## Section 1   Installing NV4IP 1.5 on WAS 5

The procedures involved in installing NV4IP 1.5 on WAS 5, include the following:

- Deploy nvip.war file using WAS admin console
- Start NV4IP service
- Update Web Server Plugin Configuration
- Set JVM Variables
- Customization of httpd.conf
- Save Changes and Recycle WAS and Web Server

**Procedure 1**   Deploy nvip.war file using WAS admin console

Step   1.1   Access the WAS admin console from your web browser via: *http://your.server.name:9080/admin/*

The WebShere Admistrative Console screen appears.
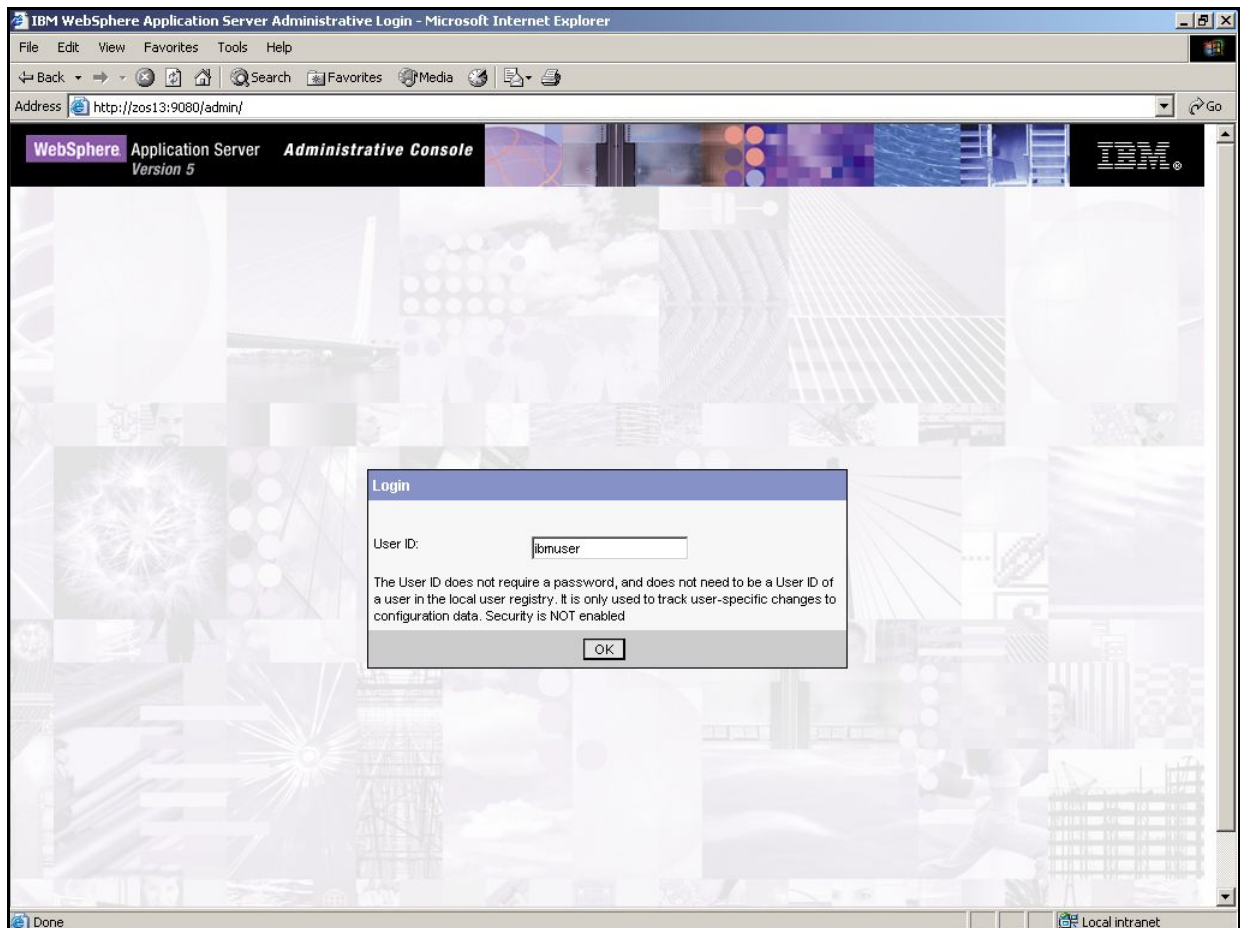
Figure 1. WebSphere Admistrative Console Login screen

Step   1.2   Login with your user ID.

