

## CHAPTER 10: APPLICATION DEPLOYMENT

### Theory

WebSphere Application Server supports three different types of applications to be deployed that are:

- *Enterprise Applications*, that can be an EAR (Enterprise Archive), a WAR (Web Application) file or a JAR (Java Archive) file. When an EJB module or Web module is installed, WebSphere Application Server will automatically pack it as an EAR file. It is similar case for WAR files, meaning, deployment process will convert WAR file in to EAR automatically.
- *Business Level Application*, is a WebSphere Application Server configuration artifact that provides a complete definition of an application from business view. It doesn't contain any application file but presents a configuration that contains units which represents application files.
- *Asset*, is an application binary file such as EAR files, EJB modules, web modules, shared libraries and etc. that are stored in a repository managed by WebSphere Application Server.

You can deploy the applications from local file system that means the file system of the system that deployment manager runs or from a remote file system which means your system that is connected to administrative console.



### Task: Start Default Application

**Step:** Make sure that default application is running. It can be started by checking checkbox and click submit action.

Connected (unencrypted) to wk-caas-17176e45d6ae415691f1a0c72e3cd15e-93d1528abf27f0066a88ef:1 ()

new: All tasks

Welcome

Guided Activities

Servers

- New server
- All servers
- Server Types
  - WebSphere application servers
  - Liberty profile servers
  - WebSphere proxy servers
  - On Demand Routers
  - PHP servers
  - WebSphere Application Server Community Edition servers
  - Generic servers
  - WebSphere MQ servers
  - Web servers
  - Apache Tomcat servers
  - BEA WebLogic servers
  - JBoss servers
  - External WebSphere Application Servers
  - Apache servers
  - Custom HTTP servers

Clusters

DataPower

Core Groups

Applications

- All applications
- New Application
- Install New Middleware Application

All Applications

This page lists all the applications supported and managed by WebSphere.

Preferences

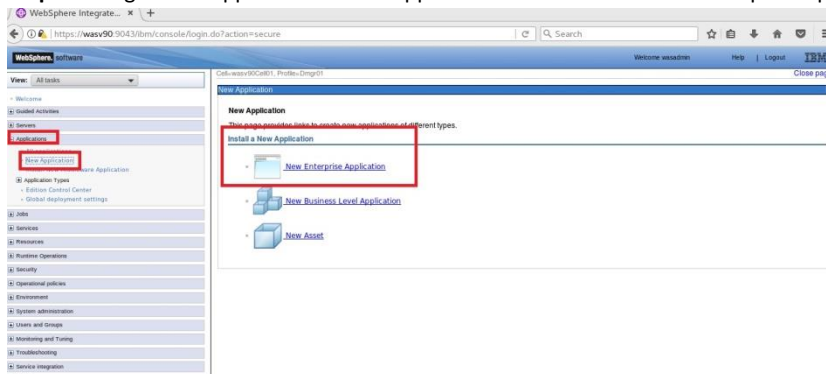
Add... Remove Submit Action

Select	Name	Edition	Edition State	Type	Status	Action
<input checked="" type="checkbox"/>	<a href="#">DefaultApplication</a>	Base edition	Active	Java 2 Platform, Enterprise Edition		<a href="#">Start</a>

