

# Deploying with ApplinX

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## Deploying an ApplinX Application

When placing the ApplinX application on the target server for the first time, it is necessary to export both the application configuration and the entities. Once the ApplinX application has been created on the target server, it is only necessary to export the entities.

### Note:

When there are changes in the configuration, you may need to delete the ApplinX application and import it again or manually make the configuration changes on the target server.

### ➤ To deploy the ApplinX application

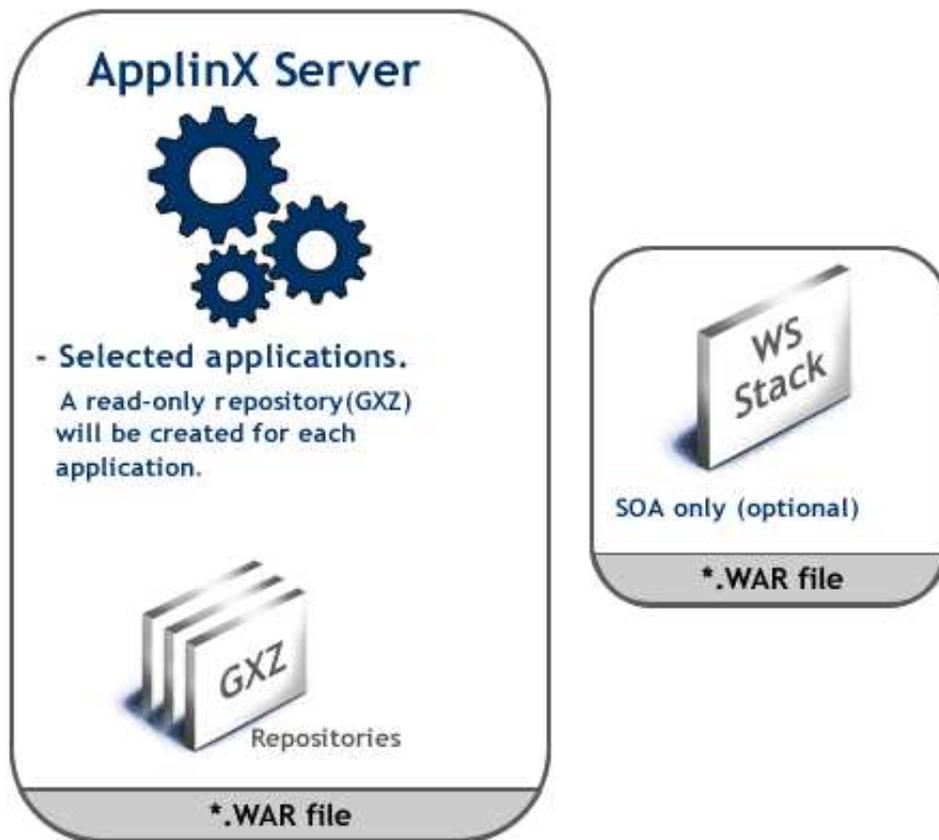
1. Export the ApplinX application's configuration and entities (refer to Exporting an Application Configuration or Entities). A GXAR file is created in the defined target folder.
2. Import the exported file to the target ApplinX server (refer to Importing an Application Configuration or Entities).

### Note:

In the production environment it is possible to use the export file as a read only repository.

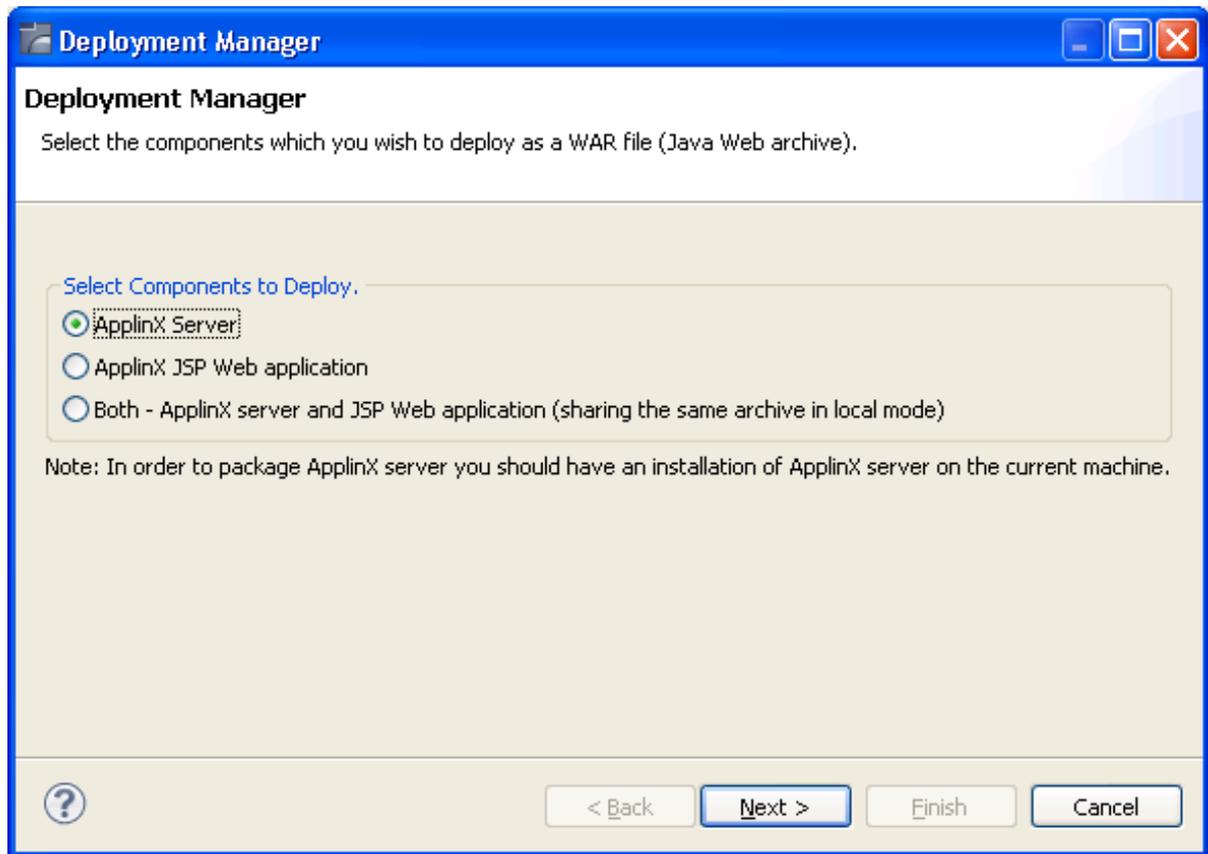
3. Confirm that the option to trace files is disabled (refer to Application Properties>Host Tab Parameters>Record section). It is recommended not to produce trace files when in production, as this can affect performance.
4. Edit and configure the log settings (refer to Server Properties>Log). It is recommended to set the **Log Level** field to **Warning**.
5. When relevant, follow the steps detailed in Deploying an ApplinX Web Application.

