# **Source:** [**https://www.digitalocean.com/community/tutorials/how-to-install-glassfish-4-0-on-ubuntu-12-04-3**](https://www.digitalocean.com/community/tutorials/how-to-install-glassfish-4-0-on-ubuntu-12-04-3)

# **How To Install Glassfish 4.0 on Ubuntu 12.04.3**

Tagged In: [Ubuntu](https://www.digitalocean.com/community/tags/ubuntu), [Java](https://www.digitalocean.com/community/tags/java)

### Pre-conditions

There are many tutorials available to help you install OpenJDK and JBoss. This is one on the latest concerning Oracle Java and Glassfish. Hopefully this will make deploying easier for Java EE developers.

You will need a droplet with Ubuntu 12.04.3 x64 that has been created with DigitalOcean. Login as root by ssh. This article assumes no Java installed and at least 1G memory, as Java EE servers are quite demanding.

**What is Glassfish?**

GlassFish is an open-source application server and the reference implementation of Java EE. GlassFish 4.0 release supports the latest Java Platform: Enterprise Edition 7. It supports Enterprise JavaBeans, JPA, JavaServer Faces, JMS, RMI, JavaServer Pages, servlets, etc.

## Step One: Install Oracle Java 7

Start by updating the package index:

sudo apt-get update

In order to get Oracle Installer of Java 7, we need to add a new apt repository. In order to use add-apt-repository, you need to install python-software-properties. Here's how to do it by apt-get:

sudo apt-get install python-software-properties

Now you can add the new repository and install from Oracle Installer:

sudo add-apt-repository ppa:webupd8team/java

Make source list up-to-date:

sudo apt-get update

Install Java 7 by apt-get:

sudo apt-get install oracle-java7-installer

After installing, confirm the current Java is Oracle version:

java -version

**You will see this:**

java version "1.7.0\_51"  
Java(TM) SE Runtime Environment (build 1.7.0\_51-b13)  
Java HotSpot(TM) 64-Bit Server VM (build 24.51-b03, mixed mode)

## Step Two: Install Glassfish 4.0

**Get Glassfish Zip file**

wget download.java.net/glassfish/4.0/release/glassfish-4.0.zip

Install unzip first before unpackage to /opt

apt-get install unzip

Create the directory /opt and then unzip the package to /opt:

unzip glassfish-4.0.zip -d /opt

For convenience, add export PATH=/opt/glassfish4/bin:$PATH to the end of ~/.profile.

**Start the glassfish server:**

asadmin start-domainwwwwwwww

**You will see:**

Waiting for domain1 to start ...................  
Successfully started the domain : domain1  
domain Location: /opt/glassfish4/glassfish/domains/domain1  
Log File: /opt/glassfish4/glassfish/domains/domain1/logs/server.log  
Admin Port: 4848  
Command start-domain executed successfully.

A domain is a set of one or more GlassFish Server instances managed by one administration server. Default GlassFish Server’s port number: 8080. Default administration server’s port number: 4848. Administration user name: admin; password: none.

In order to visit admin page (your*server*id:4848) remotely, you need to enable secure admin:

asadmin enable-secure-admin

**You will see:**

Enter admin user name> admin  
Enter admin password for user "admin">   
You must restart all running servers for the change in secure admin to take effect.  
Command enable-secure-admin executed successfully.

Restart domain to make effect of secure admin:

asadmin restart-domain

**You will see:**

Successfully restarted the domain  
Command restart-domain executed successfully.

Now you can visit admin page (your*server*id:4848) in browser

**To stop the GlassFish server:**

asadmin stop-domain

**You will see:**

Waiting for the domain to stop .  
Command stop-domain executed successfully.

## Demo service: deploy hello.war on Glassfish

Download the sample application from Glassfish official samples:

wget https://glassfish.java.net/downloads/quickstart/hello.war

Deploy war file:

asadmin deploy /home/ee/glassfish/sample/hello.war

**You will see:**

Enter admin user name> admin  
Enter admin password for user "admin">   
Application deployed with name hello.  
Command deploy executed successfully.

Now you can visit your*server*id:8080/hello

To undeploy the application:

asadmin undeploy hello

**You will see:**

Enter admin user name> admin  
Enter admin password for user "admin">   
Command undeploy executed successfully.

In order to save typing "admin user name" and "password" every time you deploy or undeploy an application, create a password file pwdfile with content:

AS\_ADMIN\_PASSWORD=your\_admin\_password

Add --passwordfile in command:

asadmin --passwordfile pwdfile deploy /home/ee/glassfish/sample/hello.war

Now the prompt for user name/password won't appear.

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