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## Manage an IBM WebSphere Application Server installation on IBM i with IBM Web Administration for i

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IBM WebSphere® Application Server V8.0 and later is installed by IBM Installation Manager, which does not provide a graphical user interface (GUI) on the IBM i platform. IBM Web Administration for i provides an easy-to-use GUI to manage the WebSphere Application Server installations and fixes. This article introduces you how to use the GUI to install a new WebSphere Application Server instance and update it to the latest fix pack level.

### Overview

The IBM Web Administration for i (for short: Web Admin) is a Web-based tool, which provides a full-function GUI for configuring and managing many Web technologies including IBM WebSphere Application Server on IBM i. WebSphere Application Server is an important product, offering a valuable option for a fast and flexible Java<sup>™</sup> application server runtime environment and enhanced reliability and resiliency.

Starting with WebSphere Application Server V8.0, the product is installed using the IBM Installation Manager. IBM Installation Manager does not have a GUI for IBM i, so it's a bit complex to install and manage WebSphere Application Server on IBM i. The Web Admin, first made available with WebSphere Application Server V8.5, provides an easy-to-use GUI to manage the WebSphere Application and fixes on IBM i.

This article takes a real-world example to show you how to install the WebSphere Application Server V8.5 product and update the installation to the latest fix pack level.

## Prerequisites

The WebSphere Application Server installation and fixes support on Web Admin is shipped by individual PTF SI48432 (IBM i 6.1) and SI48431 (IBM i 7.1). The best way to ensure these are installed on your system is to install the latest IBM HTTP Server group PTF:

- IBM i 6.1 SF99115 Level 30
- IBM i 7.1 SF99368 Level 19

Before installing WebSphere Application Server on your system, make sure the following requirements are met.

#### Table 1. IBM i 6.1 software requirements

Product name	License	Option	Release
IBM J2SE 6.0 32 bit	5761JV1	11	IBM i 6.1
Host servers	5761SS1	12	IBM i 6.1
Qshell	5761SS1	30	IBM i 6.1
Portable Application Solutions Environment (PASE)	5761SS1	33	IBM i 6.1
IBM i Digital Certificate Manager	5761SS1	34	IBM i 6.1
Extended Base Directory Support	5761SS1	3	IBM i 6.1
IBM HTTP Server for i	5761DG1	*BASE	IBM i 6.1

#### Table 2. IBM i 7.1 software requirements

Product name	License	Option	Release
IBM J2SE 6.0 32 bit	5761JV1	11	IBM i 6.1
Host servers	5770SS1	12	IBM i 7.1
Qshell	5770SS1	30	IBM i 7.1
PASE	5770SS1	33	IBM i 7.1
IBM i Digital Certificate Manager	5770SS1	34	IBM i 7.1
Extended Base Directory Support	5770SS1	3	IBM i 7.1
IBM HTTP Server for i	5770DG1	*BASE	IBM i 7.1

#### Table 3. IBM i 6.1 Group PTF requirements

Number	Minimum level	Note
SF99610	11256	Cumulative packages
SF99601	24	DB2 for i
SF99562	18	Java
SF99115	28	IBM HTTP Server

#### Table 4. IBM i 7.1 Group PTF requirements

Number	Minimum level	Note
SF99710	11116	Cumulative packages
SF99701	12	DB2 for i
SF99572	7	Java
SF99368	16	IBM HTTP Server

## Installing WebSphere Application Server

First the WebSphere Application Server V8.5 product needs to be installed before you can upgrade it to the latest fix pack level.

Start the "Admin" servers on your IBM i system by using the Start TCP Server (STRTCPSVR) command:

STRTCPSVR \*HTTP SERVER(\*ADMIN)

A new tab called Installations has been added to the Web Admin GUI to support installing WebSphere Application Server V8.0 and later installations. To perform the Installation Manager operations, special authorities \*ALLOBJ & \*SECADM are required. To launch the Install WebSphere Application Server wizard, in the left navigation pane, click **Install** or **Install WebSphere Application Server**. This wizard walks you through the process to install a new product and all available fixes provided in the product packages.

## Figure 1. Manage installations – launch the Install WebSphere Application Server wizard

All Servers   HTTP Servers   Ap	plication Servers Installations	
Common Tasks and Wizards Create Web Services Server Create HTTP Server	Manage Installations @	
Create Application Server Create WebSphere Portal	WebSphere Application Server	
Installations	WebSphere Application Server V8.0 and higher is installed and managed by IBM Installat	llation Mar
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#### Step 1: Welcome

Welcome information for the installation wizard.

