

TIBCO ActiveMatrix[®] Service Gateway

Installation

*Software Release 1.1
May 2012*

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Preface



This software may be available on multiple operating systems. However, not all operating system platforms for a specific software version are released at the same time. Please see the readme file for the availability of this software version on a specific operating system platform.

TIBCO ActiveMatrix Service Gateway® is a high-performance event-based service-request routing engine. It treats requests and responses as events and implements the logic of a gateway layer using simple event-condition-action rules. TIBCO ActiveMatrix Service Gateway provides the functionality of service abstraction, back-end integration, routing, request authentication and authorization, orchestration and throttling management with the implementation of policies at each layer of the gateway. To support these core functions, TIBCO ActiveMatrix Service Gateway offers the centralized logging and Partner & Service Management.

TIBCO ActiveMatrix Service Gateway architecture has been designed so that when multiple TIBCO ActiveMatrix Service Gateway servers are deployed, key management functions including throttle management, cache management and logging are co-ordinated across servers.

Topics

- [Related Documentation, page vi](#)
- [Typographical Conventions, page viii](#)
- [Connecting with TIBCO Resources, page xi](#)

Related Documentation

This section lists documentation resources you may find useful.

TIBCO ActiveMatrix Service Gateway Documentation

The following documents form the *TIBCO ActiveMatrix Service Gateway* documentation set:

- *TIBCO ActiveMatrix Service Gateway Installation*: Read this manual for instructions on site preparation and installation.
- *TIBCO ActiveMatrix Service Gateway Release Notes*: Read the release notes for a list of new and changed features. This document also contains lists of known issues and closed issues for this release.
- *TIBCO ActiveMatrix Service Gateway User's Guide*: Read the user's guide on how to use the product functionality.

Other TIBCO Product Documentation

You may find it useful to read the documentation for the following TIBCO products:

- TIBCO BusinessEvents®
- TIBCO ActiveMatrix BusinessWorks™
- TIBCO Rendezvous®
- TIBCO Enterprise Message Service™
- TIBCO Designer™
- TIBCO ActiveMatrix® Spotfire®

Third-Party Documentation

You may find it useful to read the documentation for the following products:

- Apache HTTP Server: The documentation can be found at:
<http://httpd.apache.org/docs/>
- mysql database: The documentation can be found at:
<http://dev.mysql.com/doc>
- oracle database: The documentation can be found at:

<http://www.oracle.com/technetwork/database/enterprise-edition/documentation/database11gr1-087487.html>

Typographical Conventions

The following typographical conventions are used in this manual.

Table 1 General Typographical Conventions

Convention	Use
<code>TIBCO_HOME</code>	Many TIBCO products must be installed within the same home directory. This directory is referenced in documentation as <code>TIBCO_HOME</code> .
<code>ENV_NAME</code>	Other TIBCO products are installed into an installation environment. Products installed into different installation environments do not share components.
<code>ASG_HOME</code>	Incompatible products and multiple instances of the same product must be installed into different installation environments. An installation environment consists of the following properties:
<code>ASG_CONFIG_HOME</code>	<ul style="list-style-type: none">• Name: Identifies the installation environment. This directory is referenced in documentation as <code>ENV_NAME</code>.• Path: The directory into which the product is installed. This directory is referenced in documentation as <code>TIBCO_HOME</code>. The value of <code>TIBCO_HOME</code> depends on the operating system. <p>TIBCO ActiveMatrix Service Gateway installs into a directory within <code>TIBCO_HOME</code>. This directory is referenced in documentation as <code>ASG_HOME</code>. For example on linux platform, the value of <code>ASG_HOME</code> is <code>/home/asg/tibcoasg/asg/1.1</code>.</p> <p>TIBCO ActiveMatrix Service Gateway stores the configuration files in a directory which is seperate from the installation directory. This directory is referenced in documentation as <code>ASG_CONFIG_HOME</code>.</p>
<code>code font</code>	<p>Code font identifies commands, code examples, filenames, pathnames, and output displayed in a command window. For example:</p> <p>Use <code>MyCommand</code> to start the foo process.</p>
bold code font	<p>Bold code font is used in the following ways:</p> <ul style="list-style-type: none">• In procedures, to indicate what a user types. For example: Type admin.• In large code samples, to indicate the parts of the sample that are of particular interest.• In command syntax, to indicate the default parameter for a command. For example, if no parameter is specified, <code>MyCommand</code> is enabled: <code>MyCommand [enable disable]</code>

