



TIBCO BusinessConnect™ Container Edition

Installation and Deployment

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Contents

Contents	2
Introduction	3
Installation Requirements	4
System Requirements	4
Required TIBCO Products	5
Required Third-Party Products	7
BusinessConnect Container Edition Dockerfiles and Scripts	10
Dockerfiles and Scripts	10
Configuration files	13
Installing BusinessConnect Container Edition Application	15
Building BusinessConnect Container Edition Component's Docker Images	15
Deploying BusinessConnect Container Edition Component's Docker Images	18
Viewing Container Logs	26
Uninstalling BusinessConnect Container Edition	28
TIBCO Documentation and Support Services	29
Legal and Third-Party Notices	31

Introduction


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 scripts and configuration files with preloaded settings to build and deploy Docker images of each component either on Docker or Kubernetes platform.

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 is available either on the [TIBCO Product Documentation](#) website or on the [TIBCO eDelivery](#) website with the product software.

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

System Requirements

Disk Space

The minimum disk space requirement is 10 GB.

System Memory

The minimum system memory requirement is 8 GB.

Platform

The supported platforms are as follows:

- CentOS 7.7 64-bit on x86-64
- Red Hat Enterprise Linux Server 8.x 64-bit on x86-64
- Ubuntu 20.04.06 LTS (Long-Term Support)

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 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.</p>
TIBCO BusinessConnect™ Container Edition – Services Plug-in	<p>Optional.</p> <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	Optional.

Software	Description
Instream®	<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>
TIBCO BusinessConnect™ Container Edition – RosettaNet Protocol	<p>Optional.</p> <p>BusinessConnect™ Container Edition – RosettaNet Protocol is the TIBCO implementation of RosettaNet. It acts as a plug-in to BusinessConnect Container Edition and uses business process models that conform to the RosettaNet Partner Interface Process standard, which enables you to conduct e-business transactions with your trading partners using RosettaNet.</p> <p>BusinessConnect Container Edition – RosettaNet Protocol implements the RNIF 1.1 and RNIF 2.0 standards. It supports all PIPs listed as approved standards on the <i>RosettaNet website</i>.</p>
TIBCO BusinessConnect™ Container Edition- SOAP Protocol	<p>Optional.</p> <p>TIBCO BusinessConnect™ Container Edition - SOAP Protocol is the TIBCO implementation of SOAP. It acts as a plug-in to TIBCO BusinessConnect™ Container Edition, which enables you to conduct e-business transactions with your trading partners using SOAP.</p>
TIBCO BusinessConnect™ Container Edition - ebXML Protocol	<p>Optional.</p> <p>TIBCO BusinessConnect™ Container Edition - ebXML Protocol is the containerized edition of TIBCO BusinessConnect™ ebXML Protocol. You can use ebXML Protocol with TIBCO BusinessConnect™ Container Edition to enable users of TIBCO BusinessConnect to conduct e-commerce transactions with ebXML protocol.</p>

Software	Description
	TIBCO BusinessConnect ebXML Protocol implements ebXML Message Service 2.0 and AS4 Profile of ebMS3 specification.
TIBCO BusinessConnect™ Container Edition- EDI Protocol HIPAA Edition powered by Instream®	<p>Optional.</p> <p>TIBCO BusinessConnect™ Container Edition - EDI Protocol HIPAA Edition powered by Instream® is the containerized edition of TIBCO BusinessConnect™ EDI Protocol HIPAA Edition powered by Instream®. You can use BusinessConnect™ Container Edition - EDI Protocol HIPAA Edition powered by Instream with TIBCO BusinessConnect™ Container Edition to engage in electronic commerce using the standards established for exchanging electronic health care transactions through the Health Insurance Portability and Accountability Act of 1996.</p>
TIBCO BusinessConnect™ Container Edition ConfigStore Management Interface Protocol	<p>Optional.</p> <p>TIBCO BusinessConnect™ Container Edition ConfigStore Management Interface Protocol is a set of message-based interfaces that allows the private processes to interact with the TIBCO BusinessConnect Container Edition server to retrieve or update configuration data. It acts as a service to other protocols based on TIBCO BusinessConnect Container Edition to facilitate management of trading partners and business agreements.</p>

Required Third-Party Products

The following table lists the required third-party products:

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.