#### **Step 2: Installing Installation Manager**

If the Installation Manager tool is missing on your system, the wizard helps to install it first with the provided packages location. In order for your application server to be installed it leverages the Installation Manager tool. The Installation Manager packages can be downloaded from the Installation Manager Web Site.

#### Figure 2. Installing Installation Manager

```
Install WebSphere Application Server
Install IBM Installation Manager - Step 2 of 6
The wizard requires the IBM Installation Manager lool to complete WebSphere Application Server product installations on IBM I. Specify the installer packages location on the
local system. The wizard installation Manager lool to complete WebSphere Application Server product installations on IBM I. Specify the installer packages location on the
local system. The wizard installation Manager lool to complete WebSphere Application Server product installations on IBM I. Specify the installer packages location on the
local system. The wizard installation Manager Deckages
Location: Immediate IBM Installation Manager on your system.
Click Next to install IBM Installation Manager on your system.
```

#### Step 3: Specifying the product installation packages location

Specify the WebSphere Application Server V8.5 product installation packages location on a local or remote system. If authentication is required to access the remote system, you need to specify the user ID and password.

#### Figure 3. Specifying the product installation packages location

Install WebSphere Application Server	
Specify Product Install Packages Location - Step 3 of 6	
To install a new WebSphere Application Server product installation packages. The product install packages can be located on the lo the remote install location.	on, the product install packages are required. Specify the path of the product install cal system or a remote system. Specify the user authentication if required to access
Product Install Packages	
Location : ]	Browse
e.g. /builds/WAS/, http://www.ibm.com/software/repositor	ymanager/com.ibm.websphere.ND.v80/repository.config
🗷 Specify authentication to access the install location	
User.	
Password:	

#### Step 4: Selecting to install the Liberty profile feature

The Liberty profile is an optionally installable feature of the WebSphere Application Server product. It is a new lightweight application foundation provided starting with WebSphere Application Server V8.5. It is a fast-to-start, dynamic application server runtime environment for Web and Open Services Gateway initiative (OSGi) applications.

You can select to install the Liberty profile together with the WebSphere Application Server. It is installed to the path *Product\_Install\_Path/wlp*.

#### Figure 4. Selecting to install the Liberty profile

#### Install WebSphere Application Server

```
Select to Install Liberty Profile - Step 4 of 6
```

Liberty profile is a new lightweight application foundation provided since WebSphere Application Server V8.5. Select whether to install the Liberty profile on this installation.

Install Liberty profile on this installation

#### Step5: Upgrading Installation Manager

To install WebSphere Application Server on IBM i, there is requirement for the minimal version of the Installation Manager:

• WAS V8.0 - Installation Manager V1.4.3

Manage an IBM WebSphere Application Server installation on IBM i with IBM Web Administration for i

• WAS V8.5 - Installation Manager V1.5.2

Use the following command to check the Installation Manager version installed on your system:

/qibm/proddata/installationmanager/eclipse/tools/imcl version

If the Installation Manager on your system is not at the required level (or higher), the wizard helps to upgrade it. Download the proper version from the Installation Manager web site (the latest Installation Manager version as of the publication of this article is V1.6.1) to the local system or select to upgrade from the Internet in case your system has Internet access.

#### Figure 5. Upgrading Installation Manager

#### Install WebSphere Application Server

Upgrade IBM Inst	allation Manager - Step 5 of 6		
To install WebSph on the system is o Internet to upgrad tool when you clic	ere Application Server V8.0.0.3, IBM In Iown level. Choose to upgrade the too e the tool, make sure this system is c k Next and it takes about a minute.	nstallation Manager version of to the latest version by us connected to the Internet. Th	n 1.4.3 or higher is required. The current version sing local install packages or Internet. If using ne wizard upgrades the IBM Installation Manage
Use instal	ller packages on local system to upgr	rade	
Location:	/home/IM160/	Browse	e.g. /home/IIM/, /QOPT/Setup/IIM/OS400/
O Use Interr	iet to upgrade		

Click Next to upgrade IBM Installation Manager on your system.

When you complete the wizard, the new WebSphere Application Server V8.5 installation with an Installing status is shown on the Manage Installations page. The status changes to Available after the product is installed successfully.

