GlassFish v3 Application Server Quick Start Guide



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Application Server Quick Start

The *GlassFish Application Server v3 TP2 Quick Start Guide* provides basic instructions for quickly getting up and running with GlassFish Application Server v3 TP2 software.

For information about conventions used in this document, see the Documentation Conventions page.

Installing Application Server Software

Install the GlassFish Application Server software before continuing with the remainder of this document. GlassFish Application Server v3 TP2 software is available from Application Server — V3 Technology Preview page.

▼ To Install Application Server v3 TP2 Software

Before You Begin

The Application Server v3 TP2 installation requires JDK 5 or JDK 6. Also make sure that the Java bin directory is in your path.

- Download the technology preview bundle.
- 2 Change to the directory into which you want to install the v3 TP2 bundle.
- 3 Unzip the bundle:

unzip filename.zip

where *filename*.zip is the name of the bundle you just downloaded. This installs the v3 TP2 distribution into a new glassfish directory under your current directory.

Starting and Stopping the Default Domain

By default, when you install Application Server, a default domain named domain1 is created.

▼ To Start the Default Domain

Use the asadmin start-domain command.

as-install/bin/asadmin start-domain

Alternatively, you can enter the full command:

java -jar as-install/modules/admin-cli-10.0-SNAPSHOT.jar start-domain

Either of these commands starts the default domain, domain1.

To Stop the Default Domain

Use the asadmin stop-domain command.

as-install/bin/asadmin stop-domain

• Alternatively, you can enter the full command:

java -jar as-install/modules/admin-cli-10.0-SNAPSHOT.jar stop-domain

Either of these commands stops the default domain, domain1.

Starting and Stopping the Bundled Java DB Server

Application Server is bundled by default with a Java DB server implementation, although you can used any JDBC-compliant database engine. The database is not started by default when you start Application Server, so if you have applications need a database backend, you need to start the database server manually.

To Start the Java DB Server

The instructions in this procedure describe how to start the Java DB server that is bundled with Application Server, but they apply for the most part to any database you want to use.

Note – At least one Application Server domain must be started *before* starting the database server.

Use the asadmin start-database command.

The general form for the command is:

as-install/bin/asadmin start-database --dbhome directory_path

By default, for the Java DB bundled with Application Server, you do not need to use the --dbhome option:

as-install/bin/asadmin start-database

This starts the default Java DB located in *as-install/glassfish/javadb*.

▼ To Stop the Java DB Server

Use the asadmin stop-database command.

as-install/bin/asadmin stop-database

Using the Administration Console GUI

The Application Server Administration Console GUI (hereafter referred to as the *Admin Console*) provides a graphical, browser-based means for configuring, maintaining, and monitoring the Application Server and your domains.

Note – In the Application Server v3 TP2 release, the Admin Console is not installed by default, but is instead installed when you invoke it for the first time after installing Application Server.

▼ To Launch the Admin Console

Before You Begin

Make sure at least one Application Server domain is started, as described in "To Start the Default Domain" on page 4.

Open the Admin Console URL in a browser window.

The default URL for the Admin Console is:

http://localhost:4848/admingui/index.jsf

You are prompted to install the Admin Console.

- 2 Enter a proxy host and proxy port, if necessary, and then click OK to start the Admin Console installation.
- 3 When the installation is complete, refresh the browser page to launch the Admin Console.
- 4 Enter a user name and password.

By default:

- User Name: admin
- Password: adminadmin
- 5 Refer to the GlassFish v3 Application Server Administration Guide and to the Admin Console online help for instructions on using the Admin Console.

Deploying and Undeploying Applications

The process of configuring and enabling an application to run within the Application Server framework is referred to as *deployment*.

You can deploy applications in three ways:

- From the command line (Admin Console CLI) with the asadmin deploy command
- From the Admin Console GUI
- By placing the application in the as-install/domains/domain_name/autodeploy directory

Note – In the Application Server v3 TP2 release, applications can be packaged for deployment in Web Archive (WAR) format only.

The remainder of this chapter explains how to deploy, list, and undeploy applications.

The instructions in this section use the hello.war sample file available at http://glassfish.dev.java.net/downloads/quickstart/hello.war.

- "To Get the Sample Application Used in This Section" on page 7
- "To Deploy an Application From the Admin Console CLI" on page 7
- "To List Deployed Applications From the Admin Console CLI" on page 7
- "To Undeploy an Application From the Admin Console CLI" on page 8
- "To Deploy an Application From the Admin Console GUI" on page 8
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- "To Undeploy an Application From the Admin Console GUI" on page 9
- "To Deploy an Application Using Autodeploy" on page 9
- "To Undeploy an Autodeployed Application" on page 9

▼ To Get the Sample Application Used in This Section

Download the hello.war sample from

http://glassfish.dev.java.net/downloads/quickstart/hello.war and save it in the directory of your choice.

The procedures in the remainder of this chapter use this hello.war sample.

▼ To Deploy an Application From the Admin Console CLI

1 Use the asadmin deploy command.

The general form for the command is:

as-install/bin/asadmin deploy war_name

To deploy the hello.war sample, the command is:

as-install/bin/asadmin deploy sample_dir/hello.war

2 Access the hello application by entering the following URL in a browser window:

http://localhost:8080/hello

The application's start page is displayed, and you are prompted to fill in your name.

Hi, my name is Duke. What's yours?

3 Type your name and click Submit.

The application displays a customized response, giving you a personal Hello.

To List Deployed Applications From the Admin Console CLI

Use the asadmin list-applications command:

as-install/bin/asadmin list-applications

▼ To Undeploy an Application From the Admin Console CLI

Use the asadmin undeploy command.

