO Enterprise Message Service™	<p>Required.</p> <p>Enterprise Message Service™ is used as the notification and messaging backbone for BusinessConnect™ Container Edition. It is also used for internal communication between the Interior Server and Poller Server, and Interior Server and Gateway Server.</p> <p>BusinessConnect Container Edition and Enterprise Message Service can be installed on the same machine or on different machines in the same environment.</p> <p>BusinessConnect Container Edition license does not include Enterprise Message Service software. You must separately obtain an Enterprise Message Service license or another supported JMS product.</p>
TIBCO Foresight® Instream® Standard or Healthcare Edition	<p>Foresight® Instream is used to validate EDI and flat files, and to produce response documents and split data.</p>
TIBCO Foresight® Translator	<p>Foresight® Translator is used to translate EDI files to and from XML.</p>
TIBCO	<p>Optional.</p>

Software	Description
BusinessConnect™ Container Edition – Services Plug-in	<p>BusinessConnect™ Container Edition – Services Plug-in is an easy-to-use data transfer protocol, which you can use to securely exchange data over the internet.</p> <p>Trading partners managed by BusinessConnect Container Edition can quickly and efficiently be configured to exchange documents securely with the BusinessConnect Container Edition host using this plug-in, without the overhead of interpreting the document contents.</p>
TIBCO BusinessConnect™ Container Edition – EDI Protocol powered by Instream®	<p>Optional.</p> <p>BusinessConnect™ Container Edition – EDI Protocol powered by Instream® is the TIBCO B2B solution for transferring Electronic Data Interchange (EDI) documents between trading partners. It can be used for all EDI integration scenarios, including connecting directly to trading partners and connecting to value added networks (VANs).</p>

Required Third-Party Products

The following table lists the required third-party products.

i Note: When you obtain third-party software or services, it is your responsibility to ensure you understand the license terms associated with such third-party software or services and comply with such terms. See the product *Readme* file for the supported versions.

Software	Description
Docker	<p>Docker provides a way to securely run applications isolated in a container, packaged with all its dependencies and libraries. Your application can run in any environment as all the dependencies are already present in the image of the application.</p> <p>You must install Docker to build the Docker images. For more information about Docker installation and initial setup based on your operating system,</p>

Software	Description
	<i>see Docker Documentation.</i>
kubectrl	Kubernetes provides many advantages such as scaling, high-availability, and recovery. You must install Kubectl to deploy BusinessConnect Container Edition on the Kubernetes cluster. For more information, see <i>Kubernetes Documentation</i> .
Kubernetes cluster	<p>You must set up a Kubernetes cluster to deploy and run the BusinessConnect Container Edition services.</p> <p>Note: To run the application in a Kubernetes cluster on a cloud platform, you must have an active account on that cloud platform.</p>

TIBCO Foresight REST API Dockerfiles and Scripts

Foresight® REST API installation and deployment packages provide all the necessary Dockerfiles, scripts, and configuration files to install, deploy, and uninstall all the Foresight REST API services or deployments.

Dockerfiles and Scripts

A Dockerfile is simply a text-based script of instructions that is used to create a container image.

File	Description
build-fsrest-engine.sh	Creates the Foresight Instream/Foresight Translator engine used by the Foresight REST API image.
build-images.sh	Creates the Foresight REST API Docker images and push the images to the Docker repository.
deploy-fsrest.sh	Deploys the Foresight REST API services onto the Kubernetes cluster.
docker-run-fsrest.sh	Deploys the Foresight REST API image to the docker registry.
remove_fsrest_services.sh	Deletes Foresight REST API services from Kubernetes cluster.
apply_secret_docker_login.sh	Creates the Kubernetes secret Docker-registry for Docker login.
stop_fsrest_container.sh	Stop and remove the docker container from the docker registry.

File	Description
build-fsrest-image-silent.sh	Creates the Foresight REST API docker images and pushes the images to the docker repository.

Configuration files

A configuration file (config file) is used to configure the parameters, settings, and preferences.

File	Description
configuration.properties	Contains the docker properties to be set before building Foresight REST API docker images.
build-fsrest-image-silent.properties	Contains all other properties to be set before building Foresight REST API docker images.
deployment.properties	Contains all the properties that user has to set to deploy the BusinessConnect Container Edition's Docker images to the Kubernetes cluster.