#### Figure 6. Status of the new installation

All Servers   HTTP Servers   Appli	ication Servers Installations		
Common Tasks and Wizards     Create Web Services Server     Create HTTP Server	Manage Installations ©		
Create Application Server	WebSphere Application Server		
and the second			
v Installations install WebSphere Application Server D Manage Installations	WebSphere Application Server V8.0 and higher is installed and GUI interface for IM to install a new WebSphere Application Serv product installation from the system, view the installed interim th authority "ALLOBJ & "SECADM are allowed to manage the instal	managed by IBM Installation er installation, update an ex xes or delete the interim fixe Illation.	n Manager (IM). IBM Web Administration for i is providing Isting installation with interim tixes or fix pack, uninstall is from the installation. Only administrator with special
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r Installations → Install WebSphere Application Server △ Manage Installations	WebSphere Application Server V8.0 and Nigher is installed and GUI interface for IM to install a new WebSphere Application Ser- product installation from the system, where the installed interim if authority "ALLOBJ & "SECADM are allowed to manage the inst Product Install Path J/QIBM/ProdData/WebSphere/AppServer/VB/ND_3 /QIBM/ProdData/WebSphere/AppServer/VB/ND_3	managed by IBM Installation er installation, update an ex xes or delete the interim fixe Ilation. V8.5.0.0 ND ≪ Install V8.0.0.5 ND ✓ Availa	Nanager (IM). IBM Web Administration for i is providing isting installation with interim fixes or fix pack, uninstall b a from the installation. Only administrator with special ing ble
<ul> <li>Installations</li> <li>Install WebSphere Application Server</li> <li>D Manage Installations</li> </ul>	VebSphere Application Server V8.0 and Nigher is installed and GUI interface for III to install a new WeSphere Application See product installation from the system, view the installed interim authority "ALLOBJ & "SECADM are allowed to manage the instal Product Install Path //QIBM/ProdDataWebSphere/AppServer/VBND_3 //QIBM/ProdDataWebSphere/AppServer/VBND_3	managed by IBM Instatiation er installation, update an ex xes or delete the interim five illation. Version Status V8.0.0.5 ND ✓ Availa V8.0.0.5 ND ✓ Availa	Nanager (M). IBM Web Administration for i is providing isting installation with interim faces or fit pack, uninstall i a from the installation. Only administrator with special ing ble ble

Besides the above Install WebSphere Application Server wizard to install a new product on the system, the Web Admin GUI also provides a "Create Application Server" > "New Installation" wizard, to support installing a new product and creating a new profile within one wizard. If you do not need to upgrade your installation (to the latest fix pack level) before creating a profile, you can follow the New Installation wizard to create a profile based on the new installation.

### Figure 7. New Installation wizard

IBM Web Administration for i Setup Manage Advanced   1	Related Links	0 🕨
All Servers   HTTP Servers Ap	plication Servers Installati	ons
🛚 Running 🚺 🚺 🖉 Server	INTAPPSVR - 78.1 (int	app svz) 🗸
Common Tasks and Wizards Create Web Services Server Create HTTP Server Create Application Server Create Application Server	Create Application Select Application Serve	n <b>Server</b> ar Version and Type
Application Server Wizards     Create Database Connection     Install New Application	This system has more the choose to create the serv located on this local syste installation.	an one version and type of application server installed. For WebSphere Application Server version 8.0 er on existing installation or install a new WebSphere Application Server installation. This requires the em or a remole system. The wizard handles the install steps in addition to server creation and configu
Server Properties     Properties     Server Tracing     View HTTP Servers	Choose the type of applic IBM integrated Web ay © V8.1	ation server to create oplication server for it
<ul> <li>Applications</li> <li>Manage Installed Applications</li> </ul>	WebSphere Applicatio	m Server: For WebSphere Application Server version 8.0 or higher, the wizard handles the product install in ao
▼ Resource Configuration B Manage Database Connections	© V8.0 Base © V8.0 Base	creation and configuration using this new installation. Note: To create WebSphere Application Server on a new product installation, the product packages
• Web Performance	© V8.0 ND	can be on a local or remote system. It least installation Manager tool is not installed on your system, j installer packages on the system.

## **Updating WebSphere Application Server**

After the WebSphere Application Server V8.5 has been installed on the system, we are now going to update it to the latest level, in this case V8.5.0.1, by installing a fix pack. Product fix packs contain bundled service to bring the WebSphere Application Server up to a new product level. Interim fixes provide corrective service for specific known problems. For the latest fixes information and fixes packages, refer to IBM Fix Central.

Choose the WebSphere Application Server installation that you want to update and click **Update** to launch the Update WebSphere Application Server wizard.

