#### IBM<sup>®</sup> Feature Pack for Web Services– LAB EXERCISE

# WebSphere Application Server V6.1 Feature Pack for Web Services installation guide

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### What this exercise is about

The objective of this lab is to show you how to install the Feature Pack for Web Services for WebSphere Application Server V6.1 on distributed platforms. This lab will guide you through the installation process, including verifying your WebSphere Application Server V6.1 installation, acquiring and unpacking the Feature Pack for Web Services installation image, installing the Feature Pack and augmenting or creating profiles.

### Lab requirements

The system on which you are installing WebSphere Application Server must be running a supported distributed operating system. For more information on supported operating systems, see the WebSphere Application Server V6.1 information center. In addition, the system must have the following resources available:

- Approximately 500MB of hard drive space to store the installation images
- An appropriate installation of WebSphere Application Server V6.1
- A utility to unzip the installation image
- Another 500MB of hard drive space for the installed product

### What you should be able to do

At the end of this lab you should be able to:

- Install the WebSphere Application Server V6.1 Feature Pack for Web Services
- Verify the installation
- Augment existing profiles, and create new profiles

### Introduction

The Feature Pack for Web Services builds on Web Services technologies available in WebSphere Application Server V6.1. A few of the major enhancements introduced in this Feature Pack are:

- A new JAX-WS programming model (with support for JAX-B, annotations, SOAP 1.2 and more)
- Support for WS-Reliable Messaging and WS-Secure Conversation
- Improved administration of Web Services configuration through the use of Policy Sets

This lab is divided into the following parts, some of which are optional exercises.

#### Part 1: Verify the installation of WebSphere Application Server V6.1

This portion of the lab will verify the existing installation of WebSphere Application Server.

#### Part 2: Prepare the installation image

This section of the lab will prepare the installation image for installation.

#### Part 3: Perform the installation

This section will show how to perform the actual product install for the Feature Pack for Web Services on WebSphere Application Server V6.1. While it is possible to augment a profile during the installation procedure, this lab will bypass that step and create a profile after the installation is finished.

#### Part 4: Create a profile

This piece of will show the creation of a profile containing the new configurations for the Feature Pack for Web Services.

#### Part 5: Optional – Troubleshoot the installation

If any errors are encountered during the installation process, this section shows how to find the appropriate logs to help with troubleshooting.

### **Exercise instructions**

This lab assumes that WebSphere Application Server V6.1 has already been installed to the 
WAS\_HOME> directory. And that the Installable image for the Feature Pack for Web Services has been placed in the C:\LabFiles\Install directory.

Instructions and subsequent documentation use symbolic references to directories which are listed as follows:

Reference Variable		
<was_home></was_home>	C:\WebSphere\AppServer	Linux /opt/WebSphere/AppServer
		AIX /usr/WebSphere/AppServer
<temp></temp>	C:\temp	/tmp
<hostname></hostname>	Host name or host address for the machine where the profiles are being created	Host name or host address for the machine where the profiles are being created

#### Note:

If you have previously installed an Alpha version of the WebSphere Application Server V6.1 Feature Pack for Web Services, you should uninstall it before installing a new version. Refer to the Uninstall section for instructions to uninstall the WebSphere Application Server V6.1 Feature Pack for Web Services.

# Part 1: Verify the installation of WebSphere Application Server V6.1

\_\_\_\_\_1. Login as Administrator, there is no password, so leave it blank.

Unlock Con	nputer			
		<b>Windows S</b> Enterprise Edition	<b>Server</b> 2003	
Copyright © 19	85-2003 Microsoft	Corporation		Microsoft
<u>s</u>	This compute Only AIMCPC computer.	er is in use and has be 132\Administrator or a	een locked. an administrator can	unlock this
	<u>U</u> ser name:	Administrator		
	Password:			
			ОК	Cancel