Deploying TIBCO Foresight REST API Application

Before you begin

You can build the docker image for Foresight REST API either in console mode or in silent mode. Each mode is supported on all the available platforms of Foresight REST API. Ensure that you have the infrastructure and other requirements listed in [Installation Requirements](#).

To build the docker image for Foresight REST API, perform the steps described in the following section.

- [In Console Mode](#)
 - [Building TIBCO Foresight REST API Engine for Docker Images](#)
 - [Building TIBCO Foresight REST API Component's Docker Images](#)
- [In Silent Mode](#)
 - [Building TIBCO Foresight REST API Docker Image](#)

To deploy Foresight REST API components on Docker or Kubernetes platform, perform the steps described in the following sections.

- [Deploying TIBCO Foresight REST API Component's Docker Images](#)

In Console Mode

In console mode, you can run the installer on a command line. This is useful if your machine does not have a GUI environment.

Building TIBCO Foresight REST API Engine for Docker Images

This step builds the Foresight Instream/Foresight Translator engine that the Foresight REST API Docker image will use. Building the Foresight REST API engine requires that the customer's licensed versions of Foresight Instream (Standard or Healthcare) and/or Foresight Translator be installed on the machine where the Foresight REST API Docker image is to be built.

The Foresight REST API engine must be built (or rebuilt) when:

- Foresight REST API is first installed on a machine.
- An update or hot fix to Foresight Instream and/or Foresight Translator is released and installed on the machine where the Foresight REST API Docker image is being built.
- For Healthcare customers, whenever an update to the code tables or guidelines is released and installed on the machine where the Foresight REST API Docker image is being built.

Perform the following steps to build the Foresight REST API Engine:

Procedure

1. Download `TIB_fsrest_1.2.0.tar.gz` file from the [TIBCO eDelivery](#) site, and extract the file contents to a folder.

To download the installation package, you require a username and password. In case you do not have it, contact TIBCO Technical Support.

2. For new Foresight REST API installations, or if the Foresight Instream and/or Foresight Translator installations have been removed, first install Foresight Instream (either Standard or Healthcare version) and/or TIBCO Foresight Translator.

Update Foresight Instream and/or Foresight Translator with any updates or hot fixes, or for healthcare customers, apply any code table or guideline updates.

3. Navigate to the `<folder>/fsrest-1.2.0/images/scripts` folder
4. Run the following command:

```
./build-fsrest-engine.sh
```

5. Follow the prompts, entering the locations where Foresight Instream and Foresight

Translator are installed. If one of these packages was not installed on the system, enter 'none' for its location.

Upon entry of the Foresight Instream/Foresight Translator locations, the script will display a screen to approve the engine build:

```

** Specify the Instream and Translator installations to use in
FSRest Engine

    Enter path of Instream installation to use or 'none':
/home/username/FSRest/TIBCO/Instream920/instream/9.2
    Use Instream installation in
'/home/username/FSRest/TIBCO/Instream920/instream/9.2' (y/n)? y

    Enter path of Translator installation to use or 'none':
/home/username/FSRest/TIBCO/Translator4.1/translator/4.1
    Use Translator installation in
'/home/username/FSRest/TIBCO/Translator4.1/translator/4.1' (y/n)? y

** Confirming components to be used to build FSRest
Instream/Translator Engine:
    Instream source directory   =
'/home/username/FSRest/TIBCO/Instream920/instream/9.2' (Healthcare
Version)
    Translator source directory =
'/home/username/FSRest/TIBCO/Translator4.1/translator/4.1'

    Proceed to build FSRest engine (y/n/q)?

```

Building TIBCO Foresight REST API Component's Docker Images

To run the Foresight REST API components on the Docker or Kubernetes platform, you must first build the Docker images for the components and applications.

Before you begin

1. From [TIBCO eDelivery](#), download the TIB_fs-restapi-1.2.0.tar.gz installation package.
2. Extract the contents of the package to a local directory.

3. For initial setup and additional technical details, see the *README* file located in the `fs-restapi-1.2.0 > scripts` directory.

Procedure

1. Navigate to the `<folder>/fsrest-1.2.0/images/config` directory.
2. Open the `configuration.properties` file and configure the properties listed in the following table.