Step   1.3   From the navigation tree, click the Applications->Install New Applications tab, located under the WAS 5 admin console.

Step   1.4   Enter the file pathname of the nvip.war file into the "Local Path" field, and enter "nvip" into the "Context Root" field.
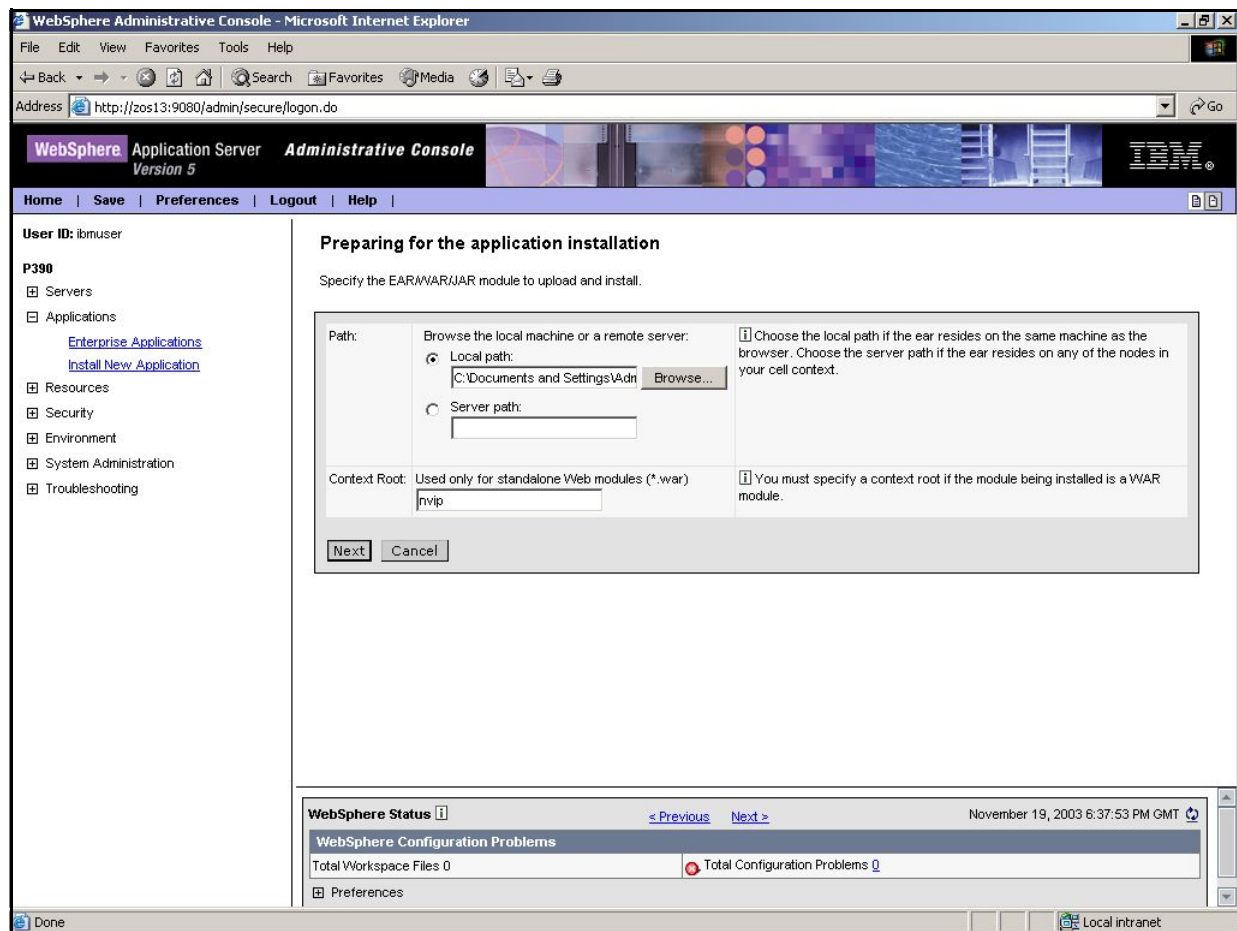
Figure 2. Preparing for the Application Installation screen Pg 1 of 2