Total 1

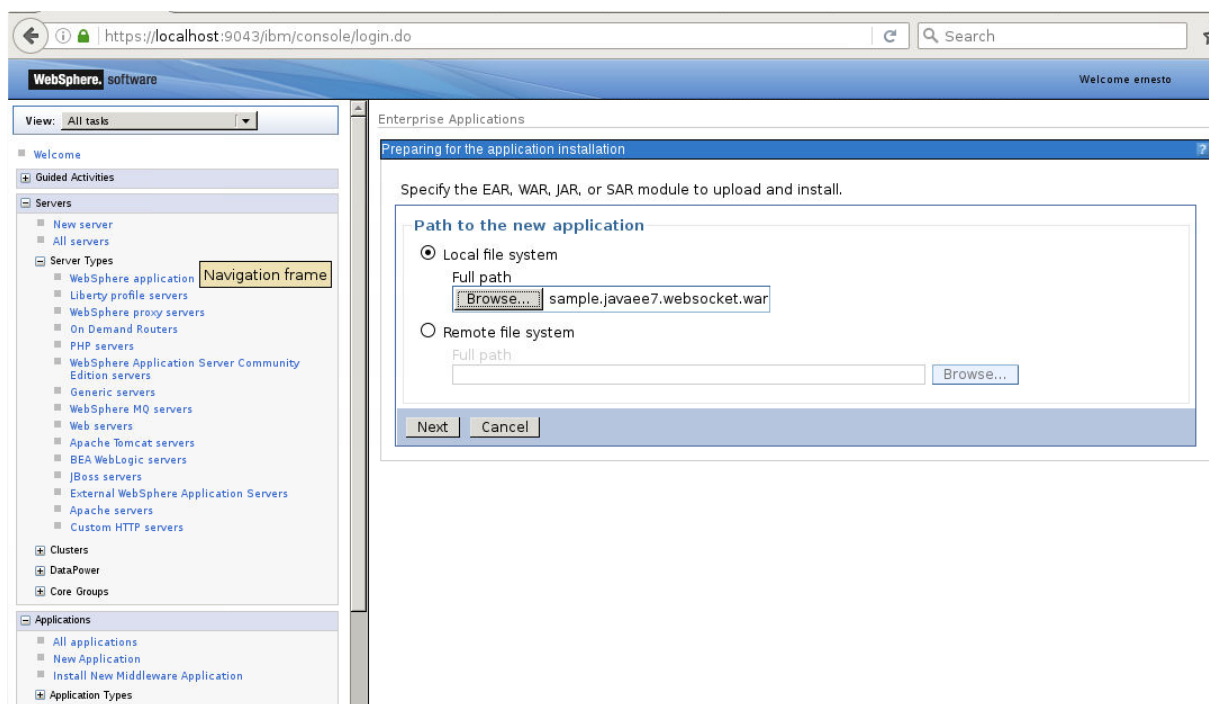
## Task: Deploy a sample application

**Step 1:** Navigate to “Applications>New Application” and click on “New Enterprise Application”.



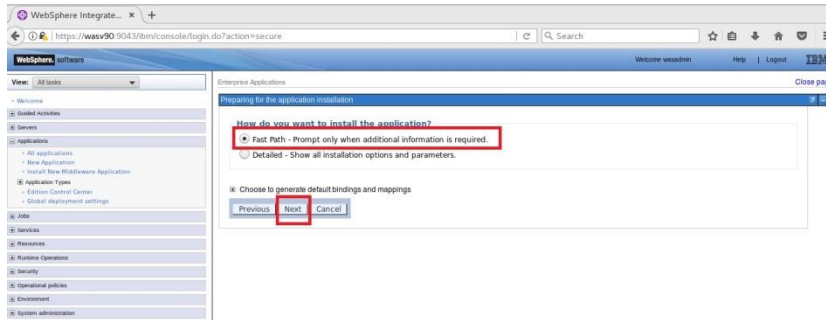
**Step 2:** Locate the war file on the local file system and click “Next”.

