JD Edwards EnterpriseOne Tools

IBM WebSphere Portal for IBM i for Power Systems Guide

9.2

9.2

Part Number: E53529-05

Copyright © 2011, 2023, Oracle and/or its affiliates.

This software and related documentation are provided under a license agreement containing restrictions on use and disclosure and are protected by intellectual property laws. Except as expressly permitted in your license agreement or allowed by law, you may not use, copy, reproduce, translate, broadcast, modify, license, transmit, distribute, exhibit, perform, publish, or display any part, in any form, or by any means. Reverse engineering, disassembly, or decompilation of this software, unless required by law for interoperability, is prohibited.

The information contained herein is subject to change without notice and is not warranted to be error-free. If you find any errors, please report them to us in writing.

If this is software or related documentation that is delivered to the U.S. Government or anyone licensing it on behalf of the U.S. Government, then the following notice is applicable:

U.S. GOVERNMENT END USERS: Oracle programs (including any operating system, integrated software, any programs embedded, installed or activated on delivered hardware, and modifications of such programs) and Oracle computer documentation or other Oracle data delivered to or accessed by U.S. Government end users are "commercial computer software" or "commercial computer software documentation" pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, the use, reproduction, duplication, release, display, disclosure, modification, preparation of derivative works, and/or adaptation of i) Oracle programs (including any operating system, integrated software, any programs embedded, installed or activated on delivered hardware, and modifications of such programs), ii) Oracle computer documentation and/or iii) other Oracle data, is subject to the rights and limitations specified in the license contained in the applicable contract. The terms governing the U.S. Government's use of Oracle cloud services are defined by the applicable contract for such services. No other rights are granted to the U.S. Government.

This software or hardware is developed for general use in a variety of information management applications. It is not developed or intended for use in any inherently dangerous applications, including applications that may create a risk of personal injury. If you use this software or hardware in dangerous applications, then you shall be responsible to take all appropriate fail-safe, backup, redundancy, and other measures to ensure its safe use. Oracle Corporation and its affiliates disclaim any liability for any damages caused by use of this software or hardware in dangerous applications.

Oracle and Java are registered trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective owners.

Intel and Intel Inside are trademarks or registered trademarks of Intel Corporation. All SPARC trademarks are used under license and are trademarks or registered trademarks of SPARC International, Inc. AMD, Epyc, and the AMD logo are trademarks or registered trademarks of Advanced Micro Devices. UNIX is a registered trademark of The Open Group.

This software or hardware and documentation may provide access to or information about content, products, and services from third parties. Oracle Corporation and its affiliates are not responsible for and expressly disclaim all warranties of any kind with respect to third-party content, products, and services unless otherwise set forth in an applicable agreement between you and Oracle. Oracle Corporation and its affiliates will not be responsible for any loss, costs, or damages incurred due to your access to or use of third-party content, products, or services, except as set forth in an applicable agreement between you and Oracle.

Contents

ORACLE

	Preface	i
1	Overview	1
	Before You Begin	1
	Understanding the Installation Methodology	1
	Preparing the IBM i Server for IBM WebSphere Portal	2
2	Installing the WebSphere Portal Server	3
	Prerequisites	3
	Installing the Portal Server	4
3	Using the Migration Wizard	77
	Using the Migration Wizard	78
4	Database Configuration for WebSphere Portal	119
	Database Configuration for WebSphere Portal	119
5	Preparing DB2 for i	121
	Prerequisites	121
	Verifying Database Connections	128
	Configuring WebSphere Portal to Use a User Registry on IBMi	129
	Configuring a Standalone LDAP User Registry on IBMi	129
	Configuring an External HTTP Server for WebSphere Portal v8.5 (IBM i HTTP Server only)	143
6	Appendix A - Start and Stop Portal Servers	159
	Overview	159
	Starting and Stopping the WebSphere Portal Administration Server (server1)	159
	Starting and Stopping the WebSphere Portal Server	160
7	Appendix B - Example of a PortalUsers.ldif File	161
	Example of a PortalUsers.ldif File	161

8 Glossary 163 DBCA 163 JAR file 163 JDBC 163 LDAP directory 163 MTR 163 WAR file 163 WAS 164



Preface

Welcome to the JD Edwards EnterpriseOne documentation.

Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at http://
www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc

Access to Oracle Support

Oracle customers that have purchased support have access to electronic support through My Oracle Support. For information, visit http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info Or visit http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs if you are hearing impaired.

Related Information

For additional information about JD Edwards EnterpriseOne applications, features, content, and training, visit the JD Edwards EnterpriseOne pages on the JD Edwards Resource Library located at:

http://learnjde.com

Conventions

The following text conventions are used in this document:

Convention	Meaning
Bold	Boldface type indicates graphical user interface elements associated with an action or terms defined in text or the glossary.
Italics	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
Monospace	Monospace type indicates commands within a paragraph, URLs, code examples, text that appears on a screen, or text that you enter.
> Oracle by Example	Indicates a link to an Oracle by Example (OBE). OBEs provide hands-on, step- by-step instructions, including screen captures that guide you through a process using your own environment. Access to OBEs requires a valid Oracle account.



1 Overview

Before You Begin

This document describes the process of installing and configuring WebSphere Portal Server v8.5 on a single *IBM i* machine. This document steps the installer through the installation, upgrade, and configuration of the WebSphere Portal Server environment and its related components. The document includes sections on databases transfer, security, and LDAP.

Starting with WebSphere Portal v8.5, the initial configuration is stored in the embedded Apache Derby database. You need to transfer this database to the native *IBM i* database.

Before you begin:

- The IBM i operating system must be on the i7 or V6R1 level.
- Refer to the JD Edwards EnterpriseOne Minimum Technical Requirements for EnterpriseOne Collaborative Portal, and install an updated group PTF, if necessary. See *Minimum Technical Requirements* in this guide for information on how to access the Minimum Technical Requirements document for Collaborative Portal v8.5.
- Install a Windows workstation on the same LAN Segment as your IBM i machine.
- During this installation process, you will IPL your IBM i machine to activate the Group PTFs. Check with your
 system administrator before you begin. Use the wrkptfgrp command to verify all PTF levels before installing any
 software. Verify you have all require PTFs media.
- During the installation, you will be prompted for the LDAP Administrator's password. This is the IBM Directory Server (LDAP) Administrator account, not the QSECOFR account. Obtain the password from your system administrator.
- Stop all WebSphere Application Server jobs which are running, such as QEJBSVR or QWAS7, it is recommended to stop the QWAS85 sub system before proceeding with the installation.

Understanding the Installation Methodology

The recommended installation method is the same for JD Edwards EnterpriseOne as for IBM. The installation includes this sequence of tasks:

- 1. Install WebSphere Application Server 8.5.5.6 (WAS 8.5.5.6)
- 2. Install WebSphere Fix Pack 11 (or higher as listed in the MTR)
- 3. Install and configure the WebSphere Portal Server v8.5
- 4. Transfer Apache Derby database to DB2 for i /400 (optional)
- 5. Enable security (optional)
- 6. Verify the installation



This section includes information for setting up the operating system of your *IBM i* server for IBM WebSphere Portal v8.5. Other components might require additional steps; see the product documentation for the specific components you want to install for information.

WebSphere Portal can be installed locally or remotely using a Windows workstation (recommended).

You need the following information to install remotely:

- Microsoft Windows 2003 or Windows 2008, 2008 R2 or Windows XP, Windows 7
- Workstation CD-ROM drive (optional)
- TCP/IP connection to the i5/OS system where you will install WebSphere Portal v8.5
- The IBM i server must be in an unrestricted state
- A valid user ID and password on the IBM i system
- A user profile with a user type (user class) of *ALLOBJ and *SECADM to install and configure WebSphere Portal v8.5

You need the following information to install locally:

- IBM i /OS CD-ROM drive (optional)
- The *IBM i* server must be in an unrestricted state
- A valid *IBM i* user ID and password
- A user profile with a user type (user class) of *ALLOBJ and *SECADM to install and configure WebSphere Portal v8.5



2 Installing the WebSphere Portal Server

Prerequisites

You must follow the prerequisites in the section before installing the WebSphere Portal Server.

Minimum Technical Requirements

Before you install Portal v8.5, you must first install WebSphere Application Server 8.5.5.6 and the latest supported fix pack listed in the JD Edwards EnterpriseOne HTML Web Server Minimum Technical Requirements (MTRs). These MTRs are available on My Oracle Support in document ID 705409.1 and can be accessed at this link:

https://support.oracle.com/rs?type=doc&id=705409.1

Installing WebSphere Application Server 8.5.5.6

To install WebSphere Application Server 8.5.5.6, refer to Chapter 3: Installing and Configuring WebSphere Application Server 8.5.5.6 in the JD Edwards EnterpriseOne HTML Web Server Reference Guide for iSeries -Based Systems and WebSphere Application Server 8.5.5.6. This document is available on My Oracle Support in document ID 705495.1 and can be accessed at this link:

https://support.oracle.com/rs?type=doc&id=705495.1

If you are using same single physical machine for both the Portal and the HTML Server, you cannot install the JD Edwards EnterpriseOne HTML Web Server (also called JAS) to the same profile as that of Portal. By default, WebSphere Portal v8.5 creates a separate profile called wp_profile.

References

IBM product documentation for Portal v8.5:

http://www-10.lotus.com/ldd/portalwiki.nsf/xpViewCategories.xsp?lookupName=IBM%20WebSphere%20Portal %207%20Product%20Documentation&SessionID=CWFHNIG8CY

IBM WebSphere Application Server 8.5 Info Center:

http://publib.boulder.ibm.com/infocenter/wasinfo/v7r0/index.jsp

IBM Portal v8.5 Hardware and Software Requirements:

http://www-01.ibm.com/support/docview.wss?uid=swg27007791



Installing the Portal Server

To begin the installation:

- 1. Download the WebSphere Portal 8.5 software from the IBM support site.
- 2. From either the Setup CD or directory, you can use various methods to launch the installer, as shown in this table:

Installation Method	Command and Description
Graphical user interface	./install.bat
Console mode	./install.bat -console
Silent install	 ./install.bat -options "path_to_file/response_filename" where path_to_file is the full path to the response file, and where response_filename is the name of the file. A sample install response file (installresponse.txt) and a sample uninstall response file (uninstallresponse.txt) are located in the root directory of the Setup CD. Important: Do not place the response file in a path that contains a space and do not put a space in the file name.

Note: If the installation program does not detect a WebSphere Application Server instance that you know exists, exit the installation program and re-run it using command line options to specify the WebSphere Application Server instance location. For example: ./install.bat -W was.undetectedWas="/my/WAS/location" Upon execution, by default the installer creates a separate profile called wp_profile. This profile is used to host the Portal contents. Therefore, you should not install Portal into an existing profile with other applications installed.

To run the installer interactively (via GUI), export the DISPLAY using a XWindows Server, using the following syntax:

```
set DISPLAY=IP:0 (i.e set DISPLAY=10.139.157.63:0)
export DISPLAY
```



3. Click the **install** icon to begin the installation.



IBM Installation Manager

Licensed Materials - Property of IBM Corp. ^{(IIII}) IBM Corporation and other(s) 1991, 2013. IBM is a trademark of IBM Corp.; Built on Eclipse is a trademark of Eclipse Foundation, Inc. Java and all Java-based trademarks and logos are trademarks or registered trademarks of Oracle Corporation and/or its affiliates; and all terms are trademarks or registered trademarks in the United States, other countries, or both.





4. The IBM Installation Manager presentation screen will appear.

	IBM Installation Manager		
nstall Packages			
Select packages to install:			
Installation Packages	Status	Vendor	License Key Type
🔻 🗹 🧊 IBM® Installation Manager			
🖬 🕅 Version 1.7.1	Will be installed	IBM	No key required
 □ Show all versions		Check for Other V	Versions, Fixes, and Extensions
] Show <u>a</u> ll versions		Check for Other \	Versions, Fixes, and Extensions
그 Show <u>a</u> ll versions P etalls		Check for Other \	Versions, Fixes, and Extensions
] Show <u>a</u> ll versions)etails BM @ Installation Manager 1.7.1		Check for Other \	Versions, Fixes, and Extensions
Show <u>a</u> ll versions Tetails BM® Installation Manager 1.7.1 The IBM® Installation Manager is a tool that you can us	e to install and maintain your software p	Check for Other \ ackages. <u>More info</u>	Versions, Fixes, and Extensions
Show <u>a</u> ll versions Details BM® Installation Manager 1.7.1 The IBM® Installation Manager is a tool that you can us Repository: /u01/software/jdkrpm/SETUP/IIM/linux_x86	e to install and maintain your software p 5_64	Check for Other \ ackages. <u>More info</u>	Versions, Fixes, and Extensions
Show <u>a</u> ll versions Details BM® Installation Manager 1.7.1 The IBM® Installation Manager is a tool that you can us Repository: /u01/software/jdkrpm/SETUP/IIM/linux_x86	e to install and maintain your software p 6_64	<u>C</u> heck for Other \ ackages. <u>More info</u>	Versions, Fixes, and Extensions
Show <u>a</u> ll versions Setails BM® Installation Manager 1.7.1 The IBM® Installation Manager is a tool that you can us Repository: /u01/software/jdkrpm/SETUP/IIM/linux_x86	e to install and maintain your software p 6_64	<u>Check for Other \</u> ackages. <u>More info</u>	Versions, Fixes, and Extensions
Show <u>a</u> ll versions Details BM® Installation Manager 1.7.1 The IBM® Installation Manager is a tool that you can us Repository: /u01/software/jdkrpm/SETUP/IIM/linux_x86	e to install and maintain your software p 6_64	<u>C</u> heck for Other \ ackages. <u>More info</u>	Versions, Fixes, and Extensions



5. Select the version package to be installed.

	IBM Installation Manager	1-1
Install Packages		-
Read the following lic	ense agreements carefully.	1
Install	nses Location Summary	
International Program	License Agreement	
Part 1 - General Terms		III O
BY DOWNLOADING, IN AGREES TO THE TERM THAT YOU HAVE FULL	STALLING, COPYING, ACCESSING, CLICKING ON AN "ACCEPT" BUTTON, OR OTHERWISE USING THE PROGRAM, LICENSEE IS OF THIS AGREEMENT. IF YOU ARE ACCEPTING THESE TERMS ON BEHALF OF LICENSEE, YOU REPRESENT AND WARRANT AUTHORITY TO BIND LICENSEE TO THESE TERMS. IF YOU DO NOT AGREE TO THESE TERMS,	8
* DO NOT DOWNLOA	D, INSTALL, COPY, ACCESS, CLICK ON AN "ACCEPT" BUTTON, OR USE THE PROGRAM; AND	
* PROMPTLY RETURN ⁻ A REFUND OF THE AM	THE UNUSED MEDIA, DOCUMENTATION, AND PROOF OF ENTITLEMENT TO THE PARTY FROM WHOM IT WAS OBTAINED FOR OUNT PAID. IF THE PROGRAM WAS DOWNLOADED, DESTROY ALL COPIES OF THE PROGRAM.	
1. Definitions		
"Authorized Use" - the users, millions of serv	specified level at which Licensee is authorized to execute or run the Program. That level may be measured by number o ice units ("MSUs"), Processor Value Units ("PVUs"), or other level of use specified by IBM.	f
"IBM" - International Bu	siness Machines Corporation or one of its subsidiaries.	
"License Information" at www.ibm.com/soft with the Program.	("LI") - a document that provides information and any additional terms specific to a Program. The Program's LI is available ware/sla. The LI can also be found in the Program's directory, by the use of a system command, or as a booklet included	
"Program" - the follow and modules, 3) audio	ng, including the original and all whole or partial copies: 1) machine-readable instructions and data, 2) components, files, -visual content (such as images, text, recordings, or pictures), and 4) related licensed materials (such as keys and	•
de en company a contra tri e con t		1000
I <u>a</u> ccept the terms	in the license agreement	All

6. Accept the license agreement terms and click the Next button.

۵		IBM Installation Manager	
	Install Pac	kages on for Installation Manager.	-
	Install	Licenses Location Summary	
	Once	installed, IBM Installation Manager will be used to install, update, modify, m	nanage and uninstall your packages.
	Installation <u>M</u> a	nager Directory: //u01//IBM/InstallationManager/eclipse	Browse
	Disk Space	Information	
	Volume	Available Space	
	1	70.66 GB	
2)		< Back Next > Install Cancel



7. If it is not already listed, enter the Installation Manager Directory and click the Next button.

Note: Any file path in this chapter that begins with /u01/, such as the path in the above screenshot, should be replaced with /QIBM/.

IBM Installatio	n Manager	
Install Packages		
Review the summary information.		
Install Licenses Location Summary		
Target Location		
Package Group Name: IBM Installation Manager		
an mana ang ang ang ang ang ang ang ang ang		
Packages		
Packages		
Environment	Disk Space Information	
Arabic, Brazilian Portuguese, Croatian, Czech, Danish, Dutch, English,		Total Available Space
Korean, Norwegian, Polish, Russian, Simplified Chinese, Slovak,	Τ	70.66 GB
Slovenian, Spanish, Swedish, Thai, Traditional Chinese, Turkish	Total Download Size: 137 36 MB	
	Total Installation Size: 253.02 MB	
Repository Information		



8. Review the summary information for the target location and click the Install button.

H IBM Installatio	n Manager		
Install Packages			_
Review the summary information.			E
Install Licenses Location Summary			
Target Location			
Package Group Name: IBM Installation Manager			
Installation Directory: /u01/IBM/InstallationManager/eclipse			
Packages			
Packages			
Environment	Disk Space Information		
Arabic, Brazilian Portuguese, Croatian, Czech, Danish, Dutch, English, Finnish, French, German, Greek, Hebrew, Hungarian, Italian. Iabanese.		Total Available S	pace
Korean, Norwegian, Polish, Russian, Simplified Chinese, Slovak,	T	70.6	6 GB
novenian, spanish, swedish, mai, iradiuonai Chinese, lurkish	Total Download Size, 127 26 MD		
	Iotal Download Size: 157.56 MB		
Repository Information	Total Installation Size: 253.02 MB		
	Total Installation Size: 253.02 MB		
alling.: Retrieving files. 92 MB of 137 MB (68%) completed.	Total Installation Size: 253.02 MB		



9. A progress bar will appear along the bottom of the screen.

	IBM Installation Manager	
↔ Install Packages		-
	The packages are installed. <u>View Log File</u>	
	The following package was installed:	
	▼ ^e ea IBM Installation Manager	
	IBM® Installation Manager 1.7.1	
	Click on "Restart Installation Manager" to launch the new Installation Manager and to start installation of other package(s).	
	error en de la constante de la const	
0		Restart Installation Manager



10. An Install Packages screen will appear providing a summary of the installed packages. Click the Restart Installation Manager button to launch the Installation Manager and to start installation of any additional packages.

2 dnptlx110.us.oracle.com:1 (root) - VNC Viewer	and the second sector distants and	
🐥 Applications Places System 🛞 🛛 🗾	<u></u>	🍵 11:28 AM 🔮
	IBM Installation Manager	
File Help		
IBM Installation Manager		
Ū		
6	The start start	
	Install	
	Install software packages.	
e	Update	
	Discover and install updates	
	and fixes to installed	
	Roll Back	
	Modify	
	Change installed software	
	packages by adding or Uninstall	
	removing features and	
	Tuncuons.	
THEF		
🔗 🛛 🕲 linux_x86_64 - File Browser 👘 🙆 IBM Insta	allation Manager	0

11. If there are no additional software packages to install, click Update to proceed.

<u>لە</u>	Preferences			×
type filter text	Updates	⇔ • c	5 ° '	•
Repositories Appearance Files for Rollback → Help ✓ Internet FTP Proxy HTTP Proxy Passport Advantage	The Installation Manager can optionally search for updates to itself whenever any of the following pages a page: Install Packages Modify Packages Update Packages Search for Installation Manager updates	re opened f	rom th	e SI
(III III III III III III III IIII III		estore <u>D</u> efa	ults	1
0	Cance	el 🗌	ок	

12. Select the checkbox for Search for Installation Manager updates and then click OK.

V2 dnptlx110.us.oracle.com:1 (root) - VNC Viewer	
Applications Places System 🥪 🗾	籣 11:31 AM 🚽 🛙
IBM Installation Manager	
<u>File H</u> elp	
IBM Installation Manager	
Progress Information Updating Installation Manager	
K 3 Cancel	
Change installed software packages by adding or removing features and functions.	
IEM.	
🛞 🐚 linux_x86_64 - File Browser 🔃 🙆 IBM Installation Manager	9



13. A popup window with a progress bar will appear.

	IBM Installation Manager	
<u>F</u> ile <u>H</u> elp		
IBM Installation Manager		
The second s		
A .2	Restart Installation Manager	
and the sub-	Installation Manager has been updated to version: 1.8.4	
	Click OK to restart it.	
a state of the second se		
	OK	
	Cancel	
	Carcer	
	Change installed software	
	removing features and	
LEM.		



14. When the Installation Manager has been updated, a popup message will appear. Click OK to restart Installation Manager in the newly installed version.





