

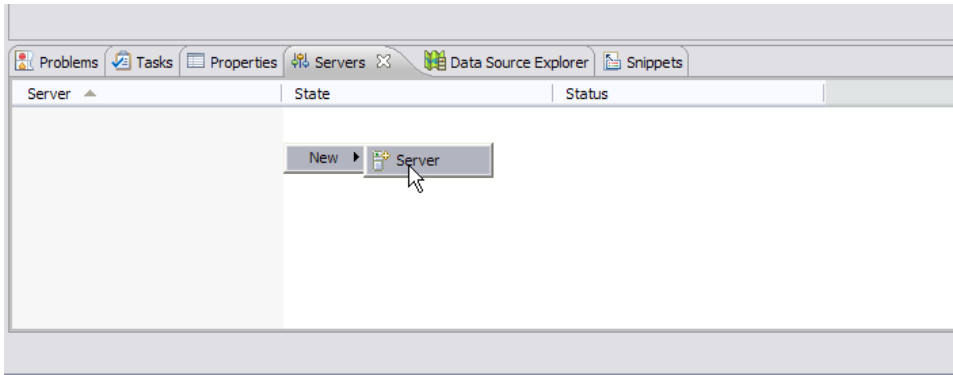
How to Use Geronimo Eclipse Plugin

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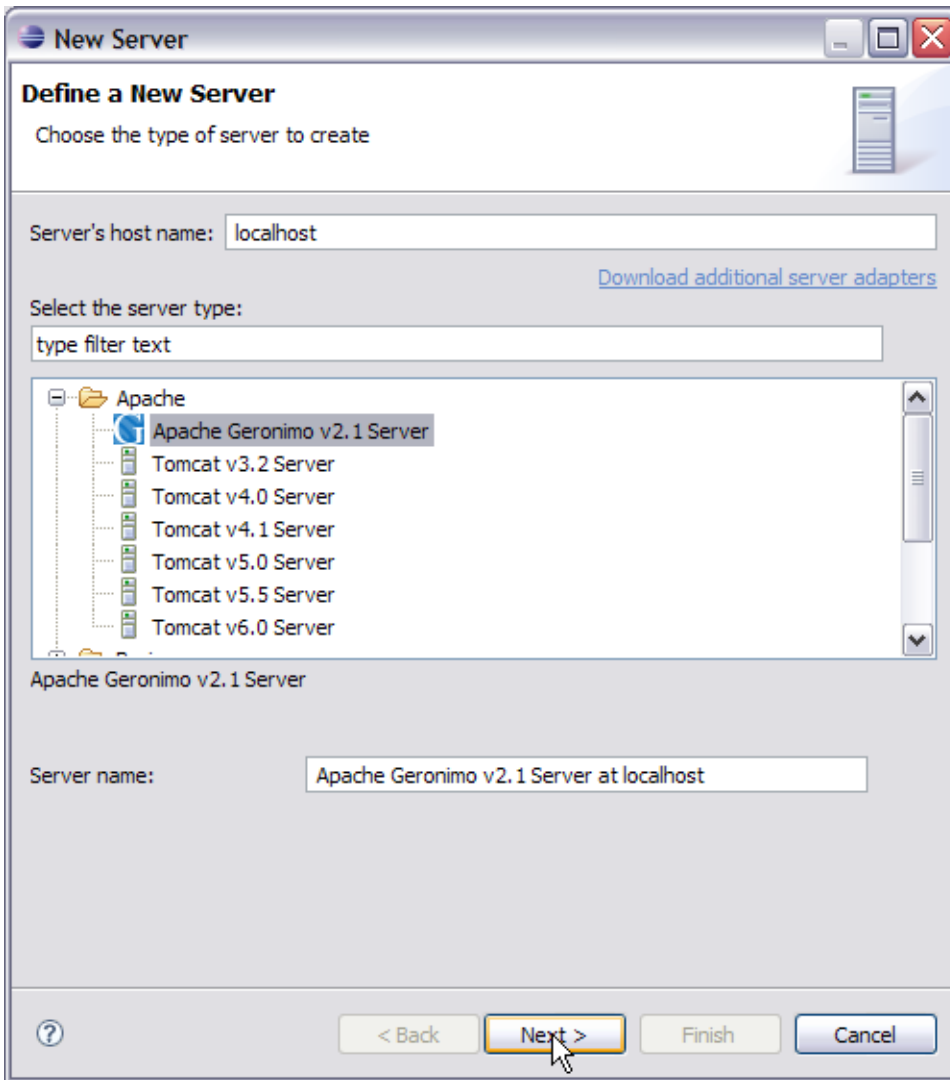
Here we will illustrate the various useful functionalities of GEP. This will include adding server runtime, adding Java runtime, start, stop, deploy, redeploy, undeploy and other functionalities.

Adding Target Server and Java Runtime in Eclipse

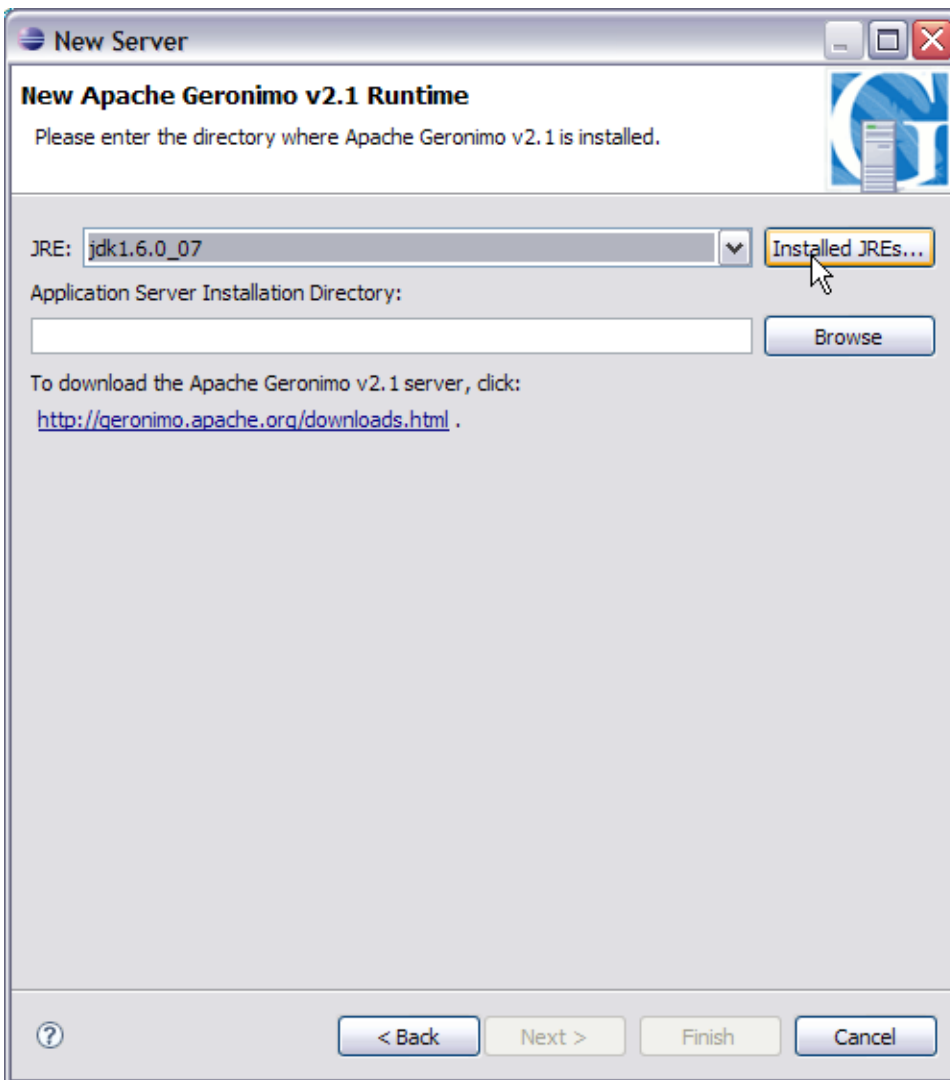
1. Launch Eclipse. By default JEE perspective will be launched. Select **Server** tab. Right Click and Select **New->Server**.



2. On the next screen select **Apache->Apache Geronimo V2.1 Server**. In case you do not see geronimo in the list follow the steps mentioned in [How to install Geronimo Eclipse Plugin v2.1.2](#).



3. On the next screen select Installed JRE's to install a new Java Runtime Environment.



4. This will launch the installed JRE's window where all the installed JRE's can be seen. You can currently see only one installed JRE. Select **Add**.

6. On the next window Browse to your root directory of Installed JRE.

Add JRE

JRE Definition

⚠ Enter the home directory of the JRE.

JRE home: **Directory...**

JRE name:

Default VM Arguments:

JRE system libraries:

Add External JARs...

Javadoc Location...

Source Attachment...