Note: You must download the links provided in the `build-images.sh` file at the location set in the `download_dir` property.

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, see <i>Docker Documentation</i>.</p>
Elasticsearch	<p>Elasticsearch is a distributed, open source search and analytics engine for all types of data, including textual, numerical, geospatial, structured, and unstructured. The Elasticsearch REST APIs support structured queries, full text queries, and complex queries that combine the two.</p> <p>TIBCO recommends that you install Elasticsearch 7.6 or later. For more information, see <i>ElasticSearch Documentation</i>.</p>
kubectrl	<p>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>.</p>
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>

Software	Description
Database	<p>You must create one database for BusinessConnect Container Edition, one for AUS, and one for AuditSafe. If the AUS database is already created while installing TASEE, only create one database for BusinessConnect Container Edition.</p> <p>You can install one of the following supported database services to facilitate the storage, retrieval, modification, and deletion of data in conjunction with various data-processing operations.</p> <ul style="list-style-type: none">• Oracle• MySQL• MSSQL <p>For more information, see the <i>Database</i> documentation.</p>

BusinessConnect Container Edition

Dockerfiles and Scripts

BusinessConnect Container Edition installation and deployment package provide all the necessary Dockerfiles, scripts, and configuration files to install, deploy, and uninstall all the BusinessConnect Container Edition 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
<code>build-images.sh</code>	<p>Creates the BusinessConnect Container Edition Docker images and pushes the images to the Docker repository.</p> <p>File Location: <code>/bcce-1.5.0/images/scripts</code></p>
<code>docker-run-bcce-all.sh</code>	<p>Deploys BusinessConnect Container Edition services onto the Docker cluster.</p> <p>File location: <code>/bcce-1.5.0/deployment/samples/scripts</code></p>
<code>deploy-bcce.sh</code>	<p>Deploys the BusinessConnect Container Edition services onto the Kubernetes cluster</p> <p>File Location: <code>bcce-</code></p>

File	Description
	1.5.0/deployment/k8s-scripts
stop_bcce_containers.sh	<p>Removes all BusinessConnect Container Edition services on the Docker</p> <p>File location: /bcce-1.5.0/deployment/samples/dockerscripts</p>
remove_bcce_services.sh	<p>Deletes all the BusinessConnect Container Edition services and deployments</p> <p>File Location: bcce-1.5.0/deployment/k8s-scripts</p>
apply_secret_cert.sh	<p>Creates the Kubernetes secret bcce-gs-config for two key/cert files</p> <p>File Location: bcce-1.5.0/deployment/k8s-scripts</p>
apply_secret_docker_login.sh	<p>Creates the Kubernetes secret Docker-registry for Docker login</p> <p>File Location: bcce-1.5.0/deployment/k8s-scripts</p>
apply_secret_log4j2.sh	<p>Creates the Kubernetes secret log4j2 with the log4j2.xml</p> <p>File Location: bcce-1.5.0/deployment/k8s-scripts</p>
apply_secret_log4j2_json.sh	<p>Creates the Kubernetes secret log4j2_json with the log4j2.json</p> <p>File Location: bcce-1.5.0/deployment/k8s-scripts</p>