Table 1 General Typographical Conventions (Cont'd)




Convention	Use
<i>italic font</i>	<p>Italic font is used in the following ways:</p> <ul style="list-style-type: none"> To indicate a document title. For example: See <i>TIBCO ActiveMatrix BusinessWorks Concepts</i>. To introduce new terms. For example: A portal page may contain several portlets. <i>Portlets</i> are mini-applications that run in a portal. To indicate a variable in a command or code syntax that you must replace. For example: <code>MyCommand PathName</code>
Key combinations	<p>Key names separated by a plus sign indicate keys pressed simultaneously. For example: Ctrl+C.</p> <p>Key names separated by a comma and space indicate keys pressed one after the other. For example: Esc, Ctrl+Q.</p>
	The note icon indicates information that is of special interest or importance, for example, an additional action required only in certain circumstances.
	The tip icon indicates an idea that could be useful, for example, a way to apply the information provided in the current section to achieve a specific result.
	The warning icon indicates the potential for a damaging situation, for example, data loss or corruption if certain steps are taken or not taken.

Table 2 Syntax Typographical Conventions

Convention	Use
[]	<p>An optional item in a command or code syntax.</p> <p>For example:</p> <p><code>MyCommand [optional_parameter] required_parameter</code></p>
	<p>A logical OR that separates multiple items of which only one may be chosen.</p> <p>For example, you can select only one of the following parameters:</p> <p><code>MyCommand para1 param2 param3</code></p>

Table 2 Syntax Typographical Conventions

Convention	Use
{ }	<p>A logical group of items in a command. Other syntax notations may appear within each logical group.</p> <p>For example, the following command requires two parameters, which can be either the pair param1 and param2, or the pair param3 and param4.</p> <pre>MyCommand {param1 param2} {param3 param4}</pre> <p>In the next example, the command requires two parameters. The first parameter can be either param1 or param2 and the second can be either param3 or param4:</p> <pre>MyCommand {param1 param2} {param3 param4}</pre> <p>In the next example, the command can accept either two or three parameters. The first parameter must be param1. You can optionally include param2 as the second parameter. And the last parameter is either param3 or param4.</p> <pre>MyCommand param1 [param2] {param3 param4}</pre>

Connecting with TIBCO Resources

How to Join TIBCOCommunity

TIBCOCommunity is an online destination for TIBCO customers, partners, and resident experts; a place to share and access the collective experience of the TIBCO community. TIBCOCommunity offers forums, blogs, and access to a variety of resources. To register, go to <http://www.tibcommunity.com>.

How to Access All TIBCO Documentation

After you join TIBCOCommunity, you can access the documentation for all supported product versions here:

<http://docs.tibco.com/TibcoDoc>

How to Contact TIBCO Support

For comments or problems with this manual or the software it addresses, please contact TIBCO Support as follows:

- For an overview of TIBCO Support, and information about getting started with TIBCO Support, visit this site:

<http://www.tibco.com/services/support>

- If you already have a valid maintenance or support contract, visit this site:

<https://support.tibco.com>

Entry to this site requires a username and password. If you do not have a username, you can request one.

Chapter 1 **Introduction**

This chapter provides information about installation modes and software requirements that you should be aware of before starting the installation.

Topics

- [Installation Overview on page 2](#)
- [Installation Requirements on page 4](#)
- [TIBCO ActiveMatrix Service Gateway Software Requirements on page 6](#)

Installation Overview

This section gives an overview of the TIBCO Universal Installer.

Installation Modes

Three installation modes are available: GUI, console, and silent.

GUI Mode

In the GUI mode, the installer presents panels that allow you to make choices about product selection, product location, and so on. To invoke the installer in GUI mode, double-click the executable.

Console Mode

Console mode allows you to run the installer from the command prompt or terminal window. This is useful if your machine does not have a GUI environment.

Silent Mode

Silent mode installs the product using either default or custom settings that are saved in a response file. Silent mode installs the product without prompting you for information.

Installation Types

Two installation types are available: Profile or Custom.

- The Profile installation type installs all the software for a specific profile.
- The Custom installation type allows you to select components.