15. Select File | Preferences.

	Preferences	×
type filter text	HTTP Proxy	↓ ↓ ↓
Repositories Appearance Files for Rollback ▷ Help ☞ Internet FTP Proxy HTTP Proxy Passport Advantage Updates	Specify a proxy server for HTTP protocol. Enable proxy server Proxy host Proxy port 80 Use SOCKS SOCKS proxy host SOCKS proxy port 0	
	Restore Det	faults Apply
0	Cance	el OK

16. Select the checkbox for Enable proxy server, enter the proxy information and click OK.

V2 dnptlx110.us.oracle.com:1 (root) - VNC Viewer	
🗍 Applications Places System 🥪 🛛 🗐	籣 11:30 AM 📓
IBM Installation Manager	
Eile Help	
IBM Installation Manager	
BM Installation Manager	
A new version of IBM Installation Manager is available. If you do not update the Installation Manager you will not be allowed to install some packages that require the new version of the Installation Manager. Do you want to update the Installation Manager? No Details >> es Cancel	
Change installed software packages by adding or removing features and functions. Uninstall	
IBM.	
S linux_x86_64 - File Browser	9

17. If a newer version of the IBM Installation Manager is required, a popup window will appear giving you the option to update Installation Manager. Click Yes.





18. Select File | Preferences.

<mark></mark>	inptix110.us.oracle.com:1 (root	ot) - VNC Viewer	
4	Applications Places S	System 🥱 🗾	1:22 PM 🚮 🖾
١		Preferences	× ×
F		Repositories 😓 - 😓 - 🗸	r>
	Repositories Appearance Files for Rollback Help Internet Passport Advantage Secure Storage Updates	Repositories Location Add Repository Edit Repository Edit Repository Edit Repository Remove Repository Move Up Move Down Gear Credentials Test Connections	
	3	Restore Defaults Apply Cancel OK]
	IBM.		
1	🕚 [u01 - File Browser]] BM Installation Manager	

19. Click the Add Repository button.

V2 dnptlx110.us.oracle.com:1 (root) - V	NC Viewer			
Applications Places System	em 🥱 🛛 🖻 🗖			1:24 PM 🔮
	Select a Reposito	ry 🗙	×	
Software	jdkrpm WAS8552		\$ • \$ • •	
<u>P</u> laces	Name	▼ Modified		
豫 root	芦 atoc	04/11/2014	Add <u>R</u> epository	
😻 Desktop	芦 files	04/14/2014	Edit Repository	
🔿 File System	📁 Fixes	04/14/2014	Deserve Deserved and	
	📁 native	04/11/2014	Remove Repository	
	📁 Offerings	04/11/2014	Move <u>U</u> p	
	📁 plugins	04/11/2014	Move Down	
	🖉 repository.config	04/14/2014		
			<u>Clear Credendals</u>	
			<u>T</u> est Connections	
Add Remove	repos	sitory.config;diskTag.inf;*.jar;*.zip		
		X Cancel	ons to packages (including the	
	Search service reposito	ries during installation and		
			Restore Defaults Apply	
0			Cancel OK	
	and the second s			5.
IBM.				and the second
😵 [u01 - File Browser]	🕒 IBM Installation	Manager		

20. Select a Repository by clicking on repository.config. and then click OK.

V2 dnptlx110.us.oracle.com:1 (root) - VNC Viewer		
💠 Applications Places System 🥪 🛛 📄		1:24 PM 🔮
Add Repository X	×) _ _ _ _ _ _
Add a repository Specify a repository and add to the repository preference list.	\$ • \$ • •	
Repository:	Connection Add Repository	
/u01/software/jdkrpm/WAS8552/repository.config	Edit Repository	
	Remo <u>v</u> e Repository Move <u>Up</u>	
	Move Down	
Cancel OK	Iest Connections	
Service repositories are remote locations where updates rex Installation Manager itself) are stored. Installation and	ctensions to packages (including the	
	Restore Defaults Apply	
0	Cancel OK	
IBM.		J
🜒 [🐚 [u01 - File Browser]		

21. Enter the repository path to add a repository and then click OK.

V2 d	nptlx110.us.oracle.com:1 (roo	t) - VNC Viewer	
-	Applications Places S	iystem 🥱 🗾	1:25 PM
۵		Preferences	
ty	pe filter text	Repositories 💠 - 🗸	×
	Repositories Appearance Files for Rollback	Repositories: Location Add <u>Repository</u>	
Þ	Help	/u01/software/jdkrpm/WAS8552/repository.config Edit Repository	
Þ	Internet Passport Advantage Secure Storage Updates	Remove Repository Move Up Move Down Clear Credentials Test Connections	
		Service repositories are remote locations where updates or extensions to packages (including the Installation Manager itself) are stored.]
0	0	Cancel OK	
	IBM.		
1	u01 - File Browser] 🕘 IBM Installation Manager	

22. Repeat the process to add another repository. Click the Add Repository button.

V2 dnptlx110.us.oracle.com:1 (root) -	VNC Viewer			
💠 Applications Places Sys	tem 🥱 🛛 📃			1:26 PM 📓
٩	Select a Repository	×	×) _ox
software	jdkrpm WP85_Server		\$ • \$ • •	
Places	Name	▼ Modified		
🐞 root	芦 atoc	04/24/2014	Add <u>Repository</u>	
😻 Desktop	芦 files	04/24/2014	Edit Repository	
🗇 File System	📁 native	04/24/2014	Remove Removitant	
~	📁 Offerings	04/24/2014	Remo <u>v</u> e Repository	
	📁 plugins	04/24/2014	Move <u>U</u> p	
	🔊 repository.config	04/24/2014	Move Down	
	►.			
	2014			
			Test Connections	
Add Bernove	repository.co	onfig;diskTag.inf;*.jar;*.zip		
		X Cancel	ons to packages (including the	
	✓ Search service repositories dur	ring installation and		
			Restore Defaults	
0			Cancel OK	
				d a
IBM.				
🛷 🐚 [u01 - File Browser]	🕒 IBM Installation Manag	er		



23. Select repository.config. and then click OK.

V2 dnptlx110.us.oracle.com:1 (root) - VNC Viewer	The STATE OF	
🗍 Applications Places System 🥪 🛛 🗐		1:26 PM 🔮
Add Repository X	×	
Add a repository	\$ • \$ • •	
Specify a repository and add to the repository preference list.		
Repository:	Connection Add Bepository	
/u01/software/jdkrpm/WP85_Server/repository.config		
	Remo <u>v</u> e Repository	
	Move <u>Up</u>	
	Move Down	
	<u>C</u> lear Credentials	
Cancel OK	Test Connections	
35	-12	
Service repositories are remote locations where updates or e	tensions to packages (including the	
Search service repositories during installation and		
	Restore <u>D</u> efaults Apply	Contraction of the second
		College Street Street
0	Cancel OK	
TRM		Surgers .
		and the second
📀 [u01 - File Browser] 🙆 IBM Installation Manager		9

24. Enter the repository path to add a repository and then click OK.

Ve dnptlx110.us.oracle.com:1 (roo	t) - VNC Viewer	
💠 Applications Places S	System 🥱 🗾	1:27 PM
	Preferences X	_ DX
type filter text	Repositories 💠 - 🗸	
type filter text Repositories Appearance Files for Rollback Help Internet Passport Advantage Secure Storage Updates	Repositories Location Connection Add Repository Image: Add Add Add Add Add Add Add Add Add Ad	
	Restore Defaults Apply	Contraction of the local division of the loc
0	Cancel OK	
IBM.		
🚱 [u01 - File Browser] 🙆 IBM Installation Manager	

25. Repeat the process to add another repository. Click the Add Repository button.

dnptlx110.us.oracle.com:1 (root) - V	NC Viewer				
Applications Places Syste	m 🥱 👩			1:27 PM 📓	
<u>a</u>	Select a Repository	×)	
jdkrpm WS_SI	DK_JAVA_TECH_7.0.6.1.zip_FILES	•	\$ • \$ • •		
<u>P</u> laces	Name 🔻	Modified			
🝞 root	📁 atoc	04/01/2014	Add <u>R</u> epository		
😻 Desktop	芦 files	04/01/2014	Edit Repository		
🗇 File System	芦 native	04/01/2014	Romovo Bonository		
	芦 Offerings	04/01/2014	Remove Repository		
	📁 plugins	04/01/2014	Move <u>U</u> p		
	🖉 repository config	04/01/2014	Move Down		
			Clear Credentials		
			<u>G</u> iear Credendais		
			<u>T</u> est Connections		
Add repository.config;diskTag.inf;*.jar;*.zip					
Seancel Ins to packages (including the					
☑ <u>S</u> earch service repositories during installation and					
			Restore Defaults Apply	and the second s	
0			Cancel OK		
			The second s		
IBM					
🖗 [u01 - File Browser]	🙆 IBM Installation Manager				
26. Select repository.config. and then click OK.

V2 dnptlx110.us.oracle.com:1 (root) - VNC Viewer	TA TAKE THE	
💠 Applications Places System 🥪 🛛 🗐		1:28 PM 📓 🛙
Add Repository X	×	
Add a repository Specify a repository and add to the repository preference list.	\$ • \$ • •	
Repository:	Connection Add <u>R</u> epository	
/u01/software/jdkrpm/WS_SDK_JAVA_TECH_7.0.6.1.zip_FILES/IBMJAVA7/reg V Browse	Edit Repository	
	Remo <u>v</u> e Repository	
	Move <u>Up</u>	
	<u>M</u> ove Down	
Cancel OK	<u>Clear</u> Credentials	
	lest Connections	
Service repositories are remote locations where updates or ex Installation Manager itself) are stored.	tensions to packages (including the	
	Restore Defaults	
0	Cancel OK	
IBM.		
🚱 [u01 - File Browser] 🚺 IBM Installation Manager		

27. Enter the repository path to add a repository and then click OK.

V2 dnptlx110.us.oracle.com:1 (roc	ot) - VNC Viewer		AL THE	
👍 Applications Places S	System 🥱 🗾	10		1:29 PM 🔮 🛙
	Preferences		×	
type filter text	Repositories		\$ • \$ • •	
Repositories Appearance Files for Rollback Help Internet Passport Advantage Secure Storage Updates	Repositories: Location /u01/software/jdkrpm/WAS8552/repository.config /u01/software/jdkrpm/WP85_Server/repository.config /u01/software/jdkrpm/WS_SDK_JAVA_TECH_7.0.6.1.zip_F Service repositories are remote locations where updates or elinstallation Manager itself) are stored. Search service repositories during installation and	Connection	Add Repository Edit Repository Remove Repository Move Up Move Down Clear Credentials Test Connections including the Refaults Apply	
IBM.				
😵 [🕲 [u01 - File Browser] 🕒 IBM Installation Manager			9



28. Add any additional repositories. When finished, click OK.

V2 dnptlx110.us.oracle.com:1 (root) - VNC Vie	ewer		
Applications Places System 餐) 🖉 🗌	1	1:29 PM 🔮 🛙
۵	i i i i i i i i i i i i i i i i i i i	IBM Installation Manager	
<u>F</u> ile <u>H</u> elp			
IBM Installation Manager			
	2	Install software packages.	
		Update Discover and install updates and fixes to installed software packages.	
	P	Modify Change installed software packages by adding or removing features and functions.	
IBM.			
🛞 [u01 - File Browser]	🕒 IBM Installation Ma	anager	0

29. Select Install.

					-
• 4	Applications Places System 💝 🗾			1:32	PM §
)	IBM	Installation Manager			
-	Install Packages			N	_
	Select packages to install:				
	catempter Austrial Angle = 300 An Constant Au				
	Installation Packages	Status	Vendor	License Key Type	-
	🗢 🗹 🧊 IBM WebSphere Application Server Network Deployr	ment			
	🗆 🕠 Version 8.5.5.2		IBM		
	🗆 📢 Version 8.5.5.3		IBM		
	☑ 🕼 Version 8.5.5.4	Will be installed	IBM		=
	🗆 🕼 Version 8.5.5.5		IBM		
	🗆 📢 Version 8.5.5.6		IBM		
	🗆 🖏 Version 8.5.5.7		IBM		
	🗆 😱 Version 8.5.5.8		IBM		
	🗢 🗹 🕼 IBM WebSphere SDK Java Technology Edition (Optio	nal)			
	Version 7 0 6 1	Will be installed	IBM		⊡
	4		ß	.	
	Show <u>a</u> ll versions		Check for Other \	/ersions, Fixes, and Extension	s
	Details				-
	IBM WebSphere Portal Server 8.5.0.0				
	IBM® WebSphere® Portal Server provides a single access p	oint to web content and applications	s, while delivering diff	ferentiated, personalized	Ξ
	experiences for each user. WebSphere Portal supports work	flows, content management, simpli	fied usability and adm	ninistration, development	
	social business. More info	These capabilities provide an excep	buonal web experienc	ce to help you become a	
	Repository: /u01/software/jdkrpm/WP85 Server				
?)		< Back Next >	Install Cano	el
					1532
1	🔨 [u0] - Eile Prowcor]			~	

30. Select the packages and the versions to be installed.

V2 dnptlx110.us.oracle.com:1 (root) - VNC Vie	ewer			
💠 Applications Places System 🍯)			1:33 PM 🔮
Θ	IBM Insta	allation Manager		- X
Install Packages Select packages to install: Installation Packages		Status	Vendor	License Key Type
	tion Server Network Deployment			
□ 🖓 Version 8.5.5.2			IBM	
🗆 🕠 Version 8.5.5.3	🖄 Prog	ress Information		
Image: Constraint of Constraints Image: Constraint of Constrats Image:	Preparing IBM WebSphe	ere Application Server N	etwork Deployment /BMJAVA7 (accessing) Cancel Check for Other Ve	ersions, Fixes, and Extensions
IBM® WebSphere® Portal Serve experiences for each user. Web tools and Web 2.0, open standar social business. <u>More info</u>	r provides a single access point to Sphere Portal supports workflows, ds, security, and scalability. These	web content and applic content management, s capabilities provide an	cations, while delivering diffe simplified usability and admi exceptional web experience	rentiated, personalized nistration, development to help you become a
 Repository: /u01/software/jdkr 	pm/WP85_Server			•
1			< <u>B</u> ack <u>N</u> ext	Install Cancel
🛷 [🚳 [u01 - File Browser]	BM Installation Manager)		

31. A popup Progress Information window will appear.

Applications Places System				(
Applications Places System 😽	2.5			1:34 PM 📓
IBM Installation Manage	r			
Install Packages Select the fixes to install.				*
Fixes	Recommended	Vendor	Status	- T
		IBM		
8.5.5.0-WS-WASND-IFPI35180 8.5.5000.20150304_1154	¥	Manager 22		
☑ 🕼 8.5.5.4-WS-WASND-AllOSExceptIBMI-IFPI41114 8.5.5004.20150	05: 🗸			
🗹 🗊 8.5.5.4-WS-WASND-AllOSExceptIBMI-IFP142784 8.5.5004.20150	06: 🗸			
Show recommended only	Sele	ect Recommended	Check for O	ther Fixes
☑ Sho <u>w</u> recommended only ► Details	Sele	ect Recommended	Check for O	ther Fixes
✓ Show recommended only ▶ Details 8.5.5.0-WS-WASND-IFPI35180 8.5.5000.20150304_1154	Sele	ect Recommended	Check for O	ther Fixes
✓ Show recommended only ► Details 8.5.5.0-WS-WASND-IFPI35180 8.5.5000.20150304_1154 FIX FOR "MONITOR" ROLE USERS ON "ALL APPLICATIONS" PANEL More info	Sele	ect Recommended	Check for O	ther Fixes
Show recommended only Details 8.5.5.0-WS-WASND-IFPI35180 8.5.5000.20150304_1154 FIX FOR "MONITOR" ROLE USERS ON "ALL APPLICATIONS" PANEL More info Repository: https://www.ibm.com/software/repositorymanager/service/com.ibm.ww	Sele vebsphere.ND.v85/8	ct Recommended	<u>C</u> heck for O	ther Fixes
Show recommended only Details 8.5.5.0-WS-WASND-IFPI35180 8.5.5000.20150304_1154 FIX FOR "MONITOR" ROLE USERS ON "ALL APPLICATIONS" PANEL More info Fix For "MONITOR" ROLE USERS ON "ALL APPLICATIONS" PANEL More info This fix resolves APARs:	Sele vebsphere.ND.v85/8	ect Recommended	<u>C</u> heck for O	ther Fixes
Show recommended only Details S.5.0-WS-WASND-IFPI35180 8.5.5000.20150304_1154 FIX FOR "MONITOR" ROLE USERS ON "ALL APPLICATIONS" PANEL More info Repository: https://www.ibm.com/software/repositorymanager/service/com.ibm.w This fix resolves APARs:	<u>Sele</u> vebsphere.ND.v85/8 < <u>B</u> ack	ect Recommended	Check for O	ther Fixes

32. Select the fixes to be installed.

nptlx110.us.oracle.com:1 (root) - VNC Viewer	
Applications Places System 🛞 🗾	1:35 PM
IBM In	stallation Manager
Install Packages Read the following license agreements carefully. Install Licenses Location Features	Summary
✓ IBM WebSphere Application Server Network Deployment	International Program License Agreement
Software License Agreement	Part 1 - General Terms
▼ IBM WebSphere Portal Server IBM WebSphere Portal Server	BY DOWNLOADING, INSTALLING, COPYING, ACCESSING, CLICKING ON AN "ACCEPT" BUTTON, OR OTHERWISE USING THE PROGRAM, LICENSEE AGREES TO THE TERMS OF THIS AGREEMENT. IF YOU ARE ACCEPTING THESE TERMS ON BEHALF OF LICENSEE, YOU REPRESENT AND WARRANT THAT YOU HAVE FULL AUTHORITY TO BIND LICENSEE TO THESE TERMS. IF YOU DO NOT AGREE TO THESE TERMS, * DO NOT DOWNLOAD, INSTALL, COPY, ACCESS, CLICK ON AN "ACCEPT" BUTTON, OR USE THE PROGRAM; AND * PROMPTLY RETURN THE UNUSED MEDIA, DOCUMENTATION, AND PROOF OF ENTITLEMENT TO THE PARTY FROM WHOM IT WAS OBTAINED FOR A REFUND OF THE AMOUNT PAID. IF THE PROGRAM WAS DOWNLOADED, DESTROY ALL COPIES OF THE PROGRAM. 1. Definitions "Authorized Use" - the specified level at which Licensee is authorized to execute or run the Program. That level may be measured by number of users, millions of service units ("MSUs"), Processor Value Units ("PVUs"), or
I accept the terms in the license agreements	other level of use specified by IBM.
○ I <u>d</u> o not accept the terms in the license agreements	
	< <u>Back</u> <u>Next</u> <u>Install</u> Cancel
👏 [u01 - File Browser]	

33. Accept the license agreement terms and click the Next button.

pttx110.us.oracle.com:1 (root) - VNC Viewer	
Applications Places System 🥱 🗾	🧃 1:37 PM 📓
IBM Installation Manager	,
Install Packages Select a location for the shared resources directory.	-
 When you install packages, files are stored in two locations: 1) The shared resources directory - resources that can be shared by multiple packages. 2) The installation directory - any resources that are unique to the package that you are installing. Important: You can only select the shared resources directory the first time you install a package with the IBM Installation Manaresults select the drive with the most available space because it must have adequate space for the shared resources of future. 	ger. For best e packages.
Shared Resources Directory: /u01/lßM/WebSphere/IMShared Disk Space Information	Bro <u>w</u> se
Volume Available Space / 70.40 GB	
Back Next >	
	Cancel



34. If it is not already listed, enter the Shared Resources Directory and click Next.

Inptlx110.us.oracle.com:1 (root)) - VNC Viewer		
Applications Places Sy	ystem 🥪 🛛 🖉	7	🔋 1:40 PM
	IBM In	stallation Manager	
Install Packages The packages will be in Install License	stalled into the indicated package group	os. Select the package group to change the installation directory.	-
Package Group Name		Installation Directory	Architecture
🗢 🍾 IBM WebSphere A	pplication Server V8.5	/u01/IBM/WebSphere/AppServer	
♥ IBM WebSphere ♥ 8.5.5.0-WS- ♥ 8.5.5.4-WS- ♥ 8.5.5.4-WS- ♥ 8.5.5.4-WS- ♥ 8.5.5.4-WS-	e Application Server Network Deployme WASND-IFPI35180 8.5.5000.20150304_1 WASND-AllOSExceptlBMi-IFPI41114 8.5.5 WASND-AllOSExceptlBMi-IFPI42784 8.5.5 WASND-AllOSExceptlBMi-IFPI43964 8.5.5	r 1 5 5	
4		m.	
Package Group Name: Installation <u>D</u> irectory:	IBM WebSphere Application Server V8.5 /u01/IBM/WebSphere/AppServer	5	Browse
Details Shared Resources Dire	ectory: /u01/IBM/WebSphere/IMShared	Disk Space Information Volume Available Space / 70.40 GB < Back	nstall
🐚 [u01 - File Browser]	🙆 IBM Installation Manager		

35. If it is not already listed, enter the Installation Directory and click Next.

nptix110.us.oracle.com:1 (root) - VNC Viewer			
Applications Places System 🏀			🧃 1:40 PM 🛚
	IBM Installation Manager		
Install Packages			
Select the translations to install.			
Install Licenses Location	Features Summary		
Select the translations for the packages that V8.5.	will be installed to package group IBM WebSphere a	Application Server V8.5, IBM WebSpher	e Portal Server
Translations Supported by All Package	as		
☑ <u>E</u> nglish			
Translations Supported by Only Son	ne Packages		
		Selec	t All Clear All
Ð		< Back	Cancel
Ð		< Back Next > Install	Cancel
		< Back Next >	Cancel



36. Select the translations to install and click Next.

ptlx110.us.oracle.com:1 (root) - VNC Viewer	
Applications Places System 🥪 🛛 📃	🦉 1:41 P
IBM Installation Manager	
Install Packages	
Select the features to install.	
Install Licenses Location Features Summary	
Features	
🗢 🛢 🗊 IBM WebSphere Application Server Network Deployment 8.5.5.4	
▽ 🖃 🔯 WebSphere Application Server Full Profile	
☑ EJBDeploy tool for pre-EJB 3.0 modules	
🎠 🗹 🗞 Stand-alone thin clients, resource adapters and embeddable containers	
□ Sample applications	
🗢 🖃 🇞 IBM WebSphere SDK for Java Technology Edition 6	
IBM 32-bit WebSphere SDK for Java	
IBM 64-bit WebSphere SDK for Java	
🗹 🕼 IBM WebSphere SDK Java Technology Edition (Optional) 7.0.6.1	
▽ 🗹 🧊 IBM WebSphere Portal Server 8.5.0.0	
Portal Server Profile	
Show dependencies	Expand All Collapse All Restore Default
%- selected by installation Manager because of dependencies	
Details	
IBM WebSphere Application Server Network Deployment 8.5.5.4	
IBM WebSphere Application Server Network Deployment is a production-ready Java Plat server for the deployment of enterprise web services solutions for dynamic e-business WebSphere Application Server have edition because it provides advanced web service	form, Enterprise Edition (Java EE) compliant application i. It is the next level in application serving beyond the s and structuring constitution
	< Back Next > Install Cance
🐑 [u01 - File Browser]	

37. Select the features to install and click Next.

dnptlx110.us.oracle.com:1 (root) - VNC Vie	wer 🗆 🗖 🗖
Applications Places System 餐) 🗐 🔤 1:42 PM (
)	IBM Installation Manager
Install Packages	
(i) Click Next to continue.	
Install Liconsos	Acation Fracturer Summary
	Jucation / Pearcies / Summary /
▼	Configuration for IBM WebSphere Portal Server 8.5.0.0
Enter the Administrator i	
C Enter the Administrator	Configuration Wizard Credentials
	Administrator user ID
	JDE ĭ
	Administrator user password

	Confirm administrator user password

-	
(?)	< <u>B</u> ack <u>Next</u> <u>Install</u> Cancel
[[u0] - File Prowsor]	

38. On the security screen for the administration user ID and password, WebSphere Portal enables security by default. It is not possible and/or recommended to disable security. Complete these fields:

Field	Description
Administrative User ID	Enter the user ID that you assign for the Portal administrator. For example: wpsadmin This user is used for Stopping Services after the Portal installation is completed. It is not related to any user IDs used to access the operating system.
Administrative Password	Enter the password for the Administrative User defined in the previous field.
Confirm Password	Confirm the password you entered in the previous field.