`/headless/Desktop/webSphere/sample.javaee7.websocket.war`

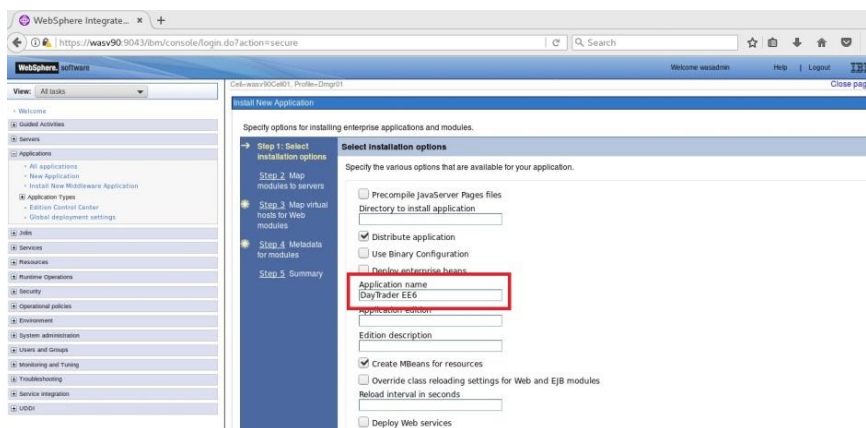




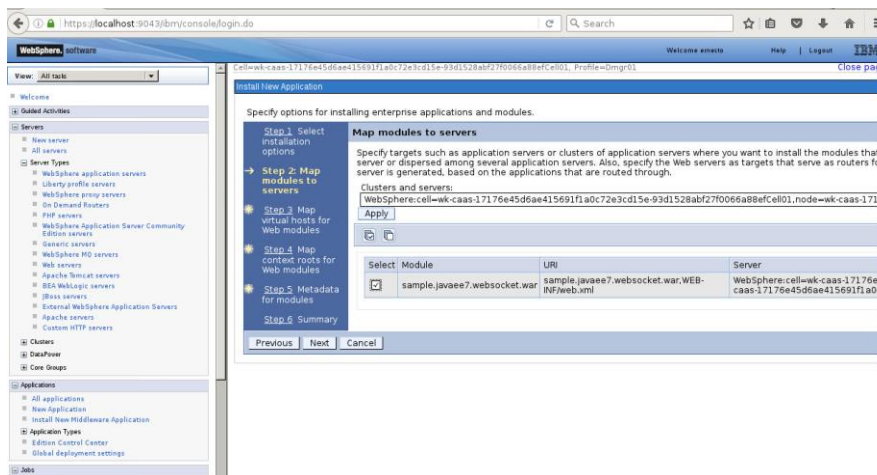
**Step 3:** Select “Fast Path” and click “Next”.



**Step 4:** Change application name to “SampleApplication” and click “Next”.



**Step 5:** Map module of the application and click “Apply”, then click “Next”.





**Step 6: Enter context root “/sample” and Click “Next”.**

This screenshot shows the 'Install New Application' wizard in the WebSphere Integrated Solutions Console. The left sidebar lists various server types, with 'WebSphere application servers' selected. The main panel is titled 'Map context roots for Web modules' and contains a table for configuring context roots.

Web module	URI	Context Root
sample.javaee7.websocket.war	sample.javaee7.websocket.war, WEB-INF/web.xml	/sample

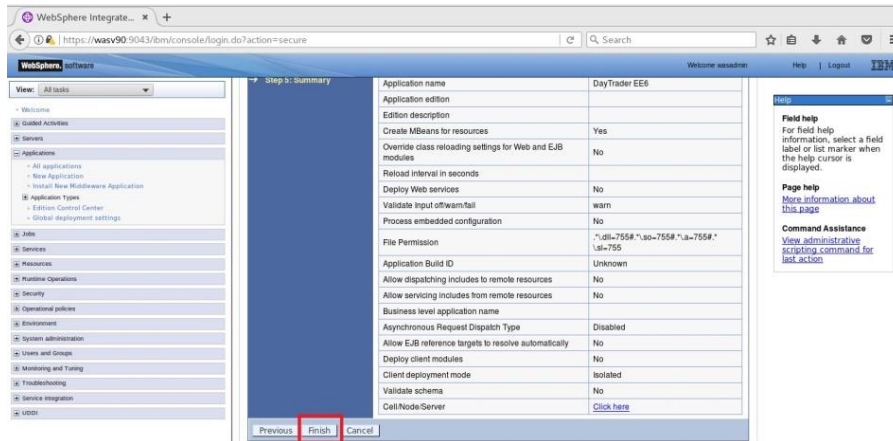
Below the table are 'Previous', 'Next', and 'Cancel' buttons. The 'Next' button is highlighted, indicating the next step in the wizard.

This screenshot shows the 'Install New Application' wizard in the WebSphere Integrated Solutions Console, specifically the 'Metadata for modules' step. The left sidebar is the same as the previous screenshot. The main panel contains a table for configuring metadata for modules.