## Deploying ApplinX Server as a WAR File (Java Web Archive)

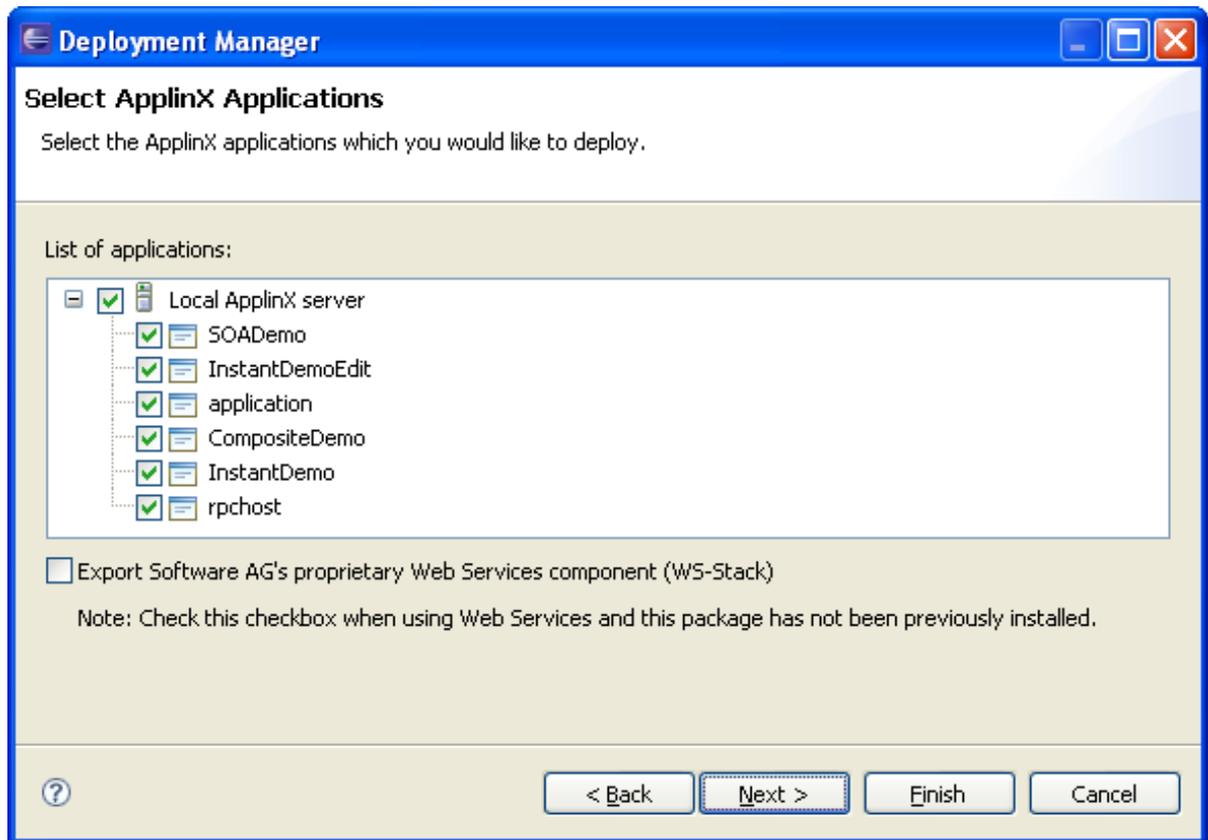


➤ **To deploy the ApplinX Server as a WAR File (Java Web Archive)**

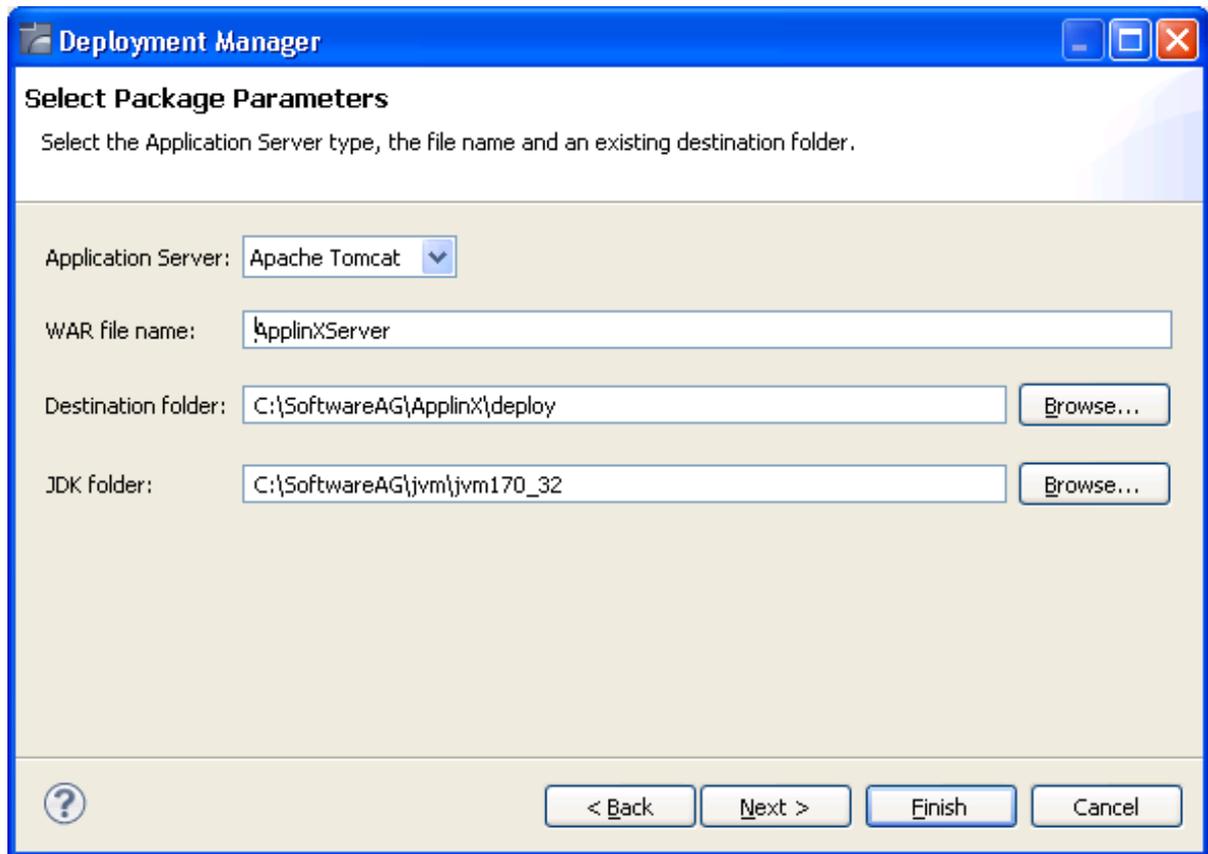
1. Right-click on the relevant application and select **Deployment Manager for J2EE...**. The *Deployment Manager wizard* is displayed.