Installer Account

Any user can install this product.

- Regular (non-root) user
- Super-user (root).

While installing this product on UNIX platforms, ensure that the same installer account is used to install all TIBCO products.

Windowing Environment

A windowing environment such as CDE (that is, X11 Windows) is required to run the installer in GUI mode. It is not required for a console installation or silent installation.

Permissions

The user performing the installation must have Read Write Execute permissions on all the files and directories, after the compressed file is unpacked. The file structure after unpacking must be identical to the structure that was packed.

Installer Log File

The installer log file, `tibco_universal_installer.username_install.log`, is written to the `.TIBCO/install_timestamp` folder of the user's home directory. To change the location of the installer log file, specify the option `-v logFile="myLogFile"` when you run the installer.

The installer log file captures the following information:

- Installation environment details such as the user that invoked the installer, host name, Java home in the environment, operating system details, and so on.
- List of assemblies installed.
- Information related to the Ant scripts that are executed by the installer.

Installation Requirements

This section describes disk space requirements, system memory requirements, software requirements by the installer, and supported platforms for this product.

Installer Prerequisites

The installer requires TIBCO Rendezvous to be installed in the same *TIBCO_HOME*. Refer to the readme file for the minimum product version requirements.



- Install TIBCO Rendezvous before you install TIBCO ActiveMatrix Service Gateway software.
- **Do not install TIBCO ActiveMatrix Services Gateway software in the same *TIBCO_HOME* where TIBCO BusinessEvents product is installed.**

It is recommended to install TIBCO ActiveMatrix Services Gateway software separate from the TIBCO BusinessEvents product installation.

Disk Space Requirements for the Installer

Before installing this product, extract the contents of the installation archive to a temporary directory. The installer files consume up to approximate 600 MB of disk space.

Temporary Disk Space Required by the Installer

The installer launcher first extracts a Java Virtual Machine (JVM) in a temporary directory and uses this JVM to launch itself. The size of the extracted JVM differs from platform to platform.

On linux, the installer requires at least 50 MB of free space in the temporary directory (/tmp).

If your system does not have sufficient disk space in the default temporary area, you can run the installer with a different temporary directory by using the following option when starting the installer:

```
install_package_name.bin -is:tempdir /new_tmp
```

where */new_temp* has sufficient free disk space.

Disk Space Requirement in Product Home Directory

The installer calculates the disk space required in the product home location for the selected components. The calculation is done before the actual installation (copying of files to the system) begins. The installer will proceed only if sufficient free disk space is available in the product home location.

However, if disk space is consumed by another process while the installer is copying the files, and if the required disk space is thereby reduced, the installer may fail and will then give a failure message.

While performing installation, avoid running other processes that consume disk space in the product home location.

Disk Space After Installation

On linux platform, this product can consume 600 MB of free space under *TIBCO_HOME*.

System Memory Requirements for the Installer

A minimum of 2 GB of physical memory is required.

Supported Platforms

Refer to the readme file for the supported platforms and versions and required patches.

TIBCO ActiveMatrix Service Gateway Software Requirements

Depending on the tasks you wish to perform, you must install one or more other TIBCO products. [Table 3](#) describes the required and optional software products and their purpose.

Table 3 TIBCO ActiveMatrix Service Gateway Software Requirements

Software	Description
TIBCO Software The software products below are distributed and installed separately from this product. See the readme file for the supported versions.	
TIBCO Rendezvous	Required. TIBCO Rendezvous is used as a message transport.
TIBCO Enterprise Message Service	Optional. TIBCO Enterprise Message Service allows you to use the Java Messaging Services (JMS) as a message transport. TIBCO ActiveMatrix Service Gateway is not necessarily installed on the machine on which TIBCO Enterprise Message Service is installed.
TIBCO ActiveMatrix BusinessWorks	Optional. TIBCO ActiveMatrix BusinessWorks is a scalable, extensible, and easy to use integration platform that allows you to develop integration projects. Optionally, you can use BusinessWorks in integration projects.
TIBCO ActiveMatrix Spotfire	Optional. Used for operational and analytical reporting.
Third-party Software See the readme file for the supported versions.	
Apache HTTP Server	Required. Refer to the TIBCO ActiveMatrix Service Gateway readme file for the supported versions.
Java Virtual Machine	Required. JRE 1.6.0 is packaged with TIBCO ActiveMatrix Service Gateway as a convenience.
DBMS Software	Required. The database stores audit log information for operations and transactions. Note: Different DBMS software are supported. Refer to the readme file for the supported databases and versions.

