IBM[®] WebSphere[®] Application Server V7 – LAB EXERCISE

WebSphere Application Server Network Deployment V7 Installation guide

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What this exercise is about

The objective of this lab is to show you how to install WebSphere Application Server Network Deployment V7 edition on distributed platforms. This lab will guide you through the installation process for WebSphere Application Server Network Deployment Package, including uninstalling previous images, installing the application server, and 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 V7 information center. In addition, the system must have the following resources available:

- Approximately 1GB of hard drive space to store the installation image
- The appropriate WebSphere Application Server V7 installation image
- A utility to extract the installation image
- Another 1.5GB of hard drive space for the installed product and profile creation

What you should be able to do

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

- Install WebSphere Application Server Network Deployment V7
- Verify WebSphere Application Server Network Deployment installation
- Create profiles for WebSphere Application Server V7

Introduction

WebSphere Application Server Version 7 builds on improvements made in Version 6.1. A few of the major enhancements introduced in this release are the capabilities to:

- New profile types
- Import security certificates during profile creation
- Set the server name during profile creation

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

Part 1: Perform the installation

In this section, you will perform the actual product installation for WebSphere Application Server V6.1. While it is possible to create a profile during the installation procedure, you will bypass that step in this lab and create your first profile after the installation is finished.

Part 2: Create a profile

During this piece of the lab, you will create an application server, using the new Profile Management Tool (PMT).

Part 3: Installation Verification

After creating the profile, you will use the installation verification tool to check the integrity of your installation.

Part 4: Optional – Uninstall WebSphere Application Server

If you have previously installed a WebSphere Application Server V6.1 driver, you should uninstall it before working with the new release.

Exercise instructions

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

Reference Variable	Windows Location		
<was_home></was_home>	C:\Program Files\IBM\WebSphere\AppServer	Linux /opt/IBM/WebSphere/AppServer	
		AIX /usr/IBM/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	

Part 1: Perform the installation

- 1. Start the WebSphere Application Server installation. This can be invoked by running the install command under the WAS directory.
 - ____a. In a command prompt, navigate to the <WAS_INSTALLER>\WAS directory.
 - ____b. Run the install command.
 - 2. Install WebSphere Application Server V7 using the wizard.
 - ____a. Review the information on the welcome screen and click Next.

🖄 IBM WebSphere Applical	tion Server 7.0.0.0
	Welcome to the IBM WebSphere Application Server Network Deployment install wizard.
WebSphere, software	This wizard installs IBM WebSphere Application Server Network Deployment. Additional information can be found at the <u>Information Centers and Support sites</u> <u>for WebSphere and related products</u> homepage.
	Click Next to continue.
InstallShield	
	< <u>B</u> ack <u>Next > C</u> ancel

- ____b. Review and accept the license agreement and click **Next**.
- ____ c. Verify that your system passes the prerequisite check and click **Next**. The product install can still continue if the prerequisite check fails, though the installation may not work properly.

3. The next screen allows you to select which features you want to install. If you do not opt to install the application server samples at this time, you will not be able to install the samples when you create the profiles later. WebSphere Application Server V7 introduces the ability to not install the non-English language packs; this can significantly reduce the size of the installation. For the purposes of this lab, ensure that the box next to **Install the sample applications** is checked and click **Next** to continue.

🖄 IBM WebSphere Applicat	ion Server 7.0	_ 🗆 🗙
WebSphere software	Optional Features Installation Select IBM WebSphere Application Server Network Deployment features to install. See the InstallGuide_en.html file in the docs directory for detailed descriptions of the optional features.	<u>*</u>
	✓ Install the Sample applications. The Sample include hath a sum of the same state of the same state of the same state.	
	The Samples include both source code files and integrated enterprise applications that demonstrate some of the latest Java (TM) Platform, Enterprise Edition (Java EE) and WebSphere technologies. The sample are recommended for installation to learning and demonstration environments, such as development environments. However, they are n recommended for installation to production application server environments.	s ot
	Install non-English language packages for the administrative console. Installs all the non-English language files needed for using the administrative console from machines with non-English locales.	
	☐ Inst <u>a</u> ll non-English language packages for the application server runtim	1e 👤
InstallShield		
	<u>≤ B</u> ack <u>N</u> ext > <u>C</u> ar	ncel

4. On the next screen, use the default installation directory, if you will be using other IBM Education Assistant hands-on lab exercises, they may assume this installation location. Click **Next**.