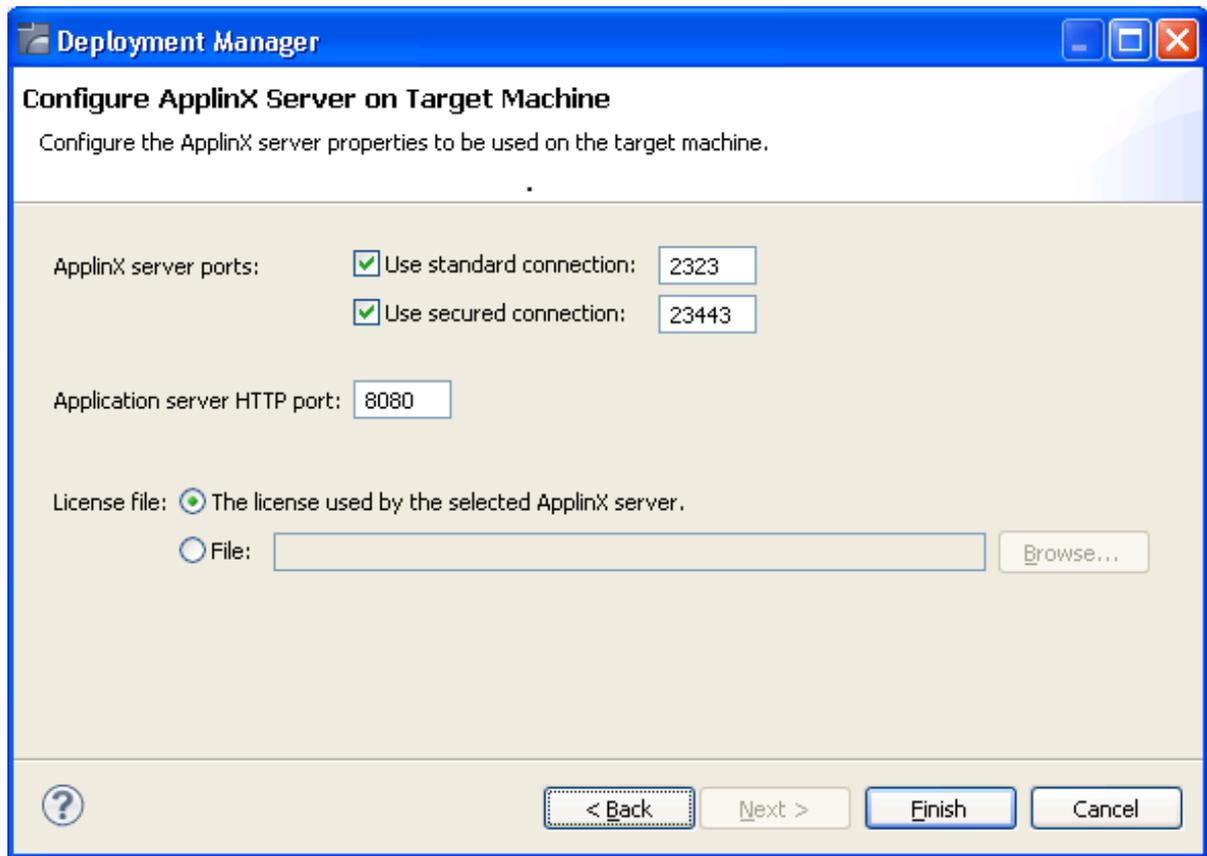
2. Ensure that the **ApplinX server** option is selected.
3. Click **Next**. The *Select ApplinX Applications* screen is displayed.



4. Select the Web applications to deploy.
5. Select the Export Software AG's proprietary Web Services component (WS-Stack) when using Web services, and WS-Stack has not already been installed.
6. Click **Next**. The *Select Package Parameters* screen is displayed.



7. From the list of Application Servers select the server to which you are going to deploy ApplinX server.
8. Enter the WAR file name, the destination folder where the output file will be placed and the JDK folder (ensure that the JAVA\_HOME parameter points to the JDK installation folder).
9. Click **Next**. The *Configure ApplinX Server on Target Machine* screen is displayed.



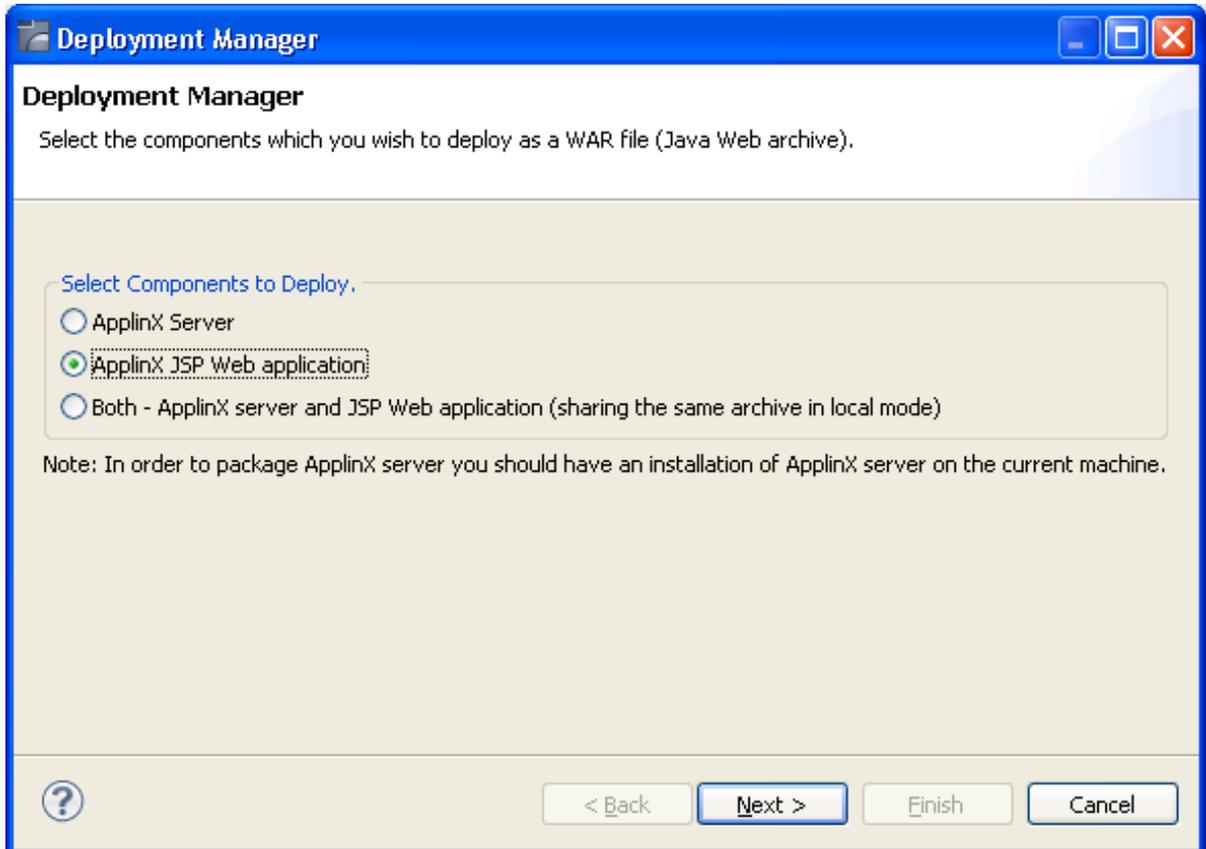
- In this screen, configure the ApplinX server parameters to be used on the target machine: the ports, and the license file.

