

***Installing and configuring IBM Workplace
Collaboration Services Version 2.5 on IBM
eServer i5 systems***
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Installing and configuring IBM Workplace Collaboration Services Version 2.5 on IBM eServer i5 systems

Abstract

IBM® Workplace™ Collaboration Services provides a wide range of integrated collaboration capabilities, such as e-mail, calendaring and scheduling, awareness, instant messaging, learning, team spaces, and Web conferencing, as well as document and Web content management. This lab will walk through the installation and configuration of Workplace Collaboration Services Version 2.5 on the IBM eServer® i5 and IBM eServer iSeries™ family of servers.

Introduction

IBM Workplace Collaboration Services is a new product from the IBM Workplace family that helps transform the way people work. Workplace Collaboration Services provides an integrated environment for all the collaboration software workers need, including e-mail, instant messaging, learning, Web conferencing, and content management. Businesses that integrate the suite into their enterprise can cut costs and reduce application complexity while improving productivity.

Built on open standards, Workplace Collaboration Services contains application programming interfaces (APIs) that allow solution providers and other third-party developers to build extensions to the product for specific business needs. This lab will familiarize you with Workplace Collaboration Services by helping you through the install and configuration process.

Prerequisites

You will need to obtain the CDs for Workplace Collaboration Services V2.5. You can order these CDs either through your IBM representative or download them through the Software Access Catalog link provided in the “Additional information” section.

Workplace Collaboration Services V2.5: Installation and configuration steps

Installation of Workplace Collaboration Services V2.5 consists of the following steps:

- ___ 1. Review pre-installation requirements
- ___ 2. Check prerequisites: licensed program products (LPPs)
- ___ 3. Install IBM WebSphere® Application Server V5.0 Enterprise Enablement
- ___ 4. Install group program temporary fixes (PTFs)
- ___ 5. Install individual PTFs
- ___ 6. Install Workplace Collaboration Services V2.5
- ___ 7. Prepare for rich client setup
- ___ 8. Configure Workplace Collaboration Services instance

Step 1: Review pre-installation requirements

Hardware

Here are the basic hardware requirements:

- eServer i5 model 520 1-way (2400 CPW)
- 4 GB main storage
- 15 GB of disk space for installation of Workplace Collaboration Services and WebSphere Application Server V5.0.2 Enterprise Enablement
- 4 GB of disk space for each WebSphere Application Server instance configured for use with Workplace Collaboration Services

i5/OS user profiles

To install and configure Workplace Collaboration Services on i5/OS™, you must have a user profile with the following special authorities:

- *ALLOBJ
- *IOSYSCFG
- *JOBCTL

Setting the time on i5/OS

Before installing the Workplace Collaboration Services software, ensure that the Universal Time Coordinated (UTC) offset system value is set correctly by running the following command from an i5/OS command line (example below is for Central Standard Time):

```
CHGSYSVAL SYSVAL(QTIMZON) VALUE(QN0600CST)
```

Step 2: Check prerequisites: LPPs

Here is a checklist to make sure that the required programs are installed on your server. The following programs are usually installed with V5R3:

- 5722SS1 i5/OS V5R3
- 5722JV1 (Option *BASE) IBM Developer Kit for Java™
- 5722JV1 (Option 5) IBM Developer Toolkit for Java (Version 1.3)
- 5722JV1 (Option 6) IBM Developer Toolkit for Java (Version 1.4)
- 5722SS1 (Option 12) Host Servers
- 5722SS1 (Option 30) QShell Interpreter
- 5722SS1 (Option 33) Portable Application Solution Environment (PASE)
- 5722DG1 IBM HTTP Server for iSeries

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- 5722TC1 TCP/IP utilities
- 5733WS5 (Option *BASE) WebSphere Application Server V5.0
- 5733WS5 (Option 1) WebSphere Application Server V5.0 Client development and run time
- 5733WS5 (Option 2) WebSphere Application Server V5.0 Application server run time
- 5722AC3 Crypto Access Provider 128-bit
- 5799PTL iSeries Tools for Developers PRPQ

Determine software packages

To determine which software packages you have installed, perform the following steps:

- ___ 1. Sign on to your iSeries system.
- ___ 2. Enter the **Display Software Resources** (DSPSFWRSC) command on an i5/OS command line. This will bring up the Display Software Resources status screen, which shows all installed software except IBM Workplace.

Step 3: Install WebSphere Application Server V5.0 Enterprise Enablement

IBM Workplace Collaboration Services requires functionality that is not available with standard versions of WebSphere Application Server on IBM i5/OS. To add this functionality, you must install IBM Enterprise Enablement for WebSphere Application Server for iSeries (WebSphere Application Server V5.0 Enterprise Enablement).

Before installing WebSphere Application Server V5.0 Enterprise Enablement, you must have the following software installed:

Program	Option	Description
5722SS1		i5/OS V5R3
5733WS5	*BASE	WebSphere Application Server V5.0
5733WS5	2	WebSphere Application Server V5.0 run time

Install WebSphere Application Server option *BASE

Before you get started, install (if needed) WebSphere Application Server, option *BASE, on your iSeries system. To do this:

- ___ 1. Start a 5250 session and type in `GO LICPGM`.
- ___ 2. Select option 10 and check for the following:
 - 5733WS5 (Option *BASE) WebSphere Application Server V5.0
 - 5733WS5 (Option 2) WebSphere Application Server V5.0 run time

If WebSphere Application Server option *Base is not already installed, you can install it by using a remote install or a local install. As a refresher, a remote install is when you install WebSphere Application Server from a PC to an iSeries system. A local install is when you install WebSphere Application Server on your iSeries system from a CD.

Using the remote install:

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- You can follow the download directions at <http://xxx> to download the install files and copy them to your PC or to create the install CDs.
- If you created the CDs, insert the CD labeled “WebSphere Application Server Base for iSeries, V5.0 (1-1)” in your Microsoft® Windows™ workstation. The InstallShield setup program automatically starts.
- If you copied the files to your PC, run the Setup.exe file located in the root directory of the first CD image.
- Accept all default settings during install.
- During the install process, you will be prompted to insert CD 2. At this time, insert the CD labeled “WebSphere Application Server Base for iSeries, V5.0 (1-2),” or point to the root directory of the second CD image.

Install WebSphere PTFs

If WebSphere Application Server option *BASE was installed on your system prior to the beginning of this installation process, check to see if the required PTFs are already on the system.

Group PTFs

Check to see if group PTF (SF99287) level 7 or later is installed.

Install WebSphere Enterprise Enablement

Here are the steps required for installing WebSphere Enterprise Enablement:

- ___ 1. Stop WebSphere Application Server and log in to a 5250 session. Type in the command:
ENDSBS SBS(QEJBAS5) OPTION(*IMMED)
- ___ 2. WebSphere Enterprise Enablement is installed through remote install. You can follow the download directions at <http://xxx> to get the install files copied to your PC or create the install CDs.

If you created CDs, insert the CD labeled “IBM Workplace Collaboration Products V2.5, WebSphere Application Server Enterprise Enablement for iSeries” into the CD drive on a workstation. The setup program will start automatically. If not, you can manually launch the program by double-clicking the **install400.bat** file in the root directory of the CD.

If you copied the files to your PC, run the **install400.bat** file in the root directory for the “WebSphere Application Server Enterprise Enablement for iSeries” CD image

- ___ 3. Enter the iSeries hostname, user ID, and password, and click **OK** (Figure 1).

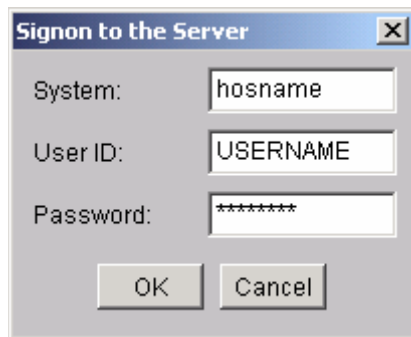


Figure 1: Authentication screen

- ___ 4. Select install language.

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- __ 5. Click **Next** on the information screen. (Figure 2)

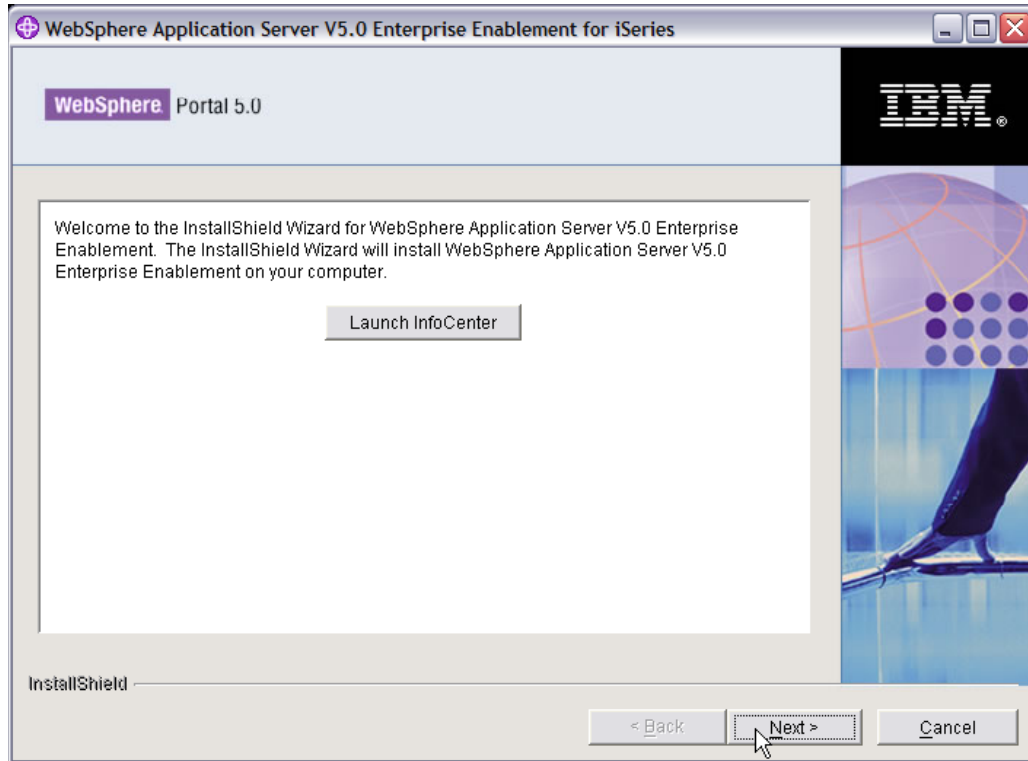


Figure 2: WebSphere Application Server V5.0 Enterprise Enablement Portal V5.0 wizard, screen 1

- __ 6. Accept the license agreement and click **Next** (Figure 3).

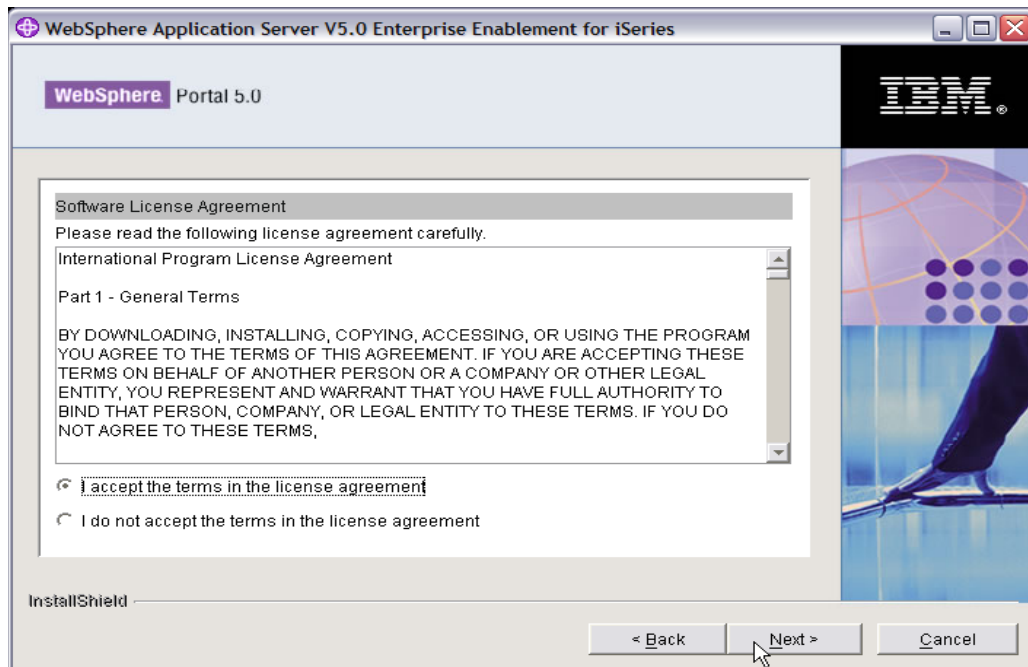


Figure 3: WebSphere Application Server V5.0 Enterprise Enablement Portal wizard, screen 2

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- ___ 7. Select **WebSphere Application Server V5.0 Enterprise Enablement - Option 10**. Click **Next** (Figure 4).

