



# **TIBCO® Messaging Quasar - Powered by Apache Pulsar™**

## **Installation**

Version 3.0.7-1 | December 2024

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# About this Product

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TIBCO is proud to announce this release of TIBCO® Messaging Quasar - Powered by Apache Pulsar™ release 3.0.7-1.

Apache Pulsar™, a pub-sub messaging system published by the Apache Foundation (see [pulsar.apache.org](https://pulsar.apache.org)), is a component of TIBCO® Messaging. This release is the latest in a long history of TIBCO products that apply the power of Information Bus® technology to enable truly event-driven IT environments. To find out more about TIBCO Messaging software and other TIBCO products, please visit us at [www.tibco.com](https://www.tibco.com).

As Apache Pulsar is often used with mission-critical data, understanding and implementing the available security features is crucial. For more information about these features and TIBCO's commitment to security, see TIBCO's Security Priority section in the TIBCO® Messaging Quasar - Powered by Apache Pulsar™ *Installation*.

# Preparing for Installation

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Complete these steps before you begin the installation.

## Procedure

1. Locate the [Readme](#) file for the version 3.0.7-1, and verify that the product supports your platform and version.
2. Read the Guidelines section in this book that pertains to your operating system platforms.
3. Verify that the host computer satisfies the requirements for installation, and the prerequisite software is already installed. For more information, see [Requirements](#).

## Default Log Location

By default, log files are stored in `/var/tmp/tibco/apd/logs`.

## Default Data Location

By default, data files are stored in `/var/tmp/tibco/apd/data`.

## Requirements

Before running the installers, ensure that all hardware and software requirements are met and you have appropriate privileges to run the installers.

### Required Software

Java Runtime Environment (JRE) version 17 is required to run the Apache Pulsar 2.10 or later brokers.

Java Developer Kit (JDK) versions 8, 11, or 17 is required for Apache Pulsar 2.10 or later clients.

## Installer Account

Platform	Account Privileges
Linux	For system-based installers, you need sudo privileges for installation. To extract the TAR files, no special privileges are required.
macOS	Administrator privileges are required for installation.

# Platform-Specific Instructions

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Before using the installer to install or uninstall the product, read the topics relevant for your operating system platform.

## Guidelines for Linux

### Installer Privileges


To install this product, you must have sudo privileges.

### Installation Packages

Apache Pulsar is available for 64-bit Linux operating systems (Intel x86\_64). For the latest changes, if any, see the [Readme](#) file for version 3.0.7-1.

The Linux installer package filename is `TIB_msg-apd-core_3.0.7-1_linux_x86_64.zip`.

## Guidelines for macOS

 **Note:** Ensure that the TIBCO installer is allowed. Click the Apple at the top left then select **System Preferences** then select **Security & Privacy**. On the **General** tab in the **Allow apps downloaded from:** section, allow the installer.

### Installer Privileges

To install this product, you must have administrator privileges.

## Installation Packages

Apache Pulsar is available for the 64-bit macOS operating system (Intel x86\_64). For the latest changes, if any, see the [Readme](#) file for version 3.0.7-1.

The macOS installer package filename is `TIB_msg-apd-core_3.0.7-1_macos_x86_64.pkg`.

# Installation

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You can install this product by using platform-native installers.

## Installing on Linux

Use the platform-native installer to install the product on Linux platforms. The package provides a collection of 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-apd-core_3.0.7-1_linux_x86_64.zip
```

2. Change the directory (`cd`) to the download directory or move the file to a preferred extraction location. Extract the Apache Pulsar archive files.

```
unzip TIB_msg-apd-core_3.0.7-1_linux_x86_64.zip
```

This command creates a directory `TIB_msg-apd-core_3.0.7-1`, and places installation RPM, DEB, and tar archives in that directory.

3. Change the directory (`cd`) to the installation directory.