The general form for the command is:

as-install/bin/asadmin undeploy --name war_name

For the hello.war example, the command is:

as-install/bin/asadmin undeploy --name hello.war

▼ To Deploy an Application From the Admin Console GUI

1 Open the Admin Console GUI by entering the following URL in a browser window:

http://localhost:8080/admingui/

2 Click the Web Applications node in the tree on the left.

The Web Applications page is displayed.

3 Click Deploy.

The Deploy Enterprise Applications/Modules page is displayed.

- 4 Select "Packaged file to be uploaded to the server," if it is not already selected, and then click Browse.
- 5 Navigate to the location in which you saved the hello.war sample, and then click Open.

Note – If running Application Server on Windows, be sure to remove the drive letter and colon (for example, C:) from the file name path.

You are returned to the Deploy Enterprise Applications/Modules page.

- 6 Enter a description in the Description field; for example, hello.
- 7 Accept the other default settings, and click OK.

You are returned to Web Applications page.

8 Display the sample application by entering the following URL in a browser window:

http://localhost:8080/hello/

▼ To View Deployed Applications in the Admin Console GUI

1 Open the Admin Console GUI by entering the following URL in a browser window:

http://localhost:8080/admingui/

2 Click the Web Applications node in the tree on the left.

The list of deployed Web applications is displayed in the page is displayed in the Deployed Web Applications table on the Web Applications page.

▼ To Undeploy an Application From the Admin Console GUI

1 Open the Admin Console GUI by entering the following URL in a browser window:

http://localhost:8080/admingui/

2 Click the Web Applications node in the tree on the left.

The Web Applications page is displayed.

3 Select the checkbox next to the application(s) you want to undeploy, and then click *Undeploy*. Alternatively, you can keep an application deployed, but disable it by clicking *Disable*.

To Deploy an Application Using Autodeploy

1 Create a directory named as-install/domains/domain_name/autodeploy domain_name is the name of the domain for which you want to configure autodeployment. For this example, use the default domain1 domain:

as-install/domains/domain1/autodeploy

2 Copy the application WAR file to the *as-install/domains/domain_name/autodeploy* **directory.** The application is automatically discovered and started by Application Server.

To Undeploy an Autodeployed Application

Delete the application from the domain's autodeploy directory.

Working With JRuby-on-Rails

JRuby is a Java implementation of the Ruby programming language, an interpreted language with a simple syntax that enables developers to create applications quickly and easily. Rails is a Web application framework that eliminates much of the repetition and configuration required in other programming environments. An application written in JRuby using the Rails framework is called a JRuby-on-Rails application. With JRuby-on-Rails, you get the simplicity and productivity offered by Ruby and Rails and the access to Java libraries offered by the Java platform.

▼ To Create and Deploy a JRuby-on-Rails Application in Application Server

This procedure illustrates how to create a simple "Hello World" application with JRuby-on-Rails in Application Server v3 TP2.

These steps illustrate a directory-based deployment to Application Server. You can also package your JRuby-on-Rails application in a WAR file and deploy the WAR file to Application Server, as described earlier in this document. Alternatively, you can install a Application Server instance in your JRuby VM and deploy your application to it. See the JRuby-on-Rails on Application Server Tutorial ***[Link TBD] for more information.

- 1 Download and unpack j ruby1.1-bin.zip from http://dist.codehaus.org/j ruby.
- 2 Change to the directory in which you unpacked JRuby, and then install Rails.

```
dirname/bin/jruby -S gem install rails --no-ri --no-rdoc
```

3 Change to the JRuby samples directory and create the hello application.

```
../bin/jruby -S rails hello
```

4 Change to the hello directory you created, and generate the controllers and views for the application:

```
../../bin/jruby script/generate controller say hello
```

5 Open the hello/app/controllers/say_controller.rb file in a text editor, and add a String variable to the hello method of the controller:

```
def hello
    @hello_string = "Welcome to JRuby on GlassFish"
end
```

6 Open the hello/app/views/say/hello.html.erb file in a text editor, and add the following to the end of the file:

```
<%= @hello_string %>
```

7 Open the hello/config/environment.rb file in a text editor, and uncomment line 21 of the file by deleting the hash mark in front of it.

```
Line 21 should now read:
config.frameworks -= [ :active_record, :active_resource, :action_mailer ]
```

- 8 Start Application Server.
- 9 Change to the parent directory of your sample hello directory and deploy the hello application:

```
as-install/bin/asadmin deploy --path hello
```

10 Enter the following URL in your browser to run the sample:

```
http:localhost:8080/hello/say/hello
```

You should now see the following message in your browser:

```
Say#hello
Find me in app/views/say/hello.html.erb
Welcome to JRuby on GlassFish
```

Working With NetBeans

***[TBD]

Working With Eclipse

***[TBD]

Application Server Update Center

The GlassFish Application Server Update Center is a convenient GUI-based tool for getting the latest versions of various Application Server plugins, extensions, and related applications. There is also a command-line interface for all Update Center functions.

The Update Center can be launched with the updatetool command in the Application Server *as-install*/updatecenter/bin directory, or from the Application Server administration console GUI.

For More Information

The GlassFish Application Server is an open source community project for which numerous sources of additional information are available.

GlassFish Application Server Project Page	Starting point for Application Server downloads, documentation, wikis, and forums $ \\$
Application Server Documentation Home Page	Complete Application Server documentation
Application Server Wiki	Community site that includes a wide range of topics related to Application Server
Application Server FAQ	Several FAQs covering various Application Server topics
Application Server user forums	Provide community support and tips for working with Application Server
Application Server Screencasts	Rapidly growing collection of screencasts that demonstrate numerous features and examples for working with Application Server and related projects
Java EE 5 Tutorial	Provides extensive instructions, examples, and sample code for working with all Java platform core technologies