Remove

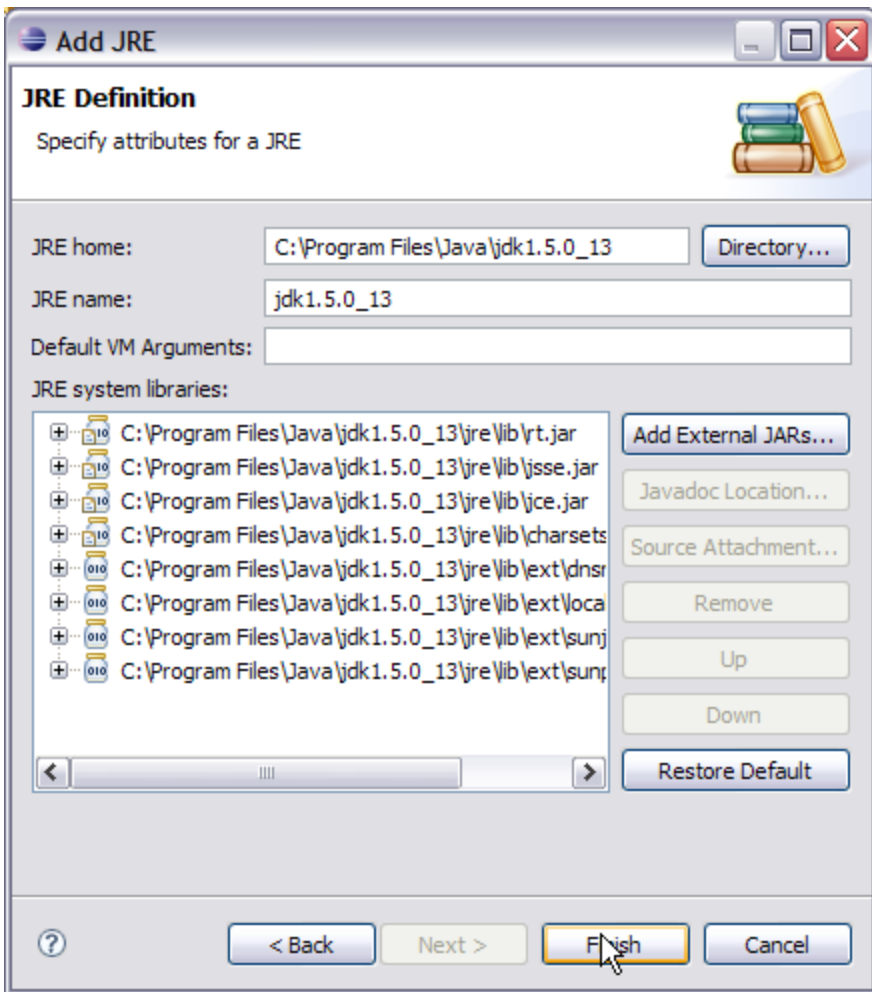
Up

Down

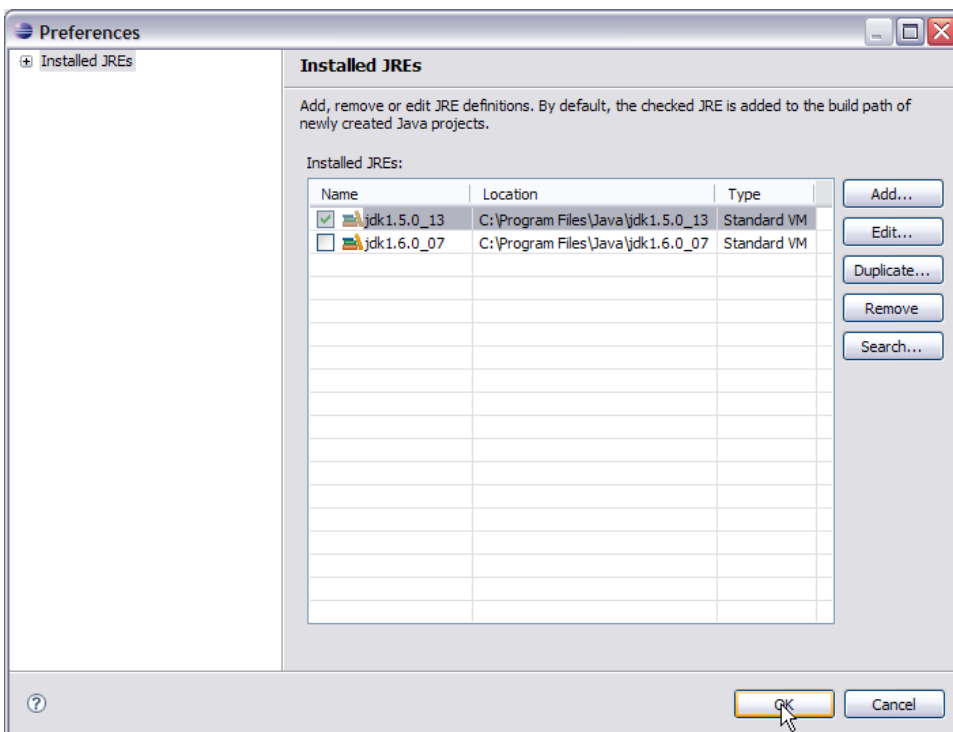
Restore Default

? < Back Next > Finish Cancel

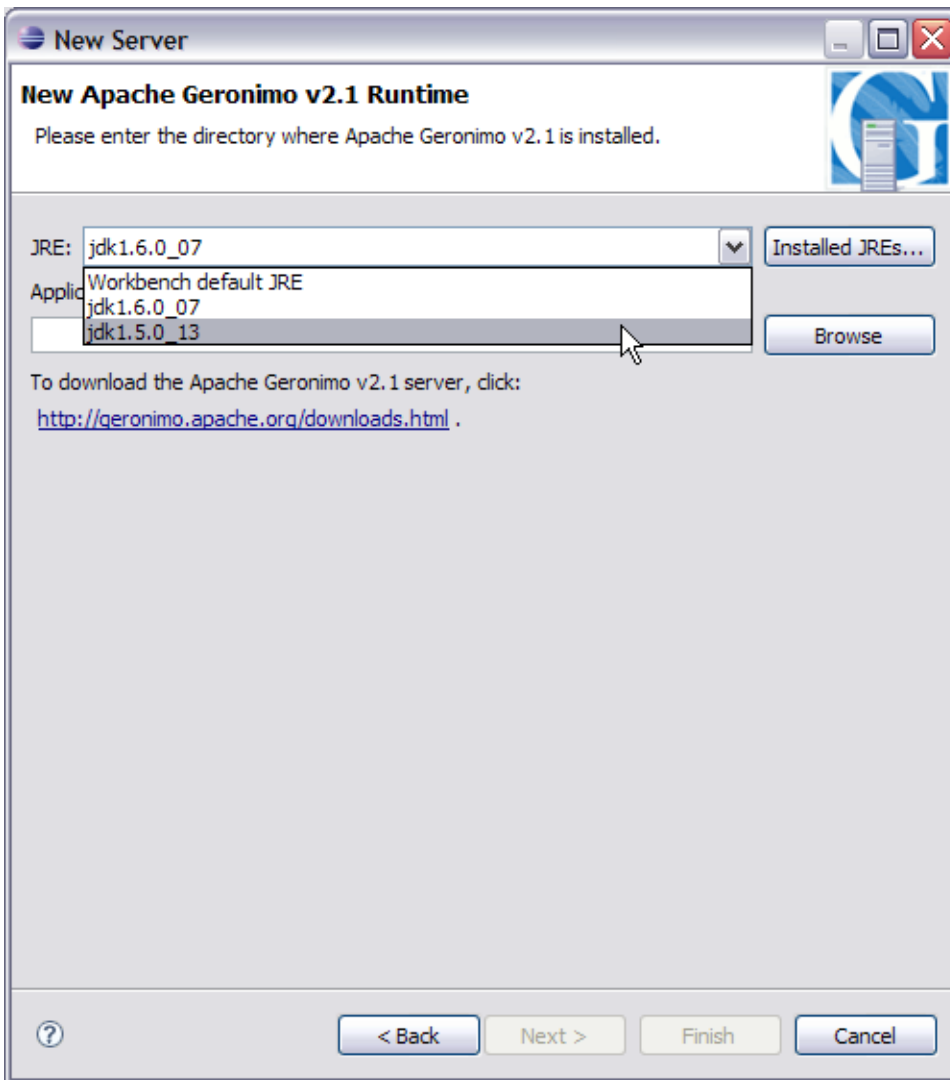
7. Once done you can see **JRE home** and **JRE name** field populated. Select **Finish**.