Property	Description
docker_repository = <code><docker_registry_ip>:<docker_registry_port></code>	<code><docker_registry_ip></code> is the IP address and <code><docker_registry_port></code> is the port of the machine to which you want to push the Docker images
docker_username	Specify the username required to log in to Docker

3. Save and close the `configuration.properties` file.
4. Build the Foresight REST API Foresight Instream/Foresight Translator engine as described in the previous section.
5. Navigate to the `<folder>/fsrest-1.2.0/images/scripts` directory.
6. Run the following command:

```
./build-images.sh
```

If you are running the script for the first time, the following message is displayed:

```
You must accept the License agreement before proceeding. Press
ENTER key to read the License. Press q to finish reading.
```

7. Press the **Enter** key to read the license agreement. Press **q** to finish the reading.
8. Enter 'y' to accept the license agreement.
9. You are now prompted to confirm the Foresight REST API engine component paths. Foresight REST API Docker image is built with the following Foresight Validation/Translation engine:

```

FSRest Engine Build                               Mon Dec 11 05:49:17 EST
2023

=====
====
Instream component:
'/home/tibco/FSRest/TIBCO/Instream920/instream/9.2' (Healthcare
Version)
Translator component:
'/home/tibco/FSRest/TIBCO/Translator4.1/translator/4.1'
Created by user:      tibco pts/1      2023-12-11 01:18
(xx.xx.xxx.175)

Proceed with this Engine? (y/n)

```

Check the details. Enter 'y', if you want to proceed with this engine and 'n' if you do not want to proceed with this engine.

10. After confirming the engine paths, you are prompted to clean up the path `images/services/fsrest/misc/FSRestDirs/guidelines/` where the user might have uploaded customized guidelines and map files and copy the guidelines and maps from the Foresight REST API engine.

```

Do you want to clean up the from the guidelines under the FSRest
image's guidelines resource directory? Please answer (y)es or (n)o.
Do you want to copy the guidelines from FSRest Engine? Please
answer (y)es or (n)o.
Do you want to clean up the map files under the FSRest image's maps
resource directory? Please answer (y)es or (n)o.
Do you want to copy the map files from FSRest Engine? Please answer
(y)es or (n)o.

```

i Note: This step copy the guidelines and map files present in the Database directory of Foresight REST API engine to the container. However, coping these guidelines and map files from container to `mount_path` is not supported in this release.

11. After clean-up and copying the guidelines, you are prompted to enable SSL.
By enabling SSL, the user can call Foresight REST API through HTTPS to encrypt communication so that attackers cannot steal data.

Do you want to enable ssl? Please answer (y)es or (n)o.

i Note: Do not select (y)es unless you intend to update the default deploy script.

If you enter (n)o, you are directly prompted to the next step. However, if you enter (y)es, you are prompted to enter the following details related to the SSL, before you move to the next step.

Properties	Description
keystoreFile	This is the path where the certificate is stored in your local machine. < Path to the file > / <keystore-filename>
keystoreType	Keystore type PKSCS12 or JKS
keystorePass	Keystore password

i Note: If you enable SSL, Foresight REST API runs on HTTPS with port 8443. While running the docker image, ensure that you map port 8443 instead of 8080.

i Note: This release of Foresight REST API only supports server-side SSL authentication.

12. After enableSSL confirmation, you are prompted to configure the API key. An API Key security is a code used to authenticate an application.

Do you want to secure with API key? Please answer (y)es or (n)o

If you enter (n)o, you are directly prompted to the next step. However, if you enter (y)es, you are prompted to enter the following details related to the key, before you

move to the next step.

i Note: Enabling this requires the application to use a valid API key to communicate with Foresight REST API. Do not select (y)es unless BCCE supports this.

Property	Description
jdbc.platform	MySQL or Oracle If you are using an Oracle database, add its connector lib path to the database.driver.path
jdbc.driver	Database driver URL
jdbc.url	Database connection URL
jdbc.username	Database username
jdbc.password	Database password
jdbc.databasesname	Database name for MYSQL database
APIKeyExpireTime	Expire time (in seconds) for API key

- In the next step, you are prompted to enter the docker password for the details entered in the configuration.properties file. Enter the password.

i Note: This step is optional and the prompt comes only when you have provided the docker_repository.

```
#####
#####
Login to xx.xx.x.xxx:5000

#####
#####
```


Password:

14. Once you log in, you are prompted to push the docker images to the Docker repository.

```
Login Succeeded
Do you want to push the TIBCO Foresight REST API docker image to
10.65.6.152:5000?
If not, the TIBCO Foresight REST API docker image will still be
built at 'local'.
(y/n)
```

Enter 'y' or 'n' as per the following requirements:

- If you enter 'y', the Foresight REST API docker image is built and pushed to the Docker repository.
- If you enter 'n', the Foresight REST API docker image is built locally.