## Deploying an ApplinX Web Application (JSP) as a WAR File (Java Web Archive)

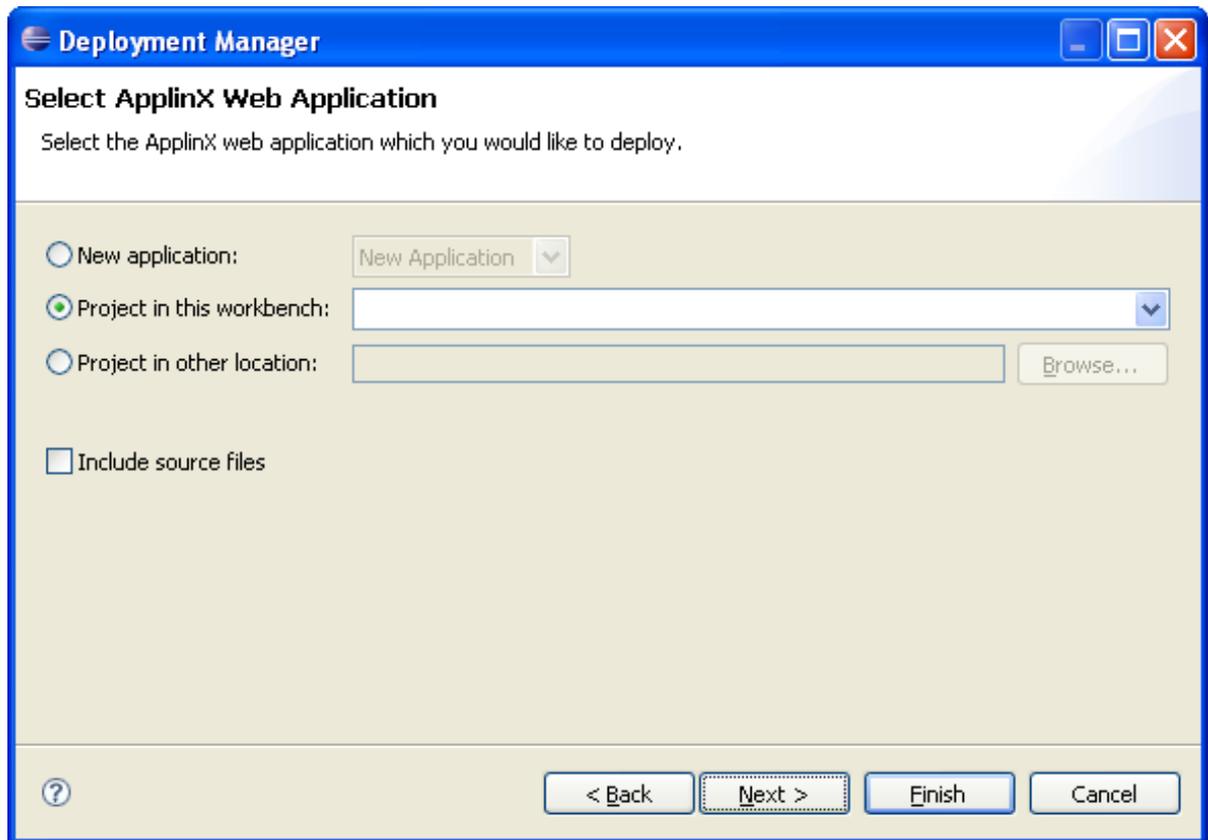


➤ **To deploy the Web application:**

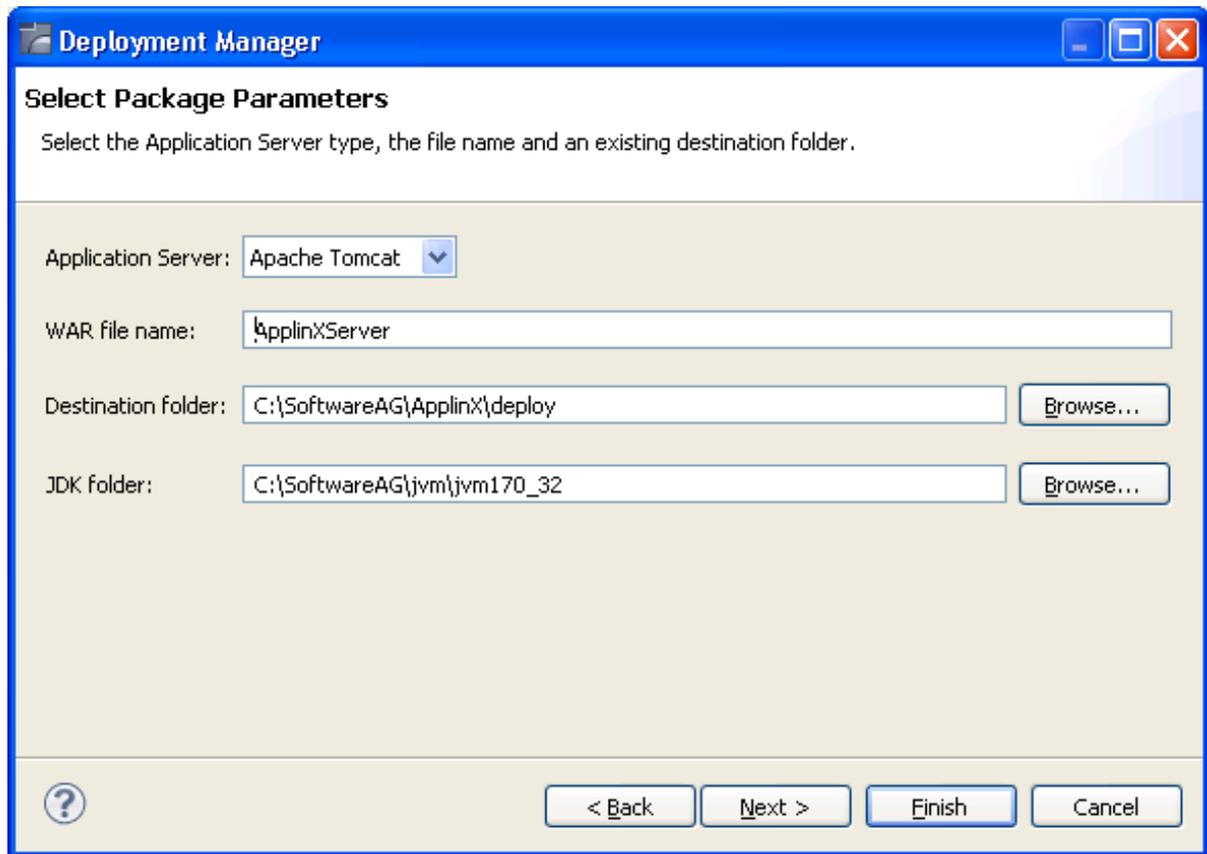
1. Right-click on the relevant application and select **Deployment Manager for J2EE...**. The *Deployment Manager wizard* is displayed.



2. Ensure that the **ApplinX for JSP Web application** option is selected.
3. Click Next. The Select ApplinX Application screen is displayed.



4. Select whether to deploy a new application or HTML emulation, or a project from within the workbench, or a project from a different location.
5. Select **Include source files** to include the Java files as well as the compiled classes. Click **Next**. The *Select Package Parameters* screen is displayed.