8. Check the box to select newly added JRE. Select **Ok**.

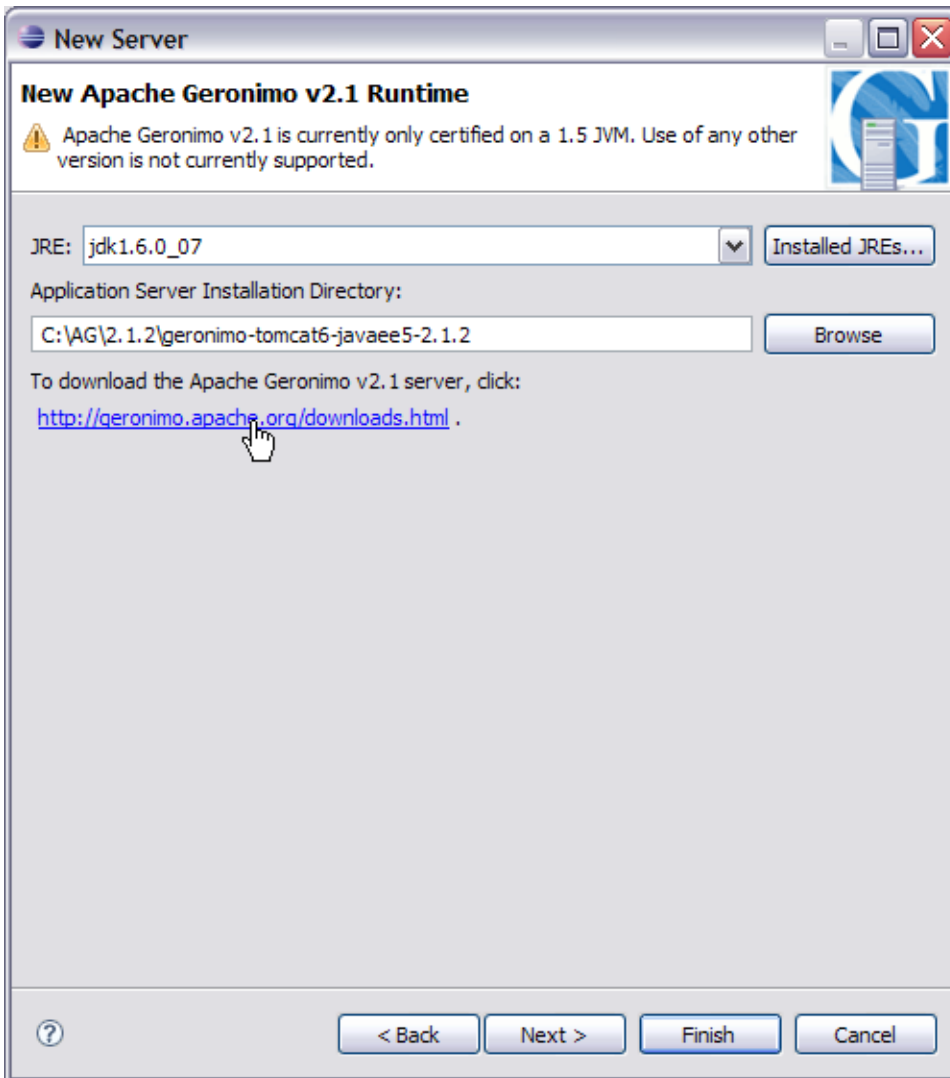


9. On the New Server window select the drop down box and select the newly added JRE.

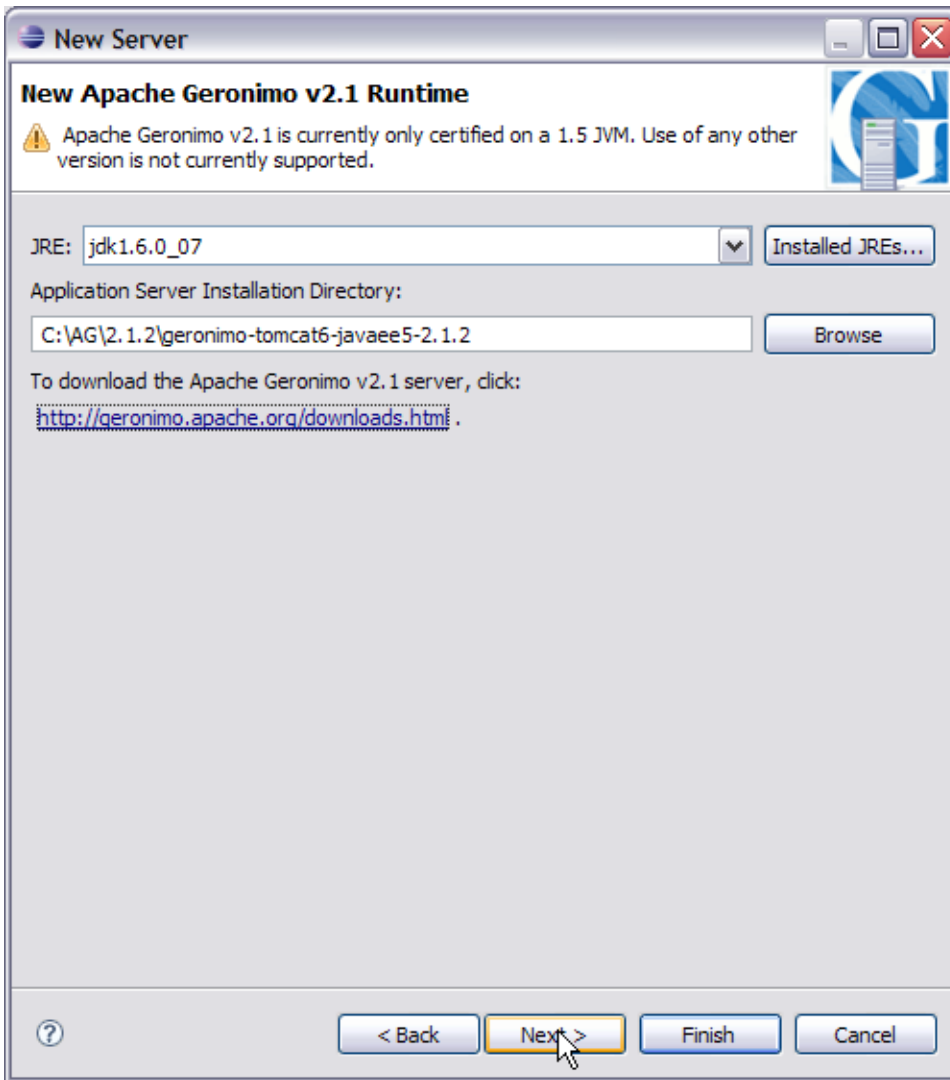


However for the current illustration we will stick to Java 6.

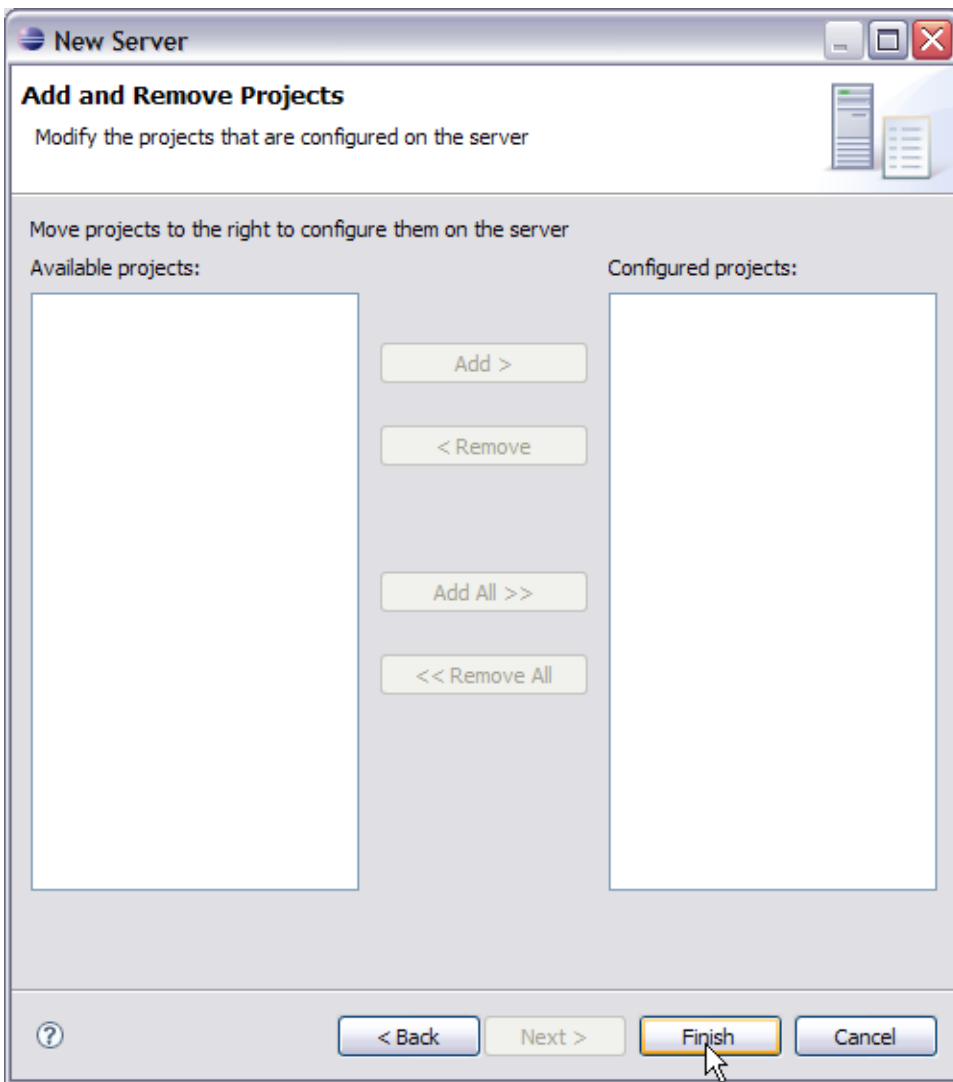
10. Next Browse to the root folder of your Geronimo Server Installation. In case you do not have a server installed select the link as shown in the figure to download geornimo.



11. Select Next once you have specified all the artifacts.



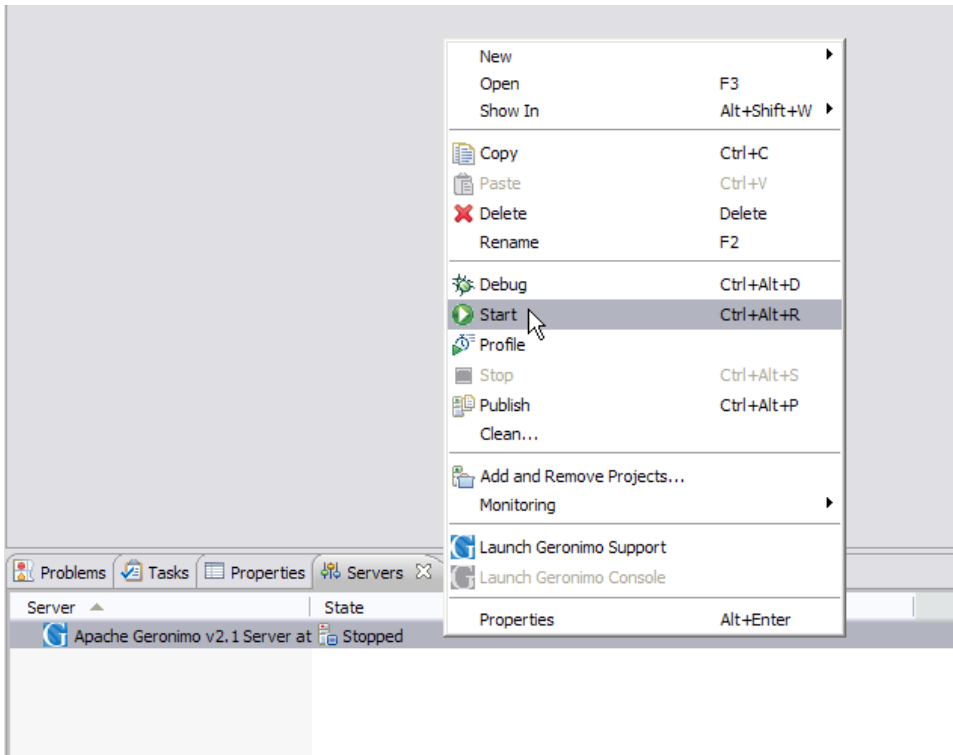
12. Keep the default values for next 2 windows and select Next. Select Finish. This will create a geronimo server under **Server** tab.