- 2. Change to the <WAS HOME>\bin directory.
  - \_\_\_a. Windows Example:

cd C:\WebSphere\Appserver\bin

3. Run the versionInfo command.

\_\_\_a. Windows Example:

versionInfo.bat

\_\_\_\_ 4. Verify the output includes WebSphere Application Server V6.1

🛤 Command Prompt		- 🗆 ×
C:\WebSphere\AppServer\b WUER00101: Copyright <c> WUER00121: VersionInfo r</c>	in>versionInfo IBM Corporation 2002, 2005; All rights reserved. eporter version 1.15.1.13, dated 3/29/06	
IBM WebSphere Applicatio	n Server Product Installation Status Report	
Report at date and time   Installation	October 4, 2006 3:59:11 PM CDT	
Product Directory Version Directory DID Directory Log Directory Backup Directory TMP Directory Product List	C:\WebSphere\AppServer C:\WebSphere\AppServer\properties\version C:\WebSphere\AppServer\properties\version\dtd C:\WebSphere\AppServer\logs C:\WebSphere\AppServer\properties\version\nif\back C:\DOCUME~1\v2cib515\LOCALS~1\Temp	աթ
ND Installed Product	installed	
Name Version ID Build Level Build Date	IBM WebSphere Application Server - ND 6.1.0.0 ND b0620.14 5/16/06	
End Installation Status	Report	

- 5. In order to install the Feature Pack, all WebSphere Application Server processes must be stopped on the installation that is being upgraded. Run the command **serverstatus –all** to verify that all the servers are stopped.
  - \_\_\_\_a. Stop any running servers.

### Part 2: Perform the installation

- \_\_\_\_1. Start the Feature Pack Installer.
  - \_\_\_\_a. At a command prompt, navigate to the C:\Labfiles\Install\fep.61.webservices.windows.ia32\WEBSV\ directory.
  - \_\_\_\_b. Run the installation command, **Install.exe**.
  - \_\_\_\_ c. The following Install Wizard screen will appear. Click Next.

🖞 IBM WebSphere Applica	tion Server 6.1 Feature Pack for Web Services			
	Welcome to the IBM WebSphere Application Server 6.1 Feature Pack for Web Services Installation wizard.			
WebSphere, software	This wizard installs IBM WebSphere Application Server 6.1 Feature Pack for Web Services. The wizard also installs WebSphere Application Server Feature Pack Enablement Extensions if they are not installed.			
	Additional information can be found at the <u>Feature Pack for Web Services</u> Information Center and <u>Support sites for WebSphere Application Server and</u> related products.			
X	Attention: Network Deployment customers, there are limitations when you deploy Feature Packs to existing environments. Review the <u>profile rules and</u> <u>limitations</u> topic before proceeding.			
	Click <b>Next</b> to continue.			
InstallShield	P			
	< <u>B</u> ack <u>Next</u> > <u>C</u> ancel			

\_\_\_\_\_2. Review and Accept the license agreement. Click Next.

🝟 IBM WebSphere Applic	ation Server 6.1 Feature Pack for Web Services	_ 🗆 X
#	Software License Agreement	
	Please read the following license agreement carefully.	
WebSphere, software	International Program License Agreement	<b>_</b>
	Part 1 - General Terms	
	BY DOWNLOADING, INSTALLING, COPYING, ACCESSING, OR USING THE PROGRAM YOU AGREE TO THE TERMS OF THIS AGREEMENT. IF YOU ARE ACCEPTING THESE TERMS ON BEHALF OF ANOTHER PERSON OR A COMPANY OR OTHER LEGAL ENTITY, YOU REPRESENT AND WARRANT T YOU HAVE FULL AUTHORITY TO BIND THAT PERSON, COMPANY, OR LEG/ ENTITY TO THESE TERMS. IF YOU DO NOT AGREE TO THESE TERMS,	HAT AL
	- DO NOT DOWNLOAD, INSTALL, COPY, ACCESS, OR USE THE PROGRAM;	
	I accept the terms in the license agreement	
	O I do not accept the terms in the license agreement	
	Print	
InstallShield		
	< <u>B</u> ack <u>N</u> ext > <u>C</u> ar	ncel

- \_\_\_\_\_ 3. Insure you system passes the prerequisites check. When done click **Next**.
- 4. **Specify** the directory where WebSphere Application Server V6.1 is installed on the system, for this lab it has been installed in **C:\WebSphere\AppServer**. When done click **Next**.

🖞 IBM WebSphere Applica	tion Server 6.1 Feature Pack for Web Services 6.1	
	Installation Directory	a 6.4 must
WebSphere, software	be installed to an existing installation of IBM WebSphere Application Select an existing installation from the list or click <b>Browse</b> to select installation location.	a different
1	Product installation location:	
	C:WVebSphereVAppServer	•
		B <u>r</u> owse
InstallShield		
	< Back Next >	<u>C</u> ancel

5. The next screen a prerequisite check on the installed version of WebSphere Application Server. The Feature Pack for Web Services requires WebSphere Application Server V6.1.0.9 or higher, if the installation is below that level, the Feature Pack installer will upgrade the installation to the required level. Click **Next**.