Field	Description

V2 dnptlx110.us.oracle.com:1 (root) - VNC Vie	wer		
💠 Applications Places System 餐)		1:43 PM 🗐 🛙
۵	IBM Installat	ion Manager	_ _ ×
Install Packages The user name cannot be null Install Instal	ocation Features Summ	nary	
✓ ∅ IBM WebSphere Portal Serv ☑ Enter the Administrator (Configuration for IBM WebSphe Enter the Administrator user ID and p	ere Portal Server 8.5.0.0 Dassword for the Portal Server.	
Structure For the Administrator (Selected configuration mode Standard Advanced		
	Standard details≹ Topology Host name		
	dnptlx110.us.oracle.com		
	dnptlx110Node Cell name		
	dnptlx110Cell		
	Admin Credentials for Portal Ser Administrator user ID	ver	
		< <u>B</u> ack <u>N</u> ext > <u>Install</u>	Cancel
🛞 [u01 - File Browser]	BIM Installation Manager		9

39. Enter the Administrator Credentials.

Field	Description
Node name	Enter a unique Node name for this installation of WebSphere Portal and Lotus Web Content Management.
	The Node name is used to identify the server. Having a unique node name is important when configuring a federated, production environment.
	Do not use names that contain special characters (i.e _ underscoreetc.).
Host name	Enter the fully-qualified Host name for this installation of WebSphere Portal and Lotus Web Content Management. The Host name must include the fully-qualified domain name (for example, hostname.example.com). Do not use a local host or a loopback address.



Field	Description

nptlx110.us.oracle.com:1 (root) - VNC View	er	
Applications Places System 😪		🧃 1:44 PM 🖻
	IBM Installation Manager	
Install Packages		
(i) Click Next to continue.		
Install Licenses Li	ocation Features Summary	
♥ ⑧ IBM WebSphere Portal Serv ■ Enter the Administrator (Configuration for IBM WebSphere Portal Server 8.5.0.0 Enter the Administrator user ID and password for the Portal Server.	
😴 Enter the Administrator (Host name	
	dnptix110.us.oracle.com	
	Node name	
	dnptlx110Node	
	Cell name	
	dnptlx110Cell	
	Admin Credentials for Portal Server Administrator user ID	
	JDE I	=
	Administrator user password	

	Confirm administrator user password	

0	< Back	Install Cancel
	A	

40. Scroll down to complete the information. When finished click Next.

V2 dnptlx110.us.oracle.com:1 (root) - VNC Vie	ewer	- 0 X
💠 Applications Places System 🍯		1:44 PM 🔮
Θ	IBM Installation Manager	
Install Packages ① Click Next to continue. Install Licenses	Location Features Summary	-
✓ Ø IBM WebSphere Portal Serv ☑ Enter the Administrator	Configuration for IBM WebSphere Portal Server 8.5.0.0 Enter the Administrator user ID and password for the Portal Server.	
The Administrator of the Admin	Host name Progress Information X	
	Collecting files Collecting: https://www.ibm.com/softwebsphere.ND.v85/8.5.5.2 (accessing) Cancel	
	JDE	=
	Administrator user password	

	Confirm administrator user password	
(∢]] ▶	******	
1	< <u>B</u> ack	Cancel
🔇 [u01 - File Browser]	BM Installation Manager	9

41. When the information is complete, the Install button becomes available. Click Install.

ptlx110.us.oracle.com:1 (root) - VNC Viewer		
Applications Places System 🥱 🛛 📃		🧃 1:45 PM
IBM In	stallation Manager	= •
Install Packages		
Review the summary information.		
Install Licenses Location Features	Support and	
Target Location	Surranary	
Shared Resources Directory: /u01/IBM/webSphere/IMShared		
Packages		
Packages	Installation Directory	
🗢 🍾 IBM WebSphere Application Server V8.5	/u01/IBM/WebSphere/AppServer	
🗢 🧊 IBM WebSphere Application Server Network Deployme	í de la companya de l	
8.5.5.0-WS-WASND-IFPI35180 8.5.5000.20150304_		
🛱 8.5.5.4-WS-WASND-AllOSExceptlBMi-IFPl41114 8.5.		
8.5.5.4-WS-WASND-AllOSExceptIBMi-IFPI42784 8.5.		
🛱 8.5.5.4-WS-WASND-AllOSExceptlBMi-IFPl43964 8.5.	C	
👂 🇞 WebSphere Application Server Full Profile		
👂 🏠 IBM WebSphere SDK for Java Technology Edition 6		
🕼 IBM WebSphere SDK lava Technology Edition (Optiona	1	
Environment 👌	Disk Space Information	
English	Total A	Available Space
	Ĩ	70.39 GB
	Tatal Download Size, 2 50 CB	
	Total Installation Size: 6.97 GB	
Penecitory Information		
	< <u>Back</u> <u>Next</u> <u>Install</u>	Cancel
👏 [u01 - File Browser] 🔄 🕒 IBM Installation Manager		O



42. When the summary information is complete, the Install button becomes available. Click Install.

dnptlx110.us.oracle.com:1 (root) - VNC Viewer		
Applications Places System 🔗 🛛 🗐		🔋 1:45 PM 🕸
IBM In	stallation Manager	
Install Packages		
Review the summary information.		
Install Licenses Location Features	Summary	
Target Location		
Shared Resources Directory: /u01/IBM/WebSphere/IMShared		
Packages		
Packages	Installation Directory	*
🗢 🍾 IBM WebSphere Application Server V8.5	/u01/IBM/WebSphere/AppServer	
	ε	
1 8.5.5.0-WS-WASND-IFPI35180 8.5.5000.20150304		
8.5.5.4-WS-WASND-AllOSExceptlBMi-IFPI41114 8.5.	1	
1 8.5.5.4-WS-WASND-AllOSExceptlBMi-IFPI42784 8.5		
f 8.5.5.4-WS-WASND-AllOSExceptlBMi-IFPI43964 8.5.	00 7 8	
👂 🎪 WebSphere Application Server Full Profile		
👂 🍪 IBM WebSphere SDK for Java Technology Edition 6		
🕼 IBM WebSphere SDK lava Technology Edition (Optiona	a	.
Environment	Disk Space Information	
English		Total Available Space
	1	70.39 GB
	Total Download Size: 2.50 GB	
	Total Installation Size: 6.97 GB	
Repository Information		
Installing: Retrieving files. 0 KB of 1.1 GB (1%) completed.		
		Pause Download Cancel
		T
🕑 [u01 - File Browser]		

43. A progress bar will appear along the bottom of the screen.

V2 d	V2 dnptlx110.us.oracle.com:1 (root) - VNC Viewer	
em	E IBM Installat	ion Manager 📃 🗆 🗙
aces Syste	Install Packages	
lications PI	The packages	are installed. <u>View Log File</u>
👘 App	A You can now access your Portal at: http://dnptix110.us.oracle A A	com:10039/wps/portal
8	The following packages were installed:	Which program do you want to start?
	 ✓ % IBM WebSphere Application Server V8.5 ✓ Ø IBM WebSphere Application Server Network Deploym Ø 8.5.5.0-WS-WAS-IFPI17768 8.5.5000.20140911_13 Ø 8.5.5.0-WS-WASND-IFPI35180 8.5.5000.20150304_ Ø IBM WebSphere SDK Java Technology Edition (Optional Server V8.5) Ø IBM WebSphere Portal Server V8.5 Ø IBM WebSphere Portal Server 8.5.0.0 	 Start the Configuration Wizard from Portal FirstSteps Profile Management Tool to create a profile. Profile Management Tool to create an application server profi None
	Note: If the packages support rollback, the temporary directory on the <u>Files for rollback</u> preference page.	contains rollback files for installed packages. You can delete the files
12:53 PM	0 0	Einish
	🛯 😪 eclipse - File B 🔄 [root@dnot!x1 🖾 [root@dnot!x1]	oot@dnptix1
	Call a crobe the purification of a boole and a transfer of a fi	

44. A summary screen will appear when the install is complete. Click Finish. This completes the successful installation of WebSphere Portal 8.5.

Registering the WSRP Producer

To register the WSRP Producer:

IHN.			
			e
Welcome	Tag Center	Search Center	Site Map
Search	Sitemap		
- Home			
• Home	Velcome		
. (Getting Started		
Adminis	tration		
• \	WebSphere Portal		
	 Welcome 		
	 Portal User 	Interface	
	 Man 	age Pages	
	 Ther 	mes and Skins	
	 Page 	e Templates	
	 Portlet Man; 	agement	
	 Web 	Modules	
	 Appl Bort 	lote	
	- Web	Services	
	 Virtu 	al Web Application Ma	anager
	Access	ar trob rippireadorr me	iniger
	 User 	rs and Groups	
	- Res	ource Permissions	
	 User 	r and Group Permissio	ns
	 Cred 	lential Vault	
	 Portal Settin 	igs	
	 Glob 	al Settings	
	 Cust 	tom Unique Names	
	 Support 	ported Markups	
	 Supj 	ported Clients	
	 Bortal Contr 		
	 Fontal Conte Web 	Content Libraries	
	 Sync 	dicators	
	 Sub: 	scribers	
	- Feed	d Configurations	
	 Feed 	d Jobs	
	 Search Adm 	ninistration	
	 Man 	age Search	
	 Portal Analy 	sis	
	 There 	me Analyzer	
	 Freq 	uent Users	
	Engl	blo Iracina	

- Enable Tracing
- About IBM WebSphere Portal
 Virtual Partolo



1. When the IBM WebSphere Portal is launched a Site Map will be available. Select WebSphere Portal located below Administration or click on the Tools "Wrench" icon.

			Onen nortal a	dministration	
	JDE Actions Log Out ⑦ Search Site	٩)	Open portar a	aministration	
odules					
nage Web Modules		D*			
earch by: File name starts with 🔻 Search:	Search				
leb module Click Install to install a Web module. Select a W	Veb module to view its portlet applications and portlet	s. Click Delete to remove the Web			
nodule from your portal or click Assign Access to allow other	s to work with the Web module.				
Install Consume					
	Page 1 of 8 💽	Jump to page: 1			
Vame	API Type Status				
vp.portlet.thememanager.war	JSR 286	6 9 2 6			
vp.portlet.themecreator.war	JSR 286	6 4 2 6			
vn portlet themeproperties war	100 206	6866			
ap.peraecaremeproperaee.wat	JSR 280				
vp.federated.documents.picker.portlet.war	JSR 286				
vp.federated.documents.picker.portlet.war vp.portlet.sitemap.war	JSR 286 JSR 286				
vp.portlet.sitemap.war ite-builder.war	JSR 286 JSR 286 JSR 286 JSR 286				
vp.portlet.itemap.war site-builder.war vp.portlet.createcontent.war	JSR 286 JSR 286 JSR 286 JSR 286 JSR 286				
vp.portection.ppoportection	JSR 286 JSR 286 JSR 286 JSR 286 JSR 286 JSR 286 JSR 168				
vp.portlet.sitemap.opertee.ntdi vp.portlet.sitemap.war site-builder.war vp.portlet.createcontent.war ogin.war selfcare.war	JSR 286 JSR 286 JSR 286 JSR 286 JSR 286 JSR 168 JSR 168				
wp.portlet.itemp.opertee.iteli wp.portlet.sitemap.war site-builder.war wp.portlet.createcontent.war ogin.war ielfcare.war vsrpproxy.war	JSR 286 JSR 286 JSR 286 JSR 286 JSR 286 JSR 168 JSR 168 JSR 286				

2. Select the Open portal administration icon located in the upper right side of the toolbar.

Molecmo	Teo Contor	Contact Contact	DitaMan
weicome	rag Center	Search Center	Sile Map
Sear	ch Sitemap		
 Home 			
0	Welcome		
0	Getting Started		
Admin	istration		
0	WebSphere Portal		
	 Welcome 		
	 Portal User 	Interface	
	 Man 	lage Pages	
	The	mes and Skins	
	 Pag 	e Templates	
	 Portlet Man 	agement	
	 Web 	Modules	
	 App 	lications	
	 Port 	lets	
	 Wet 	Sarvices	
	 Virtu 	ial Web Application Ma	anager
	 Access 		
	 Use 	rs and Groups	
	 Res 	ource Permissions	
	 Use 	r and Group Permissio	ns
	 Cred 	dential Vault	



3. Next, click on Web Services located below Portlet Management.

]					(i) - Q
			JDE Actions	Log Out 🧿 Search	Site Q
WebSphere Portal					
WebSphere Portal > Portlet Management	> Web Services				
Welcome					
Portal User Interface	Web Service Configu	ration			
Manage Pages					
Themes and Skins	EJPAB0009	I: No results were found from the sear	ch query condition	1.	
Page Templates					
Portlet Management	Search by: Title star	ts with T Search:		Search	
Web Modules	Producer Click New	Producer to create a new Producer. C	lick Edit to edit the	e properties of the Producer. C	lick Delete to remove the Producer. Click
Applications	Assign access to allo	w others to work with the Producer.			
Portlets					
Web Services)
Virtual Web Application Manager		78.47 MIC 100			
Access	Title	Descript	on		In use WSRP version
Users and Groups	There are no entries	to display.			
Resource Permissions	-				
User and Group Permissions					
Credential Vault					



4. Click the New Producer button.

	•	Q, •
Web Service Configuration		□*
Edit Producer: E1_Menu		
Title:		
E1_Menu		
Description:		
URL to WSDL service definitions:		
http://den04jgs.us.oracle.com:8001/jde/wsdl/oasis/names/tc/wsrp/v1/bind/wsrp_service.wsdl		
I want to appaify the upper attributes that about the papered to this Braduser		
I want to specify the port settings for this Producer.		
I want to set titles and descriptions for other languages.		
OK Cancel		



5. Verify or enter the Edit Producer URL. Click OK.

	â			
leb Service Configuration	on			
EJPAM1082I: Pr	oducer wsdl file processed	l successfully.		
Port settings for Produc	er:			
Click Edit to set the tra	nsport URLs and other por	t specific information for thi	s Producer.	
				Page 1 of 1
Port name	Supports HTTP	Supports HTTPS	Selected Transport	Service reference
Service description	√		HTTP	1
Management	*		HTTP	1. Contraction of the second s
Management Varkup	√ √		нттр	
Management Markup Registration	✓ ✓		нттр	
Management Markup Registration	✓ ✓ 		нттр	Page 1 of 1
Management Markup Registration	✓ ✓		HTTP HTTP	Page 1 of 1
Management Markup Registration	✓ ✓		HTTP	Page 1 of 1



6. Click Edit to set the transport URLs and other port specific information for this Producer. Click Next.

			()	
Veb Service Configuration	n			D 7
EJPAM1080I: C	reated the Producer successfully.			
Producer Click New Pro Assign access to allow ot	ducer to create a new Producer. Click Edit to edit the properties of the ners to work with the Producer.	e Producer. Click Delete to	remove the Produ	cer. Clic
Search by: Title starts v Producer Click New Pro Assign access to allow ot New Producer	ducer to create a new Producer. Click Edit to edit the properties of the ners to work with the Producer.	e Producer. Click Delete to	Page 1	cer. Clicl
Search by: Title starts v Producer Click New Pro Assign access to allow ot New Producer Title E1 Menu	ducer to create a new Producer. Click Edit to edit the properties of the ners to work with the Producer.	e Producer. Click Delete to	Page 1 WSRP version	cer. Clic



7. Add a New Producer if needed.

					(i) - D
Welcome Portal User Interface Manage Pages	Web Service Configuration				D*
Themes and Skins Page Templates	EJPAM1080I: Crea	ated the Producer successfully.			
Portlet Management Web Modules Application Portlets	Search by: Title starts with Producer Click New Produ Assign access to allow othe New Producer	h ▼ Search: cer to create a new Producer. Click Edit to e rs to work with the Producer.	edit the properties of the Produce	r. Click Delete to remove	the Producer. Click
Web Services Virtual Web Application Manager					Page 1 of 1
Arress	Title	Description		In use WSRP	version
Users and Groups	E1_Menu			V2	
Resource Permissions User and Group Permissions					Page 1 of 1
Credential Vault					



8. Select Web Modules below Portlet Management.

]			(i) - □, -
III.		JDE Actions Log Out ⑦ Search Site	٩
WebSphere Portal			
WebSphere Portal > Portlet Management :	> Web Modules		
Welcome	Managa Web Madulas		
Portal User Interface	Manage web Modules		
Manage Pages	Search by: File name starts with ▼ Search:	Search	
Themes and Skins	Web module Click Install to install a Web module. Select a	Web module to view its portlet applications and portl	lets. Click Delete to remove the Web
Page Templates	module from your portal or click Assign Access to allow othe	ers to work with the Web module.	
Portlet Management	Install Consume		
Web Modules		Page 1 of 8	
Applications		Tage Foro	
Portlets	Name	API Type Status	
Web Services	wp.portlet.thememanager.war	JSR 286	
Virtual Web Application Manager	wp.portlet.themecreator.war	JSR 286	
Access	wp.portlet.themeproperties.war	JSR 286	6 2 0
Users and Groups	wp.federated.documents.picker.portlet.war	JSR 286	6 🖉 🖉 🗎
Resource Permissions	wp.portlet.sitemap.war	JSR 286	6 2 2 6
User and Group Permissions	site-builder.war	JSR 286	6 2 1
Credential Valut	wp.portlet.createcontent.war	JSR 286	6 2 6
Cichal Settings	login.war	JSR 168	6020
Custom Unique Names	selfrare war	ISB 168	<u></u>
Supported Markuns			
Supported Cliente	wsrpproxy.war	JSR 286	• • •
Import VM		Page 1 of 8	🕨 📄 Jump to page: 1 🖉 🖉
IMPORTAME			
Portal Content			

9. Click the Consume button.

])-	D
Welcome			
Portal User Interface	Manage Web Modules		□*
Manage Pages	Consume Web Service, Step 1: Choose Producer.		
Themes and Skins	QChoose a Producer from the list below to view services to consume. Or, search for a Producer and choose one from the search results	to viev	N
Page Templates	services.		
Portlet Management			
Web Modules	Search by: Interstarts with V Search: Search		
Applications	Web Service Producers		
Portlets	Page	1 of 1	
Web Services	Title Description		
Virtual Web Application Manager	E1 Menu		
Access	رام Page	1 of 1	0
Users and Groups		0345314	
Resource Permissions	Cancel		
User and Group Permissions			



10. Click the E1_Menu hyperlink.

			0.	
Nelcome Portal User Interface	Manage Web Modules			
Manage Pages	Consume Web Service, Step 2: Choose Web service.			
Themes and Skins Page Templates	Choose a Web service from this Producer to consume. Or, consume.	search for a service within this producer and choose or	ne from the search results	to
 'ortiet Management Web Modules Applications 	Search by: Title contains Search: E1Menu Web Service Producers E1_Menu	Search		
Portlets			Page 1 of	1
Web Services	Title	Group (Portlet Application)	Description	
Mintual Mah Application Manager	E1Menu_den04jgs.us.oracle.com:8001	E1	E1Menu	
vinual web Application Manager				-
ccess Users and Groups			Page 1 of	1



11. Click OK.

Manage Web Modules		□*
EJPAQ1801I: Web module(s) have been consumed	d.	
Search by: File name starts with 🔻 Search:	Search	
Web module Click Install to install a Web module. Select a 1	Web module to view its portlet applications and por	tlets. Click Delete to remove the Web
Install Consume	is to work with the web module.	
N2	Page 1 of 8	▶ ▶ Jump to page:1
Name	API Type Status	
wp.portlet.thememanager.war	JSR 286	B 🗘 🖉 🛍
wp.portlet.themecreator.war	JSR 286	6 🖉 🖉 🛍
wp.portlet.themeproperties.war	JSR 286	6 🗘 🖉 🛍
wp.federated.documents.picker.portlet.war	JSR 286	6 🗘 🖉 🗊
wp.portlet.sitemap.war	JSR 286	6 🗘 🖉
site-builder.war	JSR 286	6 🗘 🔎 🛍
wp.portlet.createcontent.war	JSR 286	B 🖉 🖉 🛍
login.war	JSR 168	6 🖉 🖉 🛅
selfcare.war	JSR 168	6 🖓 🖉 🛍
wsrpproxy.war	JSR 286	6 🖉 🖉 🛍
	Dana 1 af 0	



12. Click the Install icon to install a Web module. select a Web module to view its portlet applications and portlets. Click Delete to remove the Web module from your portal or click Assign Access to allow others to work with the Web module.