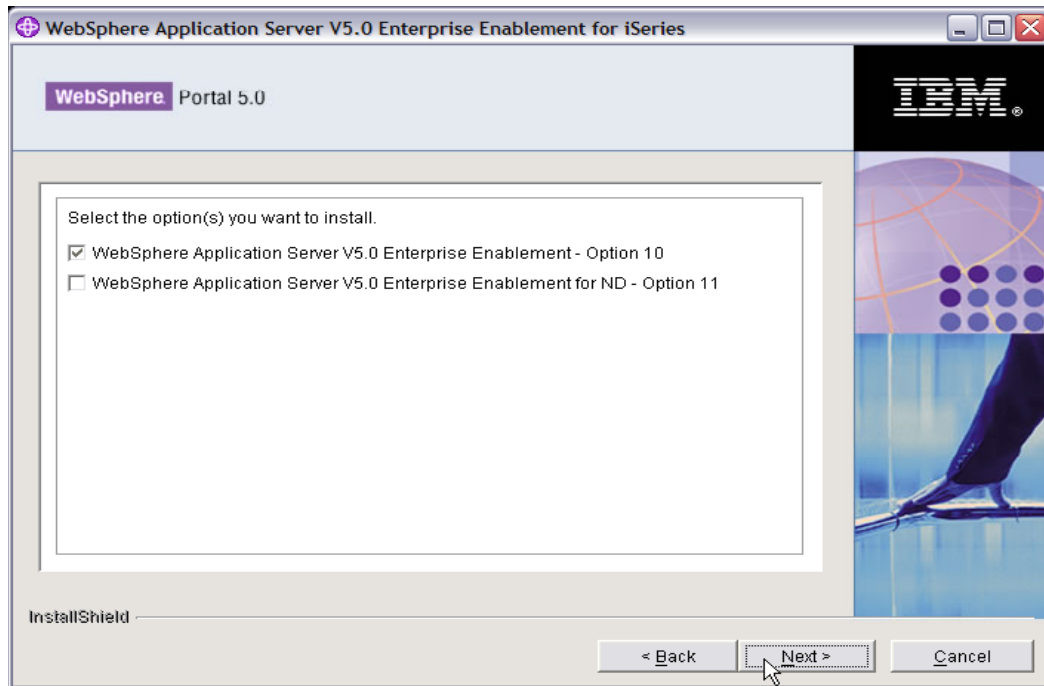


Figure 4: WebSphere Application Server V5.0 Enterprise Enablement portal wizard, screen 3

- ___ 8. Review the install summary information and click **Next** (Figure 5).

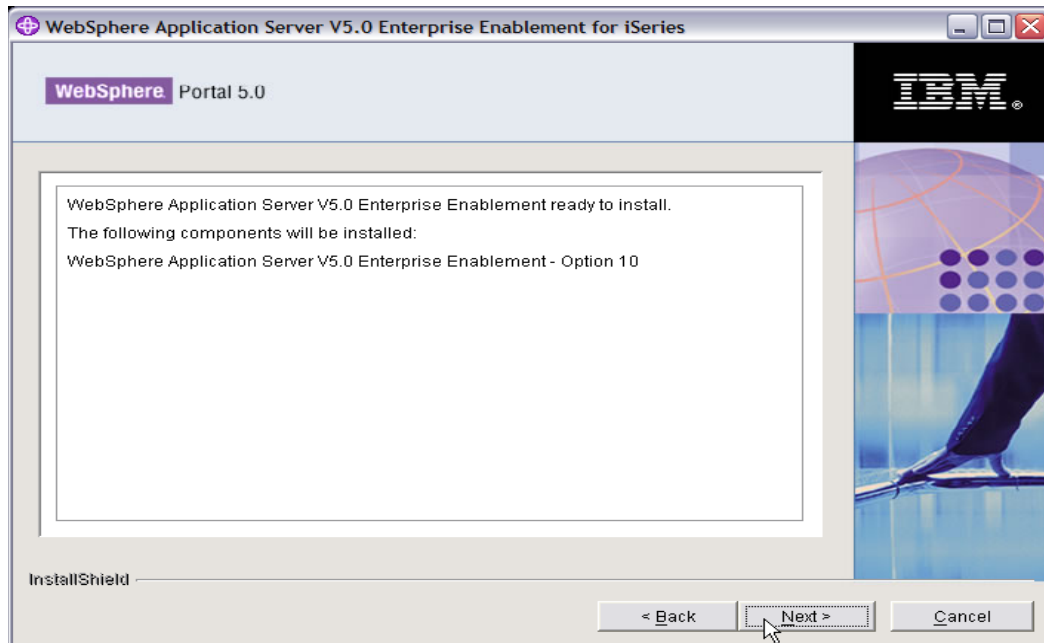


Figure 5: WebSphere Application Server V5.0 Enterprise Enablement portal wizard, screen 4

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- ___ 9. InstallShield shows the installation progress. Wait until the install finishes; this takes several minutes. Take note of the name of the log file that you need to check to verify the installation: `/tmp/InstallShield/WASPME/logs/pmeininstalllog.txt`

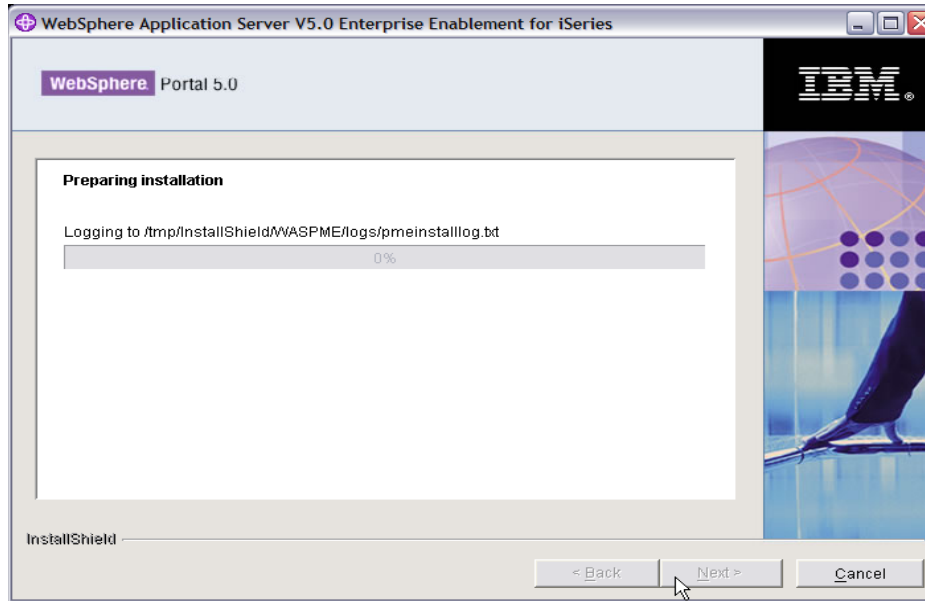


Figure 6: WebSphere Application Server V5.0 Enterprise Enablement portal wizard, screen 5

- ___ 10. When WebSphere Application Server V5.0 Enterprise Enablement finishes installing, the installation program will display a confirmation panel. Click **Finish** (Figure 7).

Note: You might get a blank InstallShield screen for a few minutes. Do not cancel out of the screen, wait until the confirmation panel is displayed.

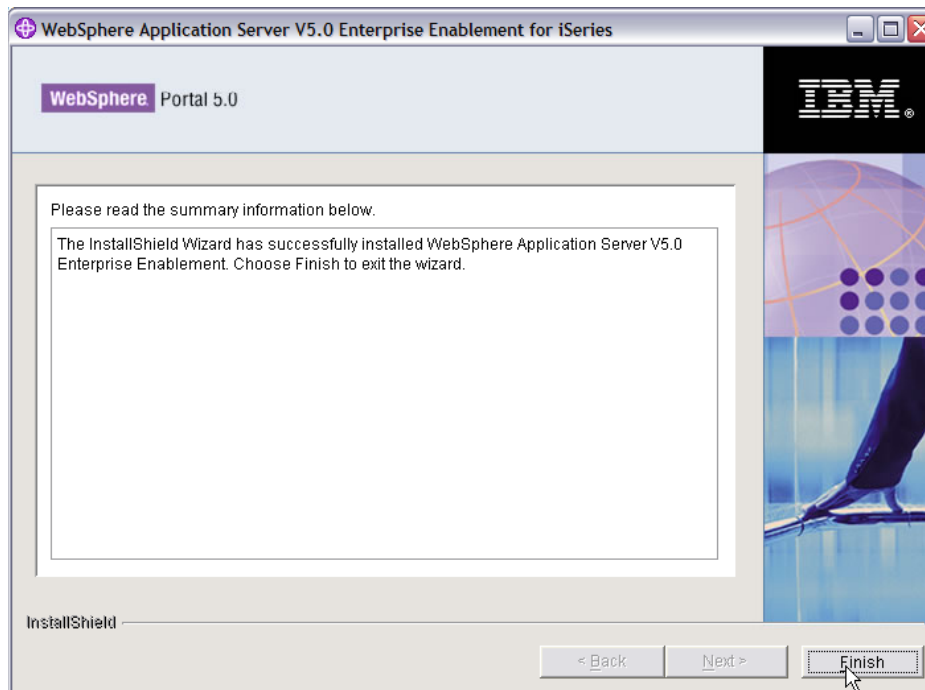


Figure 7: WebSphere Application Server V5.0 Enterprise Enablement portal wizard, screen 6

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- ___ 11. Verify the WebSphere Enterprise Enablement installation:
- Review the messages in the install log by typing the following command in a 5250 session:
`wrklnk '/tmp/InstallShield/WASPME/logs'`
 - Select option **5, Display** that is located by the file `pmeininstalllog.txt` and look for error messages. If there **are no informational messages or error messages**, continue with the next step.
- ___ 12. Verify that WebSphere Enterprise Enablement (option 10) is installed (Figure 8):
- On an iSeries system command prompt, type:
`Go LICPGM -> Option 10 (Display installed licensed programs)`
 - Verify that 5733WS5 option 10 is installed.

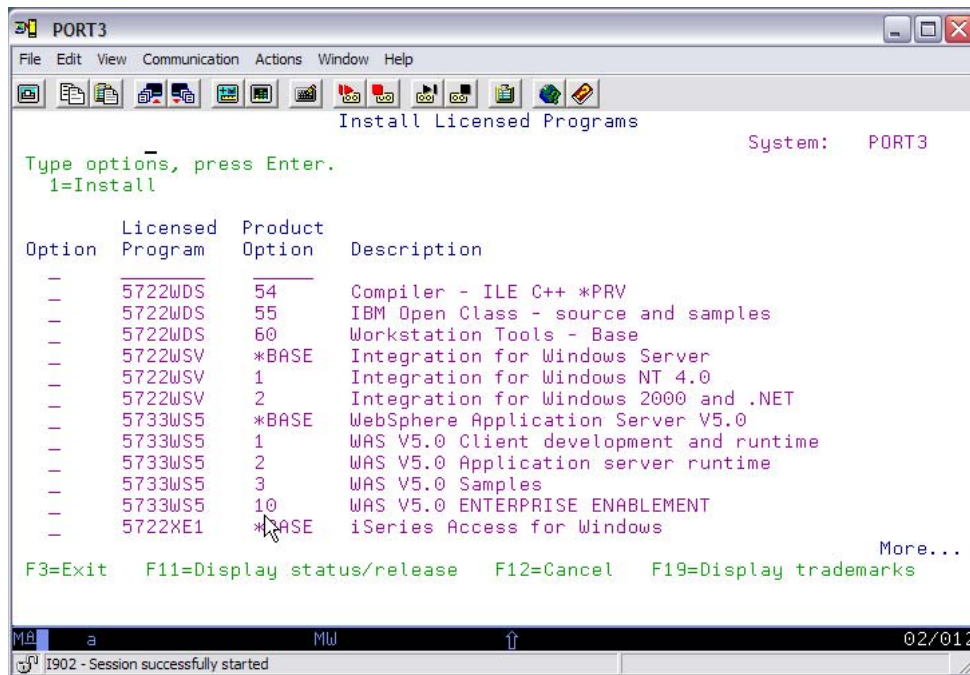


Figure 8: Install Licensed Programs screen

Step 4: Install group PTFs

Check to make sure the required PTFs are already on the system. (Refer to the PTF ordering link in the “Additional information” section of this lab.) The group PTFs you will need are listed below:

- SF99530 Cumulative PTF package, level 5102 or higher
- SF99287 WebSphere Application Server V5.0 (Base Edition), level 7 or higher
- SF99503 IBM DB2® UDB™ for iSeries, level 4 or higher
- SF99099 IBM HTTP Server, level 5 or higher
- SF99282 WebSphere Portal Express/Express Plus Service Pack level 3 or higher
- SF99269 Java, level 5 or higher

To determine if the correct group PTF packages are installed, perform the following steps:

- ___ 1. Sign on to your server.
- ___ 2. Enter the **Work with PTF Groups** command on an i5/OS command line:

```
WRKPTFGRP *all
```

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The **Work with PTF Groups** status screen lists the PTF group level and what group PTFs have been applied to your server.