Table 3 *TIBCO ActiveMatrix Service Gateway Software Requirements*

Software	Description
JDBC Drivers	<p>Required. JDBC drivers are used to access the databases used by TIBCO ActiveMatrix Service Gateway Server.</p> <p>Use database drivers, as provided, by the DBMS vendors for their respective database management systems. You must package and install database drivers into <i>TIBCO ActiveMatrix Service Gateway</i> installation.</p>
Web Browsers	<p>Required. Web Browsers are required to access the graphical user interface (GUI).</p>

Chapter 2

Installing TIBCO ActiveMatrix Service Gateway

This chapter explains how to install and uninstall this product.

Topics

- [Installation on page 10](#)
- [Uninstallation on page 17](#)

Installation

The following sections describe the installation process in the available installation modes:

- [GUI Mode, page 10](#)
- [Console Mode, page 11](#)
- [Silent Mode, page 11](#)

GUI Mode

To install this product in GUI mode,

1. Open the physical media or download the package.
2. Extract the contents of the package to a temporary directory.
3. Navigate to the temporary directory.
4. Run TIBCO Universal Installer. You can do so in one of the following ways:
 - Double-click the installer icon.
 - On the command prompt, run the installer file on without specifying any options. You can also provide the absolute path of the installer file. The installer defaults to GUI mode. Type the command:
`./TIBCOUniversalInstaller-lnx-x86-64.bin`
5. Click the **Next** button on the Welcome dialog.
6. Read through the license text when the License Agreement dialog appears, select the **I Accept The Terms of The License Agreement** radio button and then click the **Next** button.
7. Click the **Next** button. The TIBCO Installation Home dialog displays.

An installation environment isolates product installations. A product installed into an installation environment does not access components in other installation environments. An installation environment consists of a name and path. You can choose a new environment or an existing environment.

- **Create A New *TIBCO_HOME*** This option is used to install the product into a new installation environment. Do not use this option as this product requires existing TIBCO Rendezvous installation.
- **Use an existing *TIBCO_HOME*** Select this radio button, and select the directory from the drop-down list where TIBCO Rendezvous product is installed. TIBCO ActiveMatrix Service Gateway product is installed in this directory.

8. Click the **Next** button.
9. Select **Typical** as the installation profile from the list on the left. This is the default option. This profile installs the typical feature set for this product.



TIBCO Universal Installer allows to customize the profile feature settings. For this option, check the Customize Installation checkbox and use the feature tree on the right.

10. Click the **Next** button.
11. Verify the list of components selected for install.
12. Click the **Next** button.
13. **TIBCO Configuration Directory:** Click **Browse** button to select a folder for TIBCO Configuration Directory. This folder is used to store the configuration information. The subdirectories **tibco/cfgmgmt** are created to the above folder.
14. Click the **Next** button.
15. Review the Installation Environment Details in the Pre-Install Summary dialog.
16. Click the **Install** button to start the installation process.
17. Review the information listed in the Post-Install Summary dialog.
18. Click the **Finish** button to complete the installation process and exit the universal installer.

Console Mode

To install this product in console mode:

1. Open the physical media or download the package.
2. Extract the contents of the package to a temporary directory.
3. Using a console window, navigate to the temporary directory.
4. Run TIBCO Universal Installer as follows:

```
./TIBCOUniversalInstaller-lnx-x86-64.bin -console
```
5. Complete the installation by responding to the console window prompts.

Silent Mode

In silent mode, the universal installer does not prompt for any inputs during installation. Instead, the inputs are read from a response file that can be provided as a command-line parameter. If no value is specified, the installer uses the default `TIBCOUniversalInstaller-asg.silent` file.

The `TIBCOUniversalInstaller.silent` file is packaged in the directory that contains the universal installer. Edit the file with information for your environment before launching the silent installation. The file includes comments that describe the installation properties you can set. While you can use the `TIBCOUniversalInstaller-asg.silent` file, it's good practice to copy the file to a different name and use that file for the silent install.

If errors occur during installation, they will be listed in the installation log file located in the `User_Home/.TIBCO` directory.