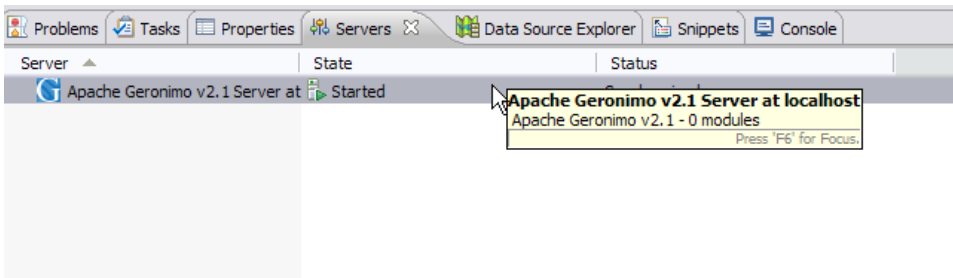
This completes the illustration for adding a server

Start and Stop Server

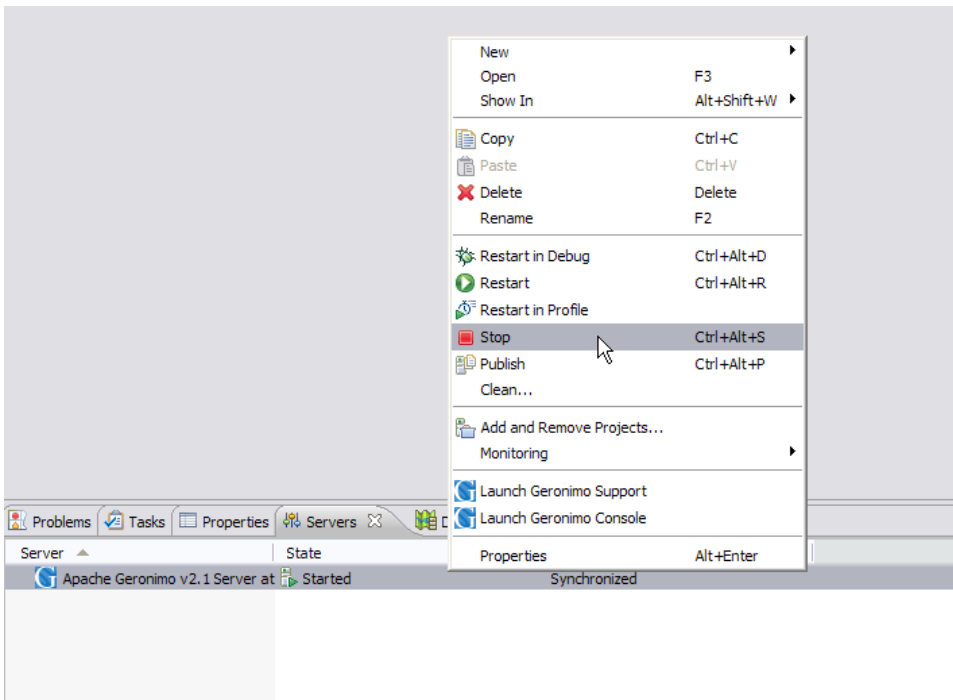
1. Right Click on the geronimo server instance and Select **Start**.



2. Server will be started and you can see the status changed to Started.



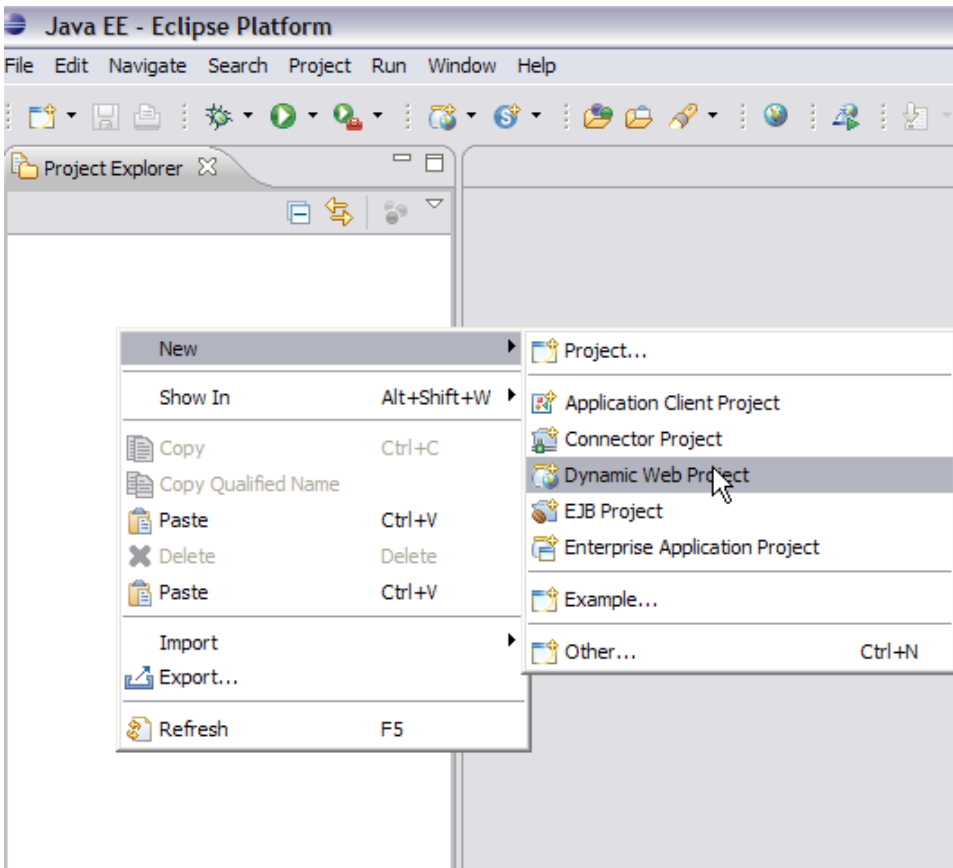
3. To stop the server Right Click on the server instance and Select **Stop**.



Deploy Run Undeploy and Redeploy an Application

To illustrate these functionalities we will add a simple web project and later work with it to deploy/run/undeploy/redploy application.

4. Right Click under Project Explorer and Select **New->Dynamic Web Project**.



5. Name the project as **Hello World**. Select **Next**.

The screenshot shows the 'New Dynamic Web Project' dialog box. The title bar reads 'New Dynamic Web Project'. Below the title bar, the text 'Dynamic Web Project' is followed by a description: 'Create a standalone Dynamic Web project or add it to a new or existing Enterprise Application.' and a small globe icon. The dialog is divided into several sections: 'Project name:' with a text field containing 'Hello World'; 'Project contents:' with a checked checkbox 'Use default' and a 'Directory:' field showing 'C:\workspace\gepdod\Hello World' with a 'Browse...' button; 'Target Runtime' with a dropdown menu showing 'Apache Geronimo v2.1' and a 'New...' button; 'Dynamic Web Module version' with a dropdown menu showing '2.5'; 'Configuration' with a dropdown menu showing 'Default Configuration for Apache Geronimo v2.1' and a 'Modify...' button, followed by a descriptive paragraph; and 'EAR Membership' with an unchecked checkbox 'Add project to an EAR' and an 'EAR Project Name:' field showing 'EAR' with a 'New...' button. At the bottom, there are four buttons: '< Back', 'Next' (highlighted with a mouse cursor), 'Finish', and 'Cancel'.

6. Keep the defaults on the next window. Select **Next**.

New Dynamic Web Project

Web Module
Configure web module settings.