File	Description
apply_secret_aws_database.sh	Creates the Kubernetes secret for aws database File Location: bcce-1.5.0/deployment/k8s-scripts
apply_secret_credentials.sh	Creates the Kubernetes secret credentials File Location: bcce-1.5.0/deployment/k8s-scripts
apply_secret_certificate.sh	Creates the Kubernetes secret certificate File Location: bcce-1.5.0/deployment/k8s-scripts
apply_secret_elasticsearch.sh	Creates the Kubernetes secret for elastic search File Location: bcce-1.5.0/deployment/k8s-scripts
apply_secret_keystore.sh	Creates the Kubernetes secret for keystore File Location: bcce-1.5.0/deployment/k8s-scripts
apply_secret_private_key.sh	Creates the Kubernetes secret for private key File Location: bcce-1.5.0/deployment/k8s-scripts
apply_secret_tas_database.sh	Creates the Kubernetes secret for tas database File Location: bcce-1.5.0/deployment/k8s-scripts

File	Description
apply_secret_truststore.sh	Creates the Kubernetes secret for truststore File Location: bcce-1.5.0/deployment/k8s-scripts
apply_secret_customized_properties.sh	Creates the Kubernetes secret customized properties File Location: bcce-1.5.0/deployment/k8s-scripts
apply_secret_database.sh	Creates the Kubernetes secret for database File Location: bcce-1.5.0/deployment/k8s-scripts

Configuration files

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

File	Description
configuration.properties	Contains all the properties that user has to set to build the BusinessConnect Container Edition and AuditSafe Docker images, and deploys to the Kubernetes cluster. File location: bcce-1.5.0/deployment/config
credentials.properties	Default file to create the Kubernetes credentials secret. File location: bcce-1.5.0/deployment/config
deployment.properties	Contains all the properties that user has to set to deploy the BusinessConnect Container Edition and AuditSafe Docker images to the Kubernetes cluster.

File	Description
	File location: bcce-1.5.0/deployment/config
log4j2.xml	<p>Default XML file to create the Kubernetes log4j2 secret. You can also change logger levels for all servers except Admin Server using this file.</p> <p>File location: bcce-1.5.0/deployment/config</p>
log4j2.json	<p>Default JSON file to create the Kubernetes log4j2_json secret. You can change logger levels only for Admin Server using this file.</p> <p>File location: bcce-1.5.0/deployment/config</p>
certificate.pem	<p>The certificate.pem and private_key.pem files are a pair for the https of the bcce-as.</p> <p>File location: bcce-1.5.0/deployment/config</p>
customized.properties	<p>Contains the UI or runtime customized properties</p> <p>File location: bcce-1.5.0/deployment/config</p>
private_key.pem	<p>The certificate.pem and private_key.pem files are a pair for the https of the bcce-as</p> <p>File location: bcce-1.5.0/deployment/config</p>
truststore.jks	<p>The file for the https of the auditsafe-ws. You can see that they are in the xxxx.yaml.template.https.</p> <p>File location: bcce-1.5.0/deployment/config</p>

Installing BusinessConnect Container Edition Application

Before you begin

Ensure that you have the infrastructure and other requirements listed in [Installation Requirements](#).

To deploy and run BusinessConnect Container Edition components on Docker or Kubernetes platform, perform the steps described in the following sections.

- [Building BusinessConnect Container Edition Component's Docker Images](#)
- [Deploying BusinessConnect Container Edition Component's Docker Images](#)

i Note: For more details on migrating BusinessConnect Container Edition 1.5.0 from older BusinessConnect Container Edition versions, see [BusinessConnect Container Edition Migration](#) before you start the installation.

Building BusinessConnect Container Edition Component's Docker Images

To run the BusinessConnect Container Edition 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_bcce_<version>.tar.gz installation and deployment package.
2. Extract the contents of the package to a local directory.
3. Install the required protocols, such as, EZComm, RosettaNet, EDI (X12, EDIFACT,

Service, and Gateway), ebXML, SOAP, EDI HIPAA, and CMI. Any number of supported protocols can be installed. For installing a protocol, refer to the protocol's *Installation document*.