Step   1.5   Click Next. The second *Preparing for the Application Installation* screen appears.
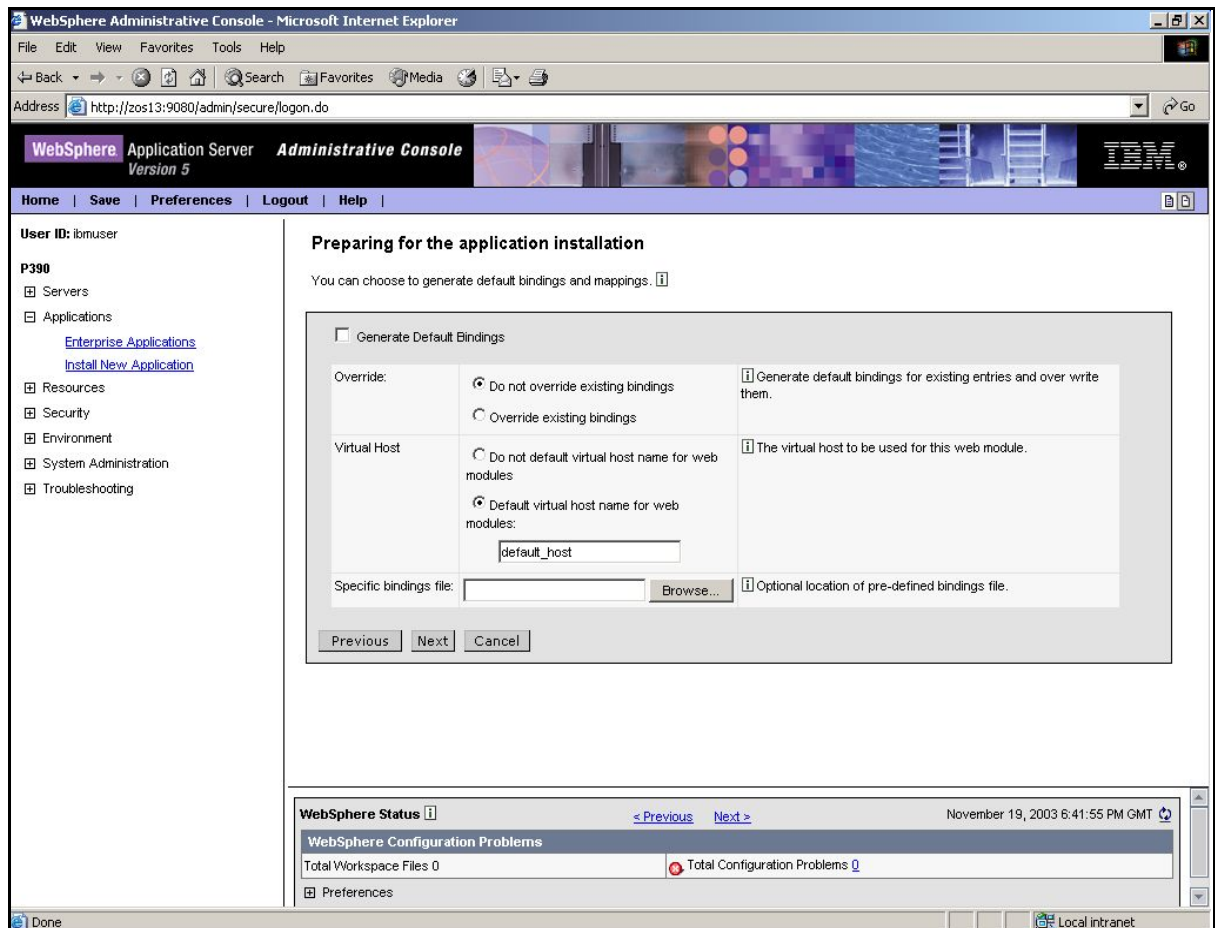
**Figure 3. Preparing for the Application Installation screen Pg 2 of 2**

Step 1.6 Follow the on-screen instructions and take the default values for all the parameters.