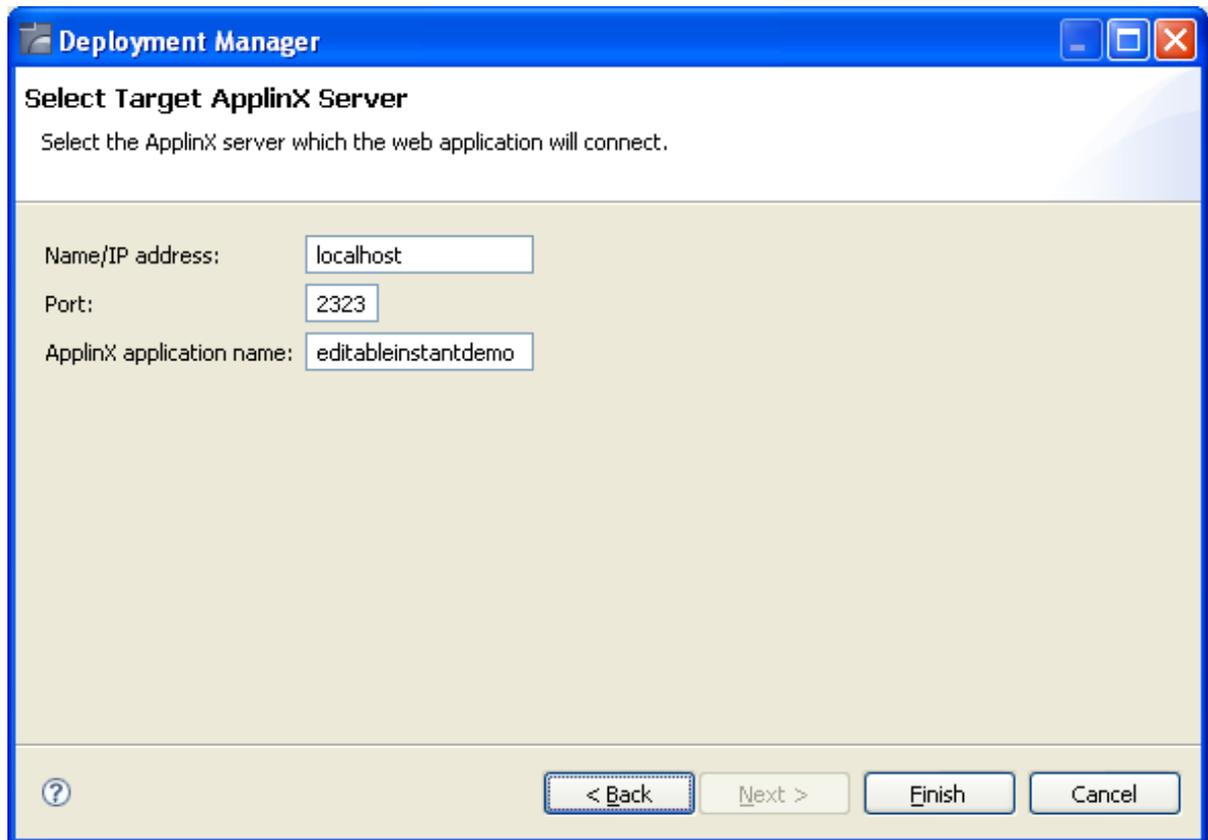
- From the list of Application Servers select the server to which you are going to deploy ApplinX server.

Enter the WAR file name, the destination folder where the output file will be placed and the JDK folder (ensure that the JAVA\_HOME parameter points to the JDK installation folder).

**Note:**

When selecting WebLogic, you need to manually extract the content of the generated ZIP archive file.

- Click **Next**. The *Select Target ApplinX Server* screen is displayed.



8. In this screen, enter the ApplinX server and the port with which the Web application will connect. Also enter the ApplinX application name.
9. Click **Finish**.
10. In the console area, it is possible to see whether the process succeeded or failed. The WAR file created should be placed in your Web server directory.

➤ **Consider changing the following for production use:**

1. Change the framework logging according to your needs either by accessing the "Framework Configuration Editor" or in config/gx\_logConfig.xml file. For example:

```
<category additivity="false" name="com.sabratec">
    <level value=" ERROR"/> <!-- Sets the log to Errors only -->
    <appender-ref ref="FRAMEWORK_LOG"/>
</category>
```

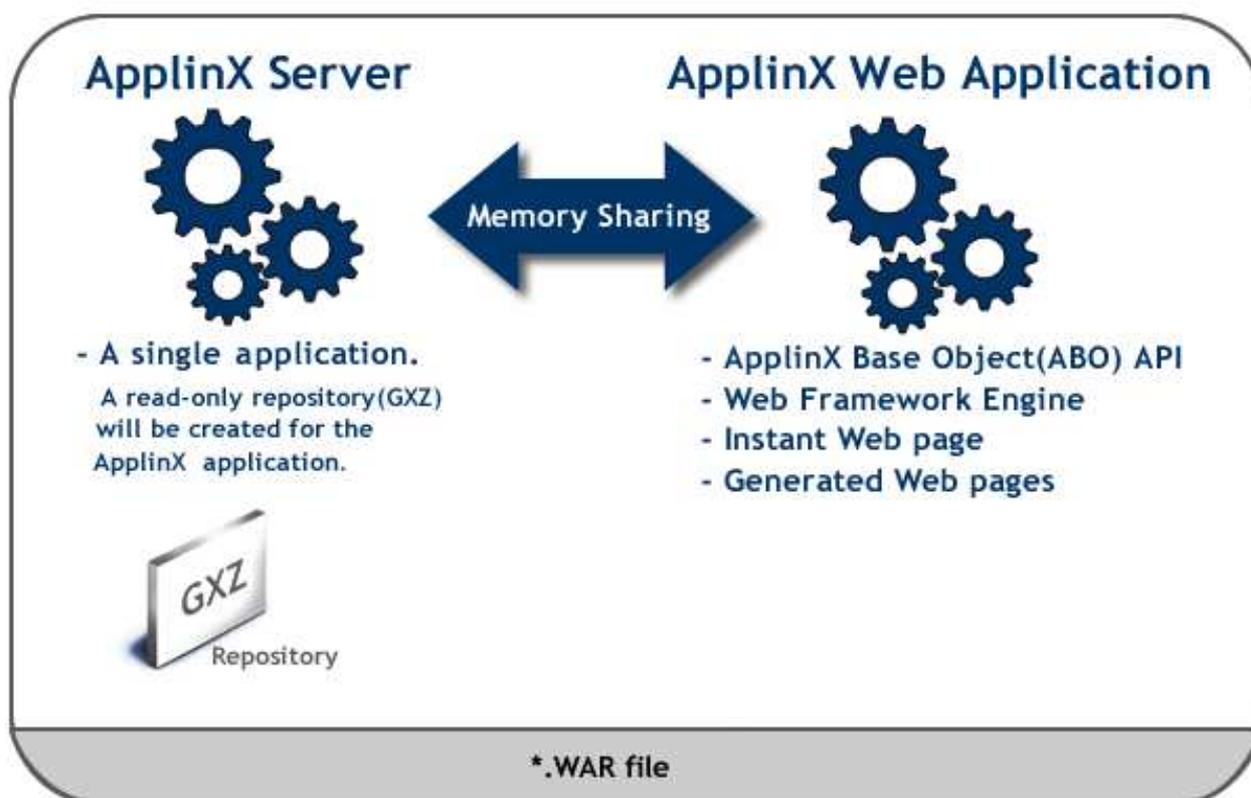
Possible values are:

- INFO - Normal
- WARN - Warnings
- ERROR - Errors only

- DEBUG - Debug
2. Disable the Performance monitor either by accessing the "Framework Configuration Editor" or in config/gx\_appConfig.xml file set the WritePerformanceLog to false (this is the default configuration).
  3. Disable the Javascript log using the config/gx\_clientConfig.xml by setting LogLevel to 0 and ShowLogConsole to false (this is the default configuration).
  4. Remove "Framework Configuration Editor" link from index page: delete the folder z\_admin and remove the link to "configuration editor" from the index page.