Procedure

1. Navigate to the `<folder>/bcce-1.5.0/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
download_dir = <code><download_dir></code>	<code><download_dir></code> is the directory path where you want to download all the JAR files
elasticsearch_server_version = <code><elasticsearch_server_version></code>	Elasticsearch server version can be es7 for the 7.x version or es8 for the 8.x version.

3. Save and close the `configuration.properties` file.
4. Navigate to the `<folder>/bcce-1.5.0/images/scripts` directory.
5. Run the following command:

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

6. Follow the command-line interface instructions, review the license agreement, and enter `y` to accept it.
7. When prompted:


```
Do you want to push the BCCE docker images to <docker_registry_ip>:<docker_registry_port>?
```

```
If not, the BCCE docker images will still be built at local.
```

```
(y/n)
```

Enter y to build the Docker images.

i Note: The following message displays only if you have installed EDI HIPAA.

8. When ConfigStore Management Server starts building, it asks if guidelines from instream are to be copied:

```
Do you need to copy the EDI HIPAA guidelines from TIBCO instream installation? (y/n)
```

Enter y.

```
Please enter the TIBCO instream installation home
```

Provide an instream home.

Result

The following BusinessConnect Container Edition Docker images are built and pushed to the Docker repository:

- bcce-aus
- auditsafe-ds
- auditsafe-ws
- bcce-cms
- bcce-cas
- bcce-as
- bcce-is
- bcce-ps
- bcce-gs

Deploying BusinessConnect Container Edition Component's Docker Images

To deploy the BusinessConnect Container Edition component's Docker images on the Docker or Kubernetes platform, perform the following steps.

Before you begin

! **Important:** Before you deploy Docker images, if you are using MySQL 5.7.x or later versions; then in the `my.ini` file under `[mysqld]` section, you must add `skip_ssl`, set `max_allowed_packet` to 1024M and set `explicit_defaults_for_timestamp` to 0

Procedure

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

Property	Description
Docker Properties	
docker_repository =<docker_registry_ip>:<docker_registry_port>	<docker_registry_ip> is the IP address and <docker_registry_port> is the port of the machine from which you want to pull the Docker images from.
docker_username	Specify the user name required to log in to Docker.
host_ip =<host_ip>	<host_ip> is the IP address of the host machine, host name, or Kubernetes cluster.

Property	Description
Database properties	
database_url =jdbc:mysql://<database_machine_ip>:3306/<database_schema>?useSSL=false\\&allowPublicKeyRetrieval=true for MySQL database	<p><database_machine_ip> is the IP address of the machine where the database resides.</p> <p>The default value in deployment.properties is bcce.</p>
database_url =jdbc:oracle:thin:@<machine_ip>:1521:<serv_id> for Oracle Database	<machine_ip> is the IP address of the machine where the database resides. <serv_id> is the service identifier for oracle instance.
database_url =jdbc:sqlserver://<database_machine_ip>:1433;encrypt=false;databaseName=xxxx;integratedSecurity=false; for MSSQL database	<database_machine_ip> is the IP address of the machine where the database resides.
database_username =<username> tas_database_username =<username> aus_database_username =<username>	<username> is the name of the user accessing the database.
database_password =<password> tas_database_password =<password> aus_database_password =<password>	<password> is the password to access the database.
database_driver =com.mysql.cj.jdbc.Driver for MySQL database database_driver =oracle.jdbc.OracleDriver for Oracle database	Configure the database driver property accordingly.