🝟 IBM WebSphere Applica	ation Server 6.1 Feature Pack for Web Services
Ħ	Version Prerequisites Check
WebSphere, software	The existing installation of IBM WebSphere Application Server is at a lower level than required.
	IBM WebSphere Application Server must be at version 6.1.0.9 or higher to support the IBM WebSphere Application Server 6.1 Feature Pack for Web Services. Therefore, an additional maintenance package will be installed to update the existing installation of IBM WebSphere Application Server from version 6.1.0.0 to version 6.1.0.9.
	Click <b>Back</b> to select a different installation of IBM WebSphere Application Server. Click <b>Next</b> to continue and apply the additional maintenance during installation.
InstallShield	< <u>B</u> ack <u>Next &gt;</u> <u>C</u> ancel

6. Verify the installation choices made and click **Next**.



7. The installation will begin. The installation should take about 20 minutes, depending on the system. When the installation completes, results will be displayed. Review these results for a successful installation. Select the option to Launch the Profile management tool console. Click Finish.

쓥 IBM WebSphere Applicat	ion Server 6.1 Feature Pack for Web Services	_ 🗆 🗵
	Installation Results	<u>^</u>
WebSphere software	<ul> <li>Success: The following packages were installed successfully:</li> <li>WebSphere Application Server 6.1.0.9 - 6.1.0-WS-WAS-WinX32-FP0000009</li> <li>WebSphere Application Server Feature Pack Enablement Extensions</li> <li>WebSphere Application Server Feature Pack Interim Ifix - 6.1.0.9-WS-WASFeature-IFII000002</li> <li>Software Developer Kit 6.1.0.9 - 6.1.0-WS-WASSDK-WinX32-FP0000009</li> </ul>	
	<ul> <li>IBM WebSphere Application Server 6.1 Feature Pack for Web Services</li> <li>The next step is to use the manageProfiles command or the Profile management tool to create one or more profiles to enable the functionality</li> </ul>	
InstallShield	< Back Next >	nish

**NOTE:** In order for a WebSphere Application Server environment to be complete, at least one profile must be created. The first profile is often created at install time. However, for this lab the profile will be created separately using Profile Managment tool. Both strategies – creating a default profile during the installation and creating a default profile after the product installation, are perfectly acceptable, and both will result in a fully functional WebSphere Application Server environment. The Profile Managment tool provides advanced features to customize and augment existing profiles.

### Part 3: Create a profile

In this section of the lab, you will be using the Profile Management Tool (PMT) to create a profile.

- 1. If the Profile Management Tool (PMT) is not open, open it.
  - \_\_\_\_a. Open a command prompt and navigate to <WAS\_HOME>/bin/ProfileManagment.
  - \_\_\_\_b. Run the PMT.bat (or pmt.sh) executable.
  - \_\_\_\_\_ c. Alternatively, some platforms provide a menu option for launching the profile management tool. In Windows, for example, you can go to Start > Programs > IBM WebSphere > Application Server Network Deployment V6.1 > Profile Management Tool. Some Linux environments may also provide a menu option for the PMT, depending on their configuration.

- \_\_\_\_\_2. Step through the wizard to create a profile.
  - \_\_\_\_a. On the welcome screen, click **Next**.
    - 1) Optionally the PMT tool can be used to augment an existing profile, if profiles already exist on the system a panel offering the choice to create new profiles or augment existing profiles will be displayed. Choose to **Create** a new profile in this case.

🚯 Profile Management Tool				_ 🗆 🗙
Welcome to the Profile Manageme	ent tool			i a
Important information for Version 6.1 This wizard creates run-time environments that have a functional installation. An initial profile is created during the installation contain a set of commands, configuration files, defines a single application server environment See the online information center for more infor typical topologies for application servers. Online information center link	are referred to process. Use t log files, deploy rmation about t	as <i>profiles</i> . At le his wizard to crea able applications ne Profile Manage	ast one profile m ate additional pro and other inform ment tool or abo	ust exist to ofiles that each nation that out setting up
	< <u>B</u> ack	<u>N</u> ext >	Einish	Cancel

\_\_\_\_\_b. After installing the Feature Pack, there will be new options for profile creation. Select the option to create an Feature Pack for Web Services environment. This will allow you to create a profile with the additional configuration to support the advanced Web Services functions. Click Next.