Download group PTFs as needed from the IBM PTF Fix Central Web site listed in the “Additional information” section of this lab.

Step 5: Install individual PTFs

After installing all required group PTFs, ensure that the following individual PTFs are installed:

Product	PTF	Comment
5722SS1	SI17277	OSP-DB-MSGSQL0514 PREPARED STMT NOT USED FOR 2ND OPEN
	SI17314	OSP-DB-MSGSQL0501 switching between NTS transactions
	SI17480	OSP-DB msgCPD0013 f/QCANPARS t/QDBOPEN per msgCPF32A4
	SI17274	OSP-DB-MSGSQL0514 PREPARED STMT NOT USED FOR 2ND OPEN
	SI17551	Database fix
5799PTL	SI09622	OSP-INCORROUT vnc does not start

Single PTFs can be downloaded from the IBM PTF Web site listed in the “Additional information” section.

To determine whether the correct individual PTF packages are installed, perform the following steps:

1. Sign on to your server.
2. Enter the Display PTF Status command on an i5/OS command line.

```
DSPPTF LICPGM(product)
```

The **Display PTF Status** screen is displayed. This screen lists the PTFs that have been applied to your server.

Step 6: Preparing for rich client setup (optional)

IBM Workplace Collaboration Services supports an optional rich client user experience, which is available as IBM Workplace Managed Client™. In order to take advantage of this rich user experience, customers and business partners must license both IBM Workplace Collaboration Services V2.5 (per CPU) and IBM Workplace Managed Client V2.5 (per user). The release of IBM Workplace Managed Client V2.5.1 is being coordinated by the IBM Workplace Client Technology Project Office (WCT PO) as a "Managed Availability" release. Additional information on Workplace Managed Client V2.5.1 is available through the Web site listed in the “Additional information” section.

If you are setting up a rich client provisioning server on i5/OS, the **Create IBM Workplace Collaboration Services** wizard can install and configure the rich client for you. Follow the 14 steps listed below.

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Note: You can perform these steps at any time before using the **Create IBM Workplace Collaboration Services** wizard. However, because you can launch the wizard directly from the Workplace Collaboration Services installation program, you might find it more convenient to perform the steps before installing Workplace Collaboration Services.

To prepare for rich client setup with the **Create IBM Workplace Collaboration Services** wizard, follow these steps.

- ___ 1. Sign on to your system with a user profile that has *ALLJOB authority.
- ___ 2. Start the Qshell Interpreter by entering the following on an i5/OS command line:
`STRQSH`
- ___ 3. Create a directory to hold rich client setup files by entering the following:
`mkdir -p /QIBM/ProdData/Workplace/WCT25/`
- ___ 4. Copy the directories on both rich client installation CDs to the newly created directory.
- ___ 5. Insert the first rich client CD into your system's optical drive.
- ___ 6. Change to the setup directory on the CD by entering the following:
`cd /qopt/volume1_name`
where *volume1_name* is the volume name of the first rich client CD.
- ___ 7. Copy the directory from the CD to your system by entering the following:
`cp -R WorkplaceSCI1 /QIBM/ProdData/Workplace/WCT25`
- ___ 8. Enter the following:
`cd /qopt`
- ___ 9. Insert the second rich client CD into your system's optical drive.
- ___ 10. Change to the setup directory on the CD by entering the following:
`cd /qopt/volume2_name`
where *volume2_name* is the volume name of the second rich client CD.
- ___ 11. Copy the directory from the CD to your system by entering the following:
`cp -R WorkplaceSCI2 /QIBM/ProdData/Workplace/WCT25`
Authorize the **Create IBM Workplace Collaboration Services** wizard to access the setup files.
- ___ 12. Change to the Workplace Collaboration Services product directory by entering the following:
`cd /QIBM/ProdData/Workplace`
- ___ 13. Authorize the wizard to access setup files by entering the following:
`chown -R QSYS /QIBM/ProdData/Workplace/WCT25`
- ___ 14. Confirm that the files are in the correct location by ensuring that the following files exist:
 - /QIBM/ProdData/Workplace/WCT25/WorkplaceSCI1/data.jar
 - /QIBM/ProdData/Workplace/WCT25/WorkplaceSCI2/media.inf

You can now install and configure the rich client using the **Create IBM Workplace Collaboration Services** wizard, providing you are licensed to use the rich client and selected the rich client offering during installation of Workplace Collaboration Services.

Step 7: Install Workplace Collaboration Services V2.5

Workplace Collaboration Services V2.5 can be installed remotely. You can follow the download directions at <http://xxx> to get the install files copied to your PC.

If you have the DVD:

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1. Insert the Workplace Collaboration Services installation DVD into the DVD-ROM drive of your workstation. From a command prompt, change to the LWPServer directory of the installation DVD (Example: cd D:\LWPServer).and run install400.bat

If you downloaded the e-image following the instructions at <http://xxx:>

2. Manually launch the install program by double-clicking the **install400.bat** file in the LWPServer directory.

If you have the CDs:

1. Gather the following CDs:
 - Server Install and Migration Tools
 - Learning Client Tools
 - Server Archive Install 1 of 6
 - Server Archive Install 2 of 6
 - Server Archive Install 3 of 6
 - Server Archive Install 4 of 6
 - Server Archive Install 5 of 6
 - Server Archive Install 6 of 6
2. Create a downloads directory on your hard drive.
3. Copy the contents of all CDs *except* the Server Archive Install 6 CD into the downloads directory.
4. Copy the following files from the Server Archive Install 6 CD into the downloads directory:
 - /LWPArchives/WAS_Archive_i5OS.tar.gz
 - /LWPArchives/WPS_Archive_i5OS.tar.gz
5. Verify that you have the following directory structure on your hard drive:
 - <download_directory>\LMSCClient
 - <download_directory>\LWPArchives
 - <download_directory>\LWPServer
 - <download_directory>\LWPUserMigration
6. Launch the install program by double-clicking the **install400.bat** file in the LWPServer directory.
7. Enter the iSeries host name, user ID, and password. The user ID should have *ALLOBJ, *IOSYSCFG, and *JOBCTL authorities. Click **OK** (Figure 9).

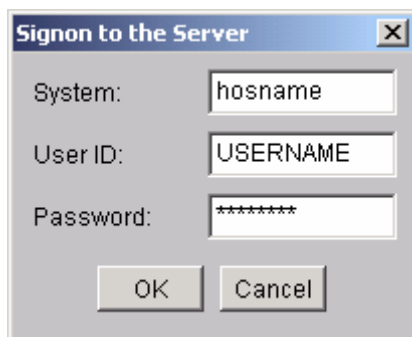


Figure 9: Authentication screen.

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- ___ 8. Select install language, click **OK** (Figure 10).



Figure 10: Select language for installation.

- ___ 9. Click **Next** on the information screen (Figure 11).

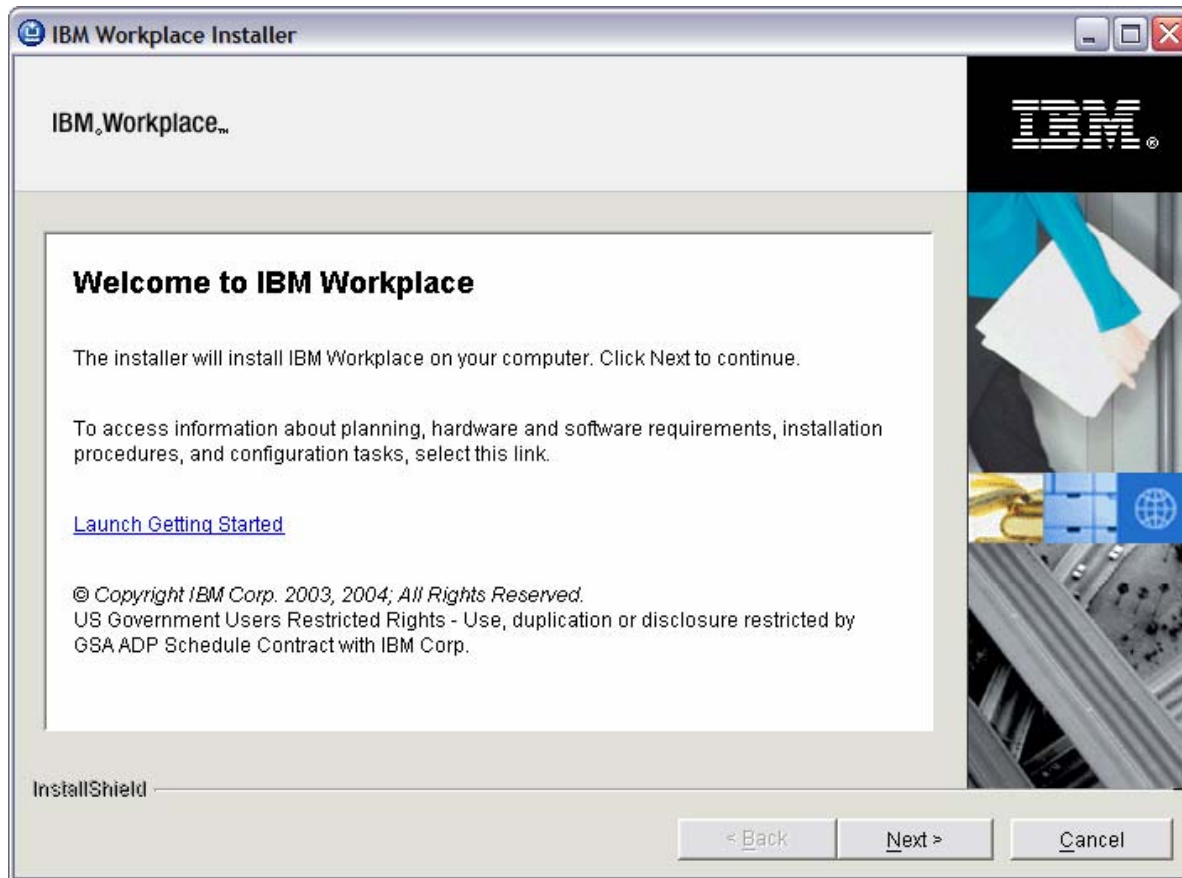


Figure 11: IBM Workplace Installer wizard, screen 1

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___ 10. The install process validates that the required i5/OS LPPs are installed (Figure 12).

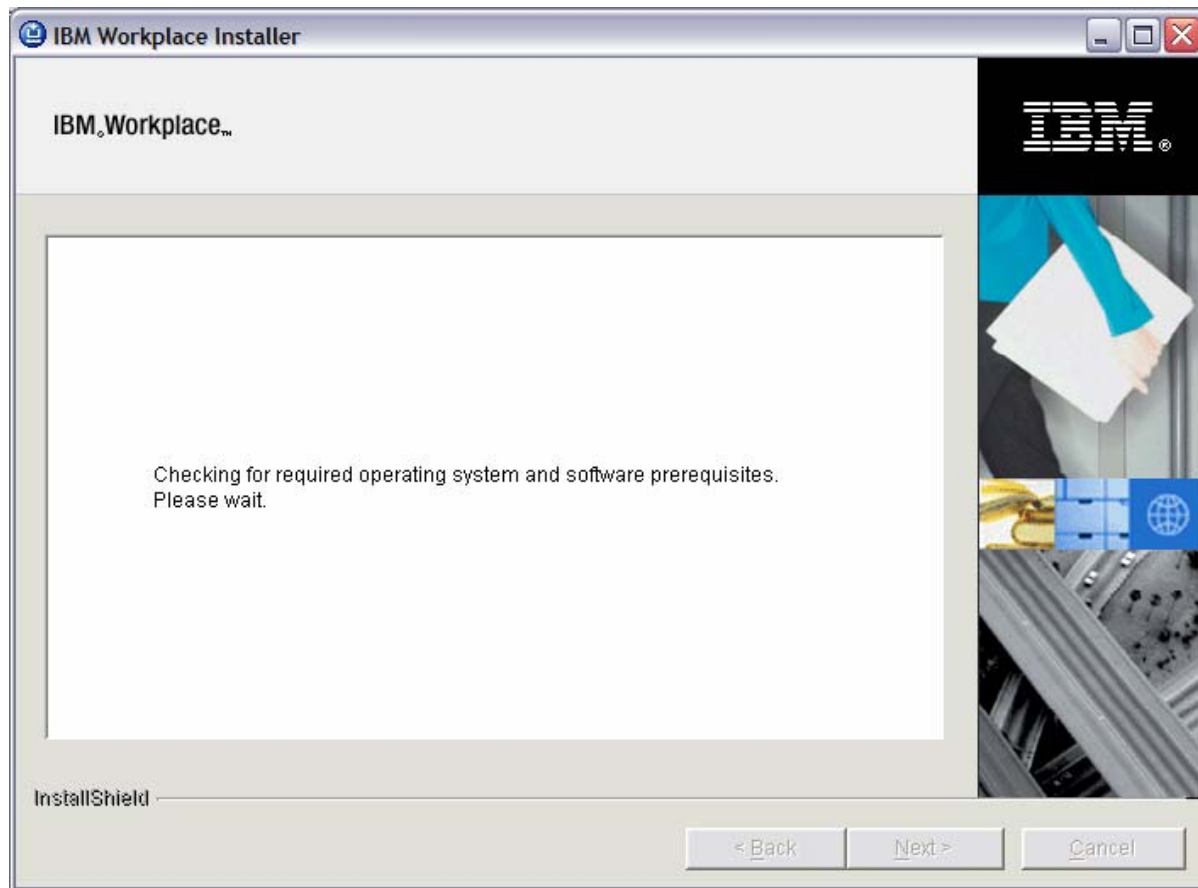


Figure 12: IBM Workplace Installer wizard, screen 2

If all of the prerequisites are met and Workplace is not already installed on the system, then you will get the offerings screen (Figure 13). Select the offerings you would like to install and for which you have purchased a license.