For Windows Type C:\Program Files\IBM\WebSphere\AppServer

For Type /opt/IBM/WebSphere/AppServer

🝟 IBM WebSphere Applicat	ion Server 7.0	
WebSphere, software	Installation Directory IBM WebSphere Application Server Network Deployment, Version 7. installed to the specified directory. Specify a different directory or click Browse to select a different insta	0 will be Ill location.
	Product installation location:	
	C:\Program Files\IBM\WebSphere\AppServer	B <u>r</u> owse
InstallShield	< <u>B</u> ack <u>N</u> ext >	<u>C</u> ancel

5. Next, you will have the option to choose which profile you want to create during this installation. Take a moment to read through the following descriptions of the different types of profiles:

Cell template

A cell template contains a deployment manager profile and a federated application server node profile. You can federate additional application server nodes into this deployment manager profile after initial creation of the cell profile. The cell profile template is new in V6.1.

Management profile

The management profile creates the servers and services necessary to manage your WebSphere environment. For a Base WebSphere topology, an AdminAgent is provided. For a Network Deployment topology, the Deployment Manager is provided for tightly coupled management and the Job Manager is provided for a more loosely coupled management of multiple Base application servers.

Application server profile

An application server profile has a default server, named server1. The application server can be created with the default application (which includes the snoop servlet and the hitcount servlet) and application samples installed. You can federate an application server or use it as a stand-alone application server.

Custom profile

A custom profile is an empty node that you can customize to include application servers, clusters, or other Java processes, such as a messaging server. A custom profile must be federated into a cell to make it operational.

Secure proxy

A secure proxy profile for a DMZ node.

NOTE: In order for a WebSphere Application Server environment to be complete, at least one profile must be created. This profile is called the default profile. The default profile is often created at install time. However, for this lab you will be install product binary and then creating profiles separately using ProfileManagment 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. ProfileManagment tool will provide Advance features to customize the profile where as if you choose to install profile along with binary install, profiles will be created with thee default values.

6. On the WebSphere Application Server environments panel, choose **None**. The message at the bottom of the panel warns you that at least one profile is required for WebSphere Application Server V7to be functional. This is fine because you will be creating profiles later in the lab. Click **Next**. A dialog box will ask you to confirm that you do not want to create any profiles. Click **Yes** to continue with the installation process.

-	WebSphere Application server environments
WebSphere, software	Select the type of WebSphere Application server environment to create during installation. Although only one environment type can be chosen, additional profiles can be created after installation using the Profile management tool. Environments
	Cell (deployment manager and a managed node)
Der"	Management
Pit-	Application Server
	Custom
	Secure Proxy
	None
	Description
	WebSphere Application Server version 7.0 requires at least one profile to be functional. Only select this option if one or more profiles will be created after installation completes successfully.
tallShield	
	- Deals Nexts Consel

7. Next is a new panel that gives you the option to create a repository for the centralized installation management feature. This will not be needed right now, so leave this unchecked. Click **Next**.

	Repository for Centralized Installation Managers
<mark>ebSphere,</mark> software	Choose whether to create a repository for centralized installation management. Deployment managers can access and install contents from this repository to other target locations. If created now, a copy of this installation package can be put in the repository. Use the WebSphere Installation Factory to create and populate a repository later.
	Create a repository for Centralized Installation <u>M</u> anagers.
llShield	[¹

8. Confirm that the installation summary information is accurate and click **Next** to begin the installation.

🖄 IBM WebSphere Applicat	tion Server 7.0	
	Installation Summary	1
WebSphere, software	Review the summary for correctness. Click Back to change values on previous panels. Click Next to begin the installation.	
PART	The following product will be installed:	
	 IBM WebSphere Application Server Network Deployment Product installation location: C:\Program Files\IBMWebSphere\AppServer 	
	The following features will be installed:	
	 Core product files Application server samples 	
internation of the	Total size:	
, 1996) and 1996 (1996) (1997) (1997)	● 1066 MB	-
InstallShield		
	< <u>B</u> ack <u>Next</u> > <u>C</u> ancel	

- 9. When the installation is complete, verify that the status on the completion screen indicates Success. Select the check box next to Create a new WebSphere Application Server profile using the Profile management tool and click Finish.
 - ____a. The Profile management tool can also be found under the C:\WebSphere\Appserver\bin\ProfileManagement\bin\PMT.exe.