Result

The Foresight REST API component's Docker image is built and pushed to the Docker repository.

In Silent Mode

In silent mode, the installer installs the product without prompting you for information.

Building TIBCO Foresight REST API Docker Image

Procedure

1. Navigate to <folder>/fsrest-1.2.0/images/config folder.
2. Open the configuration.properties file and configure the following properties:

Configuration Properties

Property	Description
docker_repository=<docker_registry_ip>: <docker_registry_port>	<p>Required.</p> <p><docker_registry_ip> is the IP address of the machine in which you want to push the docker images.</p> <p><docker_registry_port> is the optional port number of the Docker repository at the IP address specified in <docker_registry_ip>.</p> <p>Note: If this parameter is not needed, remove the preceding colon (:)</p>
docker_username=	<p>Optional.</p> <p>Specify the username of the Docker login.</p>

3. Save and close the configuration.properties file.
4. Navigate to <folder>/fsrest-1.2.0/images/scripts folder.
5. Open the build-fsrest-image-silent.properties file and edit the properties as follows:

Properties	Parameters
Do you accept the license?	<p>Y/y = Accept license</p> <p>N/n = Do not accept license</p> <p>Enter Y/y or N/n.</p>
instreamPath	<p>Enter the file path where Foresight Instream is installed.</p> <p>For example: </instream path/instream version></p> <p>If Foresight Instream is not installed, specify the path as 'none'.</p>

Properties	Parameters
translatorPath	<p>Enter the file path where Foresight Translator is installed.</p> <p>For example: <code></translator path/translator version></code></p> <p>If Foresight Translator is not installed, specify the path as 'none'.</p>
dockerInstallDir	<p>Enter the directory path where the Foresight REST API engine resides in the docker image. This entry must match the entry in the Dockerfile where the Foresight REST API is added.</p> <p>For example:</p> <pre>ADD ./engine/FSRest_ITEngine.tar.gz /usr/share/tomcat/tibco/instream/fseng</pre> <p>dockerInstallDir for the above path is <code>/usr/share/tomcat/tibco/instream/fseng</code></p>
cleanGuidelines	<p>Y/y or N/n</p> <p>Enter Y/y if you want to clean the guidelines in the Foresight REST API image's guideline resource directory.</p> <p>Enter N/n if you do not want to clean the guidelines in the Foresight REST API image's guideline resource directory.</p>
copyGuidelines	<p>Specify if the guideline files from Foresight Instream and/or Foresight Translator are to be copied to the Foresight REST API image.</p> <div> <p>Note: A guideline file is a file with the extension <code>.std</code>, <code>.sef</code>, or <code>.xsd</code> found in the Foresight Instream and/or Foresight Translator installation's database directory.</p> </div> <p>Valid parameters:</p> <p>N = Do not copy any guideline files from the Foresight</p>

Properties	Parameters
	<p>Instream or Foresight Translator installations to the Foresight REST API image.</p> <p>I = Copy guideline files from the Foresight Instream installation.</p> <p>T = Copy guideline files from the Foresight Translator installation.</p> <p>IT = Copy guideline files from both installations, first Foresight Instream and then Foresight Translator. Any guideline file in both installations have the file from Foresight Translator overwriting the one from Foresight Instream.</p> <p>TI = Copy guideline files from both installations, first Foresight Translator and then Foresight Instream. Any guideline files in both installations have the file from Foresight Instream overwriting the one from Foresight Translator.</p> <p>For example:</p> <pre>copyGuidelines = TI</pre> <div> <p>Note: This step copy the guidelines present in the Database directory of Foresight REST API engine to the container. However, coping guidelines from container to mount_path is not supported in this release.</p> </div>
cleanMaps	<p>Y/y or N/n</p> <p>Enter Y/y if you want to clean the map files in the Foresight REST API image's map resource directory.</p> <p>Enter Y/y if you do not want to clean the map files in the Foresight REST API image's map resource directory.</p>
copyMaps	Y/y or N/n