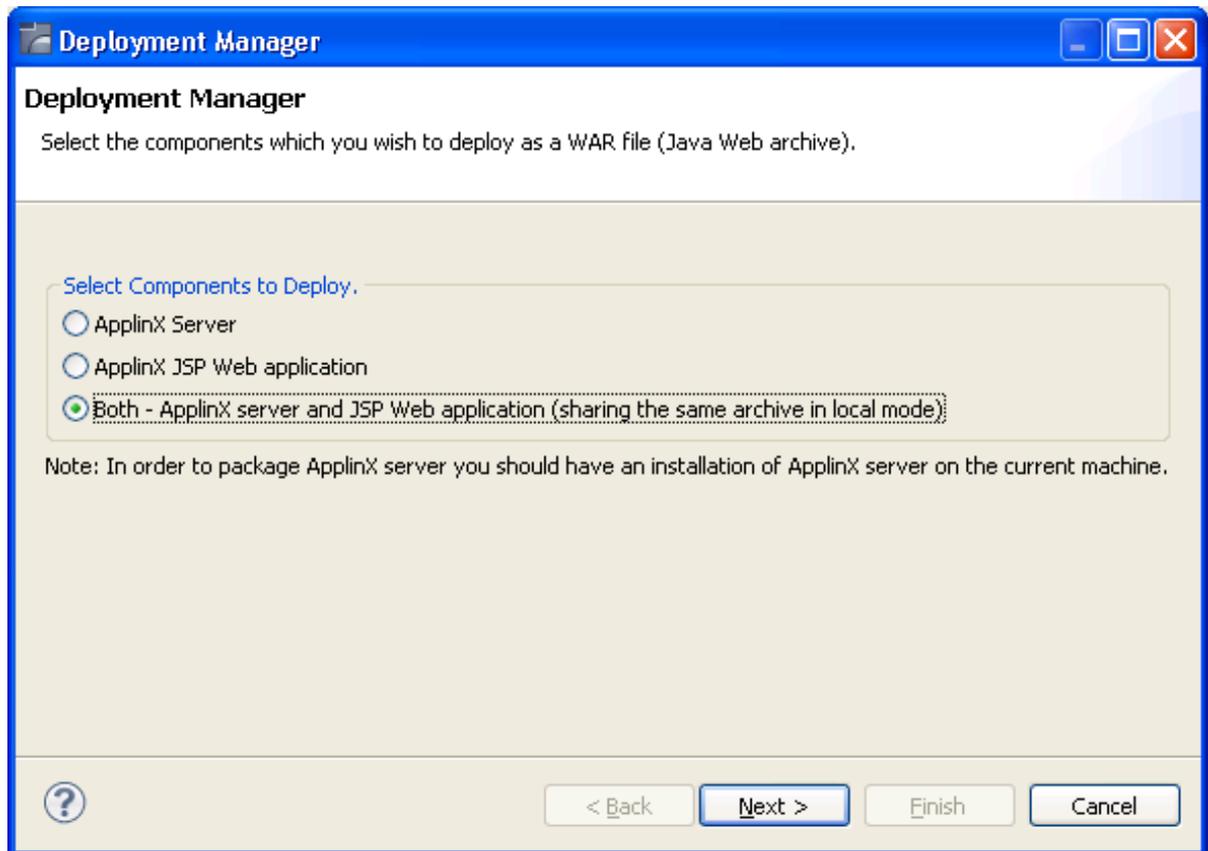
## Deploying an ApplinX Web Application (JSP) together with ApplinX Server as a WAR File (Java Web Archive)

This deployment type is typically used when the server and application are to be deployed to the same machine under a Java Application Server. This kind of configuration as the ApplinX server and the Web application share the same memory. Refer to supported application servers within Recommended Software.