🖄 IBM WebSphere Applicat	ion Server 7.0	_ 🗆 X
	Installation Results	
WebSphere, software	Success: The following product was installed successfully.	
	 IBM WebSphere Application Server Network Deployment - C:\Program Files\IBM\WebSphere\AppServer 	
	✓ Create a new WebSphere Application Server profile using the Profile Management Tool	
	Click Finish to launch the Profile Management Tool.	
X		
InstallShield		
	< <u>B</u> ack <u>N</u> ext > Eir	nish

Part 2: Create a profile

In this section of the lab, you will be using the Profile Management Tool to create an application server environment using the application server template for profile creation.

- _____1. Step through the wizard to create the cell profile.
 - ____a. On the welcome screen, click the button for Launch Profile Management Tool.

🚯 Profile Management Tool 7.0
File Window Help
😰 🚯 Profile Management Tool 🚯 Welcome
🚯 Welcome 🗙
Welcome to the Profile Management tool
Launch Profile Management Tool
This wizard creates run-time environments that are referred to as <i>profiles</i> . At least one profile must exist to have a functional installation.
An initial profile typically is created during the installation process. Use this wizard to create additional profiles that each contain a set of commands, configuration files, log files, deployable applications and other information that defines a single application server environment.
Click the Launch Profile Management Too/button or the Profile Management Tool tab above to begin managing your profiles.
The online information centers provide more information about the Profile Management tool and setting up typical topologies. WebSphere Application Server - Online information center link

- ____b. On the Profiles tab, choose the **Create** button.
- ____ c. Choose the **Application server** profile and select **Next**. See the previous section of the lab above for a review of the different profile types.

🚯 Profile Management Tool 7.0				_ 🗆 🗵
Environment Selection				
				ď
Select a specific type of environment to create.				
Environments:				
 WebSphere Application Server Cell (deployment manager and a federated application server) Management Application server Custom profile Secure proxy (configuration-only) 				
Description An application server environment runs your enterprise applications. W independently from all other application servers.	'ebSphere Application Server is	managed from its own a	dministrative console and	dfunctions
		< Back Next	> Finish	Cancel

____ d. On the profile creation options screen, select the radio button Advanced profile creation and click Next. Choosing to create the profile with advanced options will allow you to customize more features.

🚯 Profile Management Tool 7.0
Profile Creation Options
Choose the profile creation process that meets your needs. Pick the Typical option to allow the Profile Management tool to assign a set of default configuration values to the profile. Pick the Advanced option to specify your own configuration values for the profile.
C Typical profile creation
Create an application server profile that uses default configuration settings. The Profile Management tool assigns unique names to the profile, node, and host. The tool also assigns unique port values. The administrative console and the default application will be installed. You can optionally select whether to enable administrative security. The tool might create a system service to run the application server depending on the operating system of your machine and the privileges assigned to your user account.
Advanced profile creation
Create application server using default configuration settings or specify your own values for settings such as the location of the profile and names of the profile, node, and host. You can assign your own port values. You can optionally choose whether to deploy the administrative console and Sample applications, and create a Web server definition. You might have the option to run the application server as a system service depending on the operating system of your machine and the privileges assigned to your user account.
< Back Next > Finish Cancel

____e. On the next panel select all the check boxes, and click Next.

🚯 Profile Management Tool 7.0	
Optional Application Deployment) E
Select the applications to deploy to the WebSphere Application Server environment being created.	
Deploy the Sample applications.	
Install the Sample applications to use the application server and evaluate the latest technological ad deployment to production application server environments.	dvancements. The Sample applications are not recommended for
Deploy the administrative console (recommended).	
Install a Web-based administrative console that manages the application server. Deploying the adm option, the information center contains detailed steps for deploying it after the profile exists.	ninistrative console is recommended, but if you deselect this
Deploy the default application.	
Install the default application that contains the Snoop, Hello, and HitCount servlets.	
	< Back Next > Finish Cancel

_____f. On the Profile Name and Location panel, take all of the defaults and continue. 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 want to make the profile that you are creating the default profile. Click **Next** to continue.