Step 1.7 Continually click "Next" or "Continue" to accept all default parameters.

Step 1.8 Click "Finish" to complete the installation process.

Step 1.9 Click "Save to Master Configuration" and then "Save" to save changes.

Procedure 2   Start NV4IP service

Once the war file has been deployed, the NV4IP service must be started.

Step   2.1   Click the Applications->Enterprise Applications tab, using the admin console, from the navigation tree.

The Enterprise Applications screen appears.
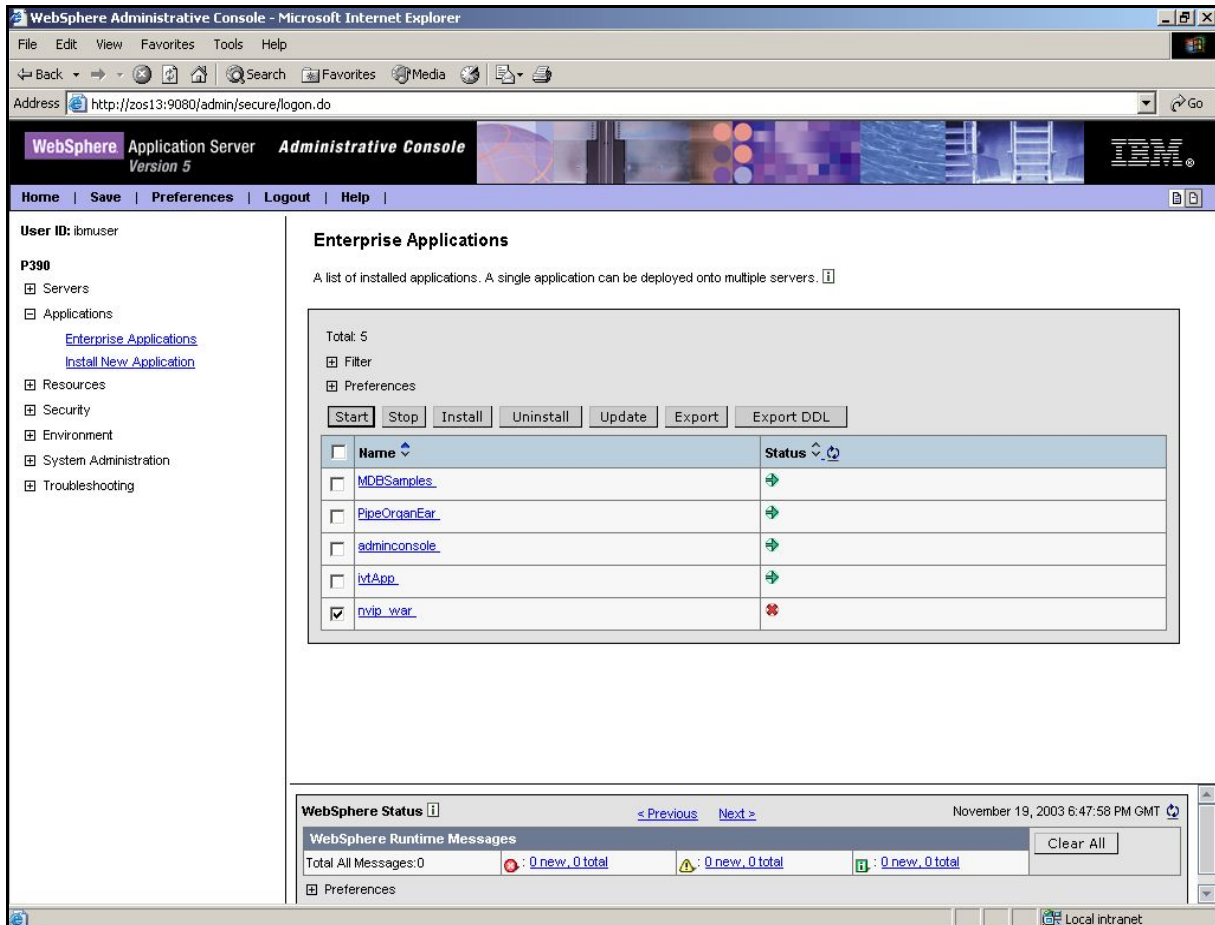
Figure 4. WebSphere Enterprise Applications screen

Step   2.2   Check the row, marked nvip_war and click "Start" to start NV4IP. The status column should now indicate that the NV4IP service has been started and is now active.