		JDE Actions	Log Out	O Search Site		٩
WebSphere Portal						
WebSphere Portal > Portal User Interface Welcome Portal User Interface • Manage Pages Themes and Kins Page Templates Portlet Management Web Modules Applications Portlets	 Manage Pages Manage Pages Use the controls below to work with Activate and deactivate pages, re-order Help. Search by: Title starts with Select Page My pages Add, Edit, Delete, and Records 	your pages. Browse or search for page r, edit properties and layout, move, exp Search: order pages	es to work with ort, assign per	. Click New to create missions and delete p	new pages, label pages. For more i	□+ Is and uris. information, click
Web Services						Page 1 of 1
Virtual Web Application Manager	Title	Unique name	or Identifier		Status	
Access Users and Groups	Content Root	wps.content.r	oot		Active	Page 1 of 1
Resource Permissions User and Group Permissions						


13. Click Manage Pages.

IIN.		J	DE Actions	Log Out	⊘ Sea	rch Site	٩
WebSphere Portal							
WebSphere Portal > Portal User Interface > Man	nage Pages						
Welcome Portal User Interface • Manage Pages Themes and Skins Page Templates Portlet Management Web Modules Applications	Manage Pages Q Use the controls below to w Activate and deactivate pages, Help. Search by: Title starts with Select Page My pages Add, Edit, Delete, a	ork with your pages. Browse or re-order, edit properties and la Search: and Reorder pages	search for page rout, move, expr	es to work with ort, assign pe	h. Click New missions a	to create new pages, la nd delete pages. For mo	bels and uris. bre information, click
Web Services	-						Page 1 of 1
Virtual Web Application Manager	Title		Unique name	or Identifier		Status	
Access	Content Root		wps.content.r	oot		Active	C.
Users and Groups Resource Permissions							Page 1 of 1



14. Click the Content Root Hyperlink.

IBN.		JDE Actions Log Out 🕝	Search Site		٩			
WebSphere Portal								
WebSphere Portal > Portal User Interface >	Manage Pages							
Welcome Manage Pages Portal User Interface Q Use the controls below to work with your pages. Browse or search for pages to work with. Click New to create new pages, labels and urls. Activate and deactivate pages, re-order, edit properties and layout, move, export, assign permissions and delete pages. For more information, Help. Page Templates Search by: Title starts with V Search: Search Portlet Management Select Page > Content Root Web Modules Pages in Content Root Add, Edit, Delete, and Reorder pages Portlets * New Page * New Label * New Page from								
Virtual Web Application Manager					Page 1	of 1		
Access	Title	Unique name or Identifier	Status					
Users and Groups	Home	ibm.portal.Home	Active		D.	20		
Resource Permissions	Cara Administration	ibm.portal.Administration	Active		D.	20		
User and Group Permissions	Capplications	ibm.portal.page.Applications	Active		D. R	PÒ		
Credential Vault	Search Center	ibm portal Search	Active		n R			
Portal Settings		ihm nortal Page Customizer	Active		R	PM		
Global Settings		ibm portal abaredPages	Activo					
Supported Markups	Shared Pages	ibm portal sinareur ages	Active					
Supported Manapa	Hidden Pages	iom.portal.middenPages	Active		u v			
Import XML					Page 1	of 1		
Portal Content								

15. Click the New Page button.

JD
New page: Content Root
QUse the controls below to work with your pages to specify your page properties. Expand Options to cho
Title:
E1Menu
Unique Name:
E1Menu
E1Menu
Theme: Portal Default Theme ▼ 60
Icon:
I want to make this page my private page
Aggregation - Render Mode:
This setting will revert to SSA during runtime if the theme assigned with the page does not support CSA.
Inherit Parent Render Mode
Client Side Aggregation - Rendering
Server Side Aggregation - Rendering
H Page Properties

Type of Page

Page Cache Options





16. Fill in the Title and a Unique Name fields and then click the OK button.

TEM.		JDE Actions Log Out (Search Si	te	٩	
WebSphere Portal						
WebSphere Portal > Portal User Interface :	> Manage Pages					
Welcome Portal User Interface • Manage Pages Themes and Skins Page Templates Portlet Management Web Modules Applications Portlets	Manage Pages Use the controls below to work with Activate and deactivate pages, re-orde Help. Search by: Title starts with Select Page > Content Root Pages in Content Root Add, Edit, De K New Page K New Label K	your pages. Browse or search for pages to work with. r, edit properties and layout, move, export, assign perm r Search: Search lete, and Reorder pages New Page from	Click New to cre lissions and del	ate new pages, lat ete pages. For mor	e informatio	□- s. n, click
Web Services					Page 1	of1
Access	Title	Unique name or Identifier	Status		Fager	
Users and Groups	Home	ibm.portal.Home	Active		D.	20
Resource Permissions	@SAdministration	ibm.portal.Administration	Active		D.	20
User and Group Permissions	Applications	ibm.portal.page.Applications	Active		L) P	20
Credential Vault	Search Center	ibm.portal.Search	Active		D. @	
Global Settings	Page Customizer	ibm.portal.Page Customizer	Active		D.	20
Custom Unique Names	Shared Pages	ibm.portal.sharedPages	Active	a 🔻 🗈		20
Supported Markups	Hidden Pages	ibm.portal.HiddenPages	Active		L) (Y	20
Supported Clients Import XML	E1Menu	E1Menu	Active	a D Ø	Bee	
Portal Content Web Content Libraries					Edit Page	: Layout

17. Click the Edit Page Layout icon.

IBN.				JD	E	Actions	Log Out	Ø	Search Site	٩	00 00
Content	Appearance	Locks	Wires								

Q Edit Layout allows you to add, remove and arrange portlets. Modifications occur as you make them. This page is rendered by a layout template, which specifies how the containers will be positioned on the page. The containers displayed below are a flat list of the containers used by the template, so the visual representation may not reflect how or where the content is rendered on the page.

Page title: E1Menu

Show Portlet Rule Mappings

+ Addhportiets
This is a row container. Items added to this container will stack horizontally
+ Add portlets



18. Click the Add Portlets button.

IIN.				JDI	E Actio	ns Log Ou	t 💿	Search Site	_	٩
Content	Appearance	Locks	Wires							
EJP/	AE0115I: New portle	ets are added s	successfully.							

Q Edit Layout allows you to add, remove and arrange portlets. Modifications occur as you make them. This page is rendered by a layout template, which specifies how the containers will be positioned on the page. The containers displayed below are a flat list of the containers used by the template, so the visual representation may not reflect how or where the content is rendered on the page.

Page title: E1Menu

Show Portlet Rule Mappings

E1Menu_den04jgs.us.oracle.com:8001 🖕	<u> </u>
Add portiets	
+ Add portiets	



19. When you have added the portlets that you need, click the Done button.

		JDE Actions Log Out	Search Site	٩
Co	intent Appearance Locks	Wires		
Sear	th by: Title starts with ▼ Searc	sh: Search		
		Page	1 of 10 🕨 📔 Jump to pag	e:1
	Portlet Title	Description	Unique name	Remote portlet
	Theme Manager	Portlet to manage all themes with create, edit, import, export and more	wps.p.thememanager	
	Theme Creator	Portlet to create themes within the context of a browser	wps.p.themecreator	
	Edit Theme Properties	Portlet to edit theme properties within the context of a browser	wps.p.themeproperties	
	Federated Documents Picker	Portiet to access and browse enterprise content management systems supporting the CMIS standard	wps.p.FedDocsPicker	
	SiteMap Portlet		wps.p.SiteMapTab	
	Default Link Web Content Viewer	Display Web Content	wps.p.dnd.wcm.link	
	Site Builder		ibm.portal.sitebuilderportlet	
	Create Content portlet plugin		wps.p.CreateContent	
	E1Menu_den04jgs.us.oracle.com:8001	E1Menu		E1_Menu
	Login	User authentication portlet	wps.p.Login	
		Page	1 of 10 🕨 📕 Jump to pag	e:1

OK Cancel



20. Select the E1 Menu and click OK.

IBN.		JDE Actions Log Out	Search S	ite	٩	
WebSphere Portal						
WebSphere Portal > Portal User Interface >	Manage Pages					
Welcome Portal User Interface • Manage Pages Themes and Skins Page Templates Portlet Management Web Modules Applications Portlets	Manage Pages Use the controls below to work with y Activate and deactivate pages, re-order, Help. Search by: Title starts with Select Page > Content Root Pages in Content Root Add, Edit, Dele New Page New Label New Label	our pages. Browse or search for pages to work with. edit properties and layout, move, export, assign perr Search: Search te, and Reorder pages New Page from	Click New to cre	eate new pages, lab lete pages. For mor	els and url	□+ s. on, click
Virtual Web Application Manager					Page 1	l of 1
Access	Title	Unique name or Identifier	Status		Colored Docto	
Users and Groups	1 Home	ibm.portal.Home	Active	V D	D.	20
Resource Permissions	(Salarian Administration	ibm.portal.Administration	Active		D,	20
User and Group Permissions	(Samplications	ibm.portal.page.Applications	Active		D, C	
Credential Vault	Search Center	ibm.portal.Search	Active		D. (4	
Global Settings	Service Customizer	ibm.portal.Page Customizer	Active		e,	20
Custom Unique Names	Shared Pages	ibm.portal.sharedPages	Active		D	
Supported Markups	Bilden Pages	ibm.portal.HiddenPages	Active			
Supported Clients	E1Menu	E1Menu	Active	A B 🗭		
Import XML			tanany tan' 0.53		Page 1	l of 1
Portal Content Web Content Libraries						

21. The Manage Pages screen will display.

OFF					<u> </u>	~
TEM.		JDE Actions Log Out	 Search Si 	te	Home	
WebSphere Portal						
ebSphere Portal > Portal User Interface	> Manage Pages					
alcome	Constant Lander					1000
rtal User Interface	Manage Pages					□*
 Manage Pages 	Q Use the controls below to work v	vith your pages. Browse or search for pages to work with	. Click New to cre	ate new pages, lab	els and urls.	
Themes and Skins	Activate and deactivate pages, re-or	der, edit properties and layout, move, export, assign pe	rmissions and del	ete pages. For more	e information, clie	ick
Page Templates	Help.					
tlet Management	Search by: Litle starts with	Search: Search	1			
Web Modules	Select Page Content Root					
Applications	Pages in Content Post Add Edit I	Doloto and Rearder pages				
Portlets	Pages in Content Root Add, Edit, I	Delete, and Reorder pages				
Web Services	The New Page The New Label	★ New Page from				
Virtual Web Application Manager					Page 1 of 1	
ess	Title	Unique name or Identifier	Status			
Users and Groups	Mome	ibm.portal.Home	Active		D. P	Û
Resource Permissions		ibm.portal.Administration	Active			Û
User and Group Permissions		ibm portal page Applications	Active			圇
Credential Vault	Applications	ion.porta.puges.ppirearono	710440			
al Settings	Search Center	ibm.portal.Search	Active	a y e		
Global Settings	Rage Customizer	ibm.portal.Page Customizer	Active		D) 🖉	Û
Custom Unique Names	Shared Pages	ibm.portal.sharedPages	Active		D. 🗹 🖻	Û
Supported Markups	Hidden Pages	ibm.portal.HiddenPages	Active			Û
Supported Clients	Deathan	E1Menu	Active	A B0		Î
Import XML	L E Tivienu	T-1007107.				-
al Content					Page 1 of 1	



22. Select E1 Menu from the dropdown menu in the upper right area of the toolbar.

Ð	Published Site 🔻	Edit Mode:	OFF										
				I	DN.								
						۲	2	Ø	*	21	ő		
					•								
													^

23. The E1 Menu icons will display.

This completes the successful registration of the WSRP Producer.

Problem: WebSphere Portal installation from a mounted directory fails during profile creation

lssue

You attempt to install IBM WebSphere Portal v8.5 from a mounted directory and the installation fails during profile creation. You are using the silent install option along with a response file.

Resolution

From the command line, use the UNIX command nohup. This command ignores the SIGHUP signal and allows the installation to complete successfully. The syntax is:

nohup ./install.bat -options {responsefile_path}

Reference link:

http://www-01.ibm.com/support/docview.wss?uid=swg21293388



3 Using the Migration Wizard



Using the Migration Wizard

To use the Migration Wizard:

1. On the Manage server state tab, select IBM WebSphere | IBM WebSphere Portal Server V8.5 | First Steps to launch the Portal Server First Steps application.





2. Select the Configure and deploy IBM WebSphere Portal Server hyperlink.

Welcome	One firming the local sector in the local sect
Configure IBM WebSphere Portal Online Resources Exit	Configure and deploy IBM WebSphere Portal The Configuration Wizard is a web-based tool that helps you configure IBM WebSphere Portal more efficiently and reliably. Instead of manually modifying properties files to configure IBM WebSphere Portal, you can use the Configuration Wizard to accomplish commo configuration tasks, such as configuring IBM WebSphere Portal and a production-level database, LDAP server integration, and more Copen Configuration Wizard You can access the Configuration Wizard at any time at this URL: http://localhost:10200/ibm/wizard

3. Select the Open Configuration Wizard hyperlink.

4. Select IBM WebSphere | Start the server.

Log in with the Configuration Wizard administrator credentials

User ID:

Password:

Log in



5. Enter User ID and Password to login.



Configuration Wizard

Complete essential configuration tasks with less reading and time spent editing properties files. Repeat common configuration tasks on different servers by using wizaro selections saved from another session as a starting point for a new session. Learn More

Set Up a Stand-alone Server

Set up a stand-alone server environment to use for development, demonstrations, and small production sites. For guidance, see Roadmaps for installation and deployment.

Set Up a Cluster

Set up either a dynamic or static cluster to use for production sites. For guidance, see Roadmaps for installation and deployment and select the roadmap that best matches your needs.

Add On New Capability

Install and deploy a new capability or remove an add-on.

Update or Maintain a Current Environment

Migrate or upgrade to a new version or apply maintenance. Also, select this option to rollback maintenance.

More Options

Select from utilities such as connecting to an existing database domain, creating or removing a portal profile, and more.

IBM Knowledge Center developerWorks Forum



6. Select Set Up a Stand-alone Server.





7. Select Database Transfer.

TEM.					wpsadmin Log Out				
Home > Set Up a Stand-ald	Home > Set Up a Stand-alone Server > Database Transfer								
Database Transf	er								
Answer Question In progress	S	2 ^{Customiz}	e Values	Configure					
Answer questions about you script files to run later. If you Upload Saved Selection:	Answer questions about your environment so that the wizard can determine which fields you must complete. Then, you can run the configuration, save your settings, or download the instruction and script files to run later. If you saved your settings from a previous session, you can upload the settings now. Learn More Upload Saved Selections								
System Information	Database Setup	Database Users							
	Target operating system:		IBM i	۲.					
<	Target portal profile name:		wp_profile		>				
	Target portal profile home direct	tory:	/QIBM/UserData/WebSphere/AppSer	rver//85/ND/profiles/wp_profile					



8. Answer the System Information questions for Database Transfer and then click the right arrow.

IBM.					wpsadmin	Log Out
Home > Set Up a Stand-alo	ne Server > Database Transfer					
Database Transfe	er				10	
Answer Question	· 2) Customize Va	alues	Configure		
Answer questions about your script files to run later. If you s Upload Saved Selections	environment so that the wizard can determ aved your settings from a previous session	nine which fields yo n, you can upload ti	ou must complete. Then, you can r the settings now. Learn More	un the configuration, save your settin	gs, or download the	e instruction and
System Information	Database Setup Datab	ase Users				
<	Database management software:	DE	B2 iSeries		۲	>



9. Select the Database management software from the dropdown values and then click the right arrow.

IBM.						wpsadmin	Log Out
Home > Set Up a Stand-alo	ne Server > Database Transfer						
Database Transfe	er						
Answer Question In progress	s	Customize	Value	S	3 Configure		
Answer questions about you script files to run later. If you Upload Saved Selections	r environment so that the wizard can deter saved your settings from a previous sessio	rmine which field on, you can uplo;	ls you m ad the se	ust complete. Then, you can run the ettings now. Learn More	configuration, save your settings	s, or download th	e instruction and
System Information	Database Setup Data	abase Users	_				
	Do you need runtime database user ID	for day-to-day	0	Yes		۲	
	operations:		۲	No			



10. Answer the question for Database Users and then click the right arrow.

IBM.				wpsadmin Log Out	t			
Home > Set Up a Stand-alone Server > Database Transfer								
Database Transfer								
Answer Questions	2 Customize	• Values	3 Configure					
System Information	Database Setup							
	*WebSphere Application Server administrator ID:	wpsadmin		0				
<	*WebSphere Application Server administrator password:			6				
	*Re-enter the password							



11. Answer the questions for System Information and then click the right arrow.

me > Set Up a Stand-alor	ne Server > Database Transfer			
Answer Questions	s 2 °	ustomize Values	2 Configure	
Complete	L In	n progress	3	
System Information	Database Setup			
				Advanced
	*Database name:	JDEP/WPSDB Example: hostname/WPSI	DB	Ð
1	*Data source:	wpdbDS		
	*Database URL:	jdbc:as400:jdep/wpsdb;me Example: jdbc:as400:host	tadata source=1;prompt=false () name/wpsdb;metadata	
	*Configuration user ID:	source=1;prompt=false qsecofr		D
	*Configuration password:	•••••		0
	*Re-enter the password	•••••		
	*Database administrator ID:	qsecofr		0
	*Database administrator password:	•••••		Ð
	*Re-enter the password			
	*IBM DB2 for i connection type:	Type 4 driver		2
	*DB2 for IBM i library:	/JT400/jt400.jar Example: /JDBC driver loc	ation/jt400.jar	D

12. Enter the Database Setup parameters and then click the right arrow.

TEM.			wi	osadmin Log Out
Home > Set Up a Stan	d-alone Server > Database Tra	nsfer		
Database Trar	nsfer			
Answer Ques	tions	2 Customize Values © Complete	3 Configure In progress	
Optional				
Download Wizard Sele	ctions	Download your selections in case you need to run the or another server. Learn More	onfiguration again. You can also use your selections a	as a starting point to set up
Download Configuratio	n Scripts	If you plan to run scripts to set up the configuration inste The archive is named WorkflowInstanceScriptsAll.zip. L	ad of running the steps from the wizard, then downloa .earn More	d an archive of the scripts.
Click Start Configuration the page or lose your co	on to begin. When the wizard rea onnection, the configuration cont	ches a manual step, it pauses the process until you can co inues to run. Log back in to return to a configuration that is	mplete the manual step. You cannot cancel a running in progress. Learn More	configuration. If you leave
Start Configuration	Reset Steps			
Step	Task			Status
1	Manual Step: Create the data Instructions for Step 1	base user profile on IBM DB2 for i.		Not Started
	Mark Step Complete			
2	Manual Step: Create the data Instructions for Step 2	base users and groups.		Not Started
	Mark Step Complete			
3	Back up the properties files th View Step Command	at the wizard uses during the configuration.		Not Started
	Run Step Skip Step			
4	Create your databases. View Step Command			Not Started
	Run Step Skip Step			
5	Validate the database connective View Step Command	ction and environment.		Not Started
	Due Stee L Skie Stee			

13. Click on the Start Configuration button.

jdep:10200 says:	×
You selected to automatically run the configuration steps. The configuration will stop only when it gets to a manual step. Are you ready to start the configuration?	
OK Cancel	

14. Click OK.

aused	
Configuration paused. You must complete "Manual Step: Create the database user profile on IBM DB2 for i." to continue.	
After you complete the step, click Mark Step Complete to continue with the configuration.	

15. The configuration will pause with a notice to complete a manual step. Click OK when the manual step has been completed.