Note: The Workplace Managed Client and IBM Lotus® Web Content Management must be installed separately after you install Workplace Collaboration Services V2.5.

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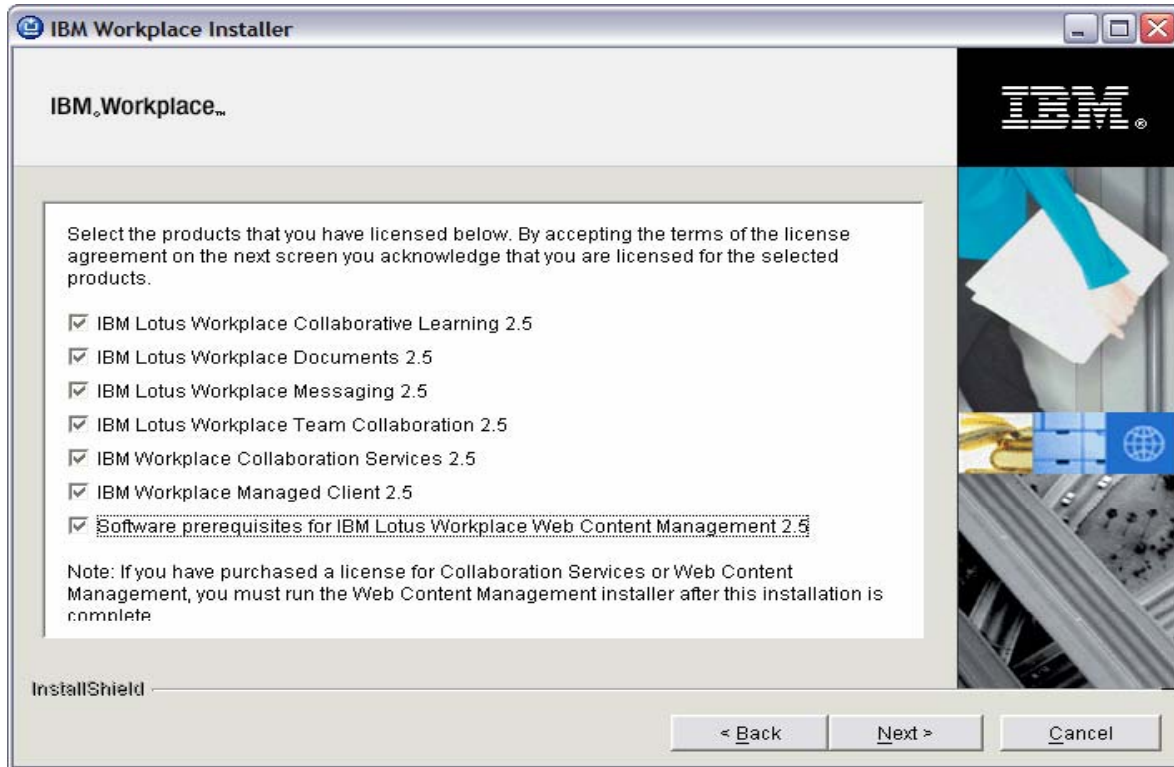


Figure 13: IBM Workplace Installer wizard, screen 4

__ 11. Accept the terms to the license agreement and click **Next** (Figure 14).

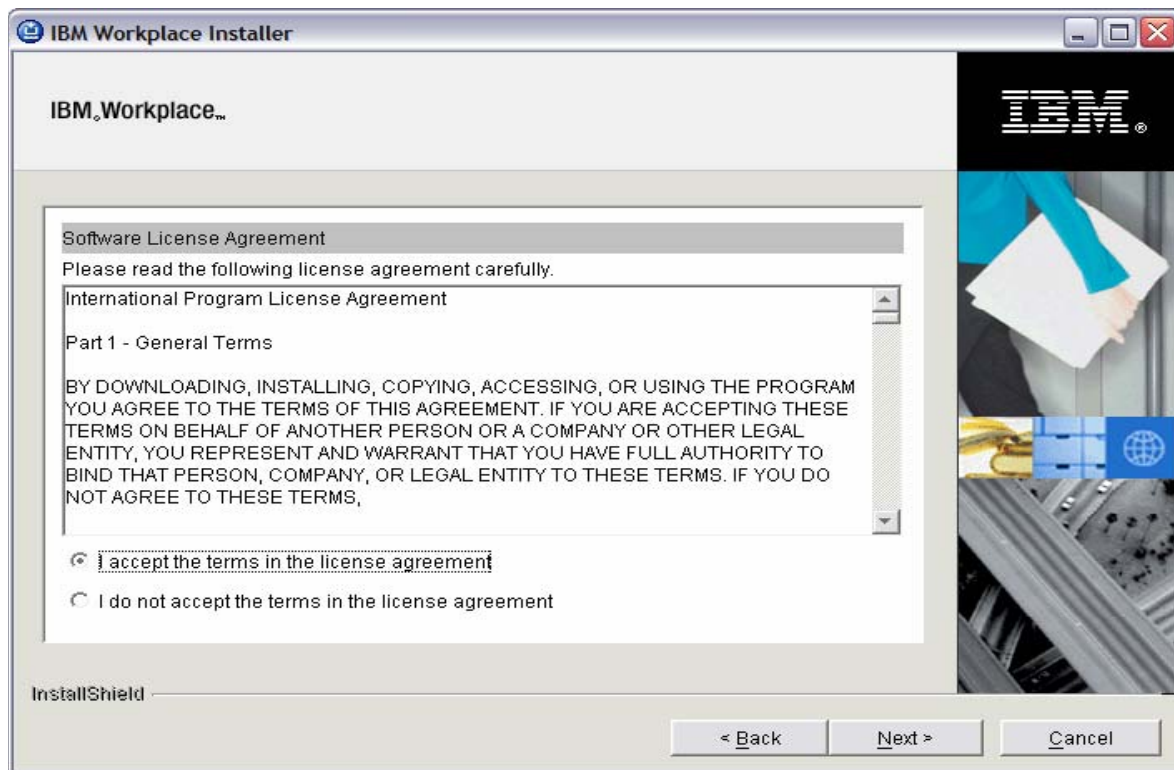


Figure 14: IBM Workplace Installer wizard, screen 5

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- ___ 12. On the Summary screen, review the install location and click **Next** to start the installation (Figure 15). (**Note:** For i5/OS, the install location will be the only entry in the summary section.)

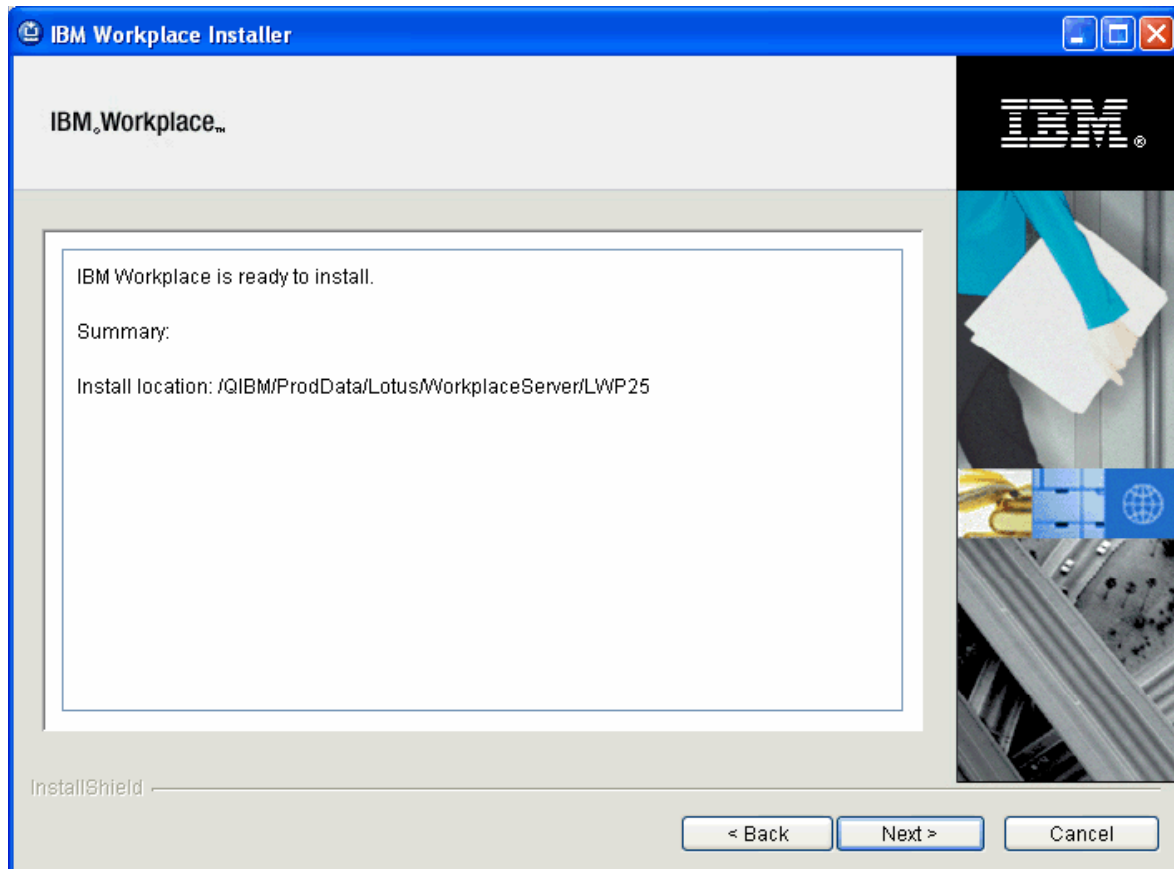


Figure 15: IBM Workplace Installer wizard, screen 7

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___ 13. When the install starts, the program displays a progress bar (Figure 16).

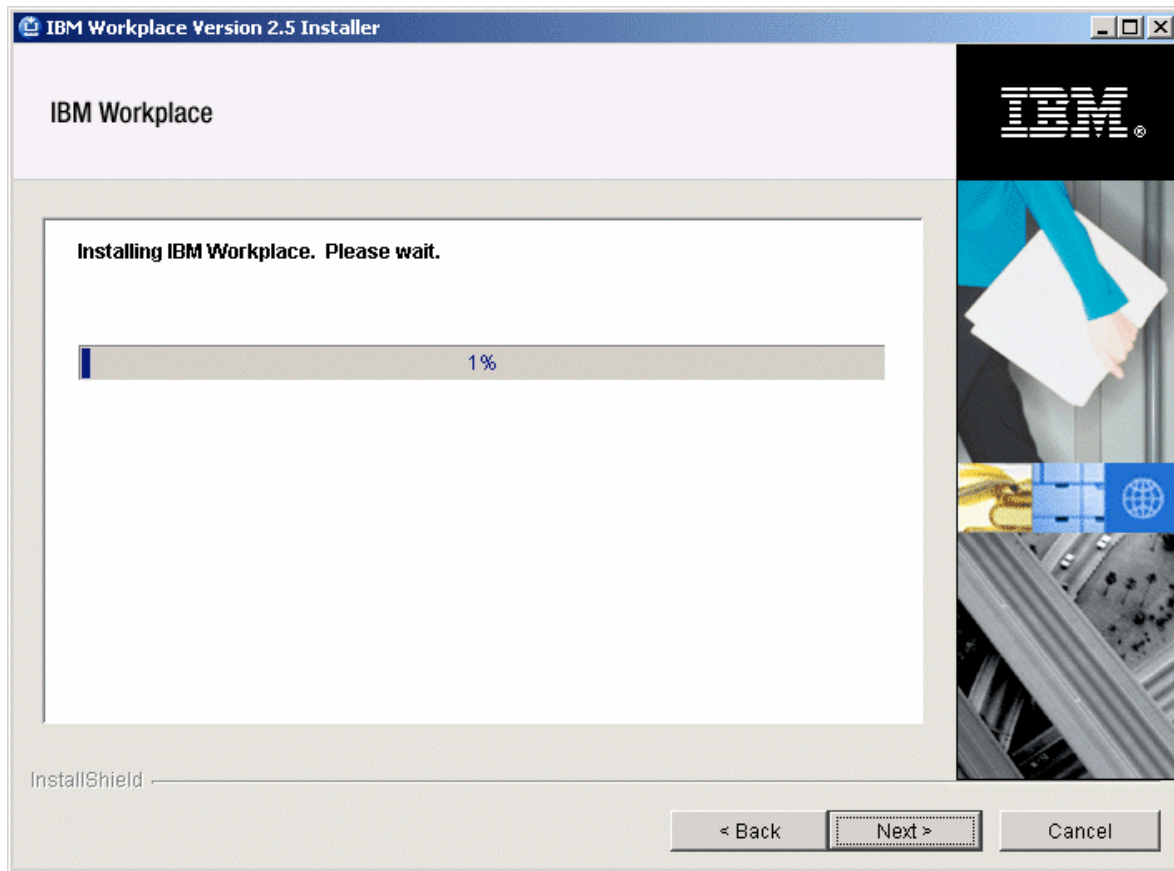


Figure 16: IBM Workplace Installer wizard, screen 8

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- ___ 14. When the installation completes, you will receive confirmation that the installation was successful (Figure 17).