Properties	Parameters						
	<p>Enter Y/y if you want to copy the map files from the Foresight REST API engine.</p> <p>Enter N/n if you do not want to copy the map files from the Foresight REST API engine.</p> <p>Note: This step copy the map files present in the Database directory of Foresight REST API engine to the container. However, coping map files from container to mount_path is not supported in this release.</p>						
enableSSL	<p>Y/y or N/n</p> <p>Note: Do not select Y/y unless you intend to update the default deploy script.</p> <p>Enter Y/y if you want to enable SSL. Enter the given properties related to the SSL:</p> <table> <tr> <td>keystoreFile</td><td> <p>This is the path where the certificate is stored in your local machine.</p> <p>< Path to the file > / <keystore-filename></p> </td></tr> <tr> <td>keystoreType</td><td> <p>Keystore type</p> <p>PKSCS12 or JKS</p> </td></tr> <tr> <td>keystorePass</td><td>Keystore password</td></tr> </table> <p>Note: If you enable SSL, Foresight REST API runs on https with port 8443. While running the docker image, ensure that you map port 8443 instead of 8080.</p>	keystoreFile	<p>This is the path where the certificate is stored in your local machine.</p> <p>< Path to the file > / <keystore-filename></p>	keystoreType	<p>Keystore type</p> <p>PKSCS12 or JKS</p>	keystorePass	Keystore password
keystoreFile	<p>This is the path where the certificate is stored in your local machine.</p> <p>< Path to the file > / <keystore-filename></p>						
keystoreType	<p>Keystore type</p> <p>PKSCS12 or JKS</p>						
keystorePass	Keystore password						

Properties	Parameters						
	<p>Enter N/n if you do not want to enable SSL.</p> <p>Note: This release of Foresight REST API only supports server-side SSL authentication.</p>						
dockerPush	<p>Y/y or N/n</p> <p>Enter Y/y if you want to push the Docker image to the Docker repository.</p> <p>Enter N/n if you do not want to push the Docker image to the Docker repository.</p>						
removeOldDockerImage	<p>Y/y or N/n</p> <p>Enter Y/y if you want the system to look for and remove an existing Docker image.</p> <p>Enter N/n you do not want the system to look for and remove an existing Docker image.</p>						
secureWithAPIKey	<p>Enter Y/y if you want to enable API Key Security. Enter the given properties related to the key:</p> <table> <tr> <td>jdbc.platform</td><td> <p>MYSQL or Oracle</p> <p>If you are using an Oracle database, add its connector lib path to the database.driver.path</p> </td></tr> <tr> <td>jdbc.driver</td><td>Database driver URL</td></tr> <tr> <td>jdbc.url</td><td>Database connection URL</td></tr> </table>	jdbc.platform	<p>MYSQL or Oracle</p> <p>If you are using an Oracle database, add its connector lib path to the database.driver.path</p>	jdbc.driver	Database driver URL	jdbc.url	Database connection URL
jdbc.platform	<p>MYSQL or Oracle</p> <p>If you are using an Oracle database, add its connector lib path to the database.driver.path</p>						
jdbc.driver	Database driver URL						
jdbc.url	Database connection URL						

Properties	Parameters
	jdbc.username Database username
	jdbc.password Database password
	jdbc.databasesname Database name for MYSQL database
	APIKeyExpireTime Expire time (in seconds) for API key
Enter N/n if you do not want to enable API Key Security.	
Note: Enabling this requires the application to use a valid API key to communicate with Foresight REST API. Do not select Y/y unless BCCE supports this.	
For more information, see <i>TIBCO Foresight® REST API User Guide</i> .	

6. Run the following command:

```
./build-fsrest-image-silent.sh
```

7. Now you are prompted to enter the Docker password. Enter the password.

i Note: This step is optional and the prompt comes only when you have provided the docker_repository.

```
#####
#####
Login to xx.xx.x.xxx:5000

#####
#####
```

Password:

- Once you enter the password, you receive a message Login Succeeded. On successful installation, you receive this message:

TIBCO Foresight REST API engine and docker image build is completed.

