

Installation of IBM WebSphere Application Server 7.0 on IBM i

Prerequisites

To install WebSphere Application Server on IBM i, verify that your hardware and software meets the minimum requirements. Check the following Web site for the latest information available about prerequisites:

<http://www-01.ibm.com/support/docview.wss?rs=180&uid=swg27012418>

WebSphere Application Server V7.0 is supported on IBM i Version 5 Release 4 (V5R4) or Version 6 Release 1 (V6R1)

To install the WebSphere Application Server product, ensure that you have a recent level of the Java™ group PTF installed. For V5R4M0, level 13 or higher is recommended.

The WebSphere Application Server Version 7.0 for IBM i group PTF includes fixes for WebSphere Application Server and other IBM i products such as IBM DB2 Universal Database™, IBM Developer Kit for Java, and the IBM HTTP Server.

Installing the group PTF requires an IPL of your server, so plan accordingly.

Procedure

There are following three different ways to perform installation in IBM i

- Install WebSphere Application Server from your IBM i server.

Installing the product from the CD-ROM drive of your IBM i server requires direct physical access to the server. The local installation requires less time to complete than a remote installation. The local installation reads installation options from a response file.

- Install WebSphere Application Server from a Windows workstation command line.

The install.exe command invokes the installation wizard. The wizard reads installation options from a response file. Installing the product from a Windows workstation does not require direct physical access to the IBM i server, but it typically requires more time to complete than a local installation.

- Run the GUI installation tool from a Windows workstation

The interactive GUI uses an InstallShield interface to prompt you for installation options. Installing the product from a Windows workstation does not require direct physical access to the IBM i server, but typically requires more time to complete than a local installation.

In this document we shall cover local silent install from IBM i QShell command line.

Note: Before you install WebSphere Application Server, ensure that your user profile has *ALLOBJ and *SECADM special authorities.

Installation steps

1. Sign on the IBM i system with a user profile that has *ALLOBJ and *SECADM special authorities.
2. Verify that the host server jobs have started on your IBM i server.

The host server jobs allow the installation code to run on IBM i. On a CL command line, enter the following command:

```
STRHOSTSVR SERVER(*ALL)
```

3. Place the WebSphere Application Server for IBM i disk in the disk drive of your server. Do not use the WebSphere Application Server for Windows® disk or any other operating system disk other than the disk for IBM i.

The application server product installer is spanned across multiple CDs. If you are installing the product from the CDs, then you must use the following procedure or the installation will not proceed:

- a. Copy both installation CDs into the same parent directory (for example, WebSphere7) on your hard disk.
- b. Name the directories DISK1 and DISK2 (for example, WebSphere7/DISK1 and WebSphere7/DISK2).
- c. If your system's language is not set to English, then set the language to English for the duration of the installation.

Avoid trouble: If your language is set to something other than English, the installation will fail

- d. Run the installer from the DISK1 directory after following the remaining instructions in this document.
 - e. After you have completed the installation, reset your system's language to its previous setting if you had changed it during the installation.
4. Use the Copy (CPY) command to create a copy of the responsefile.base.txt file from the disk.

For example:

```
CPY OBJ('/home/WEBSHERE/WAS70/responsefile.base.txt') TODIR('/tmp')
```

5. Edit the /tmp/responsefile.base.txt file
 - a. Change the value for -OPT silentInstallLicenseAcceptance from false to true.

A value of true indicates that you have read and accept the terms of the license agreement. This change is required to run the installation.

- b. Specify a Java™ Software Development Kit (SDK) to invoke the installer and configure the product and profiles. You can force the use of a specific Java SDK with the i5osjdkklocation option in the response file.
- c. Change the following parameter to false if you do not want to enable administrative security. You do not need to set the PROF_adminUserName or PROF_adminPassword in this case.

```
-OPT PROF_enableAdminSecurity="true"
```

You do not need to set the PROF_adminUserName or PROF_adminPassword in this case. If you select above parameter as true then you will have to also define (PROF_adminUserName and PROF_adminPassword) otherwise installation will fail. In our case we don't need admin security so we have made it false.

6. Save the file by pressing F3 twice
7. Open a Qshell session. On an IBM i command line, type STRQSH
8. Change the directory to the WAS subdirectory on IBM i command line:
cd /home/WEBSPHERE/WAS70
9. Invoke the install script, and point to your response file:
install -options /tmp/responsefile.base.txt
10. After you invoke the installation script, messages are displayed that indicate the progress of the installation. When the setup program completes, check the last window. The last two messages should indicate the status of the installation: success, partial success, or failure, for example:

```
Process, com.ibm.ws.install.ni.ismp.actions.SetExitCodeAction, msg1,  
CWUPI0000I: EXIT-CODE=0  
Process, com.ibm.ws.install.ni.ismp.actions.ISMPLogSuccessMessageAction,  
msg1, INSTCONFSUCCESS
```

```
File Edit View Help
QSH Command Entry

te: 87%
(May 7, 2009 6:18:35 PM), Process, com.ibm.ws.install.ni.ismp.actions.InstallNIFPackage, msg1, Running configuration command: migrationSlashFix, percent complete: 100%
(May 7, 2009 6:18:47 PM), Process, com.ibm.ws.install.ni.ismp.actions.SettleNIFRegistryAction, msg1, Current install/uninstall process is successful. Process type is: install
(May 7, 2009 6:18:48 PM), Process, com.ibm.ws.install.ni.ismp.actions.SetExitCodeAction, msg1, CWUPI0000I: EXITCODE=0
(May 7, 2009 6:18:48 PM), Process, com.ibm.ws.install.ni.ismp.actions.ISMPLogSuccessMessageAction, msg1, INSTCONFSUCCESS
Wizard.getExitCode(): called after WizardServices is shutdown.
Wizard.getExitCode(): called after WizardServices is shutdown.
$

==> █

F3=Exit F6=Print F9=Retrieve F12=Disconnect
F13=Clear F17=Top F18=Bottom F21=CL command entry

5250 HW 007/018
```

An exit code of 0 means successful installation.