1. Open the physical media or download the package.
2. Extract the contents of the package to a temporary directory.
3. Using a console window, navigate to the temporary directory.
4. Make a copy of the `TIBCOUniversalInstaller-asg.silent` file and rename the file.
5. Using a text editor, open the copied file and update the install location, `ENV_NAME`, and features to install as follows:

- Update the install location. This indicates the directory where the product is to be installed. For example, update the directory as follows:

```
<entry key="installationRoot">/home/asg/tibcoasg</entry>
```

- Update `ENV_NAME`.

For example, update `ENV_NAME` as follows:

```
<entry key="createNewEnvironment">false</entry>
<entry key="environmentName">TIBCO_HOME</entry>
```

- Update TIBCO Configuration Directory. This directory is used to store the configuration information.

For example, update `configDirectoryRoot` as follows:

```
<entry key="configDirectoryRoot">/home/user/tibco</entry>
```



If TIBCO ActiveMatrix Services Gateway is installed in a directory which has a config directory already set by other TIBCO product (for example, TIBCO Enterprise Messaging Service), it is not required to set the `configDirectoryRoot` in the silent file. In this case, the silent installer uses the value of `configDirectoryRoot` as already set and ignores the value if set in the silent file.

— Update features to install. Set the features that you want to install to `true`.

6. Run TIBCO Universal Installer as follows:

```
./TIBCOUniversalInstaller-lnx-x86-64.bin -silent -V  
responseFile="myfilename.silent"
```

Verifying the Installation

This section explains the ways to verify the TIBCO ActiveMatrix Service Gateway installation.

Checking Installer log file

Check the file *tibco_universal_installer.userid_install.log*, which is located in the *.TIBCO/install_timestamp* folder of the user's home directory performing the installation:

Errors in this file, or the existence of error files under this folder, indicates installation problems. Error files have the following format:

`antTask_ERROR_log_post-install_mm-dd-yyyy.n.log`

Checking TIBCO ActiveMatrix Service Gateway Server Status

This section describes the steps to check the status of TIBCO ActiveMatrix Service Gateway server instance by invoking a simple ping operation. This includes configuring and running the Apache HTTP server, running EMS Server followed by running TIBCO ActiveMatrix Service Gateway Server.

To configure and Run Apache HTTP Server

See [Appendix A, Configuring Third Party Software](#), on page 19

To Configure TIBCO Enterprise Message Service:

1. Make sure TIBCO Enterprise Message Service is running.
2. Create the following queues in the TIBCO EMS server. For example, using **tibemsadmin** tool:


```
create queue asg.out.request
create queue asg.out.request.reply.0.0
create queue asg.out.request.reply.0.1
create queue asg.out.request.reply.0.2
create queue asg.in.request
create queue asg.in.request.reply.0
```



The default configuration assumes that TIBCO Enterprise Message Service is running on the localhost and port 7222. Depending on the host and port where EMS server runs, you can edit the EMS server configuration parameters in the `ASG_CONFIG_HOME/config/asg.properties` file.

To Run TIBCO ActiveMatrix Service Gateway Server

1. Navigate to the TIBCO ActiveMatrix Service Gateway installation as below:

```
cd ASG_HOME/bin
```

2. Start the TIBCO ActiveMatrix Service Gateway Server:

```
./asg-engine
```



If you see any errors while starting the TIBCO ActiveMatrix Service Gateway server, make sure that you have completed the steps listed in following sections:

[Set System Environment Variables on page 16](#)

[Configuring Third Party Software on page 19](#)

3. Verify that TIBCO ActiveMatrix Service Gateway server started successfully.

4. Open a web browser and type:

```
http://hostname:port/ping
```



hostname is the machine on which Apache HTTP server runs and *port* is the listening port for Apache HTTP Server as configured in `<Apache_HOME>/conf/httpd.conf` file.

5. Verify that the following message is displayed in the browser window:

```
ASG is alive
```

Post Installation Tasks

This section explains some post-installation steps that you may have to perform in your installation.

Set System Environment Variables

After the product is installed, ensure that the following environment variables are set correctly. Depending on the type of shell, you may have to use different commands to set these variables.