🚯 Profile Management Tool				_ 🗆 ×
Environment Selection				i g
Select the type of environment to create. Environments:				
Cell (deployment manager and a federated app Deployment manager Application server Custom profile	lication server)			
Feature Pack for Web Services				
Description Create a Feature Pack for Web Services envir	onment.			
	< <u>B</u> ack	<u>N</u> ext >	Einish	Cancel

\_\_\_\_ c. Select the option for Application server with Web services Feature Pack. Click Next.

🔞 Profile Management Tool				
Profile Type Selection				iii g
Select a profile type for the WebSphere Web s Profile Types: Application server with Web services Feature Deployment manager with Web services Feature	ervices Feature Pack ure Pack	Pack environmer	nt.	
Description An application server with Web services Feat extends the application server environment b services functions such as a JAX-WS-based p (including support for MTOM and SOAP 1.2) a WS-ReliableMessaging and WS-SecureConve	ure Pack enviror by providing new programming mod as well as suppor rsation.	nment Web Jel t for		
	< <u>B</u> ack	<u>N</u> ext >	Einish	Cancel

\_\_\_\_\_d. Select the option for **Advanced profile creation**. Click **Next**.

🚯 Profile Management Tool					
Profile Creation Options					ŝ
Choose the profile creation process that meets Management tool to assign a set of default con specify your own configuration values for the p	; your needs. Pio figuration value profile.	k the Typical op s to the profile.	tion to allow the I Pick the Advance	Profile d option to	
O Iypical profile creation					
Create an application server profile that Management tool assigns unique names port values. The administrative console optionally select whether to enable adm to run the application server depending assigned to your user account.	t uses default co ; to the profile, r and the default ninistrative secu on the operatin	onfiguration sett ode, and host. application will t ity. The tool mig g system of you	ings. The Profile The tool also assi be installed. You o ht create a syste r machine and th	igns unique can em service e privileges	
Advanced profile creation Create application server using default settings such as the location of the prof your own port values. You can optional Sample applications, and create a Web application server as a system service o privileges assigned to your user account	configuration se file and names o ly choose wheth server definition depending on the t.	ttings or specify f the profile, not er to deploy the You might hav e operating syst	your own values de, and host. You administrative co e the option to ru em of your machi	; for u can assign onsole and un the ne and the	•
	< <u>B</u> ack	<u>N</u> ext >	Einish	Cancel	

\_\_\_\_e. Insure both check boxes are selected for deploying the administrative console and deploying the default application. Click **Next**.

🎼 Profile Management Tool				
Optional Application Deployment				i a
Select the applications to deploy to the WebSp	here Application	Server environn	ient being created	
Deploy the administrative console (recomm	ended).			
Install a Web-based administrative console administrative console is recommended, bu detailed steps for deploying it after the pro	that manages t it if you deselect ofile exists.	he application se this option, the	rver. Deploying th information center	e contains
Deploy the default application.				
Install the default application that contains	; the Snoop, Hel	o, and HitCount	servlets.	
	< <u>B</u> ack	<u>N</u> ext >	Einish	Cancel

\_\_\_\_\_f. On the Profile Name and Location panel, retain all of the defaults. The Profile Management Tool will always supply default non-conflicting names during profile creation. Since this is the first profile being created under this installation of WebSphere Application Server, it will automatically become the default profile. As you create other profiles in the future, there will be an additional option on this screen asking if you would like to make the profile that you are creating the default profile. Click **Next** to continue.

🚯 Profile Management Tool	
Profile Name and Location	Ą
Specify a profile name and directory path to contain the files for the run-time environment, such as commands, configuration files, and log files. Click <b>Browse</b> to select a different directory.	-
Profile name:	
AppSrv01	
Profile <u>d</u> irectory:	
C:\WebSphere\AppServer\profiles\AppSrv01	
Brows	se
□ ⊆reate the server using the development template.	
Select this option to create a server using configuration settings optimized for development. The development template reduces startup time and allows the server to run on less powerful hardw Do not use this option for production servers.	are.
<b>Important:</b> Deleting the directory a profile is in does not completely delete the profile. Use the <b>manageprofiles</b> command to completely delete a profile.	
	-
< <u>B</u> ack <u>N</u> ext > Einish C	ancel

\_\_\_\_g. Leave the default Node and Host name on the next screen. Click Next.