Context Root:
Hello_World

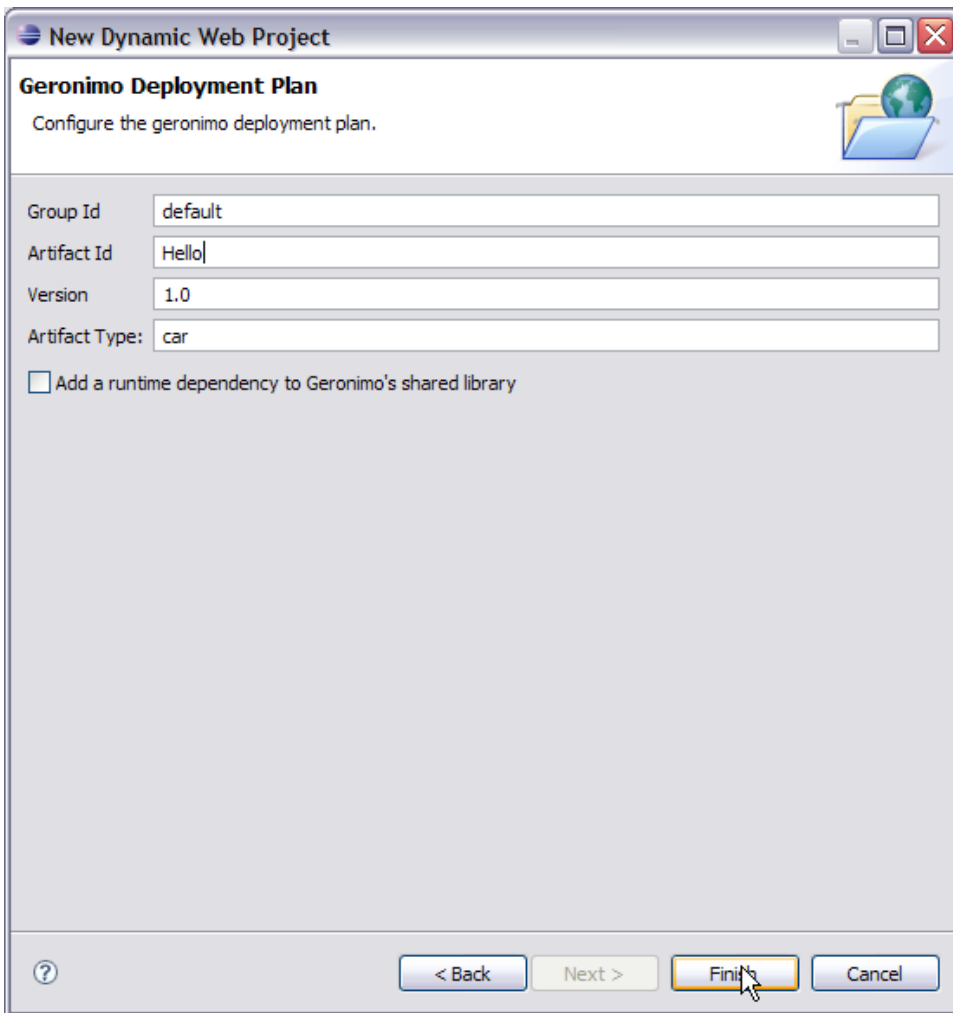
Content Directory:
WebContent

Java Source Directory:
src

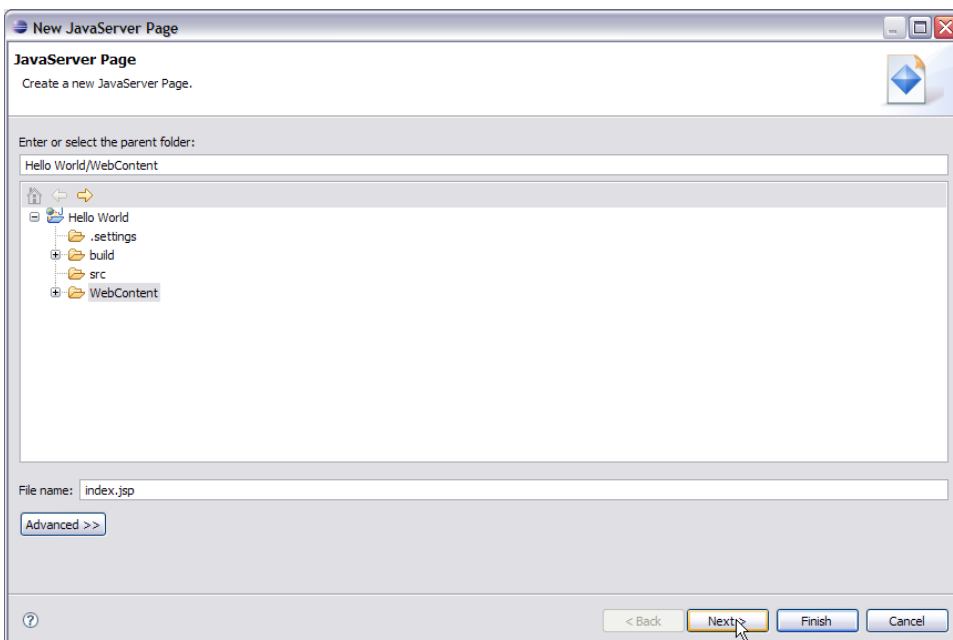
☒ Generate deployment descriptor

? < Back Next Finish Cancel

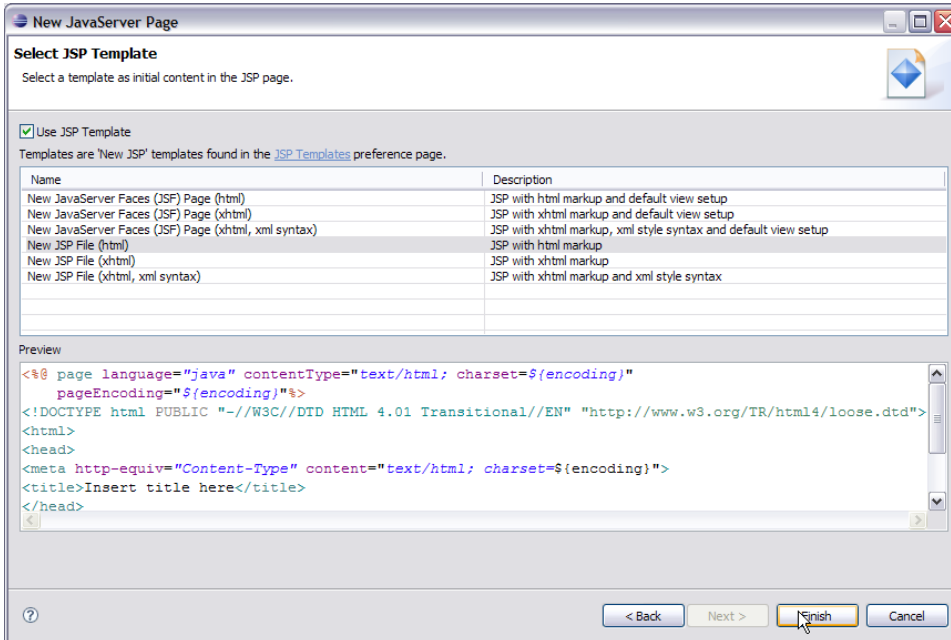
7. On the Geronimo Deployment Plan window name the **Artifact Id** as Hello. Select **Finish**. This will add a web project.



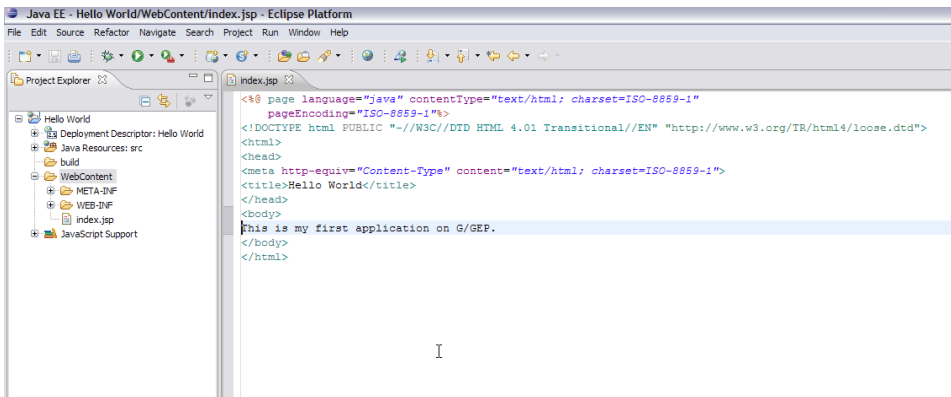
8. Expand the project and Right Click on **Web Content**. Select **New->JSP**. Name the jsp as index.jsp and Select **Next**.



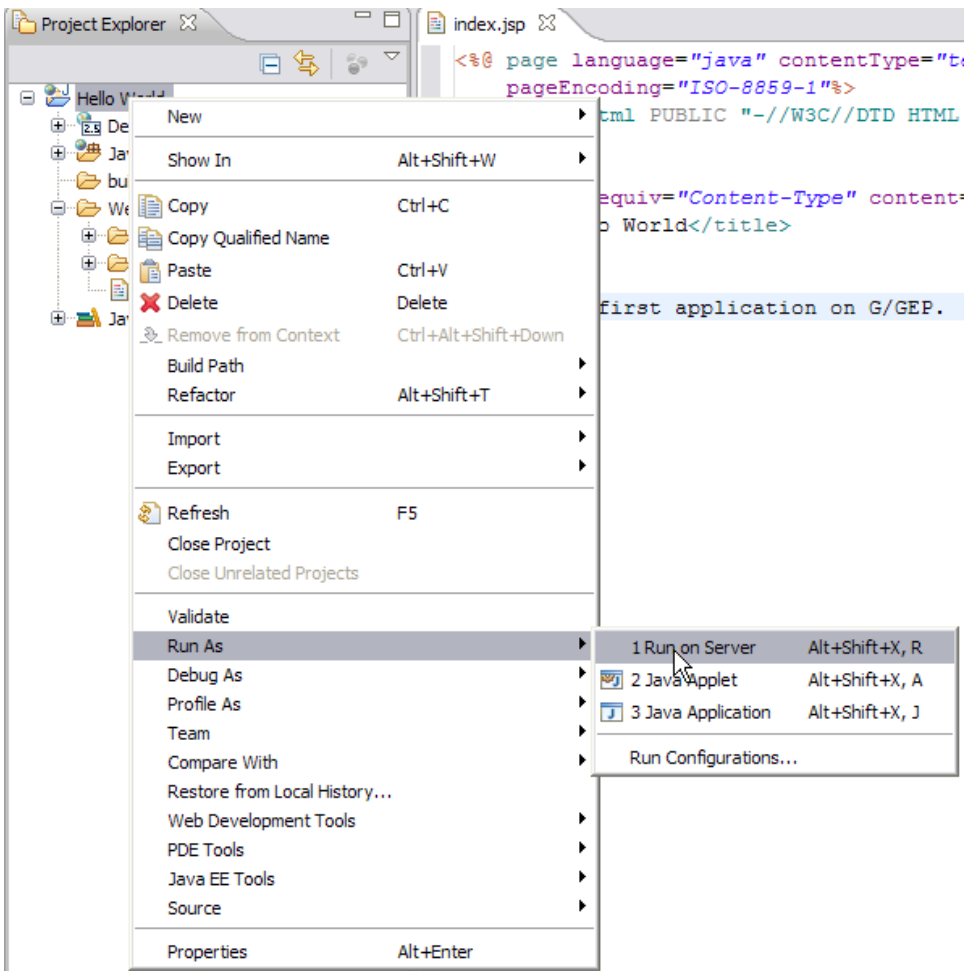
9. On the next window select Finish.