```
cd TIB_msg-apd-core_3.0.7-1
```

4. Install using one of these commands, depending on the Linux platform variant.



Linux Variant	Command
Red Hat, CentOS	<pre>yum install -y rpm/*.rpm</pre>
Debian, Ubuntu, Fedora	<pre>dpkg -i deb/*.deb</pre>
SUSE	<pre>zypper install rpm/*.rpm</pre> <p><b>Note:</b> If you encounter issues with dependencies, you can safely ignore those dependencies and proceed with the installation.</p>
Other Linux variants	<p>If your Linux variant does not include yum, dpkg, or zypper, you can use tar as follows:</p> <ol style="list-style-type: none"> <li>Create directory <pre>/tmp/msg-apd-installation/</pre> <p><b>Note:</b> If needed, you can use different directories to have different versions installed simultaneously.</p> </li> <li>Copy the tar file into this directory.</li> <li>Cd into this directory and run the following: <pre>for f in *; do tar xvf \$f; done</pre> </li> </ol>

The installation utilities yum, dpkg, or zypper install Apache Pulsar under `/opt/tibco/`.

The archive utility tar installs TIBCO Messaging software under `./opt/tibco/`.

# Installing on Linux in Silent Mode

To install Apache Pulsar on Linux platforms silently, follow this procedure.

## Procedure

1. Download the installation package.

```
TIB_msg-apd-core_3.0.7-1_linux_x86_64.zip
```

2. Change the directory (cd) to the download directory or move the file to a preferred extraction location. Extract the Apache Pulsar archive files.

```
unzip TIB_msg-apd-core_3.0.7-1_linux_x86_64.zip
```

This command creates a directory `TIB_msg-apd-core_3.0.7-1`, and places installation RPM, DEB, and tar archives in that directory.

3. Change the directory (cd) to the installation directory.

```
cd TIB_msg-apd-core_3.0.7-1
```

4. Install using one of these commands, depending on the Linux platform variant.

Linux Variant	Command
Red Hat, CentOS	<pre>yum install -q -y rpm/*.rpm &gt; /dev/null 2&gt;&amp;1</pre>
Debian, Ubuntu, Fedora	<pre>dpkg -i deb/*.deb &gt; /dev/null 2&gt;&amp;1</pre>
SUSE	<pre>zypper in -y --allow-unsigned-rpm rpm/*.rpm &gt; /dev/null 2&gt;&amp;1</pre>

The installation utilities `yum`, `dpkg`, or `zypper` install TIBCO Messaging software under `/opt/tibco/`.

# Installing on macOS

## Procedure

1. Download the installation package.

```
TIB_msg-apd-core_3.0.7-1_macos_x86_64.pkg
```

2. Run the installer.

Double-click the installation package icon.

Follow the installation prompts to complete the process. Provide your password if requested.

## Result

Apache Pulsar is installed at the following location:

```
/opt/tibco/apd/core
```

# Installing on macOS in Silent Mode

To install Apache Pulsar on macOS platforms silently, complete this task.

## Procedure

1. Download the installation package.

```
TIB_msg-apd-core_3.0.7-1_macos_x86_64.pkg
```

2. Open a terminal window and navigate to the directory in which the installer archive package is located.
3. Run the installer silently.

