



TIBCO® Messaging - Schema Repository for Apache Kafka

Installation

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Contents

Contents	2
About this Product	3
Preparing for Installation	4
Requirements	4
Installation	6
Installing on Linux	6
Installing on macOS	7
Uninstallation	9
Uninstalling on Linux	9
Uninstalling on macOS	10
Configuration	11
TIBCO Documentation and Support Services	13
Legal and Third-Party Notices	15

About this Product

TIBCO Messaging - Schema Repository for Apache Kafka is ideal for implementing application projects (including proof of concept efforts), for testing, and for deploying applications in a production environment.

This release is the latest in a long history of TIBCO products that use the power of Information Bus® technology to enable truly event-driven IT environments. To find out more about how TIBCO® Messaging software and other TIBCO products are powered by TIBCO technology, please visit us at www.tibco.com.

TIBCO Messaging - Schema Repository for Apache Kafka for Apache Kafka is part of the TIBCO Messaging software.

Preparing for Installation

Complete these steps before you begin to install TIBCO Messaging - Schema Repository for Apache Kafka.

Procedure

1. Verify that the product supports your platforms.
You can find the Readme file on the product distribution in the same directory as the installation files or at the product documentation page [Readme](#).
2. Read the TIBCO Software Inc. License Agreement included with the product.
3. Read the sections in this book that pertain to your operating system platforms.
4. Verify that the host computer satisfies the installation requirements and the prerequisite software is installed. For more information, see [Requirements](#).

Requirements

Before you run the installers, ensure that the environment meets all the hardware and software requirements and that you have appropriate privileges to run the installers.

Required Software

Ensure that TIBCO FTL® 7.0 or later is already installed.

Ensure that Apache Kafka 2.5 or later is already installed.

Java Runtime Environment (JRE), version 11 or later, 64-bit, is required to run Java application programs.

Java Developer Kit (JDK), version 11 or later, 64-bit, is required to develop Java application programs.

Installer Account

Platform	Account Privileges
Linux	For system-based installers, you need <code>sudo</code> privileges for installation. However, for extracting tar files, you do not need special privileges as long as you have write permission in the directory you are extracting the files into.
macOS	Administrator privileges are required for installation.

Installation

You can install this product on any operating system using platform-native installers.

For the latest changes, see the Readme file on the product distribution in the same directory as the installation files or at the product documentation page, [Readme](#).

Installing on Linux

TIBCO Messaging - Schema Repository for Apache Kafka is available for 64-bit Linux operating systems (Intel x86_64) and includes the RPM, DEB, and tar packages.

Before you begin

On SUSE Linux, ensure that the `libjvm` library is already installed.

Procedure

1. Download the installation package `TIB_msg-akd-repo_2.0.0_linux_x86_64.zip` from [TIBCO eDelivery](#).
2. Extract the TIBCO Messaging - Schema Repository for Apache Kafka installation files. You get a directory `TIB_msg-akd-repo_2.0.0`. The installation RPM, DEB, and tar archives are available in this directory.
3. Install using one of the following commands, depending on the Linux platform variant.

Linux Variant	Command
Red Hat, CentOS	<pre>sudo yum install -y rpm/*.rpm</pre>

Linux Variant	Command
Debian, Ubuntu, Fedora	<pre>sudo dpkg -i deb/*.deb sudo apt-get -f install</pre>
SUSE	<pre>sudo zypper install rpm/*.rpm</pre> Note: If you encounter issues with dependencies, you can safely ignore those dependencies and proceed with the installation.
Other Linux variants	If your Linux variant does not include yum, dpkg, or zypper, you can use tar. <pre>for f in tar/*; do tar xvf \$f; done</pre>

The installation utilities yum, dpkg, or zypper install the TIBCO Messaging - Schema Repository for Apache Kafka software under `/opt/tibco/akd/repo`.

Refer to the main page for details about the rpm or dpkg commands.

If the systems package manager is unavailable for example, if you do not have appropriate permissions to run, use the TAR installer file.

```
for f in tar/*; do tar xvf $f; done
```

Then, move the binary file `tibscemad` from `akd/repo/bin/` to the `bin/modules/` directory of your TIBCO FTL installation directory.

Installing on macOS

To install this product, you must have administrator privileges.

TIBCO Messaging - Schema Repository for Apache Kafka is available for the 64-bit macOS operating system (Intel x86_64).

To install TIBCO Messaging - Schema Repository for Apache Kafka on macOS, complete these steps.

Procedure

1. Download the installation package by going to [TIBCO eDelivery](#) and search for **Schema Repository**.
2. Download this file: TIB_msg-akd-repo_2.0.0_macos_x86_64.pkg.
3. Run the installer.