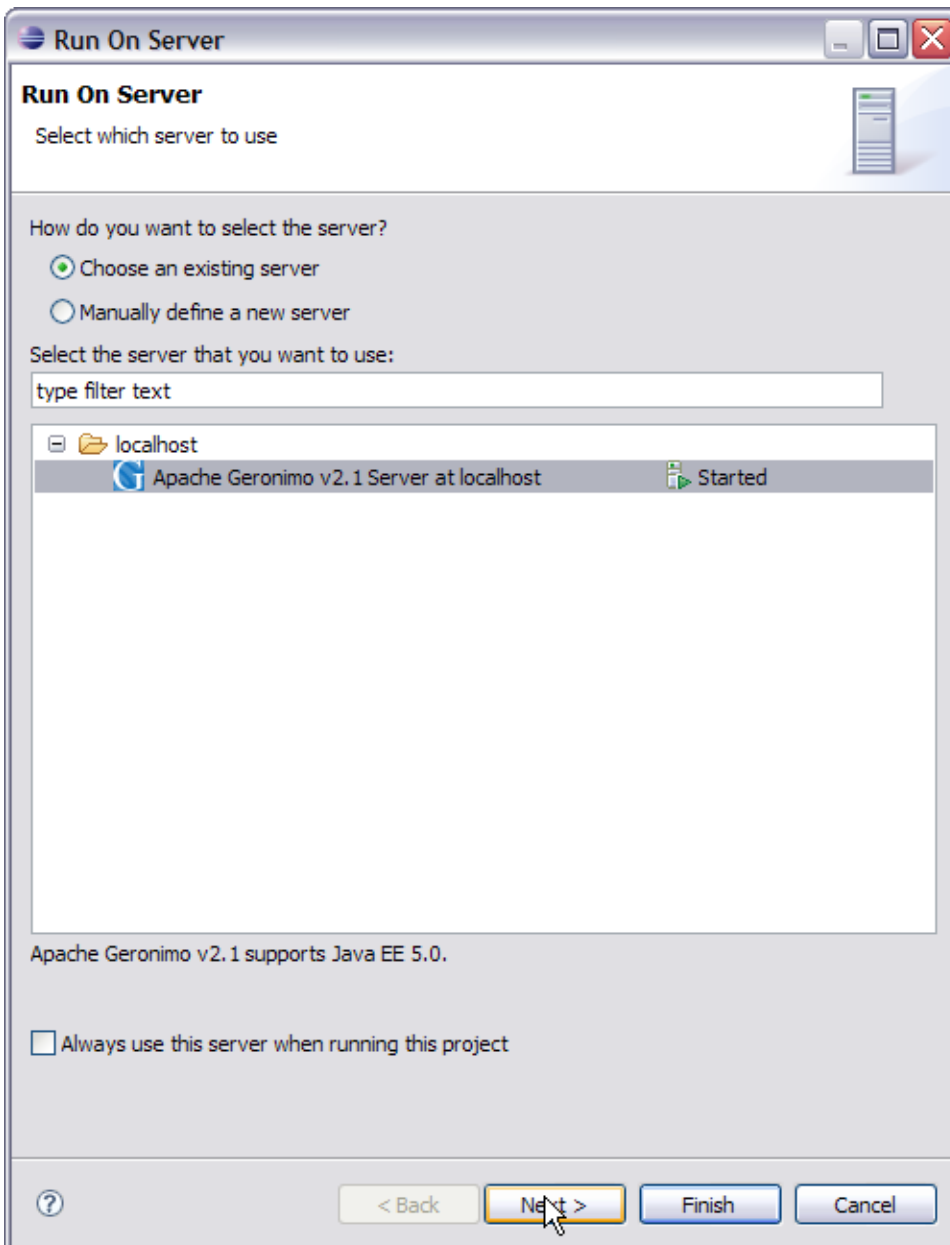
10. In index.jsp add the title as **Hello World** and in the body add **This is my first application on G/GEP**. Save the changes.



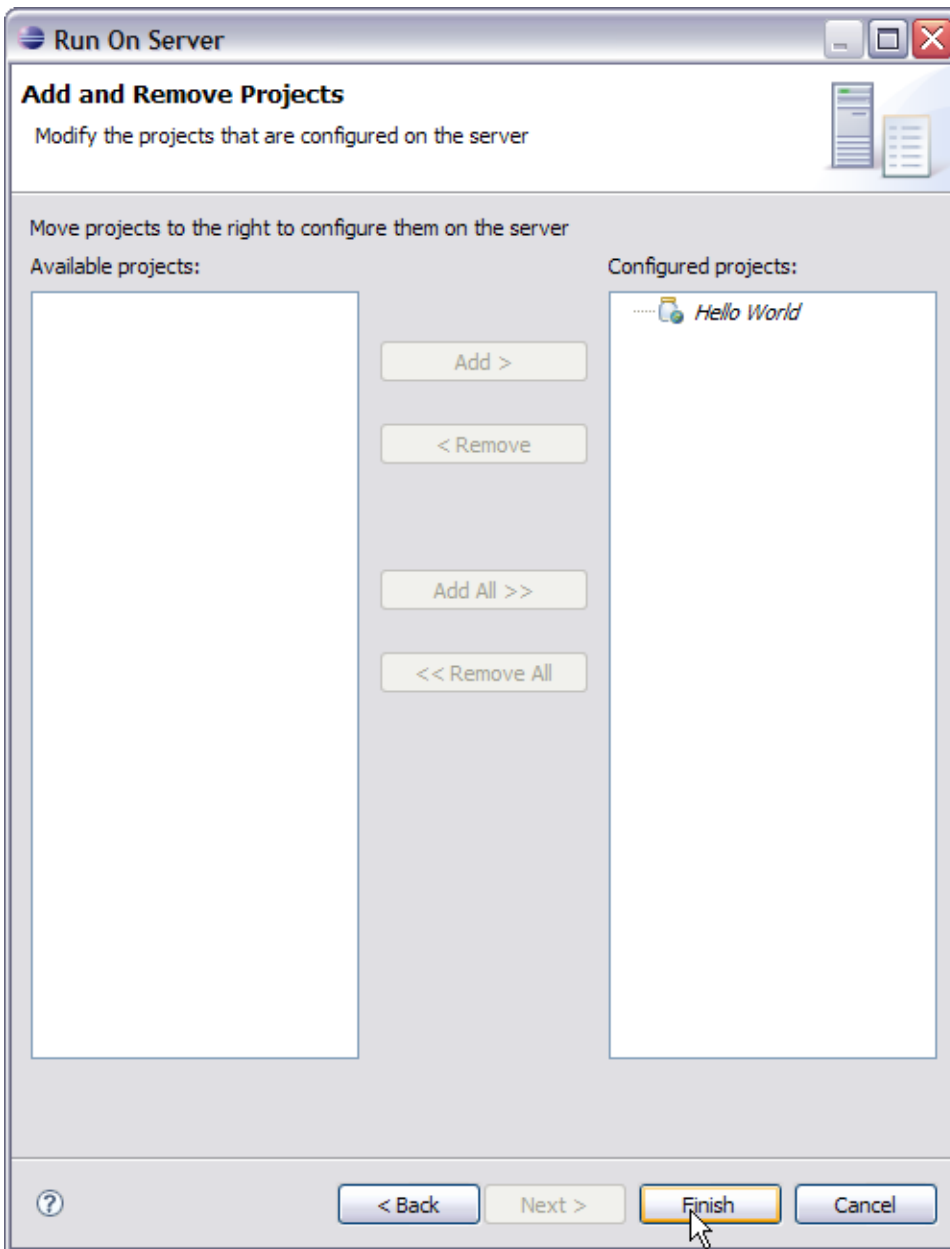
11. Now you are all set to run your first application on Geronimo. Right Click on your project and select **Run->Run on Server**.



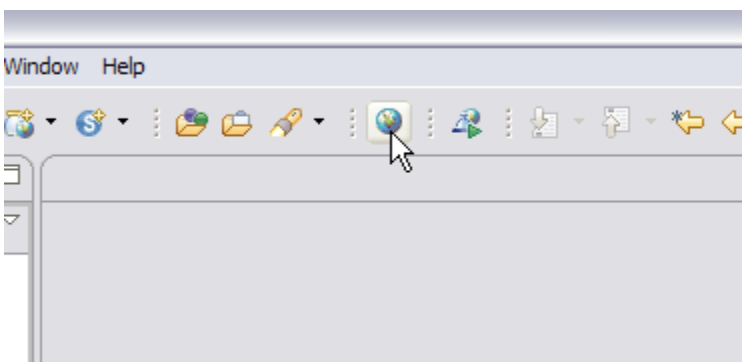
12. On the next screen select Apache Geronimo and Select **Next**.



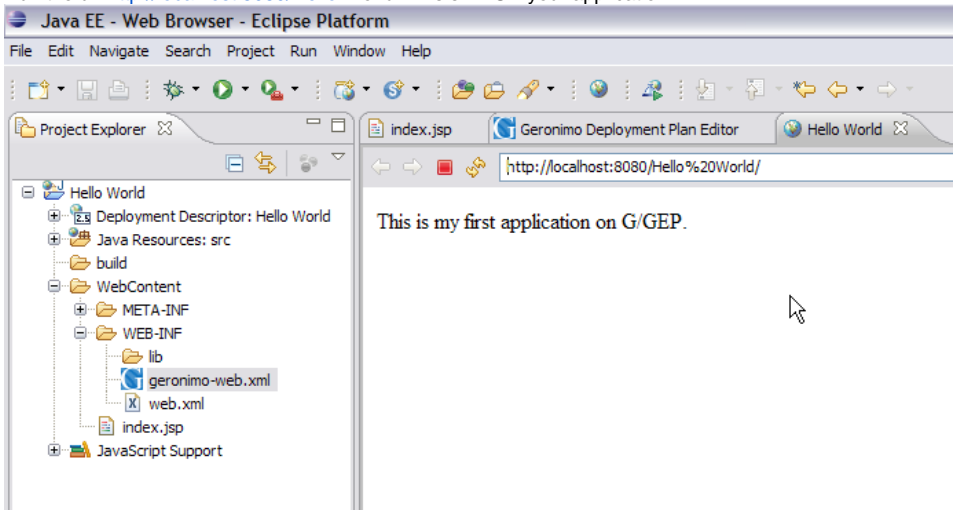
13. You can see Hello World as one of the configured projects. Select **Finish**. This will **DEPLOY** your application on Geronimo server.