Instructions for Step 1	
 See your database instructions for creating user profiles. Use a different value for your database user profile than used to install WebSphere Portal. The administrator user profile might have more authority than is required and usually belongs to an individual. Ensure that the user and group names comply with both the database management system software requirements and WebSphere Portal requirements. 	^

OK

16. Follow your instructions for creating user profiles.

Paused Configuration paused. You must complete "Manual Step: Create the database users and groups." to continue. After you complete the step, click Mark Step Complete to continue with the configuration.



17. The configuration will pause with a notice to create the database users and groups. Click OK when manual step 1 has been completed.

Instructions for Step 2	
Create the database configuration users for the database domains on the operating system.	Â
 Create the release database configuration user. Use qsecofr as the user ID when you create this user. 	
 Create the community database configuration user. Use qsecofr as the user ID when you create this user. 	
 Create the customization database configuration user. Use qsecofr as the user ID when you create this user. 	
 Create the jcr database configuration user. Use qsecofr as the user ID when you create this user. 	
 Create the feedback database configuration user. Use qsecofr as the user ID when you create this user. 	
 Create the likeminds database configuration user. Use qsecofr as the user ID when you create this user. 	
Create the database configuration groups for the database domains on the operating system where DB2 is installed. See your operating system instructions for details on creating groups.	
 Create the release database configuration group. Use WPBASCFG as the group name on your operating system. 	
 Create the community database configuration group. Use WPBASCFG as the group name on your operating system. 	
 Create the customization database configuration group. Use WPBASCFG as the group name on your operating system. 	
 Create the jcr database configuration group. Use WPJCRCFG as the group name on your operating system. 	
 Create the feedback database configuration group. Use WPPZNCFG as the group name on your operating system. 	
 Create the likeminds database configuration group. Use WPPZNCFG as the group name on your operating system. 	
Assign your database configuration users to the database configuration groups that you	-



18. Perform manual step 2.

Download Configuration Scripts		in you plan to run scripts to set up the configuration instead or running the steps in The archive is named WorkflowInstanceScriptsAll.zip. Learn More	om tie wizaru, tien uownioau an archive of tie schpts.
Click Start Config he page or lose y	uration to begin. When the wizard r our connection, the configuration co	eaches a manual step, it pauses the process until you can complete the manual step. Intinues to run. Log back in to return to a configuration that is in progress. Learn More	You cannot cancel a running configuration. If you leave
Start Configur	ation Reset Steps		
Step	Task		Status
1	Manual Step: Create the da Instructions for Step 1	atabase user profile on IBM DB2 for i.	🖉 Complete
	Mark Step Complete		
2	Manual Step: Create the da Instructions for Step 2	atabase users and groups.	🔗 Complete
	Mark Step Complete		
3	Back up the properties files View Step Command	that the wizard uses during the configuration.	Running
	Run Step Skip Step		View Progress
4	Create your databases. View Step Command		Not Started
	Run Step Skip Step		
5	Validate the database con View Step Command	rection and environment.	Not Started
	Run Step Skip Step		
6	Stop the portal server. View Step Command		Not Started
	Run Step Skip Step		
7	Transfer the database. View Step Command		Not Started
	Run Step Skip Step		
8	Start the portal server. View Step Command		Not Started
	Run Step Skip Step		
Cancel			

19. The configuration page will appear showing the status of the steps.

JD Edwards EnterpriseOne Tools IBM WebSphere Portal for IBM i for Power Systems Guide

Download Configuration Scripts		If you plan to run scripts to set up the configuration instead of running the steps from the wizard, then download an archive of the scripts. The archive is named WorkflowInstanceScriptsAll.zip. Learn More		
Click Start Configuration to begin. When the wizard reaches a manual step, it pauses the process until you can complete the manual step. You cannot cancel a running configuration. If you leave the page or lose your connection, the configuration continues to run. Log back in to return to a configuration that is in progress. Learn More				
Start Configuration	Reset Steps			
Step	Task		Status	
1	Manual Step: Create the data Instructions for Step 1	base user profile on IBM DB2 for i.	🧭 Complete	
2	Manual Step: Create the datal Instructions for Step 2 Mark Step Complete	base users and groups.	🤣 Complete	
3	Back up the properties files the View Step Command	at the wizard uses during the configuration.	🖉 Complete	
	Run Step Skip Step		View Result	
4	Create your databases. View Step Command		Complete	
	Run Step Skip Step		View Result	
5	Validate the database connec View Step Command	tion and environment.	Complete	
	Run Step Skip Step		View Result	
6	Stop the portal server. View Step Command		Complete	
	Run Step Skip Step		View Result	
7	Transfer the database. View Step Command		🖉 Complete	
	Run Step Skip Step		View Result	
8	Start the portal server. View Step Command		🖉 Complete	
	Run Step Skip Step		View Result	
		Finished	.	

20. When the configuration has finished the status will show Completed for each step. Click the Finished button.

Complete	⊠
Configuration completed successfully.	
Next Steps	
You transferred your data from Anache Derby to your preferred database	
One quick way to test your database configuration is to log in and explore the site to validate the site is working as you expected.	
Go to http://host_name:port/context_root/default_portal_home. For example, go to http://host_name:10039/wps/portal.	
Next, you can use other options to configure your environment more.	
If you are setting up a stand-alone server environment, you can use the Enable Federated Security option to add an LDAP user registry.	
If you are setting up a cluster environment, you can use the Create a Deployment Manager option to create a deployment manager profile that is augmented with WebSphere Portal resources.	
Finish	ned



21. A confirmation page will appear providing to test and configure your environment.

wpsadmin Log Out

IBM.

Configuration Wizard

Complete essential configuration tasks with less reading and time spent editing properties files. Repeat common configuration tasks on different servers by using wizard selections saved from another session as a starting point for a new session. Learn More

Set Up a Stand-alone Server

Set up a stand-alone server environment to use for development, demonstrations, and small production sites. For guidance, see Roadmaps for installation and deployment.

Set Up a Cluster

Set up either a dynamic or static cluster to use for production sites. For guidance, see Roadmaps for installation and deployment and select the roadmap that best matches your needs.

Add On New Capability

Install and deploy a new capability or remove an add-on.

Update or Maintain a Current Environment

Migrate or upgrade to a new version or apply maintenance. Also, select this option to rollback maintenance.

More Options

Select from utilities such as connecting to an existing database domain, creating or removing a portal profile, and more.

IBM Knowledge Center developerWorks Forum

22. Select the Set Up a Stand-alone Server option.
wpsadmin Log Out

IBM.

Home > Set Up a Stand-alone Server

Set Up a Stand-alone Server

Set up a stand-alone server environment to use for development, demonstrations, and small production sites. For guidance, see Roadmaps for installation and deployment. Learn More

Database Transfer

Select this option to transfer data from Apache Derby to any of the database types that are supported by WebSphere Portal.

Enable Federated Security

Add an LDAP user registry to the default federated repository to store user account information for authorization.



23. Select the Enable Federated Security option.

TEM.						wpsadmin	Log Out
Home > Set Up a Stand-ald	one Server > Enable Federated Secu	rity					
Enable Federate	d Security						
Answer Question In progress	S	2 ^{Customize}	Values		3 Configure		
Answer questions about you script files to run later. If you Upload Saved Selection	r environment so that the wizard can o saved your settings from a previous se s	determine which field ession, you can uplo	ds you must complete. Then, ad the settings now. Learn I	you can run the cor vlore	nfiguration, save your settir	igs, or download th	ne instruction and
System Information	Security Settings						
	Target operating system:		IBM i		T		
S	Target portal profile name:		wp_profile				>
	Target portal profile home directory:		/QIBM/UserData/WebSpher	re/AppServer/V85/N	D/profiles/wp_profile		
Cancel							

24. Answer the System Information questions for Enable Federated Security and then click the right arrow.

TEM.				wpsadmin	Log Out
Home > Set Up a Stand-ald	one Server > Enable Federated Security				
Enable Federate	d Security				
Answer Question In progress	2 ^{Customiz}	e Valu	as 3 Configure		
Answer questions about you script files to run later. If you Upload Saved Selection	ir environment so that the wizard can determine which fie saved your settings from a previous session, you can upl s	lds you oad the	must complete. Then, you can run the configuration, save your sett settings now. Learn More	tings, or download t	he instruction and
System Information	Security Settings				
	User registry software:	IBM (Directory Server	۲	
<	Do you need SSL between the portal server and the user registry:	•	Yes, enable SSL No, do not enable SSL	۲	>
	Can portal update entries in your LDAP registry:	•	Yes, portal can create, update, and delete entries No, portal cannot modify entries		
	Use Administrator IDs stored in your LDAP user registry:		Yes, use the IDs from the LDAP user registry No, use the IDs in the file-based system repository	۲	
Cancel					

25. Answer the Security Settings questions for Enable Federated Security and then click the right arrow.

IBM.			W	rpsadmin Log Out
Home > Set Up a Stand-alone	e Server > Enable Federated Security			
Enable Federated	Security			
Answer Questions	2 Customize In progress	e Values 3	Configure	
File-based Administrato	rs User Registry Information			
	*WebSphere Application Server administrator ID:	WP2admin	(?)	
<	*WebSphere Application Server administrator password:			
	*Re-enter the password			
	*WebSphere Portal administrator ID:	wpsadmin	۲	
	*WebSphere Portal administrator password:	•••••	۲	
	*Re-enter the password			

26. Enter the parameters for the File-based Administrators and then click the right arrow.



ile-based Adr	ninistrators User Registry Information		
			Advanced
	*LDAP Repository ID:	myldapid (2)	
	*LDAP host name:	jdep.us.oracle.com	
		Example: yourhost.yourco.com	
	*LDAP port:	389	
	Base DN:	dc=JDEP,dc=US,dc=ORACLE,dc=COM	
	*Bind DN:	uid=wpsbind,cn=users,dc=JDEP,dc=US,dc=ORACLE,dc=COM	
	*Bind password:	······	
	*Re-enter the password	•••••	
	Administrator group DN from LDAP:	cn=wpsadmins,cn=groups,dc=JDEP,dc=US,dc=ORACLE,dc=CON	
	*Administrator DN from LDAP:	uid=wpsadmin,cn=users,dc=JDEP,dc=US,dc=ORACLE,dc=COM ③	
	*Administrator password from LDAP:		
	*Re-enter the password	•••••	
	Default parent for group:	cn=groups,dc=JDEP,dc=US,dc=ORACLE,dc=COM	
	Default parent for PersonAccount	example: cn=gloups,dc=yourco,dc=com	

27. Enter the parameters for User Registry Information and then click the right arrow.

Enable Federat	ed Security			
Answer Questi	ons	2 Customize Values	3 Configure In progress	
Optional				
Download Wizard Select	ons Downloa another s	ad your selections in case you need to run the config server. Learn More	guration again. You can also use your selections as	a starting point to set up
Download Configuration	Scripts If you pla The arch	an to run scripts to set up the configuration instead o nive is named WorkflowInstanceScriptsAll.zip. Learr	f running the steps from the wizard, then download a More	an archive of the scripts.
Click Start Configuration the page or lose your con	to begin. When the wizard reaches a man nection, the configuration continues to run	ual step, it pauses the process until you can comple . Log back in to return to a configuration that is in pr	ete the manual step. You cannot cancel a running co ogress. Learn More	onfiguration. If you leave
Start Configuration	Reset Steps			
Step	Task			Status
1	Validate your LDAP server settings. View Step Command			Not Started
	Run Step Skip Step			
2	Add an LDAP user registry to the default View Step Command	federated repository.		Not Started
	Run Step Skip Step			
3	Update the user registry where new user View Step Command	rs and groups are stored.		Not Started
	Run Step Skip Step			
4	Register the WebSphere Application Ser View Step Command	ver scheduler tasks.		Not Started
	Run Step Skip Step			
5	Replace the file-based WebSphere Porta View Step Command	al and WebSphere Application Server users and gro	oups with users and groups from your LDAP server.	Not Started
	Run Step Skip Step			
6	Recycle the servers after a security change View Step Command	ge.		Not Started
	Run Step Skip Step			

28. Click the Start Configuration button.

jdep:10200 says:	×
You selected to automatically run the configuration steps. The configuration will stop only when it gets to a manual step. Are you ready to start the configuration?	
Prevent this page from creating additional dialogs.	
OK Cancel]



29. Click OK to begin the configuration.

	lerated Security		
Answer Q	uestions e	2 Customize Values Complete 3 Configure In progress	
ptional			
ownload Wizard S	Selections	Download your selections in case you need to run the configuration again. You can also use your selections as another server. Learn More	a starting point to set up
ownload Configu	ration Scripts	If you plan to run scripts to set up the configuration instead of running the steps from the wizard, then download an archive of the scripts. The archive is named WorkflowInstanceScriptsAll.zip. Learn More	
lick Start Configu e page or lose yo	tration to begin. When the wizard read our connection, the configuration conti	ches a manual step, it pauses the process until you can complete the manual step. You cannot cancel a running co nues to run. Log back in to return to a configuration that is in progress. Learn More	onfiguration. If you leave
Start Configura	tion Reset Steps		
Step	Task		Status
1	Validate your LDAP server se View Step Command	ttings.	Running
	Run Step Skip Step		View Progress
2	Add an LDAP user registry to View Step Command	the default federated repository.	Not Started
2	Add an LDAP user registry to View Step Command Run Step Skip Step	the default federated repository.	Not Started
2	Add an LDAP user registry to View Step Command Run Step Skip Step Update the user registry wher View Step Command	the default federated repository.	Not Started
2 3	Add an LDAP user registry to View Step Command Run Step Skip Step Update the user registry wher View Step Command Run Step Skip Step	the default federated repository. re new users and groups are stored.	Not Started
2 3 4	Add an LDAP user registry to View Step Command Run Step Skip Step Update the user registry wher View Step Command Run Step Skip Step Register the WebSphere App View Step Command	the default federated repository. re new users and groups are stored. lication Server scheduler tasks.	Not Started Not Started Not Started
2 3 4	Add an LDAP user registry to View Step Command Run Step Skip Step Update the user registry wher View Step Command Run Step Skip Step Register the WebSphere App View Step Command Run Step Skip Step	the default federated repository. re new users and groups are stored. lication Server scheduler tasks.	Not Started Not Started Not Started
2 3 4 5	Add an LDAP user registry to View Step Command Run Step Skip Step Update the user registry wher View Step Command Run Step Skip Step Register the WebSphere App View Step Command Run Step Skip Step Register the WebSphere App View Step Command Run Step Skip Step Replace the file-based WebS View Step Command	the default federated repository. The new users and groups are stored. The and Server scheduler tasks. The phere Portal and WebSphere Application Server users and groups with users and groups from your LDAP server.	Not Started Not Started Not Started Not Started
2 3 4 5	Add an LDAP user registry to View Step Command Run Step Skip Step Update the user registry wher View Step Command Run Step Skip Step Register the WebSphere App View Step Command Run Step Skip Step Register the WebSphere App View Step Command Run Step Skip Step Replace the file-based WebS View Step Command Run Step Skip Step Run Step Skip Step	the default federated repository. re new users and groups are stored. lication Server scheduler tasks. phere Portal and WebSphere Application Server users and groups with users and groups from your LDAP server.	Not Started Not Started Not Started Not Started
2 3 4 5 6	Add an LDAP user registry to View Step Command Run Step Skip Step Update the user registry when View Step Command Run Step Skip Step Register the WebSphere App View Step Command Run Step Skip Step Register the Generation Run Step Skip Step Replace the file-based WebS View Step Command Run Step Skip Step Replace the servers after a se View Step Command	the default federated repository. re new users and groups are stored. lication Server scheduler tasks. phere Portal and WebSphere Application Server users and groups with users and groups from your LDAP server. curity change.	Not Started Not Started Not Started Not Started Not Started

- **30.** The configuration screen will show the status of the steps as the configuration progresses.
- **31.** When the configuration has finished the status will show Completed for each step. Click the Finished button.





4 Database Configuration for WebSphere Portal

Database Configuration for WebSphere Portal

By default, IBM WebSphere Portal v8.5 installs and uses an Apache Derby database. Installing with Apache Derby lets you quickly get WebSphere Portal installed and running in a proof-of-concept environment. Before using the product extensively, you should visit the IBM Information Center for Portal v8.5 to learn the advantages and disadvantages of using Apache Derby and determine how transferring to another database affects the capacity and scalability of a production environment. Please refer to the following link from IBM: https://www-304.ibm.com/support/docview.wss?

The Apache Derby database that is installed by default is not intended for use in a production environment or for authoring Web content. Derby does not support clustered environments, enabling security in a database-only mode, or vertical cloned environments in which multiple application servers are configured on a single server. Use one of the other supported databases in a production environment or when authoring Web content because they are better able to handle large amounts of data and can be tuned for performance.

When you choose to transfer data to another supported database such as Oracle or SQL Server or *DB2 for Linux, UNIX, and Windows database* or *DB2 for i*, perform the database transfer before you use the portal extensively. Large amounts of data in the databases can cause the database transfer to fail if your Java heap size is not large enough. Because information is added to the databases as you use the Portal, perform the database transfer as soon as it is practical to avoid problems in a production environment.

Data can be transferred from a Derby database, but cannot be transferred to a Derby database. If you are transferring from a database other than the default database, you will need to edit the wkplc.properties, wkplc_dbdomain.properties and wkplc_dbtype.properties files to update the source and target database information.

You can install the database server on the same system as WebSphere Portal, or you can install the database server on a different, also referred to as a remote system.

Using a remote database can have performance benefits. When you are deploying a large scale environment, you can dedicate a server specifically to your database. As more users are accessing the portal, the portal application becomes database intensive. Database activity can take up CPU utilization and disk I/O time. You can increase capacity by separating the database from the server that the Portal is running on increases capacity.

If you install the database server on a remote system, you may be required to install database client software on the WebSphere Portal system so the Portal can communicate with the remote database server.

Documentation in this section is taken directly from IBM WebSphere Portal v8.5 Infocenter.





5 Preparing DB2 for i

Prerequisites

Before beginning the database configuration, verify that a supported version of *DB2 for i* Database software is installed. Refer to the Minimum Technical Requirements for this information. In addition, it is strongly recommended that you visit the IBM WebSphere Portal Version v8.5 Information Center and review the "Configuring WebSphere Portal to use a database" section (*http://www-10.lotus.com/ldd/portalwiki.nsf/dx/Windows_standalone_Configuring_WebSphere_Portal_to_use_a_database_wp7*).

To modify the wkplc.properties, wkplc_dbdomain.properties, and wkplc_dbtype.properties files to work with your database. Modify these property files before running tasks to create databases, create users, or transfer data.

Working with Properties Files

- The WebSphere Portal database can be used to hold information for applications such as Personalization (Feedback) and LikeMinds. To prepare the database to hold such application information, you should use similar naming conventions for property values such as release.DbName. Here are some examples:
 - o release.DbName=hostname/WP85REL
 - o community.DbName=hostname/WP85COM
 - o customization.DbName=hostname/WP85CUS
 - o jcr.DbName=hostname/WP85JCR
 - feedback.DbName=hostname/WP85FBK
 - o likeminds.DbName=hostname/WP85LKM
- If you are using a remote database, enter the values for the remote server.
- Regardless of the operating system, use a forward slash (/) instead of a backslash (\) in the property files for file system paths.
- There might be additional database properties other than those listed here. Only change the properties within this task and skip all other properties.
- · Some values, shown here in italics, might need to be modified to your specific environment.
- Password Considerations

For security reasons, you should not store passwords in the wkplc.properties,wkplc_dbdomain.properties, and wkplc_dbtype.properties files. It is recommended that you edit each of the properties files before running a configuration task, inserting the passwords needed for that task. Then, after the task has run, you should delete all passwords from each file.

- The recommended value listed for each property represents the specific information that is required to configure WebSphere Portal to your target database.
- Depending on which database domain has to be configured, replace dbdomain with:
 - release
 - customization
 - community



- ∘ jcr
- feedback
- likeminds
- The values for at least one of the following properties must be unique for the release, customization, community, and JCR domains:
 - dbdomain.DbName
 - dbdomain.DbUrl
 - o dbdomain.DbSchema
- If you use the same values for all three properties across the release, customization, community, and JCR domains, the database-transfer task fails due to ambiguous database object names.
- If DbUser, DbUrl, and DbPassword are not the same across domains, the value for DataSourceName must differ from the DataSourceName of the other domains. In other words, this value must be unique for the database domain.
- When you create a schema, you must use the following schema naming conventions on the IBM® i system:

Note: The default schema names may be used with the product.

- Length cannot exceed 10 characters
- All alphanumeric characters are allowed ("A" through "Z" and "1" through "O")
- The following characters are invalid:
 - spaces
 - null values
 - asterisk (*)
 - quotation marks (")
 - colon (:)
 - greater than symbol (>)
 - less than symbol (<)
 - vertical bar (|)
 - plus sign (+)
 - semicolon (;)
 - single quotation mark (')
 - question mark (?)

Note: Make sure you know what valid schema names are and do not use a schema name which already exists on the local or remote system. Follow the documentation of the target database management system in order to define a valid schema name as restrictions apply. Note that the Create WebSphere Portal wizard will automatically check schema names for you. For more information on database and schema naming conventions, refer to the *DB2 for i* Universal Database for System i5 content in the System i5 information center.