Deploying TIBCO Foresight REST API Component's Docker Image

To deploy the Foresight REST API component's Docker image on Docker or Kubernetes platform, perform the following steps:

Procedure

- Navigate to the `<folder>/fsrest_1.2.0/bcce-deployment/config` directory.
- Open the `deployment.properties` file and configure the properties listed in the following table.

Property	Description
docker_repository <code>=<docker_registry_ip>:<docker_registry_port></code>	<code><docker_registry_ip></code> is the IP address and <code><docker_registry_port></code> is the port of the machine to which you want to push the Docker images
docker_username	Specify the username required to log in to Docker
host_ip = <code><host_ip></code>	<code><host_ip></code> is the IP address of the host machine, host name, or Kubernetes cluster
mount_path	Specifies the external directory to be used as parent for the FS

Property	Description
	<p>Rest data store directories. Note that the following directory structure must be created under the mount_path directory:</p> <ul style="list-style-type: none"> • controlfiles • datafiles • guidelines <ul style="list-style-type: none"> ◦ Database ◦ Static • maps
auditsafe_ds_host	IP address of the AuditSafe host.
fsrest_loglevel	A number specifying the detail of the Foresight REST API log messages from 0 (minimal log messages) through 5 (lots of log messages, typically used for debugging).

3. Configure additional properties that are specific to Kubernetes services: Amazon Elastic Kubernetes Service (AWS EKS), Azure Kubernetes Service (AKS), or Google Cloud Kubernetes Engine (GKE).
4. Save and close the deployment.properties file.
5. To deploy the Foresight REST API component's Docker images, run one of the following commands depending on the platform:

- **Kubernetes:** Navigate to the <folder>/fsrest-1.2.0/bcce-deployment/scripts directory and run the following command:

```
./deploy-fsrest.sh
```

- **Docker:** Navigate to the <folder>/fsrest-1.2.0/bcce-deployment/samples/docker-scripts directory and run the following command:

```
./docker-run-fsrest.sh
```

6. Follow the command-line interface instructions, review the license agreement, and enter `y` to accept it.
7. This step is applicable only if you want to deploy the Foresight REST API service on Kubernetes, otherwise skip this step.

When prompted:

```
Which Kubernetes environment do you want to deploy TIBCO Foresight  
REST API service?
```

1. Native Kubernetes
2. AWS EKS
3. Azure AKS
4. Google Cloud GKE
- q. Quit

Enter 1, 2, 3, 4, or q.

Result

You have deployed the Foresight REST API application.

What to do next

Check product specific documentation for the further steps.

Uninstalling TIBCO Foresight REST API Component

To uninstall Foresight REST API component, perform the following steps:

Procedure

1. To remove the Foresight REST API service or deployment, run one of the following commands depending on the platform:

- **Kubernetes:** Navigate to the <folder>/fsrest-1.2.0/bcce-deployment/scripts directory and run the following command:

```
./remove_fsrest_services.sh
```

- **Docker:** Navigate to the <folder>/fsrest-1.2.0/bcce-deployment/samples/docker-scripts directory and run the following command:

```
./stop_fsrest_container.sh
```

2. Delete all the Docker images.

TIBCO Documentation and Support Services

For information about this product, you can read the documentation, contact Support, and join TIBCO Community.

How to Access TIBCO Documentation

Documentation for TIBCO products is available on the [Product Documentation website](#), mainly in HTML and PDF formats.

The [Product Documentation website](#) is updated frequently and is more current than any other documentation included with the product.

Product-Specific Documentation

The documentation for this product is available on the [TIBCO Foresight® REST API Product Documentation](#) page.

How to Contact Support for TIBCO Products

You can contact the Support team in the following ways:

- To access the Support Knowledge Base and getting personalized content about products you are interested in, visit our [product Support website](#).
- To create a Support case, you must have a valid maintenance or support contract with a Cloud Software Group entity. You also need a username and password to log in to the [product Support website](#). If you do not have a username, you can request one by clicking **Register** on the website.

How to Join TIBCO Community

TIBCO Community is the official channel for TIBCO customers, partners, and employee subject matter experts to share and access their collective experience. TIBCO Community offers access to Q&A forums, product wikis, and best practices. It also offers access to extensions, adapters, solution accelerators, and tools that extend and enable customers to gain full value from TIBCO products. In addition, users can submit and vote on feature

requests from within the [TIBCO Ideas Portal](#). For a free registration, go to [TIBCO Community](#).

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