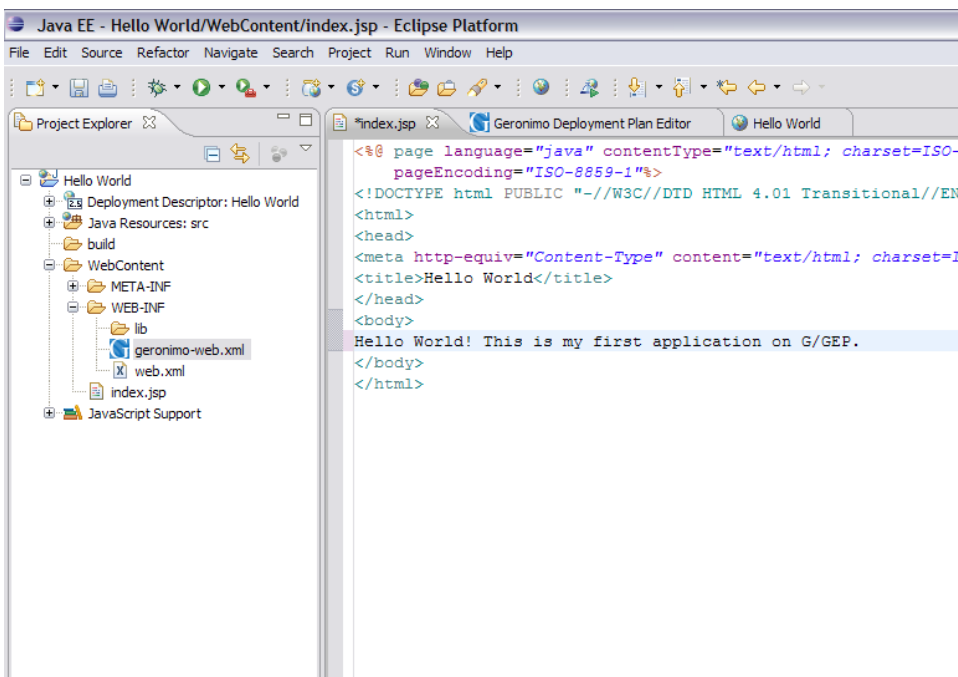
14. Launch a web browser as shown in the figure.



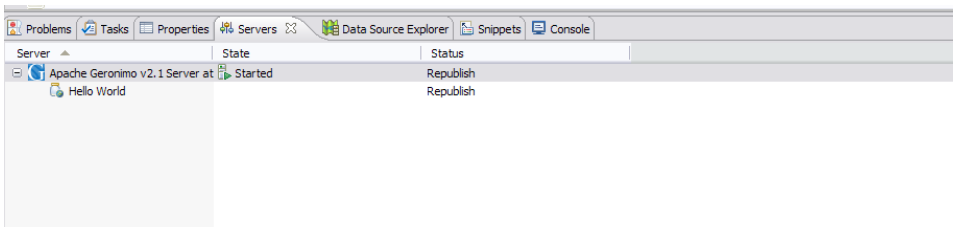
15. Run the url [http://localhost:8080/Hello World](http://localhost:8080>Hello World). This will **RUN** your application.



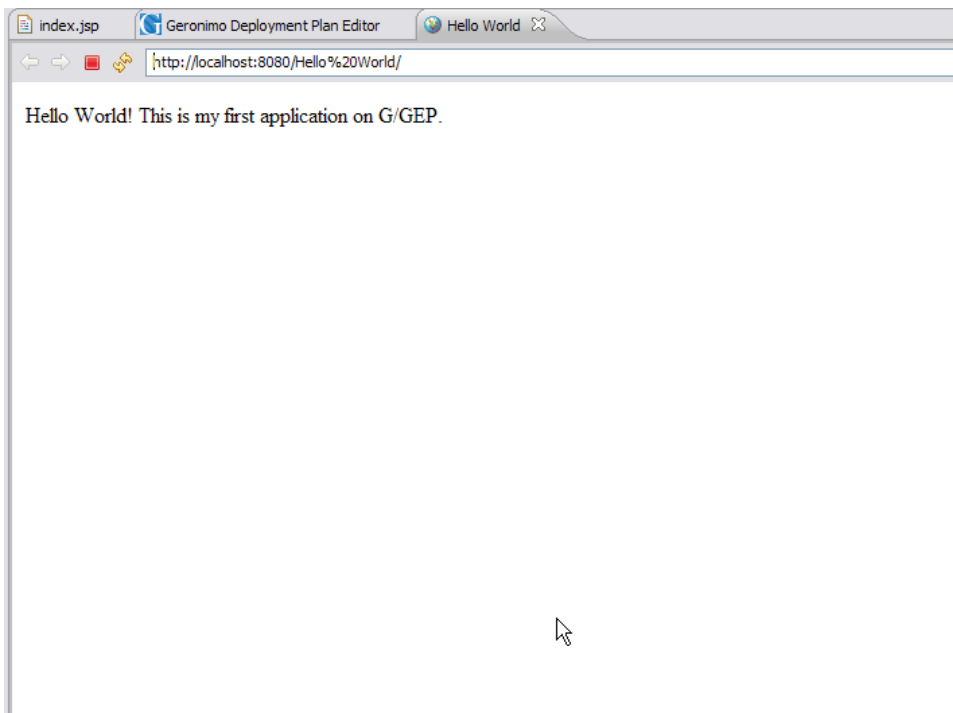
16. Next modify index.jsp and append **Hello World!** in the body.



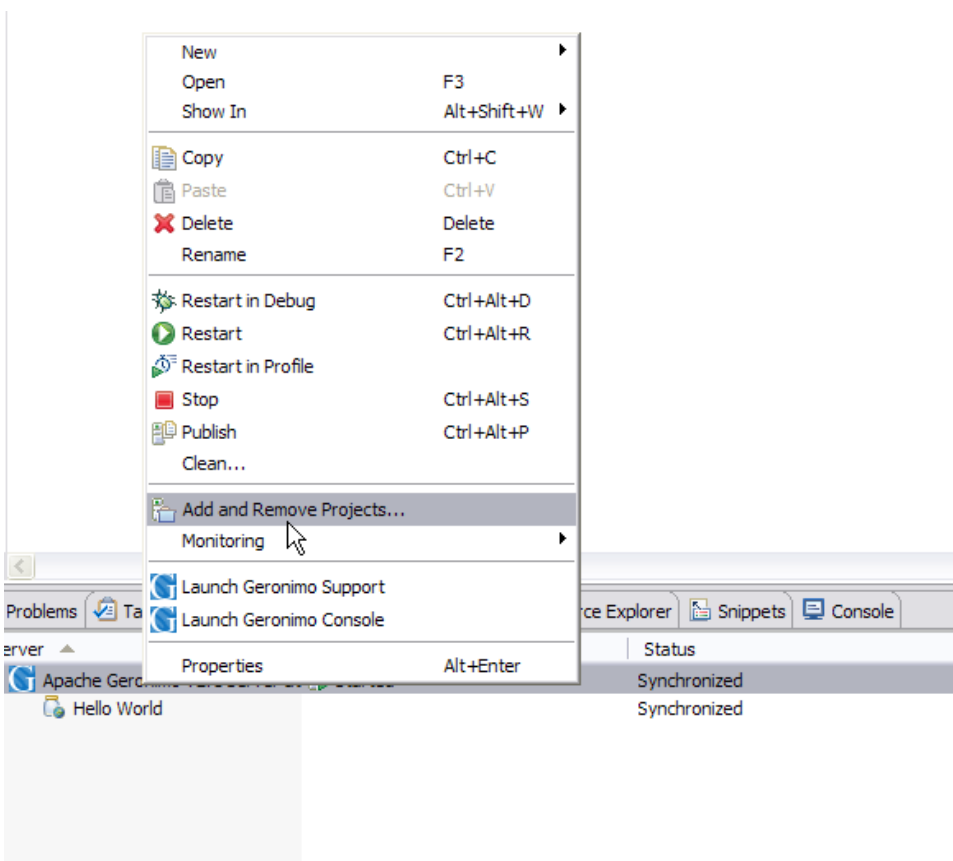
17. Once you save the changes you can see Geronimo server state changing to **Republish**. It may take a moment till your application is **REDEPLOYED**.