- **RV_HOME:** Verify that this variable is set to the directory where TIBCO Rendezvous software is installed. If not, set it as follows:
export RV_HOME=directory where the TIBCO Rendezvous product is installed.
- **PATH:** Verify that this variable includes \$RV_HOME/bin. If not, set it as follows:
export PATH=\$RV_HOME/bin:\$PATH
- **LD_LIBRARY_PATH:** Verify that this variable includes \$RV_HOME/lib. If not, set it as follows:
export LD_LIBRARY_PATH=\$RV_HOME/lib:\$LD_LIBRARY_PATH



If you use the EMS channels with TIBCO ActiveMatrix Service Gateway software, do one of the following:

- Verify that the property `tibco.env.EMS_HOME` is set to the TIBCO Enterprise Message Service installation home. This property is defined in the `ASG_HOME/bin/asg-engine.tra` file.

For example,

```
tibco.env.EMS_HOME=/home/asg/tibcoasg/ems/5.1
```

- Copy the `jms.jar` and `tibjms.jar` files from TIBCO Enterprise Message Service installation (`EMS_HOME/lib`) to `ASG_HOME/lib/ext/tpcl`

Uninstallation

This section describes how to uninstall this product in the GUI mode and the Console mode.

GUI Mode

To uninstall this product:

1. Shut down all running TIBCO applications.
2. Navigate to *TIBCO_HOME/tools/universal_installer* directory and run *TIBCOUniversalInstaller* as follows:
`./TIBCOUniversalInstaller-lnx-x86-64.bin`
3. In the TIBCO Installation Manager page, perform the following steps:
 - Select the **Uninstall Products From Selected TIBCO Home Location** radio button.
 - Select the *TIBCO_HOME* location from the TIBCO Home Location drop-down list.
4. Click the **Next** button.
5. Verify the Welcome dialog appears. Click the **Next** button.
6. Choose an uninstallation option. The wizard provides two uninstallation options:
 - **Custom Uninstall** You can select the products to be removed.
 - **Typical Uninstall** The universal uninstaller removes all the products in this *TIBCO_HOME*.
7. Click the **Next** button. If you selected the **Custom Uninstall**, select the checkboxes for products to uninstall under the list of **Products Available for Uninstall**, and then click the **Next** button.
8. Review the Pre-UnInstall Summary and click the **Uninstall** button to start the uninstallation process.
9. Review the Post-UnInstall Summary and click the **Finish** button to exit the uninstall wizard.
10. Verify that there are no errors in the `tibco_universal_installer.asg_uninstall.log` file, located in *.TIBCO/maintenance_<date.time_stamp>* directory of the user's home directory performing the un-installation:

Console Mode

To uninstall this product in Console mode, complete the following steps:

1. Using a command window, navigate to the directory:
`TIBCO_HOME\tools\universal_installer`
2. Type the following command at the command prompt:
`./TIBCOUniversalInstaller-lnx-x86-64.bin -console`
3. Complete the un-installation by responding to the console window prompts.

Appendix A **Configuring Third Party Software**

This appendix provides details to setup and configure the third party software and any system configuration to run TIBCO ActiveMatrix Service Gateway server.

Topics

- [Setup Apache HTTP Server on page 20](#)

Setup Apache HTTP Server

This section describes the steps required to set up the Apache HTTP server.

Installing Apache HTTP Server

1. Download Apache httpd server from <http://httpd.apache.org>. Refer to the TIBCO ActiveMatrix Service Gateway software readme for Apache server version requirements.
2. Compile the source and install it. Refer to the Apache httpd server documentation for complete installation details. You may download the binary installation for your distribution.

Configuring Apache HTTP Server for TIBCO ActiveMatrix Service Gateway

1. Open the *Apache_HOME/conf/httpd.conf* file for editing.
2. Add the following line in the file:

```
Include ASG_HOME/modules/http_server/apache/mod_ASG.conf
```



Replace the ASG_HOME to the directory location where TIBCO ActiveMatrix Service Gateway product is installed.

3. Modify the listening port, as required:

```
Listen 8080
```



Edit the listen port only if you run the Apache Server as a normal user. If you run it as a super user, change in port is not required.

4. Verify that you have setup the system environment variables. See [Set System Environment Variables on page 16](#)

Running Apache HTTP Server

1. Navigate to the directory:
Apache_HOME/bin
2. Run the command:
./apachectl start

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