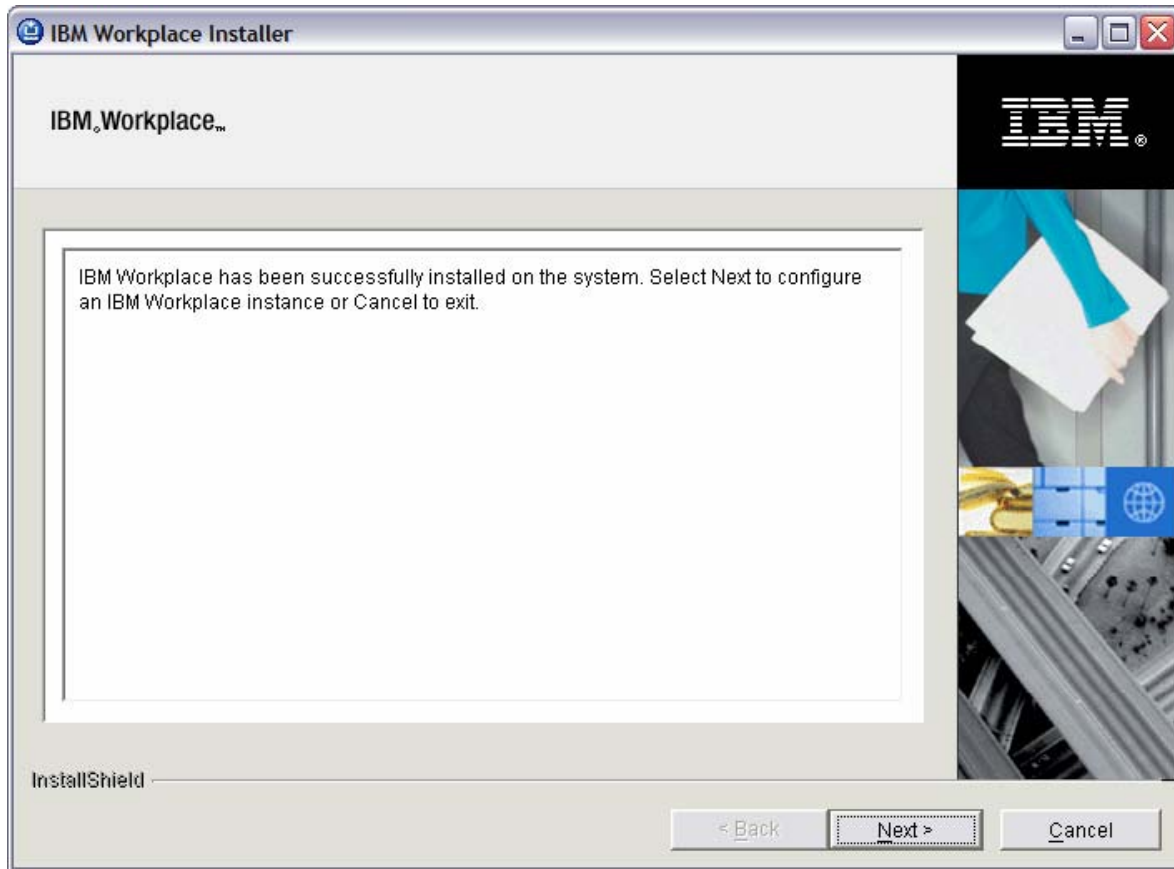


Figure 17: IBM Workplace Installer wizard, screen 9

- ___ 15. Verify installation. The code should be in the **/qibm/proddata/lotus/workplace/LWP25** directory.

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Step 8: Configure Workplace Collaboration Services instance

In this section, you will use the Workplace configuration wizard included in IBM Web Administration for iSeries to configure a working instance of Workplace Collaboration Services. The following components will be configured:

- WebSphere portal instance
- DB2 UDB collection and tables for storing portal information
- Database user profile
- HTTP Server
- WebSphere Application Server instances

Note: make sure popup blockers are disabled when using IBM Web Administration for iSeries.

If you just finished the install of Workplace Collaboration Services and you are continuing on, you should be on the topologies screen and you can skip to step two. If not:

1. Run the first five tasks in step 7 above (Install Workplace Collaboration Services V2.5) which will get you to a screen stating that Workplace has already been installed. Click **Next** (Figure 18).

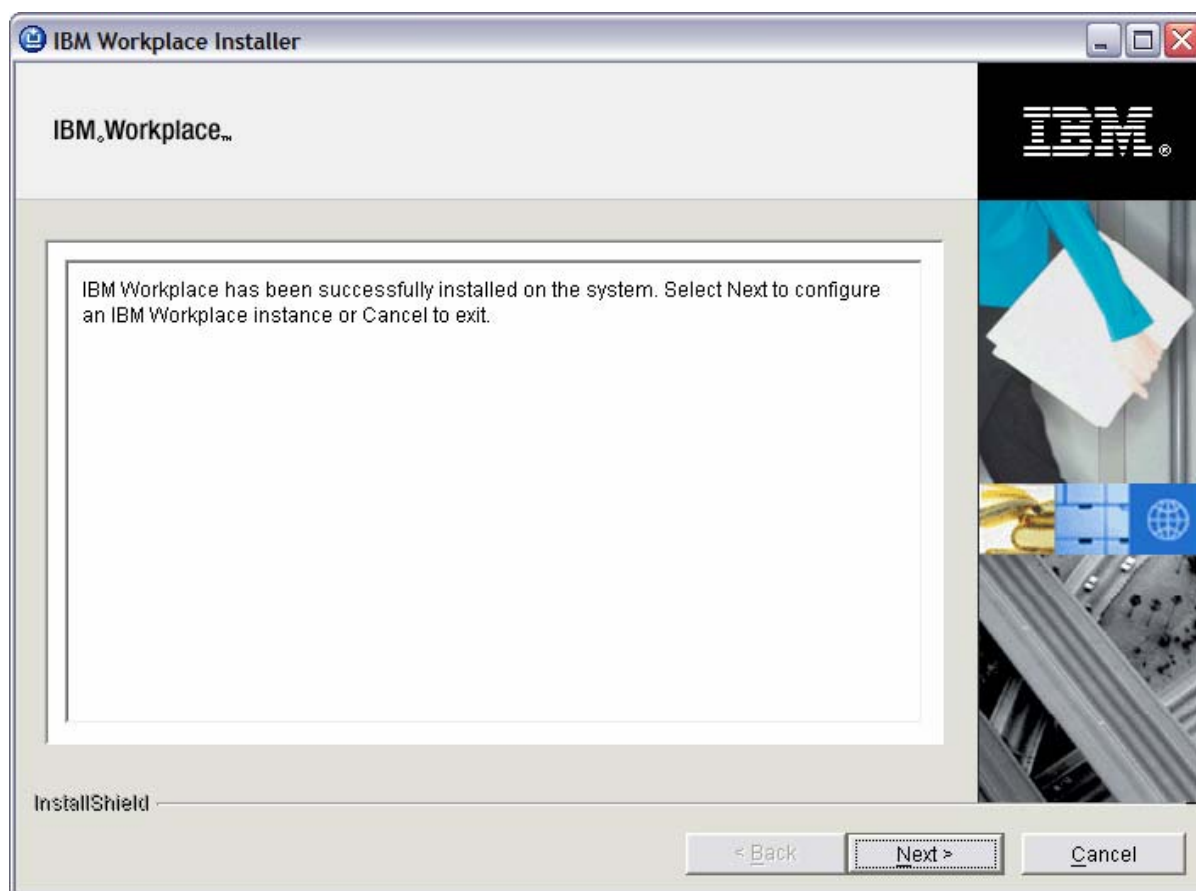


Figure 18: IBM Workplace Installer wizard, screen 11

Installing and configuring IBM Workplace Collaboration Services Version 2.5 on IBM eServer i5 systems

- __ 2. Choose the **IBM Workplace setup wizard for i5/OS** option and click **Next** (Figure 19).

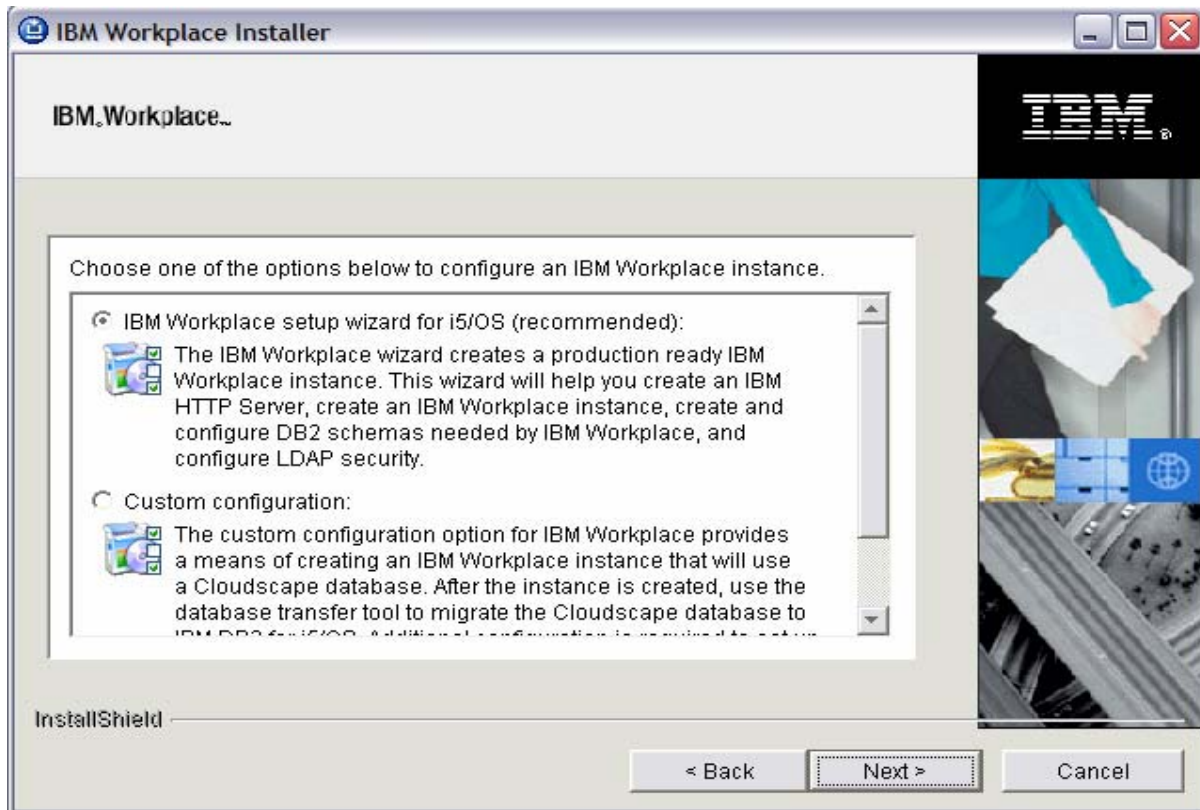


Figure 19: IBM Workplace Installer wizard, screen 13

By selecting **IBM Workplace setup wizard for i5/OS** on the panel shown in Figure 19, the next panel will indicate whether the installation program was able to detect and start the IBM HTTP Administration Server.

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If the IBM HTTP Administration Server is started, you can select **Launch the i5/OS setup wizard for IBM Workplace** and then **Finish** (Figure 20) to exit the installation program and immediately begin configuration of Workplace Collaboration Services.

If the installation program indicates it was unable to start the IBM HTTP Server administrative server, or if you do not wish to begin configuration immediately, click **Finish** to exit the installation program. To configure Workplace Collaboration Services, you will need to manually start IBM HTTP Server and the Create IBM Workplace Collaboration Services wizard.