- 1. Locate the following files and create a backup copy of each before changing any values:
 - o wp_profile_root/ConfigEngine/properties/wkplc.properties
 - wp_profile_root/ConfigEngine/properties/wkplc_dbdomain.properties
 - wp_profile_root/ConfigEngine/properties/wkplc_dbtype.properties
 - If you are transferring from a database other than Derby: wp_profile_root/ConfigEngine/properties/ wkplc_sourceDb.properties

Default values are listed in these files. Unless otherwise noted, all values are of type alphanumeric text string. Print out the steps below for reference before modifying the properties files. Make sure to enter the appropriate values for each instance of each property. In wkplc_dbdomain.properties, most properties are repeated for each domain.

2. Use a text editor to open the properties files and enter the values that are appropriate for your environment. You can also modify each properties file locally on your System i5 system by typing the following on an OS/400 command line in a 5250 session:

Note: This step only applies when WebSphere Portal is installed on IBM i, and you are transferring to IBM *DB2 for i*.

EDTF 'wp_profile_root/ConfigEngine/properties/property filename.properties'

where property filename is wkplc_dbdomain, wkplc, or wkplc_dbtype.

Note: You must have a user profile on the IBM i server and must have at least *USE special authority to edit the properties file.

Tip: The steps for transferring data to another supported database section provide instructions for manually transferring data. Instead of performing the following steps, you can use the configuration wizard, which is a graphical user interface, to transfer data to another supported database. Properties must be changed before creating a database name and schema on a local or remote IBM i server.

- **3.** Use a text editor to open the properties file wkplc_dbdomain.properties and modify the values to correspond to your environment.
 - a. For dbdomain.DbType, type db2_iseries.
 - b. For dbdomain.DbName, type the name of the WebSphere Portal domain database.

Note: This value is also the database element in the dbdomain.DbUrl property.

c. For dbdomain.DbSchema, type the schema name of the database domain.

Note: Review your target database management system documentation to define a valid schema name. Some database management systems have schema name restrictions that you need to understand.

d. For dbdomain.DataSourceName, type the name of the data source that WebSphere Portal uses to communicate with its databases.

Do not use the following reserved words:

- releaseDS
- communityDS



- customizationDS
- jcrDS
- ImdbDS
- feedback
- e. For dbdomain.DbUrl, type the database URL used to access the WebSphere Portal database with JDBC. The value must conform to the JDBC URL syntax specified by the database. The connection property metadata source=1 must be specified for databases running on systems older than IBM i V7R1. Refer to the following example when WebSphere Portal is installed on IBM i and you transferring data remotely or locally to *DB2 for i*:

dbdomain.DbUrl="jdbc:as400:daisy.mycorp.com/WPDBREL;metadata source=1"

Refer to the following example when WebSphere Portal is installed on Windows and you transferring data remotely to *DB2 for i* for idbdomain:

DbUrl="jdbc:as400:daisy.mycorp.com/WPDBREL;metadata source=1"

Refer to the following example when WebSphere Portal is installed on a UNIX platform, and you are transferring data to *DB2 for i* for i:dbdomain:

DbUrl="jdbc:as400:daisy.mycorp.com/WPDBREL;metadata source=1;prompt=false"

If the X11 DISPLAY is set and active, do not add the ;prompt=false to the URL.

Note: The database element of this value should match the value of DbName.

- f. For dbdomain.DbUser, type the user ID for the database configuration user.
- g. For dbdomain.DbPassword, type the password for the database configuration user.
- **h.** For dbdomain.DbConfigRoleName, type the name of the group for database configuration users. Database rights are granted to this group instead of individuals. The user specified for dbdomain.DbUser must be assigned to this group.
- i. **Optional**: For dbdomain.DbRuntimeUser, type the user ID of the database user that should be used by WebSphere Portal to connect to the database at runtime. If no value is specified for this setting, the database configuration user will be used to connect to the databases at runtime.
- j. If dbdomain.DbRuntimeUser is specified, you must set dbdomain.DbRuntimePassword to be the password of the runtime database user.
- **k.** For dbdomain.DbRuntimeRoleName, type the name of the group for database runtime users. Database rights are granted to this group instead of individuals. The user specified for dbdomain.DbRuntimeUser must be assigned to this group.
- 1. **Optional**: For dbdomain.DBA.DbUser, type the database administrator user ID for privileged access operations during database creation. If you do not need this parameter, you can either accept the default value or leave blank.
- **m. Optional**: For dbdomain.DBA.DbPassword, type the database administrator password for privileged access operations during database creation. If you do not need this parameter, you can either accept the default value or leave blank.
- 4. Save and close the file.

5. Update the following properties in the file wkplc_dbtype.properties.

Note: You must download the jt400.jar file before database transfer. Refer to wkplc_dbtype.properties for more information on downloading the jt400.jar file.

- a. For db2_iseries.DbDriver, type the name of the JDBC driver class.
- **b.** For db2_iseries.DbLibrary, type the directory and name of the .zip or .jar file that contains the JDBC driver class.
- **c.** For db2_iseries.JdbcProviderName, type the name of the JDBC provider that WebSphere Portal uses to communicate with its databases.
- d. For db2_iseries.DbDriverType, type the number representing the driver type for the database.
- 6. Save and close the file.
- 7. Update the WasPassword value in the wkplc.properties file. This value is the password for the WebSphere Application Server security authentication used in your environment.
- **8.** Save and close the file.

View information on setting up user profiles for DB2 for i to work with WebSphere Portal.

Before you begin:

- The user profile for the database owner should be different from the administrator user profile used to perform the installation. The administrator user profile may have more authority than is required and usually belongs to an individual, where as the database user profile may have minimal authority and can be shared.
- Create a database user profile that does not require a password change over a period of time. If the password for the database user profile changes, WebSphere Portal must be reconfigured to use the new password.
- Create users in an environment that has the same settings as the actual runtime environment. For example, avoid creating a user in an English environment if you plan to use that user in a Turkish environment.

A remote database resides on a different system than WebSphere Portal. When you use a remote server, you must manually create the databases that are required by WebSphere Portal.

Before you begin:

- The user ID and password used must have the authority to create database libraries on the remote System i5 machine.
- For every property instance of a database that uses *LOCAL/schema, replace it with HostName/schema.

For example, the default database and database library name for WebSphere Portal release domain is release.DbName=wpsdb. If you wanted to create this database library on a remote database, change the default value to release.DbName=hostname/wpsdb

To create all the domain database libraries, perform the following steps:

- 1. Start a 5250 session on the remote database machine.
- 2. Type the i command WRKRDBDIRE to display the Relational Database Directory Entry for Remote Location *LOCAL and make a note of the value displayed.
- **3.** Sign off from the 5250 session.
- 4. Start a 5250 session on the local machine where WebSphere Portal is installed.
- 5. Create a Relational Database Directory Entry on the local system for the remote system using i command WRKRDBDIRE.
- **6.** Add an entry with the following values:
 - Relational database

The remote relational database. Use the value noted from the prior step.



- Relational database alias
 - The hostname. Use the short TCP/IP hostname of the remote system
- Remote location

The domain qualified hostname. Use the full TCP/IP hostname of the remote system

- 。 Type
 - IP
- Port number or service name

DRDA

• Remote authentication method

Preferred method: ENCRYPTED

Allow lower authentication: ALWLOWER

7. Create the required *DB2 for i* packages on the remote database machine by running the following command from the local machine:

JAVA CLASS (com.ibm.db2.jdbc.app.DB2PackageCreator) PARM('rdb_alias' 'userid' 'password') PROP((jdbc.drivers 'com.ibm.as400.access.AS400JDBCDriver'))where rdb_alias matches the name of the Relational Database Entry you created in step 2, where userid is the database administrator user ID on the remote machine, and where password is the database administrator password on the remote machine.

The output should be: Java program completed

- 8. Press F3 to exit Java Shell Display.
- 9. Sign off from the 5250 session.
- **10.** Start a 5250 session on the remote database machine.
- **11.** Verify the required *DB2 for i* packages were created by running the command WRKOBJ OBJ(QGPL/QSQCL*) OBJTYPE(*SQLPKG)

The output should be:

Opt	Object	Туре	Library	Attribute	Text
	QSQCLIPKGA	*SQLPKG	QGPL	PACKAGE	
	QSQCLIPKGC	*SQLPKG	QGPL	PACKAGE	
	QSQCLIPKGL	*SQLPKG	QGPL	PACKAGE	
	QSQCLIPKGN	*SQLPKG	QGPL	PACKAGE	
	QSQCLIPKGS	*SQLPKG	QGPL	PACKAGE	

- **12.** Start a 5250 session on the local machine where WebSphere Portal is installed.
- **13.** On the command line, enter the following to change directories: cd wp_profile_root/ConfigEngine.
- 14. Press Enter.
- **15.** Change the property values in the configuration properties files before entering the following on the command line:

ConfigEngine.sh create-database

16. Press Enter.

View the steps to manually transfer data to the IBM® DB2 for i Universal Database™ database you have set up. As an alternative to the manual database transfer procedure described here, you can use the configuration wizard to complete the database transfer task. However, you cannot specify all settings through the configuration wizard. For example, regardless of the method used to transfer data, you must run a configuration task to create JMS resources as described in this topic.



Before you begin, ensure that the following prerequisites are met:

- Supported database software is installed.
- Databases and users are set up.
- 1. Stop both the server1 and WebSphere_Portal servers:
 - stopServer server1 username admin_userid password admin_password
 - stopServer WebSphere_Portal -username admin_userid -password admin_password
- 2. Validate configuration properties using the ConfigEngine.sh validate-database -DWasPassword=password command.

Tip: Add the -DTransferDomainList parameter to the above validating task to specify the domains you want to validate; for example: -DTransferDomainList=jcr. If you want to validate all domains, you do not need to specify this parameter on the command line.

- **3.** Transfer the database:
 - a. Enter the following command:

ConfigEngine.sh database-transfer -DWasPassword=password

Note:

To select specific database domains to transfer, modify the-DTransferDomainList specified in the command to include only the domains that you want to transfer. For example, to transfer only the JCR domain you can enter the following command:

./ConfigEngine.sh database-transfer-DTransferDomainList=jcr-DWasPassword=password

This note only applies when transferring databases from DB2 for i to another server with DB2 for i . If you are transferring databases from a database other than DB2 for i , you can skip this note. Use SBMJOB to submit the Qshell script as a batch job to run in *BASE pool when *INTERACT pool does not have 1GB or more of allocated memory. For example: SBMJOB CMD(STRQSH CMD(ConfigEngine.sh database-transfer-DWasPassword=password))

- After running the task, a message is added to the following log file for you to verify the task ran successfully: wp_profile_root/ConfigEngine/log/ConfigTrace.log
 If the configuration fails, verify the values in the wkplc.properties, wkplc_dbdomain.properties, andwkplc_dbtype.properties files and then repeat this step.
- 4. Run the ConfigEngine.sh create-jcr-jms-resources-post-dbxfer -DWasPassword=password command to create JMS resources in the new database.

Note: Regardless of the method used to transfer data (configuration wizard or the steps in this topic), you must run this task to create JMS resources.

5. Start the WebSphere Portal server.

See Starting and stopping servers, deployment managers, and node agents for instructions.



Compare the following file on all nodes with the file from the primary node. Ensure all instances of the file are identical: wp_profile_root/PortalServer/jcr/lib/com/ibm/icm.properties. If the files are not identical, copy icm.properties from the primary node on which you ran the database-transfer task to the node.

- 1. Stop the portal server on the secondary node.
- 2. Copy wp_profile_root/PortalServer/jcr/lib/com/ibm/icm/icm.properties from the primary node and replaceicm.properties on the secondary node.
- 3. Start the portal server on the secondary node.

Verifying Database Connections

After WebSphere Portal is configured to work with your database, test the database connection to ensure that it operates correctly. You can verify the connection from a browser or from a command line.

To verify that WebSphere Portal is running from a browser, open the portal in a Web browser: *http:// hostname.yourco.com:port_number/wps/portal*, where hostname.yourco.com is the fully qualifiedhost name of the machine where WebSphere Portal is running and port_number is the transport port that is created by IBM® WebSphere® Application Server.

There may be an error if any of the following conditions appear:

- When trying to access the portal you get a 503 error.
- If you had any locale problems with your database, you could see invalid characters, such as ????, after logging in. This may happen if the character set of the database is not UTF-8 compliant.
- If something went wrong with the data that was transferred, you may not be able to log in. WebSphere Portal will indicate you entered an invalid user ID and password even though you know it is valid.

Verify the connection from a command line by completing the following steps:

- 1. Open a command line on the local machine where WebSphere Portal is installed.
- 2. For WebSphere Portal on WebSphere Application Server (UserData path), enter the following on the command line: cd wp_profile_root/ConfigEngine.
- **3.** Enter the following command:

ConfigEngine.sh validate-database-connection -DTransferDomainList=release,community,customization,jcr,feedback,likeminds -DWasPassword=password

For security reasons, you should not leave passwords in the wkplc_dbdomain.properties file. Edit the file before running a configuration task and insert the passwords that are needed for that task. After the task has run, delete all passwords from the file. Alternatively, you can specify the password on the command line rather than update the wkplc_dbdomain.properties file. For example: ConfigEngine.sh -DPortalAdminPwd=password -DWasPassword=password validate-database When installing WebSphere Portal, the passwords in the wkplc_dbdomain.properties file are automatically removed after configuration.

Configuring WebSphere Portal to Use a User Registry on IBMi

If you plan to use a Tivoli Directory Server as an LDAP user registry, you must install and set up the server so that it will communicate with IBM WebSphere Portal.

Perform the following steps to prepare Tivoli Directory Server:

 Customize the LDAP directory servers settings using the Directory Services Configuration Wizard. You must have *ALLOBJ and *IOSYSCFG special authority to use the wizard. Go to IBM System i and i5/OS Information Center, select the appropriate Information Center version and navigate to e-business and Web serving > Security and Directory Server > IBM Directory Server for *IBM i* for information.

Note: Due to a restriction in Tivoli Directory Server, users or groups must not contain a Turkish uppercase dotted I or lowercase dotted i in the DN as this will prevent correct retrieval of that user or group.

- 2. Perform the following steps to create the WebSphere Portal administrative user:
 - a. Optional: Perform the following steps to create a new directory suffix:
 - Go to IBM System i and i5/OS Information Center, select the appropriate Information Center version and navigate to Networking > TCP/IP applications, protocols, and services > IBM Directory Server for *IBM i* (LDAP) > Administering Directory Server > Adding and Removing Directory Server suffixes for information.
 - Stop and restart the LDAP server.
 - **b.** Open the appropriate LDIF file, located in the root directory of the CD setup, with a text editor:
 - Use the PortalUsers.ldif file as a working example and adapted appropriately to work with your LDAP server.
 - Use the ContentUsers.ldif file for the *DB2 for i* Content Manager group and user IDs if you configured *DB2 for i* Content Manager.
 - **c.** Replace every dc=yourco,dc=com with your suffix.
 - d. Replace any prefixes and suffixes that are unique to your LDAP server.
 - e. You can specify user names other than wpsadmin and wpsbind. For security reasons, specify nontrivial passwords for these administrator accounts.
 - **f. Optional**: If using IBM Tivoli® Access Manager for e-business Version 5.1, set the objectclasses to accessGroup. If using Tivoli Access Manager Version 6, set the objectclasses to groupOfNames.
 - g. Save your changes.
 - h. Follow the instructions provided with your directory server to import the LDIF file.
 - i. Stop and restart the LDAP server.

Configuring a Standalone LDAP User Registry on IBMi

If you plan to use a Tivoli Directory Server as an LDAP user registry, you must install and set up the server so that it will communicate with IBM® WebSphere® Portal.



Perform the following steps to prepare Tivoli Directory Server:

 Customize the LDAP directory servers settings using the Directory Services Configuration Wizard. You must have *ALLOBJ and*IOSYSCFG special authority to use the wizard. Go to IBM System i and i5/OS Information Center, select the appropriate Information Center version and navigate to e-business and Web serving -> Security and IBM Tivoli Directory Server for i5/OS (LDAP) -> IBM Tivoli Directory Server for i5/OS (LDAP) for information.

Note: Due to a restriction in Tivoli Directory Server, users or groups must not contain a Turkish uppercase dotted I or lowercase dotted i in the DN as this will prevent correct retrieval of that user or group.

- 2. Perform the following steps to create the WebSphere Portal administrative user:
 - a. Optional: Perform the following steps to create a new directory suffix:
 - Go to IBM System i and i5/OS Information Center, select the appropriate Information Center version and navigate to Networking -> TCP/IP applications, protocols, and services -> IBM Directory Server for *IBM i* (LDAP) -> Administering Directory Server -> General administration tasks -> Adding and Removing Directory Server suffixes for information.
 - Stop and restart the LDAP server.
 - **b.** Open the appropriate LDIF file, located in the root directory of the CD setup, with a text editor:

Use the PortalUsers.ldif file as a working example and adapted appropriately to work with your LDAP server. Use the ContentUsers.ldif file for the *DB2 for i* ® Content Manager group and user IDs if you configured *DB2 for i* Content Manager.

- **c.** Replace every dc=yourco,dc=com with your suffix.
- d. Replace any prefixes and suffixes that are unique to your LDAP server.
- e. You can specify user names other than wpsadmin and wpsbind. For security reasons, specify nontrivial passwords for these administrator accounts.
- **f. Optional**: If using IBM Tivoli® Access Manager Version 5.1, set the objectclasses to accessGroup. If using Tivoli Access Manager Version 6, set the objectclasses to groupOfNames.
- g. Save your changes.
- h. Follow the instructions provided with your directory server to import the LDIF file.
- i. Stop and restart the LDAP server.

Standalone LDAP without SSL

Configure IBM® WebSphere® Portal to use a standalone LDAP user registry to store all user account information for authorization.

In a single server environment the following task does not have a dependency on the server status; therefore, the WebSphere_Portal and server1 servers can be either stopped or started. In a clustered environment you must stop all application servers on the system including WebSphere_Portal and server1 and then start the nodeagent and deployment manager servers before starting the following task.

If you need to rerun the wp-modify-ldap-security task to change the LDAP repositories or because the task failed, you must choose a new name for the realm using the standalone.ldap.realm parameter or you can set ignoreDuplicateIDs=true in thewklpc.properties file, before rerunning the task.

Perform the following steps to configure a standalone LDAP user registry:

Note: Use the wp_security_xxx.properties helper file, located in the wp_profile_root/ConfigEngine/config/ helpersdirectory, when performing this task to ensure the correct properties are entered. In the instructions below, when the step refers to thewkplc.properties file, you will use your wp_security_xxx.properties helper file.

- 1. Use a text editor to open the wkplc.properties file, located in the wp_profile_root/ConfigEngine/properties directory.
- 2. Required: Enter a value for the following required parameters in the wkplc.properties file under the Stand-alone security heading:

Note: See the properties file for specific information about the required parameters and for advanced parameters.

```
standalone.ldap.id
standalone.ldap.host
standalone.ldap.port
standalone.ldap.bindDN
standalone.ldap.bindPassword
standalone.ldap.ldapServerType
standalone.ldap.userIdMap
standalone.ldap.groupIdMap
standalone.ldap.groupMemberIdMap
standalone.ldap.userFilter
standalone.ldap.groupFilter
standalone.ldap.serverId
standalone.ldap.serverPassword
standalone.ldap.realm
standalone.ldap.primaryAdminId
standalone.ldap.primaryAdminPassword
standalone.ldap.primaryPortalAdminId
standalone.ldap.primaryPortalAdminPassword
standalone.ldap.primaryPortalAdminGroup
standalone.ldap.baseDN
```

3. Required: Enter a value for the following required entity types parameters in the wkplc.properties file under the LDAP entity types heading:

Note: See the properties file for specific information about the required parameters and for advanced parameters.

```
standalone.ldap.et.group.objectClasses
standalone.ldap.et.group.objectClassesForCreate
standalone.ldap.et.group.searchBases
standalone.ldap.et.personaccount.objectClassesForCreate
standalone.ldap.et.personaccount.searchBases
```

 Required: Enter a value for the following required group member parameters in the wkplc.properties file under the Group member attributes heading:

Note: See the properties file for specific information about the required parameters and for advanced parameters.

```
standalone.ldap.gm.groupMemberName
standalone.ldap.gm.objectClass
standalone.ldap.gm.scope
standalone.ldap.gm.dummyMember
```



5. Required: Enter a value for the following required relative distinguished name (RDN®) parameters in the wkplc.propertiesfile under the Default parent, RDN attribute heading:

Note: See the properties file for specific information about the required parameters and for advanced parameters.

```
standalone.ldap.personAccountParent
standalone.ldap.groupParent
standalone.ldap.personAccountRdnProperties
standalone.ldap.groupRdnProperties
```

- 6. Save your changes to the wkplc.properties file.
- 7. Run the ConfigEngine.sh validate-standalone-ldap -DWasPassword=password task to validate your LDAP server settings.

Note: If you have not deleted the default file repository, WasPassword is the value entered during installation and not a value found in your LDAP user registry.

Note: During the validation task, you may receive the following prompt: Add signer to the trust store now? Press y, then Enter.

- 8. Run the ConfigEngine.sh wp-modify-ldap-security -DWasPassword=password task, from the wp_profile_root/ ConfigEngine directory, to set the standalone LDAP user registry.
- **9.** Stop and restart the appropriate servers to propagate the changes. For specific instructions, see the following link under Related tasks: Starting and stopping servers, deployment managers, and node agents.
- **10.** Run the ConfigEngine.sh wp-validate-standalone-ldap-attribute-config -DWasPassword=password task, from the wp_profile_root/ConfigEngine directory, to check that all defined attributes are available in the configured LDAP user registry.