Procedure 3   Update Web Server Plugin Configuration

Step   3.1   Using the WAS admin console, from the navigation tree click Environment->Virtual Hosts->*default_host*->Host Aliases.

Step   3.2   Verify the following Host Aliases exist:

Table 1:   **Host Aliases**

Host Name	Port
*	9080
*	9443
*	80

Step   3.3   If there are missing entries, click "New" to create a new Host Alias with the appropriate Hostname and Port settings.

Step   3.4   Click Save if any changes were made.

Step   3.5   From the navigation tree, click Servers->Application Servers->*server_name*->Web Container->HTTP Transports->.

Step   3.6   Verify the following HTTP Transports exist:

Table 2:   **HTTP Transports**

Host Name	Port	SSL
localhost	9080	disabled
localhost	9443	enabled

Step   3.7   If there are missing entries, click "New" to create a new Http Transport with the appropriate Host, Port, and SSL settings.

Step   3.8   Click Save if any changes were made.

Step   3.9   From the navigation tree, click Environment->Update Web Server Plugin.

Step   3.10   Click "OK" to update the Web Server Plugin Configuration file (plugin-cfg.xml) if any changes were made.

Procedure 4   Set JVM Variables

Step   4.1   Using the WAS admin console, from the navigation tree, click Servers->Application Servers->*server_name*->Process Definition->Servant->Java Virtual Machine.

Step   4.2   Enter the following into the Generic JVM Arguments field:

```
-Xbootclasspath/a:$WEBSPHERE_HOME/AppServer/
installedApps/$CPU_NAME/nvip_war.ear/
nvip.war/WEB-INF/lib/pja.jar
```

```
-Djava.awt.fonts=$JAVA_HOME/lib/fonts
```

```
-Duser.home=$JAVA_HOME
```

Step   4.3   Click OK to apply the setting.

Step   4.4   Click Save to save the configuration changes.

$WAS_INSTALL_HOME referes to the directory in which IBM WebSphere Application Server is installed. For example: /opt/WebSphere.

$CPU _NAME refers to the user-defined machine name.

Procedure 5   Customization of httpd.conf

It is assumed that IBM HTTP Web Server has been configured and is running prior to installation of NV4IP.

Step   5.1   Add/update the following directives to the httpd.conf configuration file to provide HTTP server with the entry point for Application Server's plugin initialization, request processing and termination.

Step   5.2   Verify that the WebSphere Application Server configuration file (was.conf), specified on the ServerInit statement, contains the directives needed for NV4IP. This is described in the previous section

Step   5.3   Make a copy of the following, existing httpd.conf file before making the updates:

```
ServerInit /usr/lpp/internet/bin/
ihs390WAS50Plugin_http.so:init_exit
/WebSphere/V5R0M0/AppServer/config/cells/
plugin-cfg.xml
```

```
ServerTerm /usr/lpp/internet/bin/
ihs390WAS50Plugin_http.so:term_exit
```

While the above two statements may appear to spread across multiple lines, they should remain as single lines in the configuration file. Check if statement ihs390WAS50Plugin_http.so:init_exit has already been coded. If so, all you need to do is update it.

Step   5.4   Add a Service statement, such as the one below, to pass all NV4IP URL requests to WebSphere Application Server:

```
Service /nvip* /usr/lpp/internet/bin/
ihs390WAS50Plugin_http.so: service_exit
```
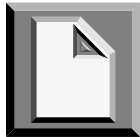
For a description of these configuration directives, refer to HTTP Server Planning, Installing, and Using.

Procedure 6   Save Changes and Recycle WAS and Web Server

Step   6.1   Save all configuration changes made to WAS.

Step   6.2   Recycle both the WAS and HTTP Web Server.

Afterwards, you may access NV4IP from your web browser via: *http://your.server.name/nvip/jsp/logon.jsp.*

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