🚯 Profile Management Tool 7.0
Profile Name and Location
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 Browse to select a different directory. Profile name:
App5rv01
Profile directory:
C:\Program Files\IBM\WebSphere\AppServer\profiles\AppSrv01
Browse
Create 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 hardware. Do not use this option for production servers.
Important: Deleting the directory a profile is in does not completely delete the profile. Use the manageprofiles command to completely delete a profile.
The following naming rules must be used: Names must start and end with alphabetic characters (A-Z, a-z), numbers (0-9), and underscores (_) only. Names may contain alphabetic characters (A-Z, a-z), numbers (0-9), periods (.), dashes (-) and underscores (_) only. Names must not contain spaces or these characters: / \ * , : ; = + ? <> % '"[] # \$ ^ {}()
< Back Next > Finish Cancel

____g. The next screen allows you to specify names for the deployment manager node, the host name, and new in this version the server name. Unique values will be generated based on the hostname of your system. Take the defaults on hit screen and click **Next**.

🚯 Profile Management Tool 7.0 📃 🗖
Node and Host Names
Specify a node name, a server name, and a host name for this profile. Names cannot begin with a ".", contain spaces, or contain any of the following characters: "/", "", "*", ",", ";", ";", "=", "+", "?", " ", "<", "&", "%", "", "", "", "]]>", "#", "\$", "^", "{", "}".
Node name:
AIMCP028Node01
Server name:
server1
Host name:
AIMCP028
 Node name: A node name is used for administration. If the node is federated, the name must be unique within the cell. Server name: A server name is a logical name for the application server. Host name: A host name is the domain name system (DNS) name (short or long) or the IP address of this computer. See the information center for profile naming and migration considerations. Online information center link
< Back Next > Finish Cancel

____h. The next panel allows you to enable administrative security and specify a username and password for the administrator. Leave the check box selected, and provide a user name of wsdemo. Type in wsdemo for the password. The sample applications user account also requires a password, type in wsdemo for that as well.

🚯 Profile Management Tool 7.0				_ 🗆 ×
Administrative Security				
Choose whether to enable administrative security. To enable security, supply a user name and passwor created in a repository within the application server. After profile creation finishes, you can add more u	rd for logging into isers, groups, or e	administrative (xternal reposite	tools. This adminis ories.	trative user is
☑ Enable administrative security				
User name:				
wsdemo				
Password:				
•••••				
Confirm password:				
•••••				
Uger name: samples Pass <u>w</u> ord:				
Confir <u>m</u> password:				
••••••				
See the information center for more information about administrative security. View the online information center				
	< <u>B</u> ack	<u>N</u> ext >	Einish	Cancel

_____i. Next is a set of new panels in WebSphere Application Server V7. The first panel allows a user to import an existing default personal certificate and root signing certificate. The default values will create these certificates from scratch, which was the behavior in past releases. Leave the options to create new certificates and click **Next**.

🚯 Pr	ofile Manager	nent Tool 7.0	_ 🗆 🗵
Sec	urity Certific	cate (Part 1)	E g
Choo certi then	ose whether to c ficates, proceed proceed to Part	reate a default personal certificate and root signing certificate, or import them from keystores. To create ner to Part 2 and provide the certificate information. To import existing certificates from keystores, locate the c 2 and verify the certificate information.	w 🔺
œ	Create a new de	afault personal certificate.	
0	Import an existi	ng default personal certificate.	
	-Default person Path:	al certificate	Province
	Pecculord		browse,
	Keystore type:		
	Keystore alias:		
•	Create a new ro	ot signing certificate.	
· ·	- Doot ciaping of	ng root signing tertinitate.	
	Path:		
			Browse,
		< Back Next > Finish	Cancel

_____j. The following panel can be used to modify the certificate information to create new certificates during profile creation. At the bottom of this panel the default keystore password can also be set to a unique value. For this example click **Next**.

🚯 Profile Management Tool 7.0	
Security Certificate (Part 2)	Å
Modify the certificate information to create new certificates during profile creation. If you are importing existing certificates from keystores, use the information to verify whether the selected certificates contain the appropriate information. If the selected certificates do not, click Back to import different certificates.	-
Restore Defaults	
Default personal certificate (a personal certificate for this profile, public and private key):	
Issued to distinguished name:	
cn=AIMCP028,ou=AIMCP028Node01Cell,ou=AIMCP028Node01,o=IBM,c=U5	
Issued by distinguished name:	
cn=AIMCP028,ou=Root Certificate,ou=AIMCP028Node01Cell,ou=AIMCP028Node01,o=IBM,c=U5	
Expiration period in years:	
Root signing certificate (personal certificate for signing other certificates, public and private key):	
Expiration period in years:	
Default <u>k</u> eystore password:	
••••	
Confirm the default keystore password:	
••••	
Note: The default value for the keystore is well documented in the Information Center and should be changed to protect the security of the keystore files and SSL configuration.	_
Back Next > Einish Cancel	el

____ k. The next panel lists all of the port values that will be assigned to the deployment manager, the application server, and the node agent. You can change the port values so long as there are no conflicts. The PMT performs automatic port conflict resolution and suggests ports on which it does not find any conflicts. For this lab, accept the suggested port assignments and click **Next** to continue.