# Figure 8. Managing installations – launching the Update WebSphere Application Server wizard

All Servers   HTTP Servers   Appli	cation Servers Installations		
Common Tasks and Wizards Create Web Services Server Create HTTP Server	Manage Installations @		
Create Application Server Create WebSphere Portal	WebSphere Application Server		
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Installations J Install WebSphere Application Server P Manage Installations	WebSphere Application Server V8.0 and higher is installed and m install a new WebSphere Application Server installation, update a installed interim fixes or delete the interim fixes from the installation Product Install Path /QIBM/ProdData/WebSphere/AppServer/V85/ND /QIBM/ProdData/WebSphere/AppServer/V8/ND_3 /	nanaged by IBN an existing insta ion. Only admin Version V8.5.0.0 ND V8.0.0.5 ND V8.0.0.5 ND	Installation M allation with ini istrator with sp Status ✓ Available ✓ Available ✓ Available

Specify the fix pack (or interim fixes, or both) packages location. In our example, we have downloaded and extracted the WebSphere Application Server V8.5.0.1 fix pack packages to the local system: */home/was8501*.

#### Figure 9. Specifying the location of the fix packages

#### Update WebSphere Application Server

Specify	the	location	of the	Fix	Packages	- Sten	1	of 2
opeony	une	location	or me	1 1 1 1	/ aunayes	- Olep		UI Z

This wizard helps you update the existing WebSphere Application Server installation with fix pack or interim fixes. Server up to a new product level. Interim fixes provide corrective service for specific known problems.

Specify the fix pack or interim fixes package locations to update the WebSphere Application Server installation. Th user authentication if required to access the remote packages location. If more than one remote package is spec

#### Specify the location of the Fix Packages: 📀

Location: /home/was8501	Browse
-------------------------	--------

Specify authentication to access the install location

You can choose to install interim fixes to the installation together with the fix pack or separately. If the fix pack is located on a remote server that requires authentication to access, specify the authentication information on the above page.

The wizard checks the packages found at the location that you have specified. All available fixes for the installation (fix pack level higher than current and interim fixes not installed on the

installation) are listed for you to install. In our example, we only specify the WebSphere Application Server V8.5.0.1 fix pack. If there were interim fixes also found in the product packages, they would be shown in Figure 10.

#### Figure 10. Listing all available fixes

#### Update WebSphere Application Server

Specify the location of	of the Fix Packages - Step 1 of 2
This wizard helps you Server up to a new pro	update the existing WebSphere Application Server installation with fix pack or interim fixes. oduct level. Interim fixes provide corrective service for specific known problems.
Specify the fix pack or the user authentication	interim fixes package locations to update the WebSphere Application Server installation. Th in if required to access the remote packages location. If more than one remote package is s Fixes
Specify the location	The following fix pack is to be installed ✓ V8.5.0.1
	OK Cancel
Interim Fix	
Specify authentica	ation to access the install location
After you clic	k Finish, the WebSphere Application Server installation has an Updating status.

#### Figure 11. Installation in Updating status

All Servers   HTTP Servers   Appli	ication Servers Installations	
Common Tasks and Wizards Create Web Services Server Create HTTP Server	Manage Installations 💿	
Create Application Server	WebSphere Application Server	
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After the update has been completed successfully, the status changes to Available and the Version turns to V8.5.0.1 ND. Click **View Fix** to also find all installed fixes for this installation. For this example, you can find see from Figure 12 that the installation fix level is V8.5.0.1 and there are no interim fixes installed. If interim fixes have been installed, they will be listed in the table and you also can select to delete them from the installation as see on the following page.

#### Figure 12. View the fix installed on the installation





For more information about the interim fix, refer to the IBM Fix Central.

Now WebSphere Application Server V8.5 with the latest fix pack V8.5.0.1 has been installed on the IBM i system. You can continue to create WebSphere Application Server profiles to run Web applications by clicking **Create Application Server wizard** found in the Web Admin interface.

When an installation is not needed anymore, Web Admin GUI also provides an option to uninstall it from your system.

## Figure 13. Managing installations – launching the Uninstall WebSphere Application Server wizard

All Servers   HTTP Servers   Appli	cation Servers Installations	
Common Tasks and Wizards ) Create Web Services Server ) Create HTTP Server	Manage Installations @	
J Create Application Server	WebSphere Application Server	
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Note that when you uninstall the installation from the system, all profiles based on this selected installation are deleted together.

### Summary

IBM Web Administration for i provides an easy-to-use GUI to manage WebSphere Application Server V8.0 and later on IBM i. This article has introduced an example of how to use Web Admin to install a new WebSphere Application Server product, and update the installation to the latest version with a fix pack. Using rich functions that Web Admin GUI provides for the WebSphere Application Server, you can manage your installation easily and effectively on IBM i.

#### Resources

- Find everything about the WebSphere Application Server V8.5 from the WebSphere Application Server V8.5 Information Center.
- To download or get more information about the WebSphere Application Server fixes at IBM Fix Central.
- Learn more about the IBM Installation Manager tool from the Installation Manager Information Center.
- Download the latest IBM Installation Manager V1.6.1 from the Installation Manager Web Site.

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