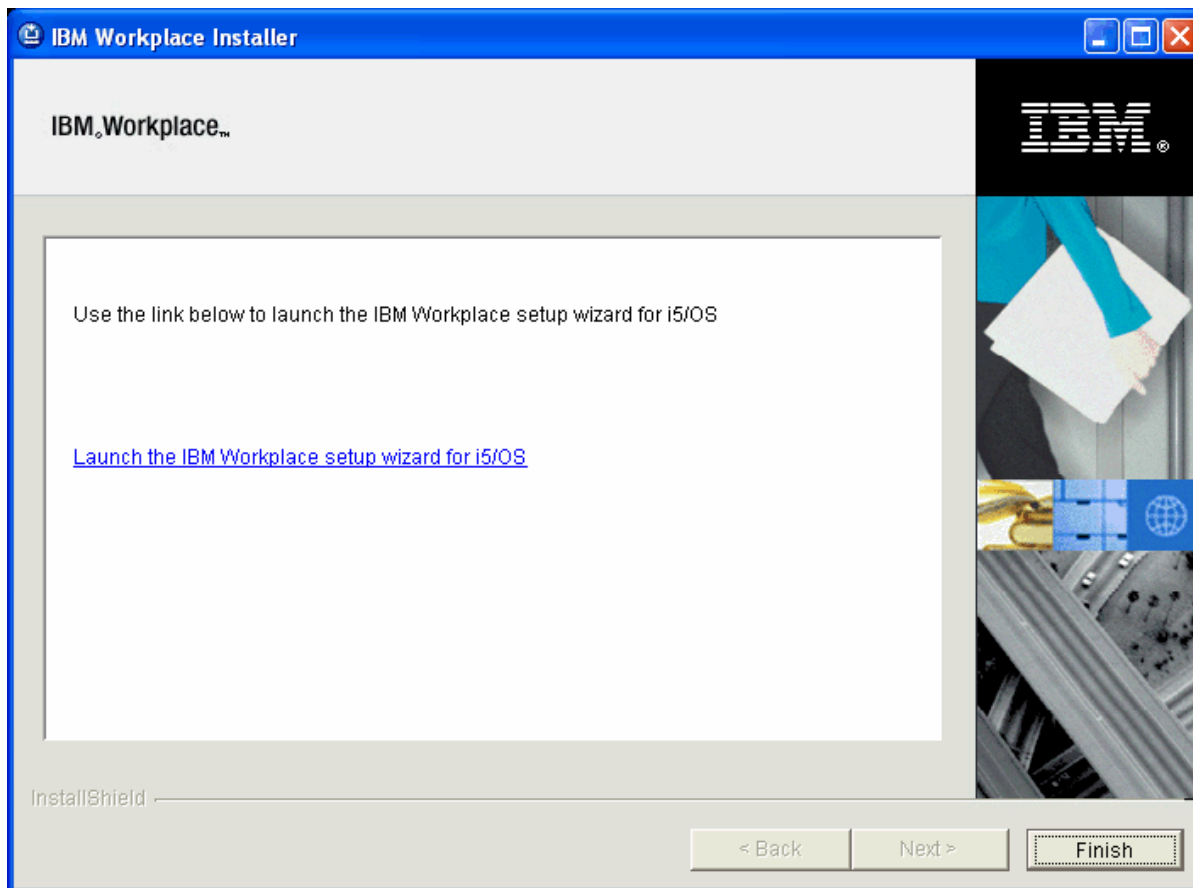


Figure 20: IBM Workplace Installer wizard, screen 14

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- ___ 3. If the HTTP Administration Server instance is up and running on the iSeries system, skip to step 4 at the bottom of this page.

However, if the HTTP Administration Server instance is not up and running on the iSeries system, you will get the following screen (Figure 21). Click **Next** to start the HTTP Administration Server instance.

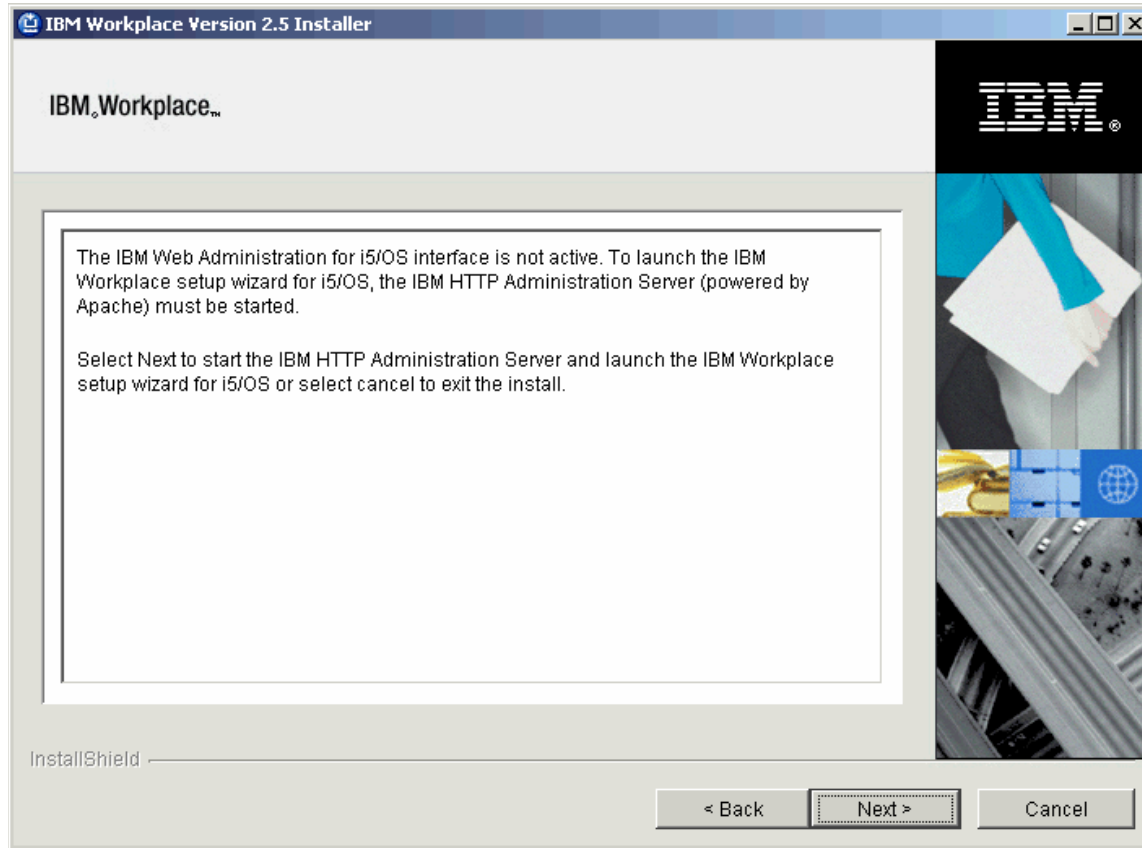


Figure 21: IBM Workplace Installer wizard, screen 15

- ___ 4. You should get a sign on window. Enter your iSeries user ID and password (Figure 22).



Figure 22: Authentication screen

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- ___ 5. A browser window will launch and bring you into the Create IBM Workplace wizard.

You can also open a browser and log on to IBM Web Administration for iSeries:
`http://hostname:2001/` (where *hostname* is the name of the server where Workplace Collaboration Services V2.5 is installed).

If the Web Administration instance is not running, on an i5/OS command line, run:
STRTCPSVR SERVER(*HTTP) HTTPSVR(*ADMIN)

- ___ 6. Once the Web Administration or instance loads in the browser, click **IBM HTTP Server for iSeries** (Figure 23).

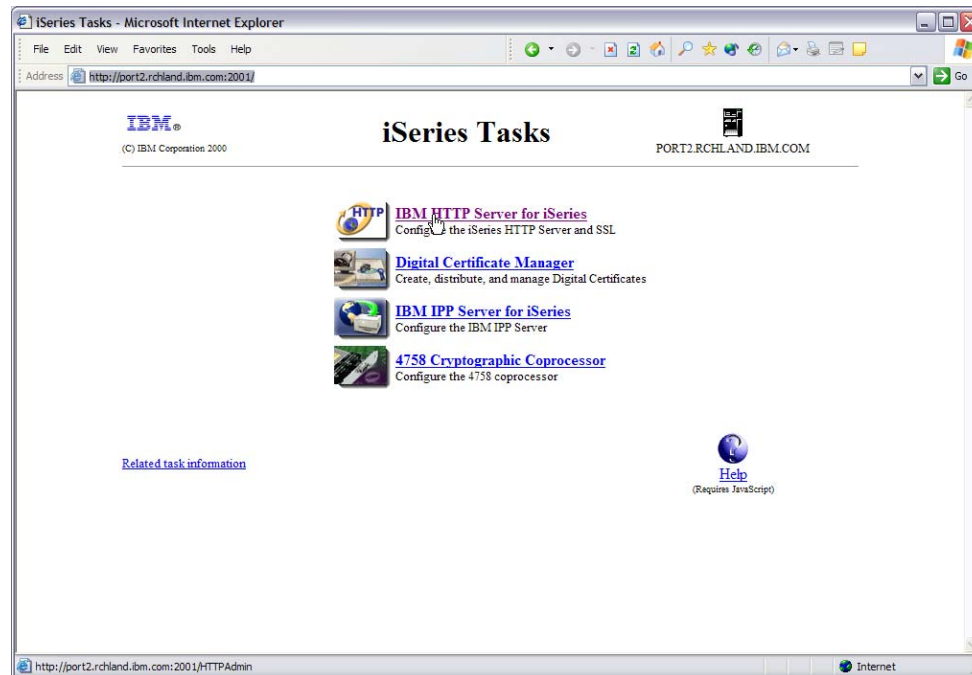


Figure 23: IBM administration browser window

Installing and configuring IBM Workplace Collaboration Services Version 2.5 on IBM eServer i5 systems

- ___ 7. Click the **Create IBM Workplace** link (Figure 24) on the left navigation bar (circled in red).

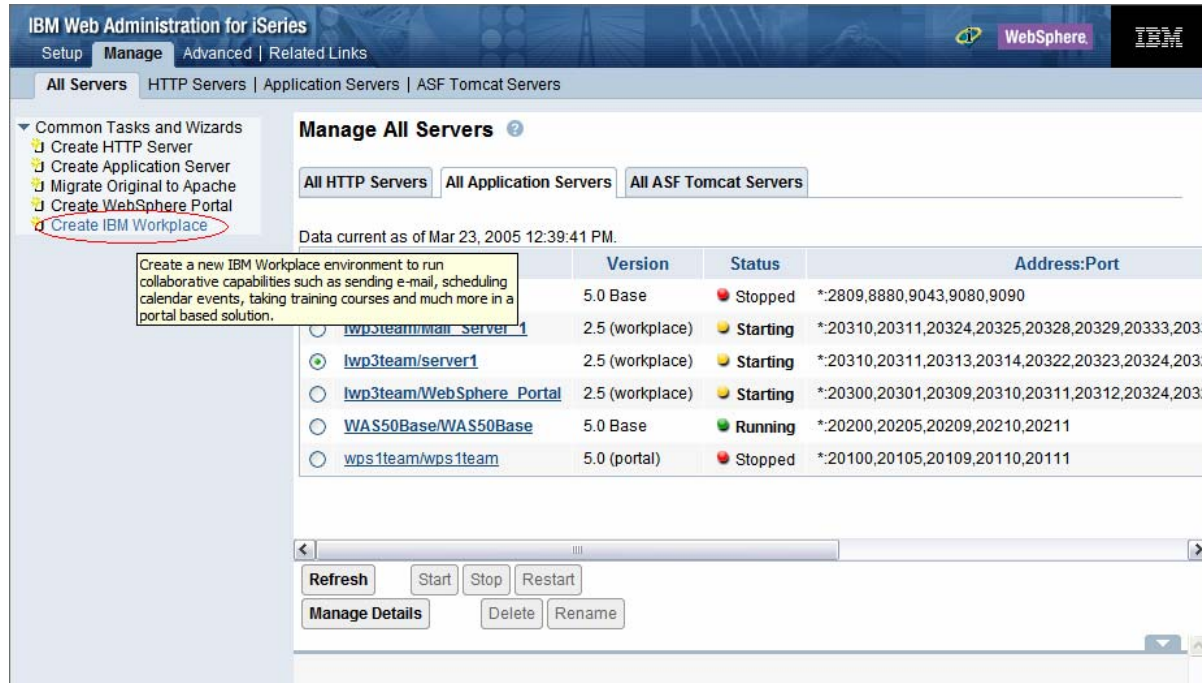


Figure 24: IBM Web Administration for iSeries: Create a new IBM Workplace environment