🚯 Profile Management Tool 7.0	
Port Values Assignment	i a
The values in the following fields define the ports for the application Application Server or other programs might use the same ports. To a pefault Port Values Recommended Port Values Administrative console port (Default 9060): Administrative gonsole secure port (Default 9043): HTTP transport port (Default 9080): HTTPS transport port (Default 9080): HTTPS transport port (Default 9443): Bootstrag port (Default 2809): SIP port (Default 2809): SIP secure port (Default 5061): SOAP connector port (Default 8880): Administrative interprocess communication port (Default 9633)(X): SAS SSL ServerAuth port (Default 9401): CSIV2 ServerAuth listener port (Default 9403): CSIV2 ServerAuth listener port (Default 9403): CSIV2 ServerAuth listener port (Default 9403): Sgrvice integration port (Default 7276): Service integration MQ interoperability port (Default 5558):	n server and do not conflict with other profiles in this installation. Another installation of WebSphere avoid run-time port conflicts, verify that each port value is unique.
	< <u>Back</u> <u>N</u> ext > Einish Cancel

____I. On Windows platforms, the next display 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 7.0			_ 🗆
Windows Service Definition			
Choose whether to use a Windows service to run WebSphere Application Server. V Server, and configure startup and recovery actions.	Windows servi	ces can start and	stop WebSphere Application
Run the application server process as a Windows service.			
C Log on as a local system account.			
C Log on as a specified user account.			
User name:			
Administrator			
Password:			
Startup type:			
Automatic			v
The user account that runs the Windows service must have the following user - Log on as a service	rights:		
	< Back	Next >	Finish Cancel

____m. The next panel gives you 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, you will not be defining a Web server for this profile. Click **Next** to continue.

🚯 Profile Management Tool 7.0	
Web Server Definition	a la
Optionally create a Web server definition if you use a Web server to route requests for dynamic conter you can create a Web server definition from the administrative console or a script that is generated du	nt to the application server. Alternatively, ring Web server plug-ins installation.
Create a Web server definition	
Web server type:	
IBM HTTP Server	
Web server operating system:	
Windows	X
Web server name:	
webserver1	
Web server host name or IP address;	
AIMCP028	
Web server port (Default 80):	
80	
< Back N	ext > Finish Cancel

____n. The final screen allows you to review all of the profile creation details. Review the profile creation summary and click **Create** to create the profile.

🏟 Profile Management Tool 7.0	
Profile Creation Summary	E
	U
Review the information in the summary for correctness. If the information is correct, click Create to sta previous panels.	art creating a new profile. Click Back to change values on the
Application server environment to create: Application server	_
Location: C:\Program Files\IBM\WebSphere\AppServer\profiles\AppSrv01	
Disk space required: 200 MB	
Profile name: AppSrv01	
Make this profile the default: True	
Node name: AIMCP028Node01	
Server name: server1	
Host name: AIMCP028	
Deploy the Sample applications: True	
Deploy the administrative console (recommended): True	
Deploy the default application: True	
Enable administrative security (recommended): True	
Administrative console port: 9060	
Administrative console secure port: 9043	
HTTP transport port: 9080	
HTTPS transport port: 9443	
Bootstrap port: 2809	
SOAP connector port: 8880	
Run application server as a service: False	⊥ I
	Create Einish Cancel

____ o. After the profile creation has completed, insure that it was successful. Verify that the box next to Launch the First steps console is checked and click Finish.

Part 3: Installation verification

This section will cover Install verification using the Install Verification application.

- 1. From the previous section the First steps console will be launched. If not you can manually invoke First steps from the <WAS_Home>\profiles\AppSrv01\firststeps directory.
- 2. From the first steps console, choose **Installation verification**.

💠 WebSphere Application Server - First steps - AppSrv01	
WebSphere. Application Server	IBM.
First steps	
Installation verification	
Confirm that your server is installed and that it can start properly.	
Start the server	
Start the server and its applications.	
Administrative console	
Install and administer applications.	
Profile management tool Work with profiles.	
Information center for WebSphere Application Server	
Learn more about WebSphere Application Server.	
Migration wizard	
Migrate WebSphere Application Server 5.1, 6.0 or 6.1 to version 7.0. Migrate WebSphere Application Server Feature Pack for WebServices to version 7.0.	
Exit	

Note: Installation 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. Verify that there are no error messages. You may see some warnings, as in the example below. Close the profile creation tool as well.