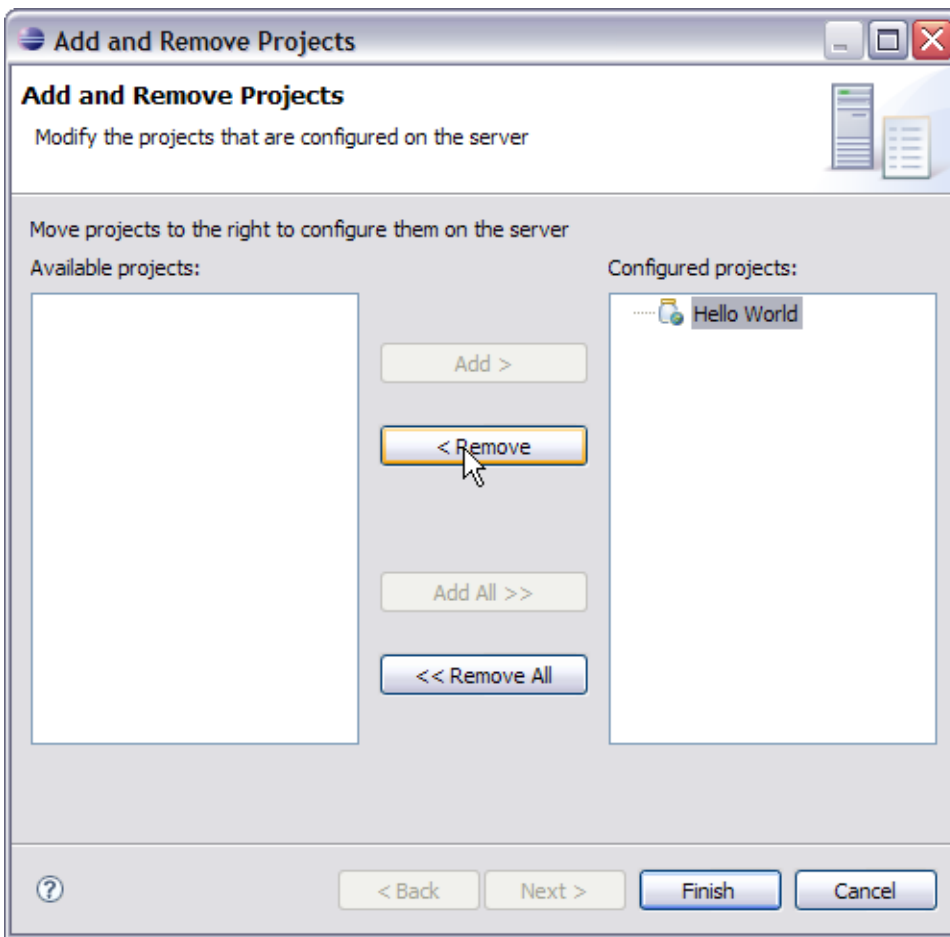
18. Refresh the browser to verify if the changes you made are reflected.



19. To **UNDEPLOY** the application from server. Right Click on geronimo server instance and select **Add and Remove Projects**.



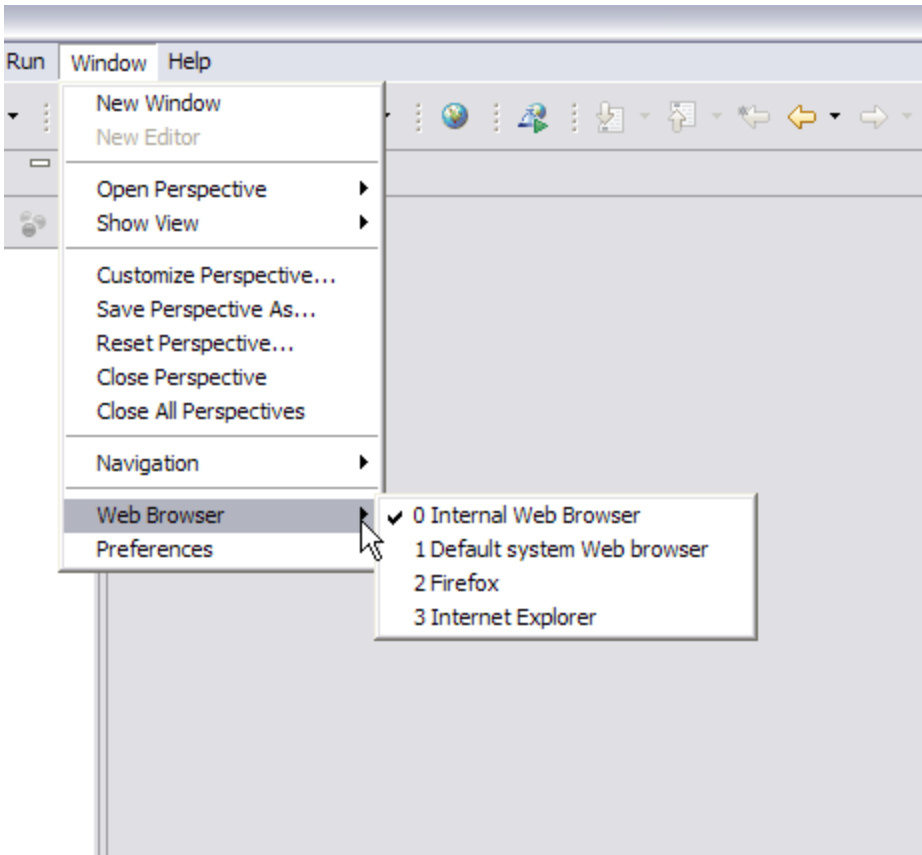
20. On the next screen select **Hello World** project and select **Finish**. This will **UNDEPLOY** the project from geronimo.



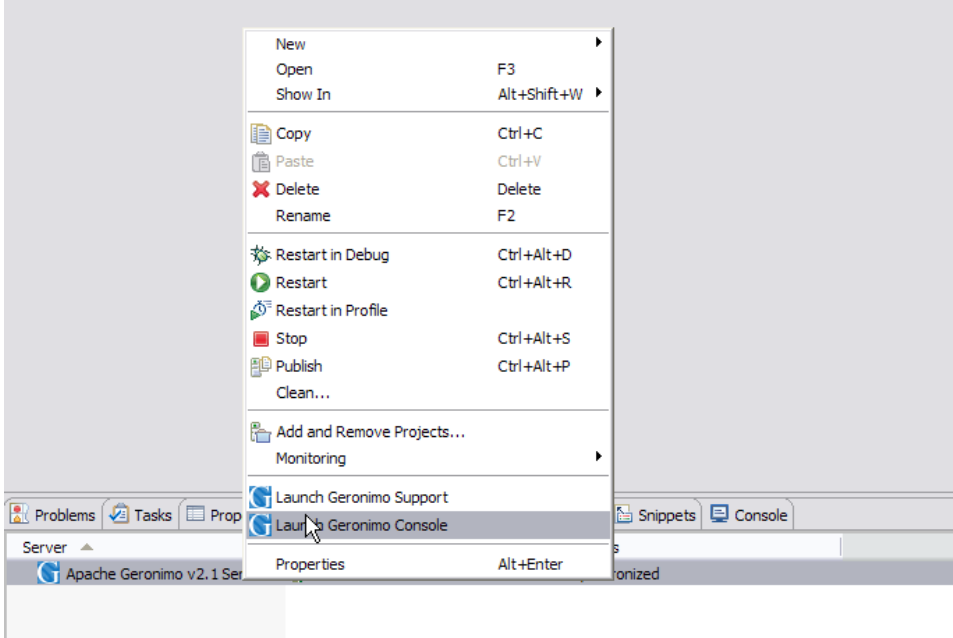
Launching Geronimo Console and Support

You can also launch Geronimo Console from Eclipse.

1. Select your preferences to launch the geronimo console as suggested in the figure. Accordingly geronimo administrative console will be launched in Eclipse Internal browser or an external browser.



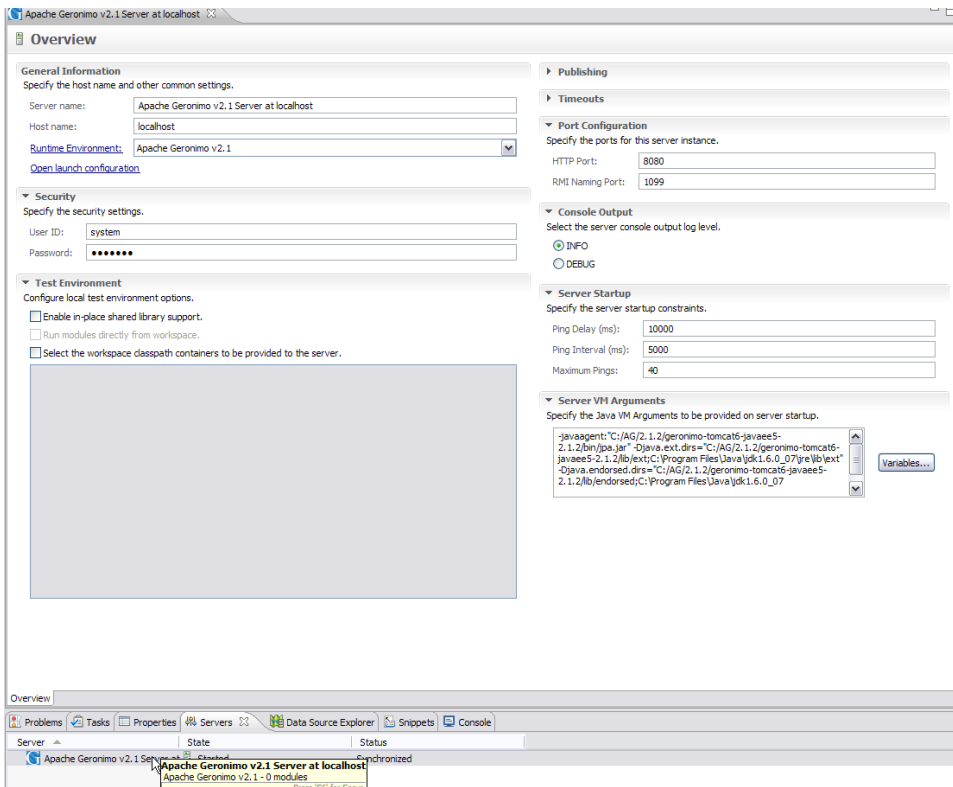
2. Right click on geronimo server instance and Select Launch Geronimo Console to launch geronimo administrative console.



3. Similarly select Geronimo Support. This will launch Apache Geronimo website.

Other function

1. Double click on geronimo server instance. This will launch the settings for your added geronimo server instance.



Where to go from here??? There are good number of tutorials through which you can play more with Eclipse and GEP. Check out the following

1. [tutorials](#). These tutorials illustrate step by step development of applications based on all the Java EE5 API's.