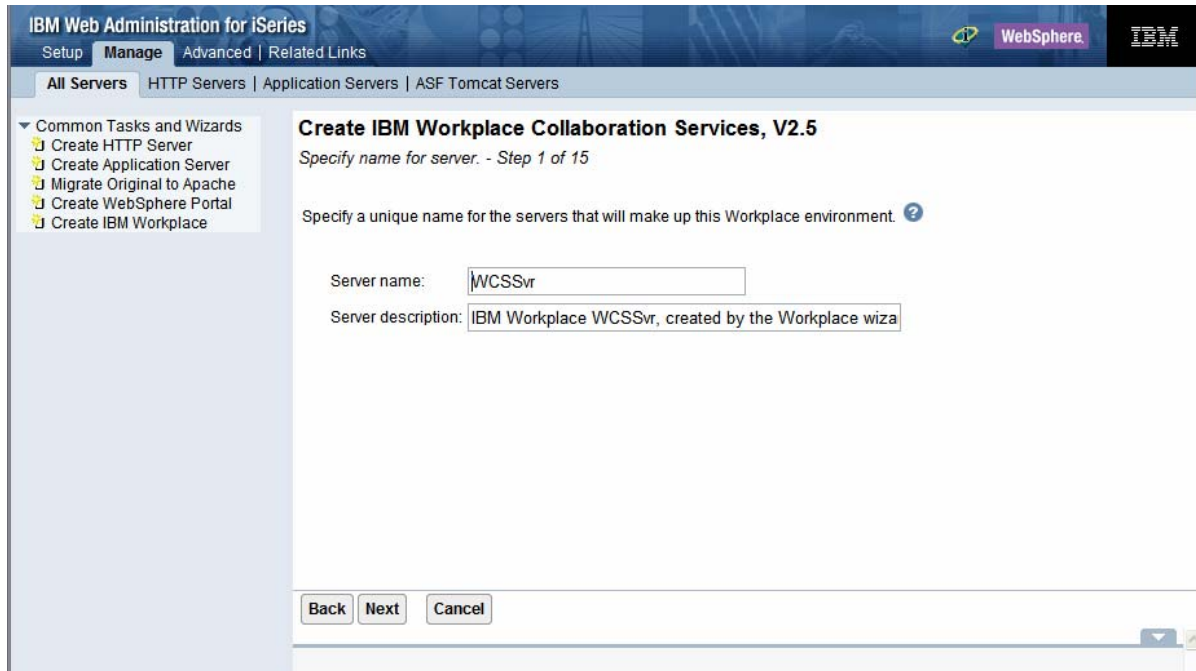
- ___ 8. The **Create IBM Workplace Collaboration Services, V2.5** welcome page provides an overview of the components configured by the wizard. Read the information and click **Next** (Figure 25).



Figure 25: IBM Web Administration for iSeries: Create IBM Workplace environment: Welcome screen

Installing and configuring IBM Workplace Collaboration Services Version 2.5 on IBM eServer i5 systems

- ___ 9. Specify a unique name for the servers that will make up this Workplace environment. Click **Next** (Figure 26).



IBM Web Administration for iSeries

Setup **Manage** Advanced | Related Links

All Servers HTTP Servers | Application Servers | ASF Tomcat Servers

Common Tasks and Wizards

- Create HTTP Server
- Create Application Server
- Migrate Original to Apache
- Create WebSphere Portal
- Create IBM Workplace

Create IBM Workplace Collaboration Services, V2.5

Specify name for server. - Step 1 of 15

Specify a unique name for the servers that will make up this Workplace environment. ?

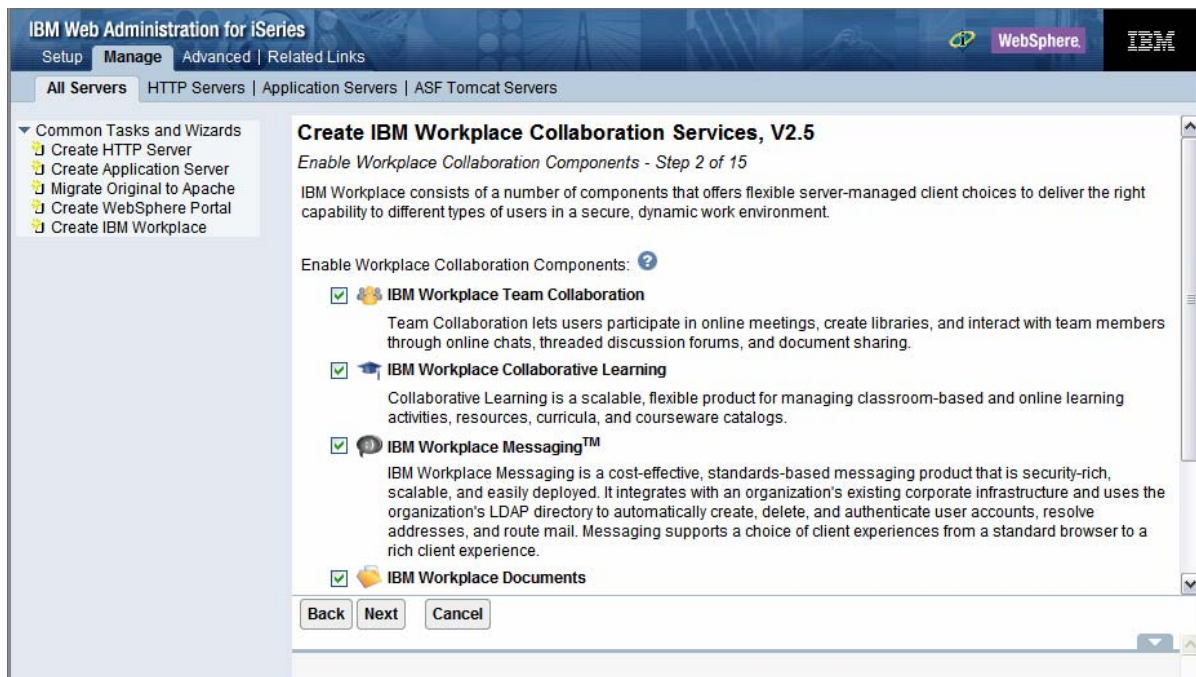
Server name:

Server description:

Back Next Cancel

Figure 26: IBM Web Administration for iSeries: Create a new IBM Workplace environment: Specify a unique server name

- ___ 10. Specify the Workplace Collaboration Components. Click **Next** (Figure 27).



IBM Web Administration for iSeries

Setup **Manage** Advanced | Related Links

All Servers HTTP Servers | Application Servers | ASF Tomcat Servers

Common Tasks and Wizards

- Create HTTP Server
- Create Application Server
- Migrate Original to Apache
- Create WebSphere Portal
- Create IBM Workplace

Create IBM Workplace Collaboration Services, V2.5

Enable Workplace Collaboration Components - Step 2 of 15

IBM Workplace consists of a number of components that offers flexible server-managed client choices to deliver the right capability to different types of users in a secure, dynamic work environment.

Enable Workplace Collaboration Components: ?

- IBM Workplace Team Collaboration**
Team Collaboration lets users participate in online meetings, create libraries, and interact with team members through online chats, threaded discussion forums, and document sharing.
- IBM Workplace Collaborative Learning**
Collaborative Learning is a scalable, flexible product for managing classroom-based and online learning activities, resources, curricula, and courseware catalogs.
- IBM Workplace Messaging™**
IBM Workplace Messaging is a cost-effective, standards-based messaging product that is security-rich, scalable, and easily deployed. It integrates with an organization's existing corporate infrastructure and uses the organization's LDAP directory to automatically create, delete, and authenticate user accounts, resolve addresses, and route mail. Messaging supports a choice of client experiences from a standard browser to a rich client experience.
- IBM Workplace Documents**

Back Next Cancel

Figure 27: IBM Web Administration for iSeries: Create a new IBM Workplace environment: Enable Workplace Collaboration Components

Installing and configuring IBM Workplace Collaboration Services Version 2.5 on IBM eServer i5 systems

- ___ 11. You can optionally install the rich client code into this instance if the code is loaded on the server. You can leave the default selected and click **Next** (Figure 28).

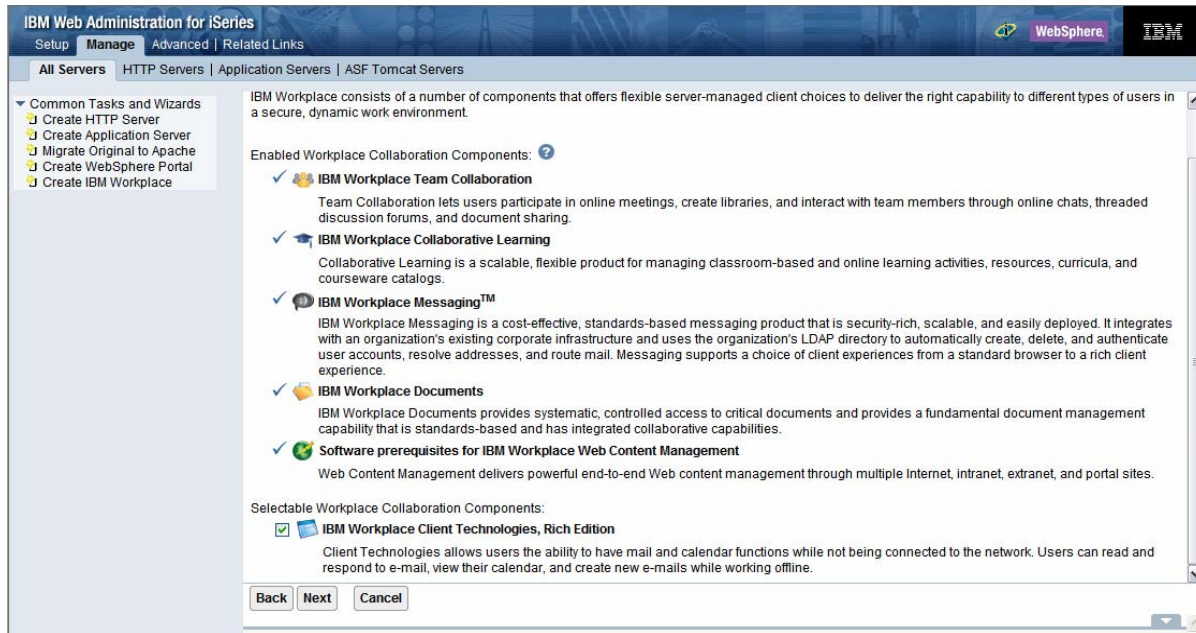


Figure 28: IBM Web Administration for iSeries: Create a new IBM Workplace environment: Select Workplace Collaboration Services components.

- ___ 12. On the **Specify Host Name** panel, select the host name you would prefer for your Workplace Collaboration Services instance to use. Click **Next** (Figure 29).

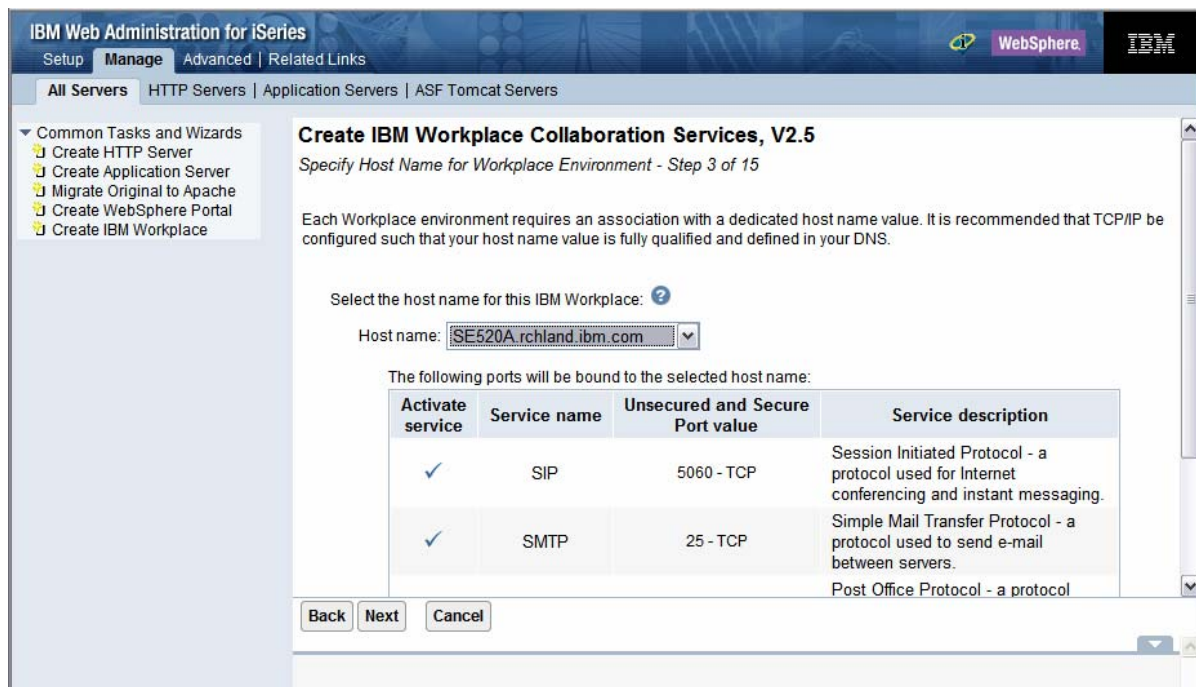


Figure 29: IBM Web Administration for iSeries: Create a new IBM Workplace environment: Select host name

Installing and configuring IBM Workplace Collaboration Services Version 2.5 on IBM eServer i5 systems

- ___ 13. Specify the e-mail domain and the DNS server name. You can leave the defaults and click **Next** (Figure 30).