🚯 Profile Management Tool				
Node and Host Names				i a
Specify a node name and a host name for this	profile.			
Node name:				
jimcp032Node01				
Host name:				
aimcp032.austin.ibm.com				
Node name: A node name is used for adminis within the cell.	stration. If the n	ode is federated,	the name must	be unique
Host name: A host name is the domain name computer.	e system (DNS) r	ame (short or lor	ng) or the IP add	lress of this
See the information center for profile naming a Online information center link	and migration cor	siderations.		
	< <u>B</u> ack	<u>N</u> ext >	Einish	Cancel

\_\_\_\_h. Uncheck the box next to **Enable administrative security**; you won't use this feature during this lab. Administrative security can be enabled after installation if desired. Click **Next**.

🚯 Profile Management Tool				
Administrative Security				<b>B</b>
Choose whether to enable administrative seculogging into administrative tools. This administ server. After profile creation finishes, you car	urity. To enable se rative user is crea n add more users,	ecurity, supply a ited in a reposito groups, or exter	user name and pa ry within the appl nal repositories.	assword for 🔺 lication
Enable administrative security				
User name:				
Password:				
C-Street and the				
Congirm password:				
1				
See the information center for more information	on about administ	rative security.		
Online information center link		,		
				-
	e Back	Novt 5	Finish	Cancel
		Mext >	Emen	Cancer

\_\_\_\_\_i. The next panel lists all of the port values that will be assigned to the application server. Port values can be changed, though conflicts should be avoided. The PMT performs automatic port conflict resolution and suggests ports on which it doesn't find any conflicts. It is important to note any port values that differ from the defaults. Click **Next**.

🚯 Profile Management Tool	
Port Values Assignment	a la
The values in the following fields define the ports profiles in this installation. Another installation of the same ports. To avoid run-time port conflicts,	for the application server and do not conflict with other WebSphere Application Server or other programs might use verify that each port value is unique.
Default Port Values Recommended Port Values	es
Administrative console port (Default 9060):	 2060 <u>→</u> _
Administrative console secure port (Default 904	3): 9043 🚎
HTTP transport port (Default 9080):	9080 🗮
H <u>T</u> TPS transport port (Default 9443):	9443 🗮
Bootstra <u>p</u> port (Default 2809):	2809 🛋
S <u>I</u> P port (Default 5060);	5060 🛋
SIP sec <u>u</u> re port (Default 5061):	5061 🛋
SOAP connector port (Default 8880):	8880 💻
SAS SSL ServerAuth port (Default 9401):	9401 🛒
CSIV <u>2</u> ServerAuth listener port (Default 9403):	9403 🛫
CSI <u>V</u> 2 MultiAuth listener port (Default 9402):	9402 😴
ORB listener port (Default 9100):	9100 🚍 💌
	< <u>B</u> ack <u>N</u> ext > Enish Cancel

\_\_\_\_j. On a Windows platform, the next panel will be the Windows Service Definition screen. Uncheck the box next to Run the deployment manager process as a Windows service and click **Next**.

Profile Management Tool			
Windows Service Definition			i a
Choose whether to use a Windows service to r and stop WebSphere Application Server, and o	un WebSphere Applica onfigure startup and re	tion Server, Windows : ecovery actions,	services can start
Run the application server process as a Wi	ndows service.		
E Log on as a local system account.			
C Log on as a specified user account.			
User name:			
Administrator			
Password:			
Startup type:			
Automatic			<b>v</b>
The user account that runs the Windows s - Log on as a service	ervice must have the fo	ollowing user rights:	
	< <u>B</u> ack <u>N</u> e	xt > Einish	Cancel

- \_\_\_\_k. The next panel gives the option to create a Web Server definition for this profile. Notice that the default is not to create a Web server definition. For this lab, there is no need to define a web server at this time. Leave the checkbox **unselected**. Click **Next** to continue.
- \_\_\_\_I. The final screen allows you to review all of the profile creation details. Review the selections, and click **Create**.