TIBCO recommends to run the installer from the terminal:

```
sudo installer -pkg TIB_msg-akd-repo_2.0.0_macos_x86_64.pkg -target /.
```

The installer copies the installer content in the /opt/tibco/akd/repo.

Uninstallation

You can uninstall this product by using the following steps, which are specific to the operating system.

Uninstalling on Linux

Uninstall the RPM, DEB, and tar packages.

Depending on the applicable Linux variant, use the command shown in the following table.

List the package to uninstall.

Linux Variant	Command
Red Hat	<pre>yum remove -y tib_msg-akd-repo*</pre>
Debian	<pre>apt-get remove -y tib_msg-akd-repo*</pre>
SUSE	<pre>zypper rm tib_msg-akd-repo*</pre>
Other Linux variants	If your Linux variant does not include yum, dpkg, or zypper, use this command. <pre>rm -rf TIBCO_HOME/akd/repo</pre>

Use the appropriate system manager command to uninstall.

Linux Variant	Command
Red Hat	<pre>yum remove -y tib_msg-akd-repo*</pre>
Debian	<pre>apt-get remove -y tib_msg-akd-repo*</pre>
SUSE	<pre>zypper rm tib_msg-akd-repo*</pre>
Other Linux variants	If your Linux variant does not include yum, dpkg, or zypper, use this command. <pre>rm -rf <i>TIBCO_HOME</i>/akd/repo</pre>

Uninstalling on macOS

Delete the installation directory. If you are using another version of this product, ensure that you retain the modified configuration files.

```
sudo rm -rf /opt/tibco/akd/repo
```

When the files are deleted, remove the receipt of the package.

```
sudo pkgutil -forget TIB_msg-akd-repo_2.0.0_macos_x86_64.pkg
```

Configuration

The TIBCO Schema Repository is run as a service by the TIBCO FTL server. In the TIBCO FTL server configuration file, set the TIBCO Schema Repository options in the servers section.

Parameter	Details
auth.type	The following values are possible: • none • oath2
cluster.size	The size of the persistence cluster. Use it when the story type is <code>ftlkv</code> .
compat	The following values are possible: • strict: To guarantee compatibility with other TIBCO products and libraries. • loose: To relax requirements on client requests and attempt to accommodate a wider range of third-party tools.
debug	When present, print debugging information.
mem (deprecated)	When present, store schemas only in process memory, which is not persistent. Warning: Do not use this mode in production.
oauth2.audience	The expected value of the audience claim in the access token sent to TIBCO Schema Repository. If it does not match, the token is rejected. If the parameter is omitted, TIBCO Schema Repository does not validate the audience claim.
oauth2.claim.roles	The JSONPath specifying the <code>roles</code> claim of the authorization token.

Parameter	Details
oauth2.jwks.file	The File path or URL of the JSON web key set file used to validate token signatures.
oauth2.model.file	The path of the configuration file for the authorization model that implements access control.
oauth2.policy.file	The path of the comma-separated value file that lists the rules for allowing and denying access.
password	The password used by TIBCO Schema Repository to authenticate itself with the TIBCO FTL server.
q/quiet	Runs the TIBCO Schema Repository without displaying output.
readonly	Does not allow schemas to be edited.
store	The type of backing store to use. The following values are possible: - ftlkv - memory (not recommended for production deployments)
u/user	The user name of TIBCO Schema Repository with which it authenticates itself with the TIBCO FTL server.
validators	A comma-separated list of external schema validator tools to invoke when a new schema for a matching subject is registered. For example, to register an external validator tool for all subjects that begin with foo, specify: <code>validators: 'foo*=python -m jsonschema.cli'</code> . Basic wildcard syntax is supported for subject names.
v/verbose	Displays more output.

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 following documentation for this product is available on the [TIBCO® Messaging - Schema Repository for Apache Kafka Product Documentation](#) page:

- *TIBCO® Messaging - Schema Repository for Apache Kafka Release Notes*
- *TIBCO® Messaging - Schema Repository for Apache Kafka Installation*
- *TIBCO® Messaging - Schema Repository for Apache Kafka User Guide*

Other TIBCO Product Documentation

When working with TIBCO® Messaging - Schema Repository for Apache Kafka, you may find it useful to read the documentation of the following TIBCO product:

- [TIBCO FTL® - Enterprise Edition](#): TIBCO's FTL server provides back-end Schema Repository storage.

How to Access Related Third-Party Documentation

When working with TIBCO® Messaging - Schema Repository for Apache Kafka, you may find it useful to read the documentation of the following third-party products:

- [Apache Kafka documentation](#)
- [Apache Avro documentation](#)

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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