```
installer -pkg TIB_msg-apd-core_3.0.7-1_macos_x86_64.pkg -target /
```

## Result

Apache Pulsar is installed in the following location: `/opt/tibco/apd/core`

# Uninstallation

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You can uninstall this product using the following operating system-specific steps.

## Uninstalling on Linux

### Procedure

1. List the packages to uninstall.

Linux Variant	Command
Red Hat	<pre>yum list installed   grep "tib_msg-apd-core"</pre>
Debian	<pre>dpkg-query -l   grep tib_msg-apd-core</pre>
SUSE	<pre>zypper se   grep "tib_msg-apd-core"</pre>
Other Linux variants	<p>If your Linux variant does not include yum, dpkg, or zypper, use this command.</p> <pre>ls -R /opt/tibco/apd/core</pre>

## 2. Uninstall the packages.

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

## Uninstalling on macOS

To uninstall TIBCO Messaging Quasar - Powered by Apache Pulsar on macOS, delete the directory `/opt/tibco/apd/core/`.

# TIBCO's Security Priority

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At TIBCO, security is our highest priority. TIBCO maintains a company-wide information security management system and control program that include security policies, standards, and procedures based on [ISO/IEC 27001:2013](#).

TIBCO incorporates the STRIDE model to help analyze and find threats to ensure system and service integrity and reliability in processes, data stores, data flows, and trust boundaries. Our approaches ensure that applications and systems fulfill the CIA triad (confidentiality, integrity, and availability).

Threat	TIBCO Assurance
Spoofing identity	Authenticity - authentication
Tampering with data	Integrity and auditing
Repudiation threats	Non-repudiability
Information disclosure	Confidentiality
Denial of service	Availability
Elevation of privilege	Authorization

TIBCO adheres to privacy and security requirements related to the protection and processing of individual personal data (collectively, the "Protected Data"). For more information, see [Customer Privacy and Security Statement](#).

TIBCO has adopted policies and practices in alignment with industry best-practices, including quickly addressing and disclosing vulnerabilities. TIBCO has an incident response policy and plan. The policy ensures that security incidents are identified, contained, investigated, and remedied. For more information or to report a potential security issue, see [Security@TIBCO](mailto:Security@TIBCO).

TIBCO has policies that guide our software development lifecycle (SDLC). They include peer reviews, static code analysis, and both manual and automated QA processes. In addition, we routinely run performance testing on any new or updated software to ensure the

highest quality. There is a clear division between devops and development. All changes are logged in our source code repository. We use standard deployment tools. Our iterative methodology ensures a functional view of the processes, milestones, activities, and artifacts, or records.

## **TIBCO's Business Continuity Plan (BCP)**

TIBCO has a Business Continuity Plan (BCP) to ensure the effects of an emergency event are minimized. If a disaster or emergency situation occurs, the Support Emergency Team (SEMT) coordinates the recovery effort and uses the Employee Communication Chains to notify staff that the BCP is activated.

TIBCO has an Information Security Management System (ISMS) to preserve the confidentiality, integrity, and availability of information. Information security is considered in the design of processes, information systems, and controls.

TIBCO's Quality Management System (QMS) is based on ISO 9001, which is an internationally recognized standard that sets out the criteria for a quality management system incorporating the Plan-Do-Check-Act (PDCA) cycle. TIBCO's QMS is a formalized system of business processes, procedures, and responsibilities focused on:

- Customer Excellence - Meeting customer requirements and enhancing customer satisfaction by providing high-quality products and services.
- Quality - Meeting TIBCO requirements for quality policies and objectives with measurable goals.

TIBCO's Quality Management System is documented and structured in levels.

## **Product Security**

At TIBCO, security is our highest priority. You can be sure that TIBCO Messaging is secure based on our own high standards and the best practices of our infrastructure providers.

TIBCO® Messaging Quasar - Powered by Apache Pulsar™ offers logging, transport security, authentication and authorization, and compatibility with other products.

This section is useful to security officers, deployers, administrators, and purchasers.

## Security Features

Apache Pulsar can be configured with the following security features and boundaries:

- **Transport encryption using TLS:**

Apache Pulsar supports pluggable authentication mechanisms. TIBCO recommends to use TLS to encrypt the plain text traffic used by clients.

- **Authentication and authorization:**

Apache Pulsar supports the following authentication providers:

- [TLS](#)
- [JSON Web Token \(JWT\)](#)
- [Athenz](#)
- [Kerberos](#)
- [OAuth 2.0](#)
- [HTTP basic](#)

For more information about securing messages, see [Pulsar security overview](#).

- **Logging:**

Apache Pulsar logs key activities. The security of log data requires an unbroken chain of secure connections. Your organization is responsible for protecting and reviewing logging files.

## Product Connectivity

TIBCO® Messaging Quasar - Powered by Apache Pulsar™ supports several interconnecting components, and also connects with other TIBCO and third-party products. You can secure all connections within TIBCO Messaging. For more information about secure configurations, see the relevant TIBCO-supplied component's documentation.



# TIBCO Documentation and Support Services

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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 Quasar - Powered by Apache Pulsar™ [product documentation](#) page:

- *TIBCO® Messaging Quasar - Powered by Apache Pulsar™ Release Notes*
- *TIBCO® Messaging Quasar - Powered by Apache Pulsar™ Installation*

## 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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