🚯 Profile Management Tool	
Profile Creation Summary	i a
Review the information in the summary for correctness. If the information is correct, click <b>Create</b> to creating a new profile. Click <b>Back</b> to change values on the previous panels.	o start
Application server environment to create: Application server with Web services Feature Pack Location: C:\WebSphere\AppServer\profiles\AppSrv01 Disk space required: 100 MB	-
Profile name: AppSrv01 Make this profile the default: True	
Node name: aimcp032Node01 Host name: aimcp032.austin.ibm.com	
Deploy the administrative console (recommended): True Deploy the default application: True	
Enable administrative security (recommended): False	
Administrative console port: 9060 Administrative console secure port: 9043 HTTP transport port: 9080	•
< <u>Back</u> Create Einish	Cancel

\_\_\_\_m. After the profile creation has completed, verify that the box next to Launch the First steps console is checked and click Finish.

🚯 Profile Management Tool 📃 🗌 🗙
Profile Creation Complete
The Profile Management tool created the profile successfully.
The next step is to decide whether to federate the application server into a deployment manager cell.
To federate the application server, use either the <b>addNode</b> command or the administrative console of the deployment manager. Using the administrative console requires the application server to be running.
You can start and stop the application server from the command line or the First steps console. The First steps console also has links to an installation verification test and other information and features that relate to the application server.
Launch the First steps console.
To create another profile now, select the following option.
Create another profile.
To start the Profile management tool later, use the <b>PMT</b> command in the app_server_root bin/ProfileManagement directory or the option in the First steps console.
< <u>B</u> ack <u>N</u> ext > <u>F</u> inish Cancel

### Part 4: Installation verification

This section will cover verifying the installation using the Installation Verification application and starting the Application Server.

- 1. From the previous section the first steps console will be launched. If not, it can be manually invoked from FirstSteps in the <WASInstall>\profiles\AppSrv01\firststeps directory.
- 2. From the first steps console, choose **Installation verification**.



**Note:** Install verification will start the application server if it is not already started. The process will then verify the state of installation and the profile creation of the application server.

\_\_\_3. The output from the verification process should look like the following. There will be a number of warnings detected, this is to be expected. Verify that the verification succeeded. Close the windows when complete.

🕀 First steps output - Installation verification
IVTL0010I: Connecting to the WebSphere Application Server aimcp032.austin.ibm.com on port: 9080
IVTL00201: The Installation Verification Tool cannot connect to WebSphere Application Server; waiting for the server to start.
Start running the following command:cmd.exe /c "C:WebSphere\AppServer\profiles\AppSrv01\bin\startServer.bat" server1 -profileName Ap
>ADMU0116I: Tool information is being logged in file
C:WebSphereWppServer/profiles/AppSrv01\logs\server1\startServer.log
>ADMU0128I: Starting tool with the AppSrv01 profile
>ADMU3100I: Reading configuration for server: server1
>ADMU3200I: Server launched. Waiting for initialization status.
>ADMU30001: Server server1 open for e-business; process id is 2660
IVTL0015I: WebSphere Application Server aimcp032.austin.ibm.com is running on port: 9080 for profile AppSrv01
Testing server using the following URL:http://aimcp032.austin.ibm.com:9080/ivt/ivtserver?parm2=ivtservlet
IVTL0050I: Servlet engine verification status: Passed
Testing server using the following URL:http://aimcp032.austin.ibm.com:9080/ivt/ivtserver?parm2=ivtAddition.jsp
IVTL00551: JavaServer Pages files verification status: Passed
Testing server using the following URL:http://aimcp032.austin.ibm.com:9080/ivt/ivtserver?parm2=ivtejb =
IVTL00601: Enterprise bean verification status: Passed
IVTL00351: The Installation Verification Tool is scanning the file C:\WebSphere\AppServer\profiles\AppSrv01\logs\server1\SystemOut.log fc
[6/20/07 20:34:41:515 CDT] 0000000a WSKeyStore W CWPKI0041W: One or more key stores are using the default password.
[6/20/07 20:34:56:296 CDT] 0000000a ThreadPoolMgr W WSVR0626W: The ThreadPool setting on the ObjectRequestBroker service is c
IVTL00401: 2 errors/warnings are detected in the file C:///webSphere/AppServer/profiles/AppSrv01\logs\server1\SystemOut.log
MTL 0 39: The Installation Verification Tool verification succeeded.
IVTL00801: The installation verification is complete.
▼

- 4. Installation logs can be found in **<WAS HOME>\logs\install\webservices**.
- 5. Profile creation logs are still found under **<WAS HOME>\logs\manageprofiles**.
- 6. If you run the versionInfo command now, it will display additional information about the Feature Pack.

# What you did in this exercise

This lab showed how to install the WebSphere Application Server V6.1 Feature Pack for Web Services and verify the installation.

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