13. You should also check the log file at: <install_root>/logs/install/log.txt

Important: Do not exit the Qshell session (PF3) until the installation has completed. Doing so might cause the installation to stop prematurely

You have successfully installed WebSphere Application Server for IBM i Version 7.0

Starting Server and Accessing Admin Console

Now as you have installed WebSphere Application Server successfully, you need to start the server and access admin console to verify the installation.

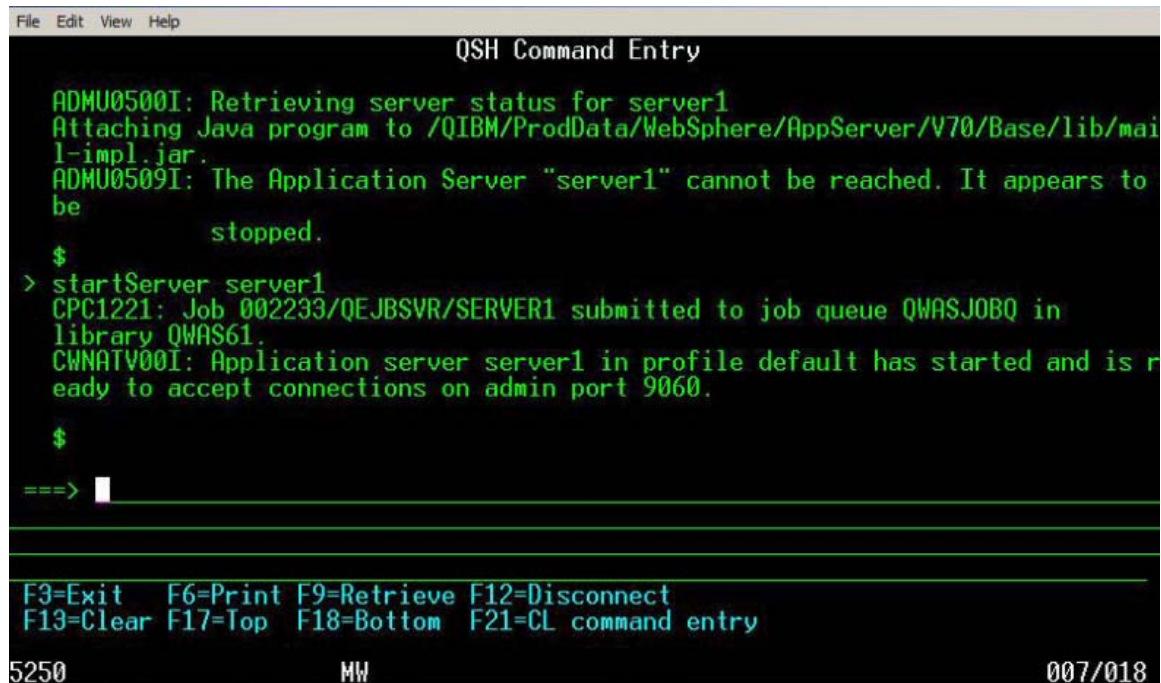
To start the server:

1. Open Qshell from IBM i command line by typing STRQSH and press Enter
2. On the Qshell change the directory to where application server is installed, in our case
cd /QIBM/ProdData/WebSphere/AppServer/V70/BASE/bin
3. Before starting the server, we will check the status of the server to see if it is started or stopped to be on the safe side, type the following command
serverStatus server1
4. Wait until it gets some information and see the last message, at the end if it says "Application server server1 can not be reached. It appears to be stopped" then

perform the following command. (Note: If it says "Application server server1 is STARTED" then no need to perform following command and skip to step 5)

```
startServer server1
```

Wait for a while until it gives a message like "Application server server1 in profile default has started and is ready to accept connections on admin port 9060"



```
File Edit View Help
QSH Command Entry
ADMU0500I: Retrieving server status for server1
Attaching Java program to /QIBM/ProdData/WebSphere/AppServer/V70/Base/lib/mail-impl.jar.
ADMU0509I: The Application Server "server1" cannot be reached. It appears to be
stopped.
$
> startServer server1
CPC1221: Job 002233/QEJBSVR/SERVER1 submitted to job queue QWASJOBQ in
library QWAS61.
CWNATV00I: Application server server1 in profile default has started and is r
eady to accept connections on admin port 9060.
$
===> █

F3=Exit F6=Print F9=Retrieve F12=Disconnect
F13=Clear F17=Top F18=Bottom F21=CL command entry
5250 MW 007/018
```

5. Next is to access the WAS admin console to verify that the server is started. We will access the admin console from our windows machine. Open internet explorer and type in the address bar:
<http://<iseriesHostIP>:9060/ibm/console>

And you will see the following login screen, type any user id like "admin" and click Login, and you are ready to install, uninstall applications and use many features of WebSphere Application Server.

Integrated Solutions Console

Log in to the console.

User ID:

Note: After some period of inactivity, the system will log you out automatically and ask you to log in again.