Note: When you finish configuring your LDAP user registry, see "Adapting the attribute configuration" for information about adding and mapping attributes to ensure proper communication between WebSphere Portal and the LDAP server.

11. Optional: Run the Member Fixer task to update the member names used by Web Content Management with the corresponding members in the LDAP directory. This step ensures that access to the Web content libraries for the Intranet and Internet Site Templates for the contentAuthors group is correctly mapped to the appropriate group in the LDAP directory.

Note: This step is only needed if you have installed the product with Web Content Management and intend to use the Intranet and Internet Site Templates that were optionally installed with the product by running the configure-express task.

- a. Edit the wp_profile_root/PortalServer/wcm/shared/app/config/wcmservices/ MemberFixerModule.properties file.
- b. Add the following lines to the file:

uid=xyzadmin,o=defaultWIMFileBasedRealm -> portal_admin_DN

cn=contentauthors,o=defaultWIMFileBasedRealm -> content_authors_group_DN

Where portal_admin_DN is the distinguished name of the portal administrator and content_authors_group_DN is the distinguished name of the content authors group used during LDAP configuration.

Important:



Note:

- Ensure the portal administrator you specify for portal_admin_DN is a member of the group you specify forcontent_authors_group_DN, otherwise the portal administrator cannot access the Web content libraries for the Intranet and Internet Site Templates.
- If you plan to run the express-memberfixer task in an environment with multiple realms, remove the cn=contentauthors,o=defaultWIMFileBasedRealm group if it exists. If this group exists in an environment with multiple realms, the Member Fixer task does not have any effect.
- c. Save your changes and close the file.
- d. Run the ConfigEngine.sh express-memberfixer -DmemberfixerRealm=realm_name -DPortalAdminPwd=password -DWasPassword=password task, located in the wp_profile_root/ ConfigEngine directory.

Note: Choose the appropriate value to enter for realm_name depending on the type of LDAP user registry you configured.

The following tables describes the value for realm_name when running the Member Fixer task to update the member names used by Web Content Management:

Type of LDAP	Value
Standalone LDAP	The value specified for realm_name should match the value forstandalone.ldap.realm in the wkplc.properties file.

- **12.** Optional: Assign access to the Web content libraries.
 - a. Log in as a portal administrator.
 - b. Navigate to Administration -> Portal Content -> Web Content Libraries.
 - c. Click the Set permissions icon for the Web library.
 - d. Click the Edit Role icon for Editor.
 - e. Add the group you specified for content_authors_group_DN as an Editor for the Intranet and Internet libraries.
 - f. Click Apply then Done.
 - **g.** If you have created any additional Web Content Management libraries, run the Web content member fixer task to update the member names used by the libraries.

Standalone LDAP over SSL

Configure IBM® WebSphere® Portal to use a standalone LDAP user registry over SSL to store all user account information for secure authorization.

In a single server environment the following task does not have a dependency on the server status; therefore, the WebSphere_Portal and server1 servers can be either stopped or started. In a clustered environment you must stop



all application servers on the system including WebSphere_Portal and server1 and then start the nodeagent and deployment manager servers before starting the following task.

Perform the following steps to configure a standalone LDAP user registry over SSL:

Note: Use the wp_security_xxx.properties helper file, located in the wp_profile_root/ConfigEngine/config/ helpersdirectory, when performing this task to ensure the correct properties are entered. In the instructions below, when the step refers to thewkplc.properties file, you will use your wp_security_xxx.properties helper file.

- 1. Complete the following steps to add the SSL certificate for the LDAP server to the server trust store and the client trust store:
 - a. Choose one of the following to add the certificate to the server trust store:

The following table describes the options for adding the SSL certificate to the server trust store:

Option	Steps
Add the certificate to the server trust store	 i. Log in to the WebSphere Application Server Administrative Console. ii. Navigate to Security -> SSL certificate and key management -> SSL configurations. iii. Click the appropriate SSL configuration from the list. For example,
	Stand-alone environments:NodeDefaultSSLSettings Clustered environments: CellDefaultSSLSettings
	iv. Click Key stores and certificates.v. Click the appropriate trust store from the list. For example,
	Stand-alone environments: NodeDefaultTrustStore Clustered environments: CellDefaultTrustStore
	vi. Click Signer certificates, click Add, and then enter the following information:
	Type the Alias the key store uses for the signer certificate. Type the File name where the signer certificate is located.
	vii. Click OK and then click Save to save the changes to the master configuration.
Retrieve the certificate from the port	 i. Log in to the WebSphere Application Server Administrative Console. ii. Navigate to Security -> SSL certificate and key management -> SSL configurations.
	III. Click the appropriate SSL configuration from the list. For example,
	Stand-alone environments:NodeDefaultSSLSettings Clustered environments: CellDefaultSSLSettings
	iv. Click Key stores and certificates.
	v. Click the appropriate trust store from the list. For example,
	Stand-alone environments: NodeDefaultTrustStore Clustered environments: CellDefaultTrustStore
	vi. Click Signer certificates, click Retrieve from port, and then enter the following information:
	Type the Host name used when attempting to retrieve the signer certificate from the SSL port. Type the SSL Port used when attempting to retrieve the signer certificate. Type the Alias the key store uses for the signer certificate. Clustered environments: Ensure the setting for SSL configuration for outbound connection matches your SSL settings.
	vii. Click Retrieve signer information to retrieve the certificate from the port.
<u> </u>	יווג כוונג סוג מות נופון נוונג סמיפ נס סמיפ נוופ נוומווצפי נס נוופ ווומסנפו נטוווצעומנוטוו.

- **b.** Add the certificate to the client trust store:
 - See "Secure installation for client signer retrieval."
 - Run the retrieveSigners task from the wp_profile_root/bin directory; see retrieveSigners command for information. In a deployed environment, you will need to run the retrieveSigners task, for any federated node, against the Deployment Manager.

Note: This task might report an error, but it does successfully update the trust store. You can ignore the error message.

Example task:

Stand-alone environments

retrieveSigners.sh NodeDefaultTrustStore ClientDefaultTrustStore -autoAcceptBootstrapSigner
-conntype SOAP -port port_number

Clustered environments

retrieveSigners.sh CellDefaultTrustStore ClientDefaultTrustStore -autoAcceptBootstrapSigner -conntype SOAP -port port_number

When prompted, enter the following:

Realm/Cell Name: name

Username: user_ID

Password: password

The following message displays: CWPKI0308I: Adding signer alias "alias_name" to local keystore "ClientDefaultTrustStore" with the following SHA digest: ssl_certificate_fingerprint

- Update the trust store properties file.

Clustered environments:

Perform the following steps on the primary node then resynchronize through the Deployment Manager to propagate the changes.

Check each node to ensure that ssl.client.props contains the same values as on the primary node. If the values in ssl.client.props are not identical for a particular node, restart that server to synchronize the changes.

Open ssl.client.props with any text editor in the following directory: wp_profile_root/properties

Change the com.ibm.ssl.trustStore parameter and the related trust store parameters to match the trust file specified in the SSL configuration. For example,

Stand-alone environments:

To use the default trust store, enter the following: com.ibm.ssl.trustStore=wp_profile_root\\config\ \cells\\cell_name\\nodes\\node_name\\trust.p12

Clustered environments:

ORACLE

To use the default trust store, enter the following: com.ibm.ssl.trustStore=wp_profile_root/config/ cells/cell_name/trust.p12

Save your changes.

- 2. Use a text editor to open the wkplc.properties file, located in the wp_profile_root/ConfigEngine/properties directory.
- **3.** Required: Enter a value for the following required parameters in the wkplc.properties file under the VMM Standalone LDAP configuration heading:

Note: See the properties file for specific information about the required parameters and for advanced parameters.

```
standalone.ldap.id
standalone.ldap.host
standalone.ldap.port
standalone.ldap.bindDN
standalone.ldap.bindPassword
standalone.ldap.ldapServerType
standalone.ldap.userIdMap
standalone.ldap.groupIdMap
standalone.ldap.groupMemberIdMap
standalone.ldap.userFilter
standalone.ldap.groupFilter
standalone.ldap.serverId
standalone.ldap.serverPassword
standalone.ldap.realm
standalone.ldap.primaryAdminId
standalone.ldap.primaryAdminPassword
standalone.ldap.primaryPortalAdminId
standalone.ldap.primaryPortalAdminPassword
standalone.ldap.primaryPortalAdminGroup
standalone.ldap.baseDN
```

4. Required: Enter a value for the following required entity types parameters in the wkplc.properties file under the LDAP entity types heading:

Note: See the properties file for specific information about the required parameters and for advanced parameters.

```
standalone.ldap.et.group.objectClasses
standalone.ldap.et.group.objectClassesForCreate
standalone.ldap.et.group.searchBases
standalone.ldap.et.personaccount.objectClasses
standalone.ldap.et.personaccount.objectClassesForCreate
standalone.ldap.et.personaccount.searchBases
```

5. Required: Enter a value for the following required group member parameters in the wkplc.properties file under the Group member attributes heading:

Note: See the properties file for specific information about the required parameters and for advanced parameters.

standalone.ldap.gm.groupMemberName
standalone.ldap.gm.objectClass
standalone.ldap.gm.scope
standalone.ldap.gm.dummyMember



6. Required: Enter a value for the following required relative distinguished name (RDN®) parameters in the wkplc.properties file under the Default parent, RDN attribute heading:

Note: See the properties file for specific information about the required parameters and for advanced parameters.

```
standalone.ldap.personAccountParent
standalone.ldap.groupParent
standalone.ldap.personAccountRdnProperties
standalone.ldap.groupRdnProperties
```

7. Enter a value for the following parameters to enable Secure Socket Layers (SSL):

Note: See the properties file for specific information about the required parameters and for advanced parameters.

Required parameters:

```
standalone.ldap.sslEnabled
standalone.ldap.sslConfiguration
```

Optional parameters:

```
standalone.ldap.certificateMapMode
standalone.ldap.certificateFilter
```

- 8. Save your changes to the wkplc.properties file.
- 9. Run the ConfigEngine.sh validate-standalone-ldap -DWasPassword=password task to validate your LDAP server settings.

Note: If you have not deleted the default file repository, WasPassword is the value entered during installation and not a value found in your LDAP user registry.

Note: During the validation task, you may receive the following prompt: Add signer to the trust store now?. Press y and then Enter.

- **10.** Run the ConfigEngine.sh wp-modify-ldap-security -DWasPassword=password task, from thewp_profile_root/ ConfigEngine directory, to set the standalone LDAP user registry.
- **11.** Stop and restart the appropriate servers to propagate the changes. For specific instructions, see the following link under Related tasks:

Starting and stopping servers, deployment managers, and node agents.

12. Run the ConfigEngine.sh wp-validate-standalone-ldap-attribute-config -DWasPassword=password task, from thewp_profile_root/ConfigEngine directory, to check that all defined attributes are available in the configured LDAP user registry.

Note: When you finish configuring your LDAP user registry, see "Adapting the attribute configuration" for information about adding and mapping attributes to ensure proper communication between WebSphere Portal and the LDAP server.

After installing IBM® WebSphere® Portal and configuring your LDAP user registries, you can query the defined attributes to see what attributes are flagged as unsupported or if the attribute is mapped to a different LDAP attribute.

Run the ConfigEngine.sh wp-query-attribute-config -DWasPassword=password task, from thewp_profile_root/ ConfigEngine directory, any time during the configuration process or at runtime to query an overview of the currently defined attributes. This task creates the availableAttributes.html report, located in the wp_profile_root/ConfigEngine/



logdirectory. The report contains one table that lists the available attributes for Users (PersonAccount) and one table that lists the available attributes for Groups. For each configured repository there is a column that indicates if the attribute is flagged as unsupported or if the attribute is mapped to a different LDAP attribute.

Note: This task does not validate the existence of attributes in the LDAP schema.

The VMM is configured with a default attribute schema that might not be compatible with your LDAP server. If this is the case, extend the VMM attribute schema by adding new attributes that you can map between IBM® WebSphere® Portal and your user registry.

Perform the following steps to add new attributes to your user registry:

- 1. Install the required Enterprise Archive (.ear) file on WebSphere Application Server.
 - a. Open a command prompt.
 - **b.** Navigate to the wp_profile_root/ConfigEngine directory.
 - c. Run the ConfigEngine.sh wp-la-install-ear -DWasPassword=password task.
- 2. Stop and restart the appropriate servers to propagate the changes. For specific instructions, see the following link under Related tasks: Starting and stopping servers, deployment managers, and node agents.
- **3.** Use a text editor to open the wkplc.properties file, located in the wp_profile_root/ConfigEngine/properties directory.
- **4.** Enter a value for the following required parameters in the wkplc.properties file under the VMM Property Extension Properties heading:

Note: See the properties file for specific information about the required parameters and for advanced parameters.

```
la.providerURL
la.propertyName
la.entityTypes
la.dataType
la.multiValued
```

- 5. Save your changes to the wkplc.properties file.
- 6. Run the ConfigEngine.sh wp-add-property -DWasPassword=password task to add the attribute to the user registry.

Note:

This task performs an EJB call to WebSphere Application Server, which must authenticate against WebSphere Application Server. Depending on the configuration in the sas.client.props file, you may receive a popup window or a command line prompt asking for user identity and password. Enter the WebSphere Application Server user ID and password.

Remember, if you have multiple properties to add, repeat all steps, except for the wp-la-install-ear task, until all new attributes are added.

7. Stop and restart the appropriate servers to propagate the changes.

After you install and configure your LDAP user registry and after you query the defined attributes, you can map the attributes so they match the configured LDAP servers and your business needs.


Perform the following steps to map attributes between WebSphere Portal and your LDAP server; if you have multiple LDAP servers, you will need to perform these steps for each LDAP server:

- 1. Use a text editor to open the wkplc.properties file, located in the wp_profile_root/ConfigEngine/properties directory.
- 2. Enter a value for one of the following sets of parameters in the wkplc.properties file to identify your LDAP server:

Note: Make sure you use the same values you used to configure your LDAP server.

The following table contains information on how to identify your LDAP server in the wkplc.properties file:

Repository type	Parameters
Stand-alone	The following parameters are found under the LDAP attribute configuration heading: Note : See the properties file for specific information about the required parameters and for advanced parameters.
	<pre>standalone.ldap.id standalone.ldap.host standalone.ldap.port standalone.ldap.sslEnabled standalone.ldap.bindDN standalone.ldap.bindPassword standalone.ldap.baseDN</pre>

3. Run one of the following tasks to check that all defined attributes are available in the configured LDAP user registry.

The following table describes the task to check that all defined attributes are available in the configured LDAP user registry.

Repository type	Task
Stand-alone	ConfigEngine.sh wp-validate-standalone-ldap-attribute-config -DWasPassword=password task, from the wp_profile_root/ConfigEngine directory.

4. Open the ConfigTrace.log file, located in the wp_profile_root\\ConfigEngine\\log directory, to review the following output for the PersonAccount and Group entity type:

The following attributes are defined in WebSphere Portal but not in the LDAP server:

This list contains all attributes that are defined in WebSphere Portal but not available in the LDAP. Flag attributes that you do not plan to use in WebSphere Portal as unsupported. Map the attributes that you plan to



use to the attributes that exist in the LDAP; you must also map the uid, cn, firstName, sn, preferredLanguage, and ibm-primaryEmail attributes if they are contained in the list.

The following attributes are flagged as required in the LDAP server but not in WebSphere Portal:

This list contains all attributes that are defined as "MUST" in the LDAP server but not as required in WebSphere Portal. You should flag these attributes as required within WebSphere Portal; see the step below about flagging an attribute as either unsupported or required.

The following attributes have a different type in WebSphere Portal and in the LDAP server:

This list contains all attributes that WebSphere Portal might ignore because the data type within WebSphere Portal and within the LDAP server do not match.

- 5. Use a text editor to open the wkplc.properties file, located in the wp_profile_root/ConfigEngine/properties directory.
- 6. Enter a value for one of the following sets of parameters in the wkplc.properties file to correct any issues found in the config trace file.

The following table describe the parameters that you can define in the wkplc.properties file to correct any issues found in the config trace file.

Repository type	Parameters
Stand-alone	The following parameters are found under the LDAP attribute configuration heading:
	Note : See the properties file for specific information about the required parameters and for advanced parameters.
	<pre>standalone.ldap.id standalone.ldap.attributes.nonSupported standalone.ldap.attributes.nonSupported.delete standalone.ldap.attributes.mapping.ldapName standalone.ldap.attributes.mapping.portalName standalone.ldap.attributes.mapping.entityTypes</pre>
	For example, the following values will flag certificate and members as unsupported attributes and will map ibm-primaryEmail to mail and ibm-jobTitle to title for both the PersonAccount andGroup entityTypes :
	<pre>standalone.ldap.attributes.nonSupported=certificate, members standalone.ldap.attributes.nonSupported.delete=</pre>
	<pre>standalone.ldap.attributes.mapping.ldapName=mail, title standalone.ldap.attributes.mapping.portalName=ibm- primaryEmail, ibm-jobTitle standalone.ldap.attributes.mapping.entityTypes=PersonAccour Group</pre>
	standalone.ldap.attributes.nonSupported=certificate, members
	standalone.ldap.attributes.nonSupported.delete=
	standalone.ldap.attributes.mapping.ldapName=mail, title



Repository type	Parameters
	standalone.ldap.attributes.mapping.portalName=ibm-primaryEmail, ibm-jobTitle
	standalone.ldap.attributes.mapping.entityTypes=PersonAccount, Group

- 7. Save your changes to the wkplc.properties file.
- 8. Run one of the following tasks to update the LDAP user registry configuration with the list of unsupported attributes and the proper mapping between WebSphere Portal and the LDAP user registry.

This table describes the task to update the LDAP user registry configuration with the list of unsupported attributes and the proper mapping between Portal and the LDAP user registry.

Repository type	Task
Stand-alone	ConfigEngine.sh wp-update-standalone-ldap-attribute-config -DWasPassword=password task, from the wp_profile_root/ConfigEngine directory

- **9.** Stop and restart the appropriate servers to propagate the changes. For specific instructions, see the following link under Related tasks: Starting and stopping servers, deployment managers, and node agents.
- **10.** Optional: Perform the following steps to flag an attribute as either unsupported or required for the entire WebSphere Portal environment instead of just for the specified LDAP:
 - a. Enter a value for the following required parameters in the wkplc.properties file:

Note: See the properties file for specific information about the required parameters and for advanced parameters.

- user.attributes.required
- user.attributes.nonsupported
- **b.** Save your changes to the wkplc.properties file.
- c. Run the ConfigEngine.sh wp-update-attribute-config -DWasPassword=password task, from thewp_profile_root/ConfigEngine directory.
- d. Stop and restart all necessary servers to propagate your changes.

Due to a Virtual Member Manager (VMM) limitation, there is currently no task to update an attribute. Therefore, if you added an attribute to your property extension database or when adapting attributes to match your LDAP server that were spelled incorrectly or already added due to migration, you must remove the attribute from the database. Use caution when performing these steps.

Perform the following steps to remove an attribute from your database:

Note: Do not remove attributes that have already been populated with user values because this can cause database inconsistencies. **Cluster note**: In a clustered environment, perform the following steps on the deployment manager and then resynch the nodes.

- 1. Open the tool you use to edit your database.
- 2. Verify that your attribute name is available in the LAPROP table.
- **3.** Delete the required attributes from the LAPROP table.

- 4. Open the wimxmlextension.xml file, located in the wp_profile_root/config/cells/cellname/wim/model directory.
- **5.** Locate and delete the propertySchema definition for the attributes that you deleted from the LAPROP table; for example:

```
<wim:propertySchema nsURI="http://www.ibm.com/websphere/wim" dataType="String"
    multiValued="true" propertyName="attribute_name">
    <wim:applicableEntityTypeNames>PersonAccount</wim:applicableEntityTypeNames>
    </wim:propertySchema>
```

- 6. Save your changes to the wimxmlextension.xml file.
- 7. Open the wimconfig.xml file, located in the wp_profile_root/config/cells/cellname/wim/config directory.
- 8. Locate and delete the propertiesNotSupported definitions for the attributes that you deleted from the LAPROP table; for example:

<config:propertiesNotSupported name="attribute_name">

- 9. Save your changes to the wimconfig.xml file.
- **10.** Stop and restart the server1 and WebSphere_Portal servers from the wp_profile_root/bin directory.

By default, WebSphere Portal is enabled for static groups. However, the Virtual Member Manager (VMM) allows users to be members of either static or dynamic groups. Static groups are those where a persistent binding exists between a group and its members. Dynamic groups are those where a search query is defined to retrieve the members of a group. If you have your LDAP server configured to use dynamic groups, complete the steps in this task for WebSphere Portal to use dynamic group queries when you setup your LDAP server.

Perform the required tasks to configure either a stand-alone or federated LDAP server security.

The steps in this task use groupOfURLs as the object class for dynamic groups and memberURL as the dynamic membership attribute. The actual values for object classes and dynamic membership attributes can vary depending on your LDAP server. For this reason, you should export an LDIF file to verify the object classes and dynamic membership attributes. Either refer to your LDAP documentation or ask your LDAP administrator for instructions on exporting an LDIF file.

Clustered environments: Perform the following steps on the Deployment Manager then synchronize the nodes.