Property	Description
database_ driver =com.microsoft.sqlserver.jdbc.SQLServerDriver for MS SQL Server database	
ElasticSearch Properties	
elasticsearch_host=<elasticsearch_ip>	<elasticsearch_ip> is the IP address of the machines where the ElasticSearch database resides.
elasticsearch_username=<usr_name>	<usr_name> is the name of the user accessing the ElasticSearch database.
elasticsearch_password=<pwd>	<password> is the password to access the ElasticSearch database.
gstoken_unzip =<gstoken_unzip>	<gstoken_unzip> is the directory path where you should extract the contents of GSToken.zip file. gstoken can be downloaded from Admin UI after the deployment of Admin server.
SSO Properties	
ws_https=true ws_redirect_url=<host_ip>:<ws_port>/tas/sso/oidc/callback	The properties must be set to either true or false. By default, it is set to false. To enable Web Server HTTPS for SSO redirect set ws_https=true and configure ws_redirect_

Property	Description
	<p>url=<host_ip>:<ws_port>/tas/sso/oidc/callback</p> <p>ws_https is a boolean value to enable https for auditsafe,</p> <p><ws_port> is web server port, which is by default 31000,</p> <p>and the redirection url is for SSO authentication redirection for login purposes on AuditSafe web server and TIBCO BusinessConnect™ Container Edition Admin server</p>
<p>as_https=true</p> <p>as_redirect_url=<host_ip>:<as_port>/sso/oidc/callback</p>	<p>Enables HTTPS of Admin server for SSO redirect by setting as_https=true and configuring as_redirect_url=<host_ip>:<as_port>/sso/oidc/callback</p>
<p>Optional</p> <p>mount_path2=<nfs_path>/<folders></p>	<p>Path for Interior Server to store the large EDI files.</p> <div> <p>Note: The value of mount_path2 should be different from the value of mount_path.</p> </div>
<p>Optional</p> <p>Poller Server Properties</p>	
bcce_poller_engine and bcce_poller_other_servers_instances	Default value is 1. One server is deployed unless the value is

Property	Description
	explicitly set to 0 (zero)
bcce_poller_other_servers_refresh_rate	The time intervals for which the changes for these pollers are dynamically updated to servers from the UI Default value is 300 seconds.
bcce_poller_other_servers_weight	The priority given to each server. 10 being the highest and 1 being the lowest. Server with 10 weight starts first and server with weight 1 starts last.

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 BusinessConnect Container Edition component's Docker images, run one of the following commands depending on the platform:

- **Kubernetes:** Navigate to the `<folder>/bcce-<version>/deployment/k8s-scripts` directory and run the following command:

```
./deploy-bcce.sh
```

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

```
./docker-run-bcce-all.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 BusinessConnect Container Edition services on Kubernetes, otherwise skip this step.

When prompted:

```
Which Kubernetes environment do you want to deploy TIBCO BCCE services?
```

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

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

8. When prompted:

```
Do you want to deploy TIBCO Auth Server service?  
(y/n)
```

Enter y to deploy Auth Server.

```
Waiting for the Auth Server to start for about 90 seconds...
```

9. When prompted:

```
Do you want to deploy TIBCO AuditSafe Services?  
1. Data Server  
2. Web Server
```

Enter y.

10. When prompted:

```
Do you want to run TIBCO BCCE Server docker containers?  
1. ConfigStore Management Server  
2. Admin Server  
3. Configuration API Server
```

(y/n)

Enter y to deploy ConfigStore Management Server and Admin Server.

Note: To reflect the dynamic updates from ConfigStore Management Server to Interior Server or Poller Server, restart the ConfigStore Management server after the JMS details are configured.

11. Perform the following steps to configure JMS Server settings; before you deploy Poller Server and Interior Server.

- a. Log in to the BusinessConnect Container Edition application using the URL: `http://<host_ip>:<as_port>`.

Tip: Use the `<host_ip>` and `<as_port>` that you have set in the `deployment.properties` file.

- b. Go to System Settings > General, click **Internal Messaging (JMS)**.

Note: For more information on how to configure Private Process JMS, Intercomponent JMS, or Intercomponent DMZ-JMS, see the “Configuring JMS Settings” topic in *TIBCO BusinessConnect™ Container Edition Administration Guide*.

- c. Click **Private Process JMS**, select or enter information in all the mandatory fields, and click **Save**.
 - d. Click **Intercomponent JMS**, select or enter information in all the mandatory fields, and click **Save**.
 - e. Optional: To use different JMS between Gateway Server and Interior Server, click **Intercomponent DMZ-JMS (Optional)**, select or enter information in all the mandatory fields, and click **Save**.
12. On the command-line interface, when prompted:

Do you want to deploy TIBCO BCCE Server services?

4. Poller Server

5. Interior Server

Please make sure the JMS Server settings are done properly from the BCCE Admin UI.

Otherwise, the Poller Server and Interior Server won't work.

(y/n)

Enter y to deploy Poller Server and Interior Server.

13. Perform the following steps to download the GSToken.zip file; before you deploy Gateway Server.
 - a. Go to System Settings > Transport Protocols > Inbound Protocols.
 - b. Select the **HTTP** checkbox and click **Save**.
 - c. Click **Configure Service** of **HTTP** and click **Add**.
 - d. Enter **Gateway Service Name**, select HTTP from the **Gateway Service Type** list and click **Proceed**.



Tip: Default **Gateway Service Name** is set to http in the deployment.properties file. To use another **Gateway Service Name**, set `<service name>` for **gs_services=HTTP:<service name>** in the deployment.properties file.

- e. Select the **Enable** checkbox to enable the Gateway Service and configure the **Ports, Advanced, and Credentials** tabs. For more information on how to configure these tabs, see the “Configuring Gateway Services (HTTP)” topic in *TIBCO BusinessConnect™ Container Edition Administration Guide*.
- f. On the Admin UI, go to System Settings tile > General, click **Installation Properties**.
- g. Click **Export GS configuration** to download the GSToken.zip file, which contains intercomProps, hostKey, and peerCert files that are required to deploy Gateway Server.
- h. Extract the contents of GSToken.zip to the **<gstoken_unzip>** directory.



Tip: Use the `<gstoken_unzip>` that you have set in the `deployment.properties` file.

14. On the command-line interface, when prompted:

```
Do you want to deploy TIBCO BCCE Gateway Server services?  
Please make sure that you have downloaded the GSToken.zip from  
Admin UI, extracted it  
in a folder and set the property gstoken_unzip in the  
deployment.properties file.  
Otherwise, the Gateway Server won't work.  
(y/n)
```

Enter y to deploy Gateway Server.

Result

You have deployed all the components of the BusinessConnect Container Edition and AuditSafe services.

What to do next

Configure the Outbound Email poller to receive an email in the event of a forgotten password. For more information, see the "Outbound HTTP/FTP Proxy and Mail SMTP Servers" section of the *Trading Partner Management* guide.

Viewing Container Logs

All the BusinessConnect Container Edition component containers publish their logs on the standard output device.

To view logs of a particular container, run one of the following commands depending on the platform:


- **Docker:**


```
docker logs <containername>
```

- **Kubernetes:**

```
kubectl logs <container_id> -n <k8s_namespace>
```

Where *<k8s_namespace>* is Kubernetes namespace that you have set in the `deployment.properties` file.

 **Note:** If *<k8s_namespace>* is not set, then its default value is *bcce*.

 **Tip:** To follow logs use `--follow`.

Uninstalling BusinessConnect Container Edition

To uninstall BusinessConnect Container Edition, perform the following steps:

Procedure

1. To remove all the BusinessConnect Container Edition or AuditSafe services, run one of the following commands depending on the platform:

- **Kubernetes:** Navigate to the `<folder>/bcce-<version>/deployment/k8s-scripts` directory and run the following command:

```
./remove_bcce_services.sh
```

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

```
./stop_bcce_containers.sh
```

2. Delete all the Docker images.

What to do next

Delete the databases that you have set up for BusinessConnect Container Edition.

TIBCO Documentation and Support Services

For information about this product, you can read the documentation, contact TIBCO 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 BusinessConnect™ Container Edition](#) 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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