💠 First steps output - Installation verification	- 🗆 ×
IVTL0010I: Connecting to the aimcp032.austin.ibm.com WebSphere Application Server on port: 9080	-
IVTL0020I: 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:WebSphereWppServer/profilesWppSrv01\bin\startServer.bat" server1 -profileName AppSrv01	
>ADMU0116I: Tool information is being logged in file	
C:WebSphere\AppServer\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.	
>ADMU3000I: Server server1 open for e-business; process id is 3436	
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	
IVTL0055I: JavaServer Pages files verification status: Passed	
Testing server using the following URL:http://aimcp032.austin.ibm.com:9080/ivt/ivtserver?parm2=ivtejb	=
IVTL0060I: Enterprise bean verification status: Passed	
IVTL0035I: The Installation Verification Tool is scanning the C:\WebSphere\AppServer\profiles\AppSrv01\logs\server1\SystemOut.log file for errors and wa	rnings
[10/19/07 15:27:41:703 CDT] 0000000a WSKeyStore W CWPKI0041W: One or more key stores are using the default password.	
[10/19/07 15:28:02:093 CDT] 0000000a ThreadPoolMgr W WSVR0626W: The ThreadPool setting on the ObjectRequestBroker service is deprecated.	
_IVTIN040I: 2 errors/warnings are detected in the C:WebSphere\AppServer\profiles\AppSrv01\logs\server1\SystemOut.log file	
To: The Installation Verification Tool verification succeeded.	
IVTL0080I: The Installation verification is complete.	
	•

Part 4: Reference – Perform an uninstallation

This portion of the lab will guide you through the uninstallation process. Much like the installation process for WebSphere Application Server, the uninstall process is guided by a wizard.

Note: Before uninstalling WebSphere Application Server V7, make sure you **stop** all the servers that you might have running. Uninstallation will not complete successfully if servers are still running.

1. Open a command prompt and navigate to the following directory.

<WAS_HOME>\uninstall

____2. Launch the uninstaller.

► Windows

uninstaller.exe

Linux UNIX ./uninstaller.bin

____3. The wizard will guide you through the uninstall process.

____a. On the Welcome screen, click Next.

🖄 IBM WebSphere Applica	tion Server 7.0.0.0
	Welcome to the IBM WebSphere Application Server Network Deployment uninstall wizard.
WebSphere, software	This wizard uninstalls IBM WebSphere Application Server Network Deployment. Additional information can be found at the <u>Information Centers and Support sites</u> for WebSphere and related products homepage.
	Click Next to continue.
InstallShield	
	< <u>B</u> ack <u>Next > Cancel</u>

- IBM WebSphere Application Server 7.0.0.0

 Image: Constraint of the server and the server an
- ____b. Select the option to **Remove all profiles** and click **Next**.

____ c. Verify the information on the Uninstallation summary screen and click **Next** to begin the uninstallation.

🖄 IBM WebSphere Applicat	ion Server 7.0.0.0 📃 🔲 🗙
	Uninstallation Summary
WebSphere, software	Review the summary for correctness. Click Back to change values on previous panels. Click Next to begin the uninstallation.
	The following product will be uninstalled:
	 IBM WebSphere Application Server Network Deployment - C:WebSphereVAppServer
	All existing profiles will be removed from the system.
	Click Next to begin the uninstallation.
InstallShield	
	< <u>B</u> ack <u>N</u> ext > <u>C</u> ancel

- ____d. The more profiles that you have on your system, the longer the uninstallation will take. The wizard will keep you informed of the uninstallation progress.
- ____e. After the uninstallation is complete, click **Finish** to close the wizard.
- 4. After the uninstall process is complete, you will notice that some of the directories still exist within the <WAS_HOME> directory. Manually delete the <WAS_HOME> directory, and, if you have a Windows operating system, reboot your computer. You have now successfully uninstalled IBM WebSphere Application Server Network Deployment V7.

What you did in this exercise

In this lab you learned how to install WebSphere Application Server Network Deployment V7. You used the Profile Management Tool to create a stand-alone application server profile. You also learned how to verify the installation and uninstall the product.