To configure WebSphere Portal to use dynamic groups, do the following:

1. Choose the appropriate set of steps, depending on your LDAP server environment:

LDAP server environment	Steps to perform
Stand-alone LDAP server or federated LDAP server(s)	 a. Navigate to the following directory: wp_profile_root/cells/cell_name/wim/config. b. Locate and open wimconfig.xml with any text editor. c. Add the following line to the <config:groupconfiguration>tag:</config:groupconfiguration> <config:dynamicmemberattributes <br="" name="memberurl">objectClass="groupofurls"/></config:dynamicmemberattributes>

This table describes the steps for enabling dynamic groups:

2. Stop and restart the appropriate servers to propagate the changes.

Referrals redirect object requests from one LDAP server to another when objects do not exist or cannot be located in a particular directory tree. You should enable referrals if your environment has more than one user registry existing on multiple servers or domains.



To configure your portal to use LDAP referrals, do the following:

- 1. Use any text editor to open the wkplc.properties file in the following directory: wp_profile_root/ConfigEngine/ properties.
- 2. Specify values for the following parameters:
 - et.ldap.id=ID_of_your_LDAP_server
 - et.ldap.host=hostname_of_your_LDAP_server
 - et.ldap.referral=follow
- 3. Save and close wkplc.properties.
- 4. Run the following task from the wp_profile_root/ConfigEngine directory to create an LDAP entity type:

UNIX: ./ConfigEngine.sh wp-update-et-ldap -DWasPassword=password Windows: ConfigEngine.bat wpupdate-et-ldap -DWasPassword=password i: ConfigEngine.sh wp-update-et-ldap -DWasPassword=password

5. Stop and restart the appropriate servers to propagate the changes.

Configuring an External HTTP Server for WebSphere Portal v8.5 (IBM i HTTP Server only)

By default, the installation configures the WebSphere Portal v8.5 to use the internal HTTP transport within the WebSphere Application Server to handle requests (i.e port 10039). Portal also supports the use of an external Web server which is the recommended configuration for production Portals. For Portal Server v8.5 on *IBM i* only the native *IBM i* HTTP Server is supported.

This section explains how you can configure an external web server port to communicate with the WebSphere Portal, which includes these tasks:

- · Creating a webserver definition for the wp_profile
- Remapping the WebSphere portal to the external web server
- Adding the external port
- Generating the webserver plugin for the wp_profile
- Propagating webserver plugin

Creating a Webserver Definition

When WebSphere Application Server was initially installed, a webserver definition was created for the WebSphere Application Server profile, known as the default profile. The installation of the WebSphere Portal Server creates a new profile, wp_profile. This profile is a non-default profile. Non-default profiles do not have web server definitions or plugin files created for them at the time of install. To use an external http server with portal, a second webserver definition and its corresponding plugin-cfg.xml file must be created manually for the wp_profile. This can be created from the Admin Console (i.e server1 console) of the wp_profile.



To create the new definition:

1. Log in to the IBM i HTTP Series admin console as the PORTALUSR userprofile





2. Go to All Servers, click Create HTTP Server. Enter details and click Next.

IBM Web Administration for i Setup Manage Advanced	Related Links
All Servers HTTP Servers	Application Servers
Common Tasks and Wizards Create Web Services Server Create HTTP Server Create Application Server Create WebSphere Portal	Create HTTP Server Welcome to the Create New HTTP Server wizard. This wizard helps you set up and You must name your new server. This name will be used later to manage the serv What do you want to name your new server? Server name: WPSHTTPSVR Server description: HTTP Server for WPS v7.0 Click Next to continue or Cancel to leave at anytime.
	Back Next Cancel

3. Note the webserver root directory and click Next.

Links n Servers ate HTTP Server	
ate HTTP Server	
ate HTTP Server	
server root is the base directory for your sen	ver. Within this directory, the wizard v
er root www/wpshttpsvr	Browse
Ex Next Cancel	ne wizard will create it for you.
	ch directory would you like to use as the ser /er root: //www/wpshttpsvr e: If the server root directory does not exist, th



4. Note the webserver document root and click Next.

HTTP Server Administration on DEN	1508C	
IBM Web Administration for i		
Setup Manage Advanced	Related Links	
All Servers HTTP Servers	Application Servers	
 Common Tasks and Wizards Create Web Services Server Create HTTP Server Create Application Server Create WebSphere Portal 	Create HTTP Server The document root is the base directory from which	documents will be served by your server.
	Which directory would you like to use as the docume	ent root for your new server?
	Document root: www/wpshttpsvr/htdocs	Browse
	Note: If the document root directory does not exist, th	he wizard will create it for you.
	Back Next Cancel Proceed to the next step of this task.	

5. Note the IP Address mapping (* in the case), enter the port number, and click Next.

HTTP Server Administration on DENI	508C
3M Web Administration for i	
Setup Manage Advanced	Related Links
All Servers HTTP Servers /	Application Servers
Common Tasks and Wizards Create Web Services Server Create HTTP Server Create Application Server Create WebSphere Portal	Create HTTP Server Your server may listen for requests on specific IP addresses or on all IP addresses of the system. On which IP addresses IP address: All IP addresses Port: 81 Note: Most browsers make requests to port 80 by default. Back Next Cancel

6. Disable access logging and click Next.

HTTP Server Administration on DENI	ac 🔂 Home 🝷 🔂
IBM Web Administration for i Setup Manage Advanced I	elated Links
All Servers HTTP Servers A	vilication Servers
 Common Tasks and Wizards Create Web Services Server Create HTTP Server Create Application Server Create WebSphere Portal 	Create HTTP Server Your server can record activity on your web sile using an access log. The access log contains information about requests made to the serve many requests have been made during a specific period of time. Do you want your new server to use an access log? Yes No Note: An error log is separate from an access log and will be used by your new server regardless of your decision to use an access log. Note: An error log is separate from an access log and will be used by your new server regardless of your decision to use an access log.
	Back Hext Cancer



7. Select the log deletion criteria and click Next.

HTTP Server Administration on DENIS	508C
IBM Web Administration for i Setup Manage Advanced F	Related Links
All Servers A	pplication Servers
Common Tasks and Wizards Create Web Services Server Create HTTP Server Create Application Server Create WebSphere Portal	Create HTTP Server The error and access logs being created for this server will be closed out and new files opened on a dai files from becoming too excessive, the server can be configured to automatically delete the oldest ones. Specify the time to keep the log files: Keep, do not delete Delete based upon age Delete age: 7 days •
	Back Next Cancel



8. Review the entered information and click Finish to complete the HTTP Server definition.

HTTP Server Administration on DENIS IBM Web Administration for i Setup Manage Advanced F All Servers HTTP Servers A	Related Links	
 Common Tasks and Wizards Create Web Services Server Create HTTP Server Create Application Server Create WebSphere Portal 	Create HTTP Server name: Server description Server root: Document root: IP address: Port: Log directory: Access log file: Error log file: Log maintenance:	Server WPSHTTPSVR HTTP Server for WPS v7.0 /www/wpshttpsvr/htdocs All IP addresses 81 /www/wpshttpsvr/logs None error_log 7 days

9. In the HTTP Server screen, select the wp_profile to which the webserver is to be mapped click OK to complete association of the HTTP Server definition with the wp_profile (Portal Server profile).

HTTP Server Administration on DENIS	508C
IBM Web Administration for i Setup Manage Advanced F	Related Links
All Servers HTTP Servers Ap	oplication Servers
🔋 Stopped 🚺 💭 🗌 🗭 Se	rver: WP7HTTPSVR - Apache 🛩 Server area: Global configuration
 HTTP Tasks and Wizards Add a Directory to the Web LDAP Configuration Server Properties General Server Configuration Container Management 	WP7HTTPSVR > WebSphere Application Server WebSphere Application Server General
D Virtual Hosts D URL Mapping D Request Processing D HTTP Responses D Content Settings D Directory Handling	 This HTTP server is currently associated with application server "wp_profile, V7.0 ND". O Disable Servlets and JSPs (Java Server Pages) WebSphere Application Server, V7.0.0.11 ND Product install path: /QIBM/ProdData/WebSphere/AppServer/V7/ND
D Security D Dynamic Content and CGI D Logging D Proxy D System Resources D Cache D FRCA D Smart Filtering D Compression	WebSphere profile: wp_profile Start all WebSphere application server(s) for the associated WAS instance when this HTTP server is started : No WebSphere Application Server, V7.0.0.11 Express Product install path: /QIBM/ProdData/WebSphere/AppServer/V7/Express
Domino Application Server B WebSphere Application Server	OK Apply Cancel



Adding a Virtual Host Definition

If you want to access WebSphere Portal using a host name and port different from your Web server default (i.e port 80), add the required virtual host definition using the WebSphere Application Server administrative console.

1. Select Environment > Virtual Hosts.

View: All tasks	Cell=DENPEDSII, Plolle=wp_plolle
• Welcome	Virtual Hosts
Guided Activities	Virtual Hosts
Servers	Use this page to create a virtual host with a un
Server Types WebSphere application servers WebSphere MO servers	host machines. Each virtual host has a logical i
Web servers	
Applications	
Services	Select Name 🗘
	You can administer the following resources:
∃ Security	admin host
Environment	default host
 Virtual hosts Update global Web server plug-in configuration WebSphere variables Shared libraries Replication domains Naming 	Total 2

2. Select the default_host entry or the entry for the virtual host that is being used to access the WebSphere Portal application.

3. Select Host Aliases, and verify whether there is a host name and port entry corresponding to the values used to access WebSphere Portal (for example, *:10039). Select New, and enter the information for the host name and port you want to use. (In the example below port 81 was added.)

ntegrated Solutions Console Welcome wpsadmin		Heb Lagest	
Views All tasks	Cel-DENPBOSII, Profile-up_profile		
Welcome	Vetual Hesta		
E Guided Activities	Virtual Hosts > default_bost > Host Aliases		
j Servera	Use this page to edit, create, or delete a domain name	e system (DNS) alias by which the virtual host is known.	
E Server Types	E Praferences		
 WebSphere application servers WebSphere MS convers 	New Delete		
· Web servers	0011		
8 Applications	Select Host Name 🔿	Port C	
) Services	You can administer the following resources:		
Resources		80	
) Security		443	
Environment		10000	
 Virtual hosts 		10000	
 Update plobal Web server plugrin configuration WebSphere variables Shared libraries 		10002	
		10039	
Replication domains Naming		10029	
System administration		10032	
Users and Groups		81	
Manitoring and Tuning	Total B		
Troubleshooting			

4. Save your changes.

Generate the Web Server Plug-in for wp_profile

To use an external http port to access the portal, you must generate the plugin file with the new changes. Log in to the admin server console (server1 admin console).

From the portal administration console select Servers -> Web servers. Select webserver81, which was created in the preceding task, and click the generate plugin button.

20 Integrated Solutions Console				🐴 Home 🔹 🔝 🔅 Rea	d Mail 📺 Prin	nt • Page •
Integrated Solutions Console Welcome wpsadmin					Help Logo	
View: All tasks	Cell+D5N(508C, Profile+w	p_profile				
+ Welcome	Web servers					200
E Guided Activities	8 Messages					
El Servers	PLOCD0051: Plug-in configuration file		9/62/4			
Server Types WebSphere application servers WebSphere MQ servers WebSphere MQ servers WebSphere MQ servers	# /QIBM/UserOst fig.xml III: PLGC00521; P	a/WebSphere/AppServer/V7/ND/prol ug-in configuration file generation is	iles/wp_profile/config/	cells/DBNIS08C/nodes/DBNIS08C/servers/TH b server. DBNIS08C.DBNIS08C.IHS_WP7HTTP	s_wp7HTTPSV SVR.	R/plugin-
E Applications	Web servers	hit of the installed Web servers				
E Services	Preferences	the or the material was servers.				
E Resources	General Roy A	Propagated Plant on Name Cold	Tamelates	Carl Star Taranasa		
E Security	and the second se	Construction of the second barrier of the second	- I want to be a first of the	and the second designed and the second designed and the second designed and the second designed and the second		
E Environment	0017					1010100101
B System administration	Select Name C_	Web server Type 🗘	Node 0 .	Host Name O _	Version Q_	Status Q
E Users and Groups	You can administer the	following resources:				
B Monitoring and Tuning	IHS WP7HTTPS	IBM HTTP Server	DENISORC	DENISOBC.MLAB.JDEDWARDS.COM	ND 7.0.0.11	26
🖻 Troubleshooting	Total 1					
Service integration	Deverses					

Note the location of the plugin-cfg.xml file in the above screen.

Log in to the IBM i HTTP Admin console. Go to Tools -> Edit Configuration file.

- **1.** 1. This opens the httpd.conf file for editing.
- 2. 2. Add a line for a Listen directive for the external port selected above. For example: Listen 81

3. 3. Locate the entry in the httpd.conf file with the path to the plugin-cfg.xml file. Verify that the path points to the location of the file generated above. If not, change the path to match the file location.

WebSpherePluginConfig "/QIBM/UserData/WebSphere/AppServer/V7/ND/profiles/wp_profile/config/cells/ DENI508C/nodes/DENI508C/servers/IHS_WP7HTTPSVR/plu"

IBM Web Administration for i	
Setup Manage Advanced	Related Links
All Servers HTTP Servers	Application Servers
🛚 Stopped [🛛 🗔 🔂 🔅	Server: WP7HTTPSVR - Apache 💌 Server area: Global configuration
 HTTP Tasks and Wizards Add a Directory to the Web LDAP Configuration Server Properties General Server Configuration Container Management Virtual Hosts URL Mapping 	LogFormat "%h %T %l %u %t \"%r\" %>s %b \"%(Referer)i\" \"%(User-Agent)i\"" comb LogFormat "%(Cookie)n \"%r\" %t" cookie LogFormat "%(User-agent)i" agent LogFormat "%(Referer)i -> %U" referer LogFormat "%h %l %u %t \"%r\" %>s %b" common CustomLog logs/access_log combined LogMaint logs/access_log 7 0 LogMaint logs/error_log 7 0 SetEnvIf "User-Agent" "Mozilla/2" nokeepalive
D Request Processing D HTTP Responses D Content Settings D Directory Handling D Security D Dynamic Content and CGI	SetEnvIf "User-Agent" "JDK/1\.0" force-response-1.0 SetEnvIf "User-Agent" "Java/1\.0" force-response-1.0 SetEnvIf "User-Agent" "RealPlayer 4\.0" force-response-1.0 SetEnvIf "User-Agent" "MSIE 4\.0b2;" nokeepalive SetEnvIf "User-Agent" "MSIE 4\.0b2;" force-response-1.0 <directory></directory> Order Deny,Allow Deny From all
D Proxy D System Resources D Cache D FRCA D Smart Filtering D Compression	
C Domino Application Server	<
B WebSphere Application Serve	r OK Apply Cancel
▼ Tools	

4. Restart both the Web server (for example webserver81) and the WebSphere_Portal servers.

Installing the JD Edwards Collaborative Portal

Once the Portal Server is running, you must install the Collaborative Portal for WebSphere Portal Server v8.5, which provides the JD Edwards EnterpriseOne Interface and Portlet Deployment Structure.



Refer to the JD Edwards EnterpriseOne Tools IBM WebSphere Portal Reference Guide .



6 Appendix A - Start and Stop Portal Servers

Overview

Beginning with Tools release 8.97, management of the application servers can be performed through the JD Edwards EnterpriseOne Server Manager application. This is the recommended method for starting, stopping and configuring application and portal servers. For additional information about Server Manager, refer to the JD Edwards EnterpriseOne Tools Server Manager Guide .

The collaborative portal can also be managed through the WebSphere Administration Server and command line commands like previous releases. This remains the only option for JD Edwards EnterpriseOne Xe and ERP8 installations.

Refer to the following Knowledge Document E1: SVM: WebSphere 7.0.0.11 Secure Profile, Server Manager Unable to Detect Status of Servers Correctly (Doc ID 1262748.1) in order for Server Manager to detect the status of the WebSphere_Portal server correctly.

CAUTION: The Portal is installed with its own profile which, by default, is wp_profile. When starting and stopping server1 for portal and the WebSphere_Portal server, it is necessary to be in the wp_profile/bin directory. Portal services cannot be managed using the WAS default profile from the profiles/default/bin directory.

Starting and Stopping the WebSphere Portal Administration Server (server1)

To locate the scripts to start and stop the WebSphere Portal Administration Server (server1), navigate to this directory:

Log in to the Green Screen as PORTALUSR, type STRQSH,

/QIBM/UserData/WebSphere/AppServer/V7/ND/profiles/<PROFILE_NAME>/bin

Starting server1 (Portal Administration Server)

From the above specified /bin directory, you can start server1 by entering this command:

startServer server1 - user wpsadmin - password wpsadmin

Note: The security user credentials will not be required if you have correctly configured the credentials in the soap.client.props file. This is also a pre-requisite for Server Manager.

Stopping server1 (Portal Administration Server)

From the above specified /bin directory, you can stop server1 by entering this command:



stopServer server1 -user wpsadmin -password wpsadmin

Note: The security user credentials will not be required if you have correctly configured the credentials in the soap.client.props file. This is also a pre-requisite for Server Manager.

Starting and Stopping the WebSphere Portal Server

To locate the scripts to start and stop the WebSphere Portal Server, navigate to this directory:

Log in to the Green Screen as PORTALUSR, type STRQSH,

/QIBM/UserData/WebSphere/AppServer/V7/ND/profiles/<PROFILE_NAME>/bin

Starting the WebSphere Portal Server

From the above specified /bin directory, you can start the WebSphere Portal Server by entering this command:

startServer WebSphere_Portal

Note: The security user credentials will not be required if you have correctly configured the credentials in the soap.client.props file. This is also a pre-requisite for Server Manager.

Stopping WebSphere Portal Server

From the above specified /bin directory, you can stop the WebSphere Portal Server by entering this command:

stopServer WebSphere_Portal -user wasadmin -password wasadmin

Note: The security user credentials are not required if you correctly configured the credentials in the soap.client.props file. This is also a pre-requisite for Server Manager.



7 Appendix B - Example of a PortalUsers.ldif File

Example of a PortalUsers.ldif File

This appendix provides an example of a PortalUsers.ldif file. You should edit this file using your company information.

Note: You can find the PortalUsers.ldif template file from the Portal Setup CD.

```
version: 1
# NOTE: you must edit this file before importing it and replace all
# occurrences of the default suffix "dc=yourco,dc=com" with the suffix
# that your LDAP server is configured for.
dn: dc=denver, dc=oracle, dc=com
objectclass: domain
objectclass: top
# Add lines according to this scheme that correspond to your suffix
dc: dc=denver, dc=oracle, dc=com
dn: cn=users,dc=denver,dc=oracle,dc=com
objectclass: container
objectclass: top
cn: users
dn: cn=groups,dc=denver,dc=oracle,dc=com
objectclass: top
objectclass: container
cn: groups
dn: uid=wpsadmin, cn=users, dc=denver, dc=oracle, dc=com
objectclass: organizationalPerson
objectclass: person
objectclass: top
objectclass: inetOrgPerson
uid: wpsadmin
userpassword: wpsadmin
sn: admin
givenName: wps
cn: wps admin
dn: uid=wasadmin, cn=users, dc=denver, dc=oracle, dc=com
objectclass: organizationalPerson
objectclass: person
objectclass: top
objectclass: inetOrgPerson
uid: wasadmin
userpassword: wasadmin
sn: admin
givenName: was
cn: was admin
```



dn: uid=wpsbind, cn=users, dc=denver, dc=oracle, dc=com objectclass: top objectclass: person objectclass: organizationalPerson objectclass: inetOrgPerson uid: wpsbind userpassword: wpsbind sn: bind givenName: wps cn: wps bind dn: cn=wpsadmins, cn=groups, dc=denver, dc=oracle, dc=com objectclass: groupOfUniqueNames objectclass: top uniquemember: uid=wpsadmin, cn=users, dc=denver, dc=oracle, dc=com cn: wpsadmins dn: cn=wpsContentAdministrators,cn=groups,dc=denver,dc=oracle,dc=com objectclass: groupOfUniqueNames objectclass: top uniquemember: uid=wpsadmin, cn=users, dc=denver, dc=oracle, dc=com cn: wpsContentAdministrators dn: cn=wpsDocReviewer, cn=groups, dc=denver, dc=oracle, dc=com objectclass: groupOfUniqueNames objectclass: top uniquemember: uid=wpsadmin, cn=users, dc=denver, dc=oracle, dc=com cn: wpsDocReviewer dn: cn=wcmadmins, cn=groups, dc=denver, dc=oracle, dc=com objectclass: groupOfUniqueNames objectclass: top uniquemember: uid=wpsadmin, cn=users, dc=denver, dc=oracle, dc=com cn: wcmadmins

8 Glossary

DBCA

An abbreviation for Database Configuration Assistant.

JAR file

JAR files are a Java Archive and are built based on the ZIP file format and use the .jar file extension. This format is typically used to combine Java class files and associated metadata and resources into one file that can distribute application software or libraries for the Java platform.

JDBC

An abbreviation for Java Database Connectivity. The JDBC Connector is a program that allows different databases to be accessed by Java application servers that are run on the J2EE platform.

LDAP directory

LDAP is an abbreviation for Lightweight Directory Access Protocol. This directory is a data store for user data, such as the user ID, password, and user name.

MTR

An abbreviation for Minimum Technical Requirements.

WAR file

A WAR file is a Web application ARchive is a JAR file used to for the distribution of JavaServer Pages, Java Servlets, Java classes, XML files, tag libraries and static Web pages that comprise a Web application.



WAS

An abbreviation for WebSphere Application Server.