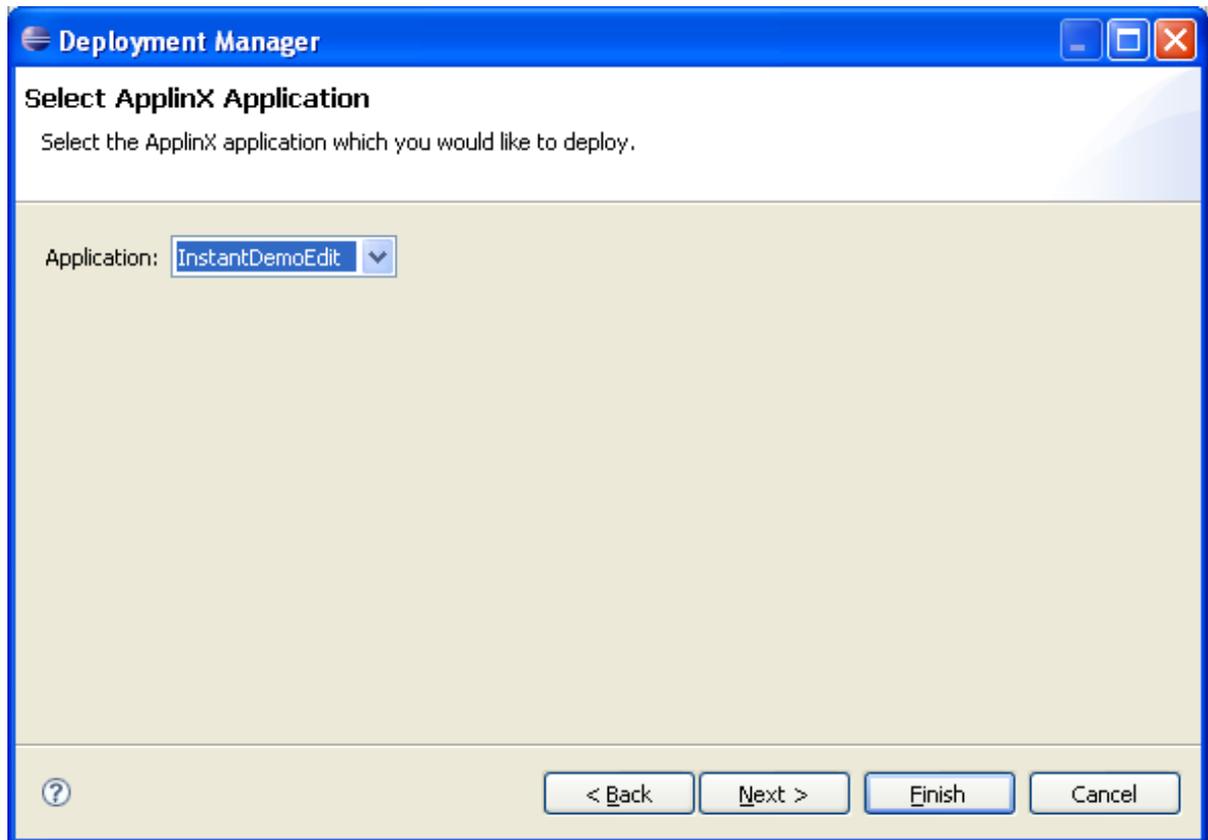


### ➤ To deploy both the ApplinX server and JSP Web application

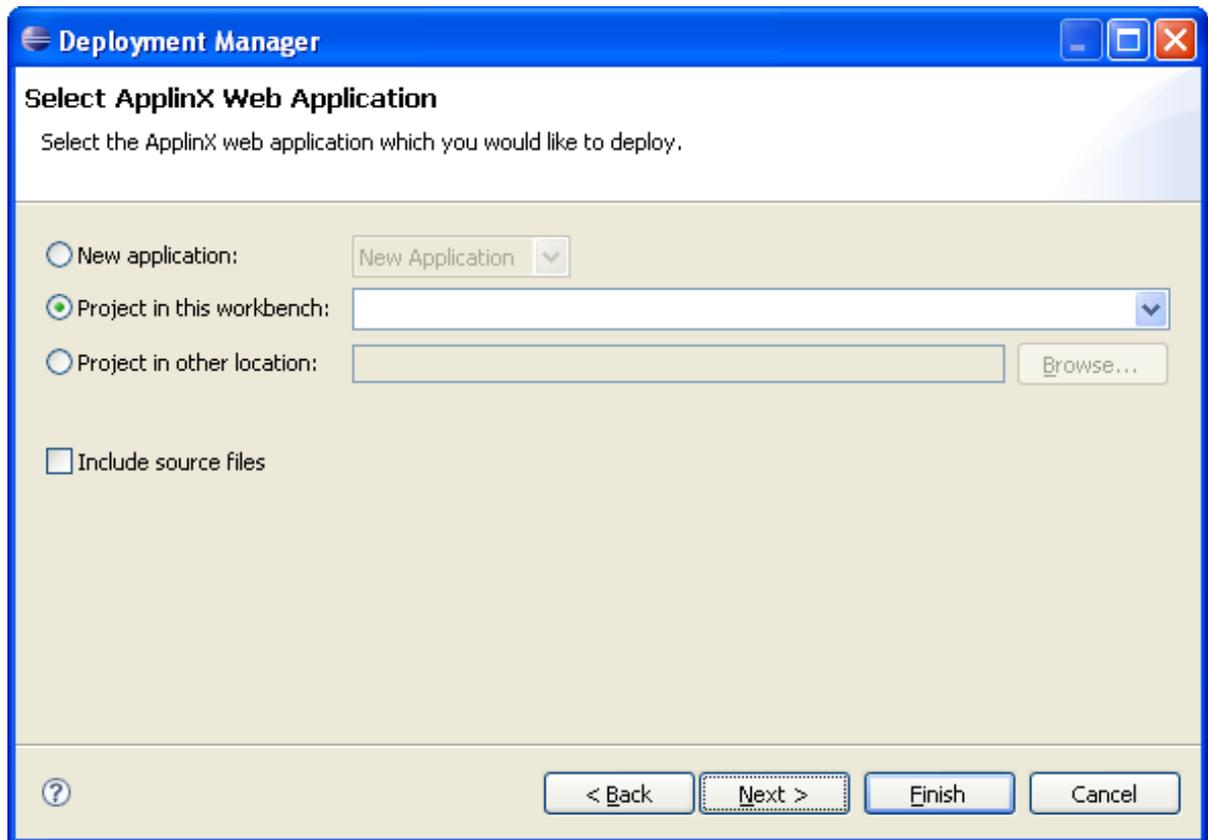
1. Right-click on the relevant application and select **Deployment Manager for J2EE....** The *Deployment Manager wizard* is displayed.



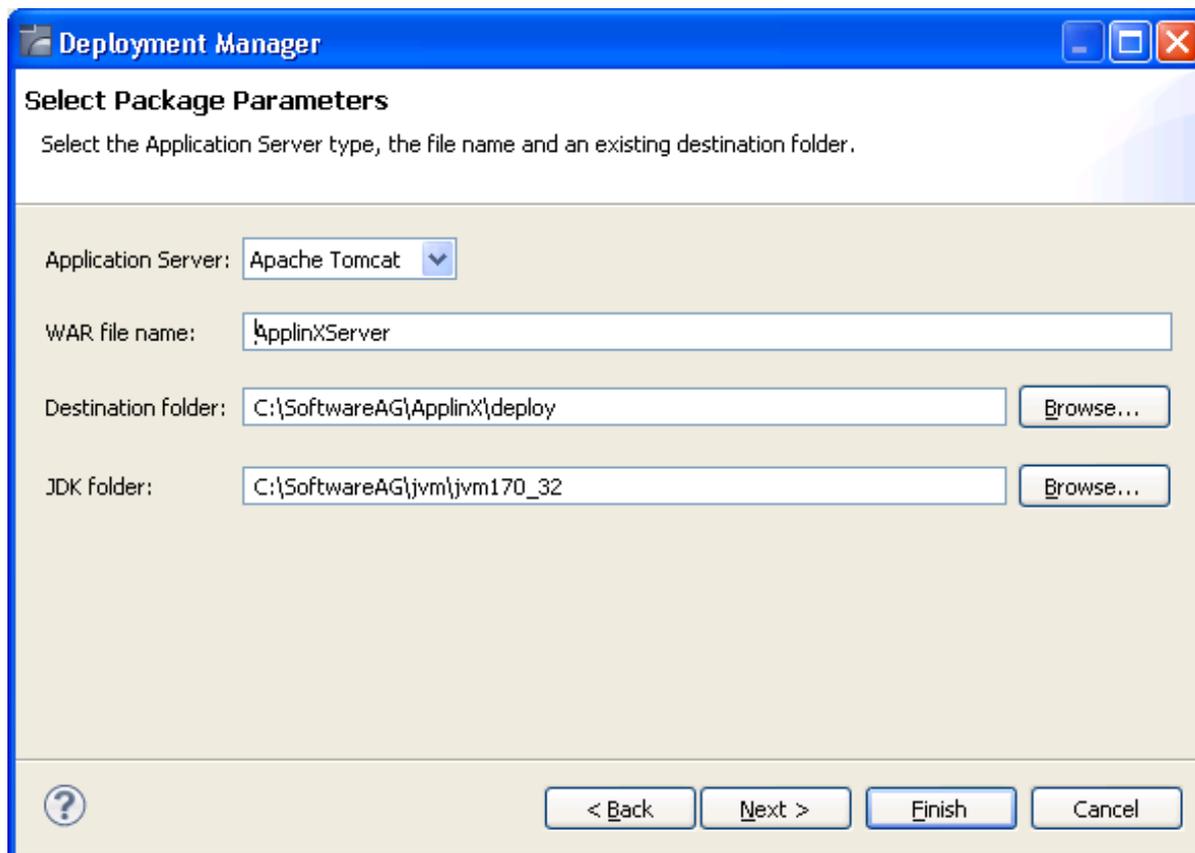
2. Ensure that the **Both - ApplinX server and JSP Web application** option is selected.
3. Click **Next**. The *Select ApplinX Application* screen is displayed.



4. Select the ApplinX application to deploy. Click **Next**. The *Select ApplinX Web Application* screen is displayed.



5. Select whether to deploy a new application or HTML emulation, or a project from within the workbench, or a project from a different location.
6. Select **Include source files** to include the Java files as well as the compiled classes. Click **Next**. The *Select Package Parameters* screen is displayed.