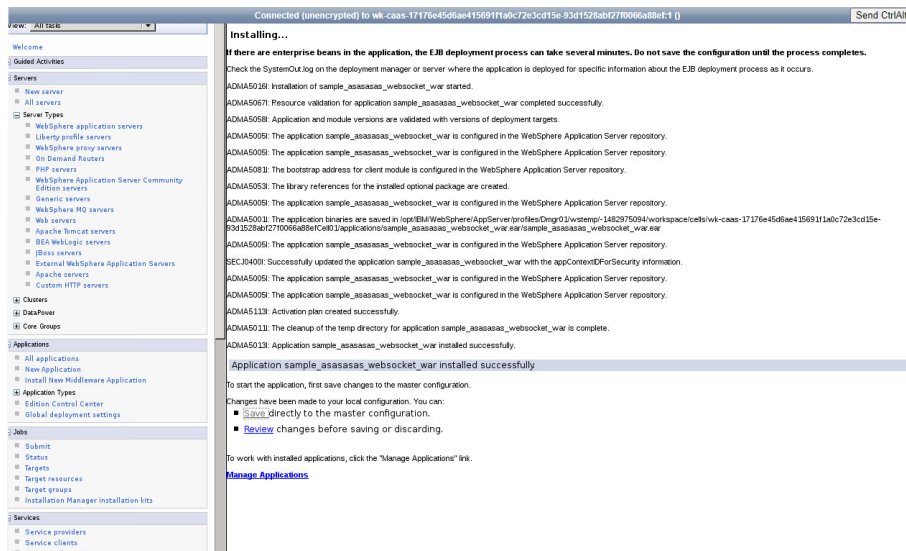
Module	URI	metadata-complete attribute
sample.javaee7.websocket.war	sample.javaee7.websocket.war, WEB-INF/web.xml	<input checked="" type="checkbox"/>

Below the table are 'Previous', 'Next', and 'Cancel' buttons. The 'Next' button is highlighted, indicating the next step in the wizard.

**Step 7:** Click “Finish” to start deployment.



**Step 8:** You should see the success message, then click “Save” to write changes to the master configuration.

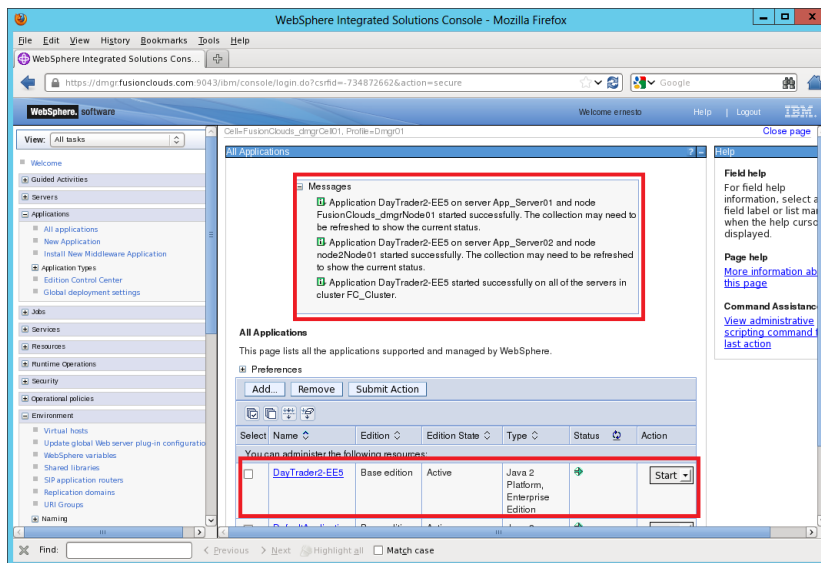




**Step 9:** Select the application and action as “Start” and click “Submit Action”.

**Note:** Wait for couple of minutes before starting application so that changes are synced.

You should see the success message as follows. Reload status to get updated status.



Task is complete!

## Task: Access Application

Open browser and enter “http://localhost:9080/snoop” to access application.

JSP can be accessed at “http://localhost:9080/HitCount.jsp”