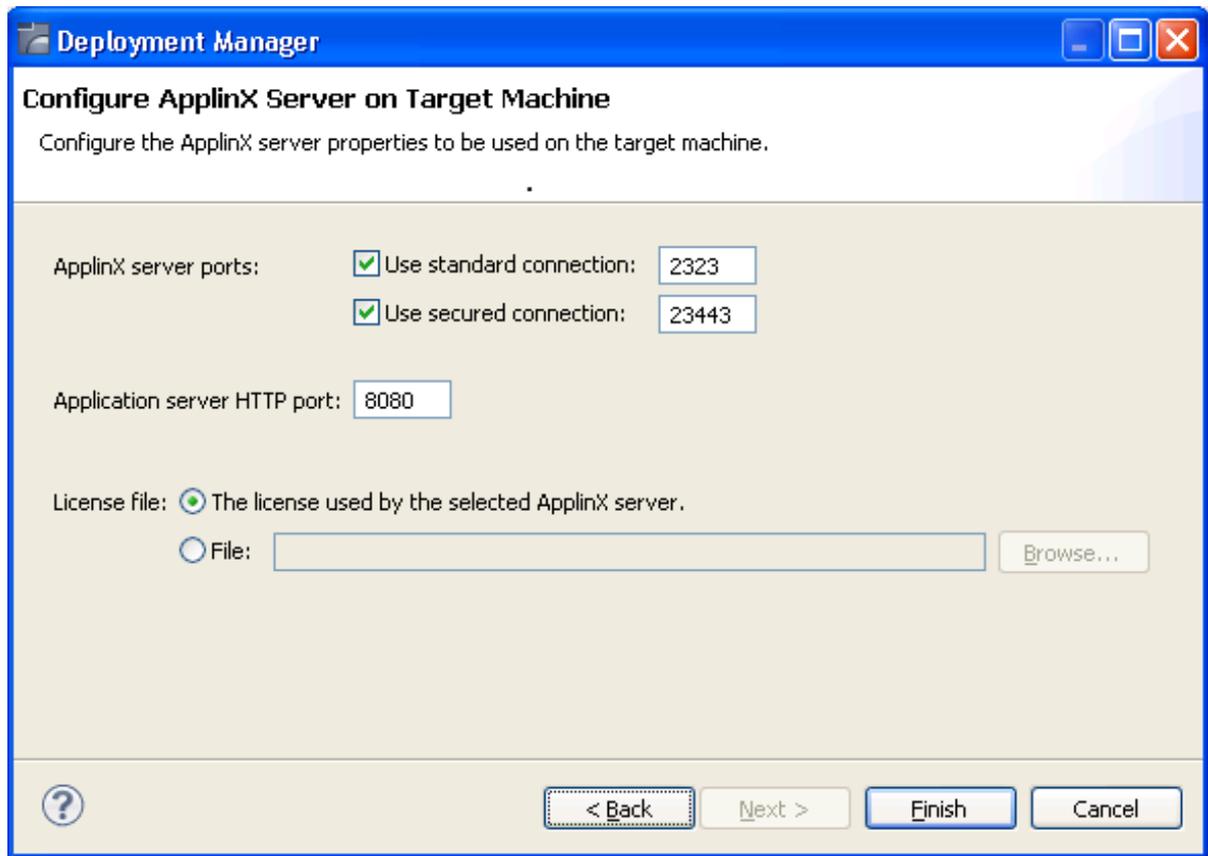
7. From the list of Application Servers select the server to which you are going to deploy ApplinX server.

Enter the WAR file name, the destination folder where the output file will be placed and the JDK folder (ensure that the JAVA\_HOME parameter points to the JDK installation folder).

**Note:**

When selecting WebLogic, you need to manually extract the content of the generated ZIP archive file.

8. Click **Next**. The *Configure ApplinX Server on Target Machine* screen is displayed.



9. In this screen, configure the ApplinX server parameters to be used on the target machine: the ports, and the license file.
10. Click **Finish**.
11. In the console area, it is possible to see whether the process succeeded or failed. The WAR file created should be deployed to your Java Application Server.

➤ **Consider changing the following for production use:**

1. Change the framework logging according to your needs either by accessing the "Framework Configuration Editor" or in config/gx\_logConfig.xml file. For example:

```
<category additivity="false" name="com.sabratec">
    <level value=" ERROR"/> <!-- Sets the log to Errors only -->
    <appender-ref ref="FRAMEWORK_LOG"/>
</category>
```

Possible values are:

- INFO - Normal
- WARN - Warnings
- ERROR - Errors only

- DEBUG - Debug
2. Disable the Performance monitor either by accessing the "Framework Configuration Editor" or in `config/gx_appConfig.xml` file set the `WritePerformanceLog` to false (this is the default configuration).
  3. Disable the Javascript log using the `config/gx_clientConfig.xml` by setting `LogLevel` to 0 and `ShowLogConsole` to false (this is the default configuration).
  4. Remove "Framework Configuration Editor" link from index page: delete the folder `z_admin` and remove the link to "configuration editor" from the index page.

**Note:**

When connecting to an external application server (any server that is not Tomcat), the changes performed in the Designer will not be saved.

## Deploying an ApplinX Web Application (.NET)

**Note:**

ApplinX framework supports .NET clustering in a Web farm environment.

### ➤ To deploy the Web application:

1. Copy the entire Web application into a temporary working folder.
2. In the `config/gx_logConfig.xml` file edit the Logger settings according to your needs (enable/disable the log, target path and log level). For example:

```
<logger name="com.sabratec">
    <level value="INFO"/> <!"sets the log to normal mode
    <appender-ref ref="FRAMEWORK_LOG"/>
</logger>
```

When you do not require the performance log, ensure that the last two category nodes in the XML file are commented.

3. Change the definition of `designMode` in `config/gx_appConfig.xml` to "false".
4. Change the definition of the `serverURL` and `applicationName` in `config/gx_appConfig.xml` to the target server.
5. Copy the updated folder to the relevant Web server.
6. Map this folder as a virtual directory under the server.

## Deploying and Running an ApplinX Application on IIS Version 7.5 or 8

The following pre-installation steps are only required the first time.

1. Download and install the Microsoft Visual J# 2.0 Redistributable Package, Second Edition (X64). You can find it under <http://www.microsoft.com/en-us/download/confirmation.aspx?id=15468>.
2. Open the Windows **Add/Remove Programs** on Windows 7 or the Server roles on the Windows server 2012 and select the web server (IIS) component and add to the server the following components:
  1. Security:
    - Basic Authentication
    - Client Certificate Mapping Authentication
    - Digest Authentication
    - IP security
    - Request Filtering
    - IIS Client Certificate Mapping Authentication
    - URL Authorization
    - Windows Authentication
  2. Application Development Features (Web-App-Development Component)
    - .NET Extensibility
    - ASP
    - ASP.NET
    - CGI
    - ISAPI Extensions
    - ISAPI Filters
    - Server Side Includes
  3. Common HTTP Features (Web-Common-Http Component)
    - Static Content
    - Default Document
    - Directory Browsing
    - HTTP Errors
3. From Windows **Add/Remove Features**, also add the Microsoft .NET Framework 3.5.

After deploying the ApplinX application on the IIS server using the ApplinX Web manager, perform the following steps:

1. Open the IIS Manager
2. Under **Site > Default Web Site**, convert the virtual directory created by the ApplinX Web Manager to Application.
3. Change the Application pool to Classic .NET AppPool.
4. Add to the default documents section the index.aspx page.
5. On the security page, add write-permission to IIS users.