IBM Web Administration for iSeries
Setup Manage Advanced | Related Links

All Servers HTTP Servers | Application Servers | ASF Tomcat Servers

Common Tasks and Wizards
Create HTTP Server
Create Application Server
Migrate Original to Apache
Create WebSphere Portal
Create IBM Workplace

Create IBM Workplace Collaboration Services, V2.5

Configure IBM Workplace Messaging - Step 4 of 15

Workplace Messaging allows users to send and receive e-mail messages, maintain and manage calendar events, schedule meetings, and maintain and manage contact information for people and for group mailing lists.

Specify the domain value for your company's e-mail domain name. Additional mail service domains that you wish to be considered local may also be specified.

Specify e-mail domain names:

E-mail domain names	
Inherited	SE520A.rchland.ibm.com

Add

Domain Name Servers (DNS) maintain lists of known domain names, IP addresses, and Mail Exchange (MX) attributes. Domain names (e.g., hostname.com) are more easily remembered by people, whereas IP addresses (e.g., 1.2.3.4) are understood by machines and is what is used by the Internet. Therefore, DNS systems are used to translate domain names into their corresponding IP addresses as well as determine how to route mail addressed for domain names based on the MX attributes.

Specify one or more Domain Name Servers used by your company:

DNS server name	
Inherited	The DNS for this i5/OS will be used by default

Add

Back Next Cancel

Figure 30: IBM Web Administration for iSeries: Create a new IBM Workplace environment: Select e-mail domain and DNS server name

- ___ 14. On panel 5, you can specify the messaging attributes. Leave the defaults and click **Next** (Figure 31).

IBM Web Administration for iSeries
Setup Manage Advanced | Related Links

All Servers HTTP Servers | Application Servers | ASF Tomcat Servers

Common Tasks and Wizards
Create HTTP Server
Create Application Server
Migrate Original to Apache
Create WebSphere Portal
Create IBM Workplace

Create IBM Workplace Collaboration Services, V2.5

Configure IBM Workplace Messaging - Step 5 of 15

Workplace Messaging allows users to send and receive e-mail messages, maintain and manage calendar events, schedule meetings, and maintain and manage contact information for people and for group mailing lists.

The following messaging attributes may be specified for the Mail Cell:

Junk mail filter: Yes

Empty trash/junk mail folder every: 6 Days

Maximum outbound SMTP message size: 2000 Kilobytes or...

Maximum inbound message size: 2000 Kilobytes or...

The following messaging attributes may be specified for Mail 'Default User Policy'

Mail account size: 60 Megabytes

Automatically create mailboxes: Yes

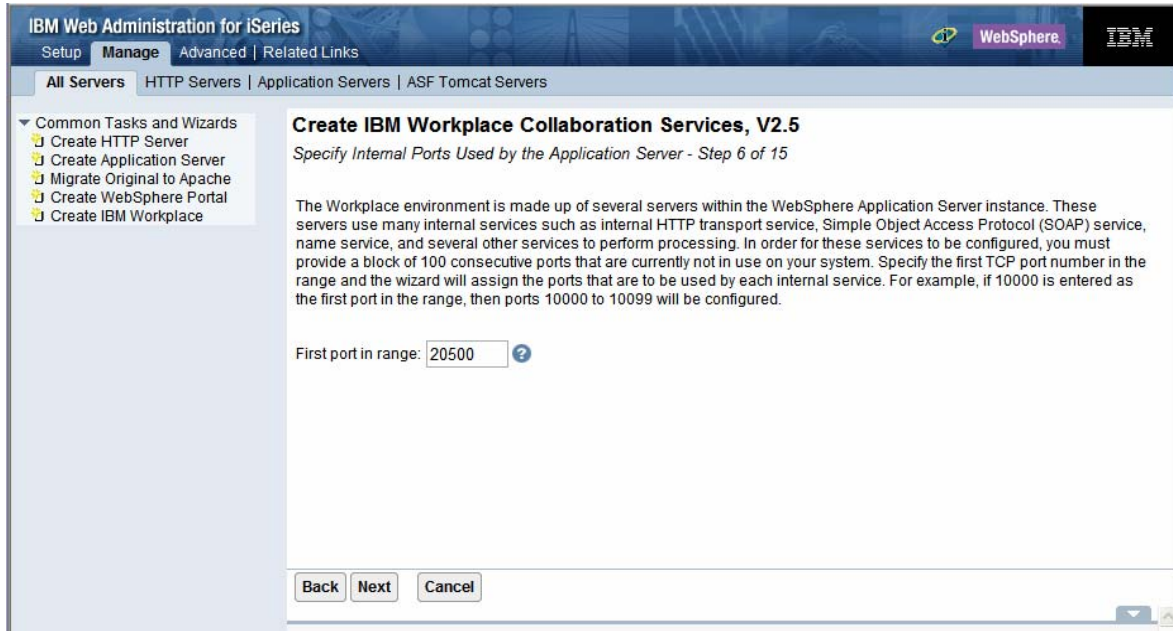
Back Next Cancel

Proceed to the next step of this task.

Figure 31: IBM Web Administration for iSeries: Create a new IBM Workplace environment: Specify messaging attributes

Installing and configuring IBM Workplace Collaboration Services Version 2.5 on IBM eServer i5 systems

- ___ 15. Workplace Collaboration Services uses a block of 100 consecutive ports. Specify the first port in the port range Workplace Collaboration Services will use. Click **Next** (Figure 32).



IBM Web Administration for iSeries

Setup Manage Advanced | Related Links

All Servers HTTP Servers | Application Servers | ASF Tomcat Servers

Common Tasks and Wizards

- Create HTTP Server
- Create Application Server
- Migrate Original to Apache
- Create WebSphere Portal
- Create IBM Workplace

Create IBM Workplace Collaboration Services, V2.5

Specify Internal Ports Used by the Application Server - Step 6 of 15

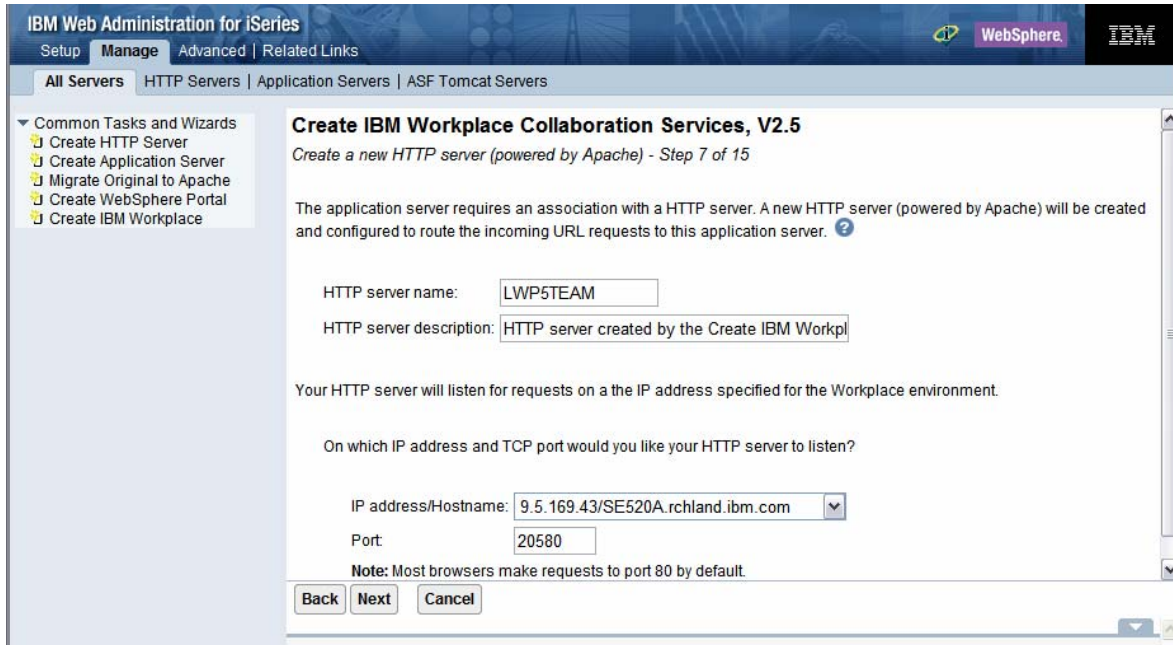
The Workplace environment is made up of several servers within the WebSphere Application Server instance. These servers use many internal services such as internal HTTP transport service, Simple Object Access Protocol (SOAP) service, name service, and several other services to perform processing. In order for these services to be configured, you must provide a block of 100 consecutive ports that are currently not in use on your system. Specify the first TCP port number in the range and the wizard will assign the ports that are to be used by each internal service. For example, if 10000 is entered as the first port in the range, then ports 10000 to 10099 will be configured.

First port in range:

Back Next Cancel

Figure 32: IBM Web Administration for iSeries: Create a new IBM Workplace environment: Specify the port range

- ___ 16. Enter the HTTP server name and description. Then select the IP address and port values for the HTTP Server. Click **Next** (Figure 33). (**Note:** In order for the rich client provisioning to work, you must use port 80.)



IBM Web Administration for iSeries

Setup Manage Advanced | Related Links

All Servers HTTP Servers | Application Servers | ASF Tomcat Servers

Common Tasks and Wizards

- Create HTTP Server
- Create Application Server
- Migrate Original to Apache
- Create WebSphere Portal
- Create IBM Workplace

Create IBM Workplace Collaboration Services, V2.5

Create a new HTTP server (powered by Apache) - Step 7 of 15

The application server requires an association with a HTTP server. A new HTTP server (powered by Apache) will be created and configured to route the incoming URL requests to this application server.

HTTP server name:

HTTP server description:

Your HTTP server will listen for requests on a the IP address specified for the Workplace environment.

On which IP address and TCP port would you like your HTTP server to listen?

IP address/Hostname:

Port:

Note: Most browsers make requests to port 80 by default.

Back Next Cancel

Figure 33: IBM Web Administration for iSeries: Create a new IBM Workplace environment

Installing and configuring IBM Workplace Collaboration Services Version 2.5 on IBM eServer i5 systems

Next, we need to specify the DB2 UDB information. Select **Create new collections on this local i5/OS server. Create a new user ID to own the databases.** You can also select to use an existing ID if you have one, although this is not recommended. Select **Name databases based on the server name. e.g. LWP5TEAM1, LWP5TEAM2, LWP5TEAM3, ...** Click **Next** (Figure 34).

NOTE: The databases being created need to be owned by an i5/OS user ID. It is recommended that a special user ID be specified whose purpose is to own the database. This prevents the database from being associated with a specific user whose user ID may be removed in the future. This specified user ID must have a password associated with it. A user ID named WPSDBUSER is recommended.

The screenshot shows the 'IBM Web Administration for iSeries' interface. The top navigation bar includes 'Setup', 'Manage', 'Advanced', and 'Related Links'. The main content area is titled 'All Servers' and contains a sidebar with 'Common Tasks and Wizards' including 'Create HTTP Server', 'Create Application Server', 'Migrate Original to Apache', 'Create WebSphere Portal', and 'Create IBM Workplace'. The main content area displays the following text: 'The databases being created need to be owned by an i5/OS user ID. It is recommended that a special user ID be specified whose only purpose is to own the database. This prevents the database from being associated with a specific user whose user ID may be removed in the future. This specified user ID must have a password associated with it. Using a User ID named 'WPSDBUSER' is recommended.'

Below this text are two sections of radio buttons:

- Specify where to create the collection, schema, or library name to use for the databases:**
 - Create new collections on this local i5/OS server. Specify an existing user ID to own the databases
 - Create new collections on this local i5/OS server. Create a new user ID to own the databases.
 - Create new collections on a remote i5/OS server
- Specify database naming method:**
 - Name databases based on their purpose. e.g. PORTALDB1, LWPMSG1, LWPLMS1, ...
 - Name databases based on the server name. e.g. LWP5TEAM1, LWP5TEAM2, LWP5TEAM3, ...

Form fields include: 'User ID:' with the value 'lwp5db', 'Password:' (masked with dots), and 'Confirm password:' (masked with dots). At the bottom are 'Back', 'Next', and 'Cancel' buttons. A red error bar at the bottom of the form area reads: 'Error: A value is required for this field.'

Figure 34: IBM Web Administration for iSeries: Create a new IBM Workplace environment

Installing and configuring IBM Workplace Collaboration Services Version 2.5 on IBM eServer i5 systems

- ___ 17. Select the security setting. Leave the default **Configure security using LDAP now. (Recommended)** selected and enter the host name and port for the Lightweight Directory Access Protocol (LDAP) server you plan to use to secure this Workplace Collaboration Services instance. Click **Next** (Figure 35).

The screenshot shows the 'IBM Web Administration for iSeries' interface. The top navigation bar includes 'Setup', 'Manage', 'Advanced', and 'Related Links'. The main content area is titled 'All Servers' and contains a list of 'Common Tasks and Wizards' on the left, including 'Create HTTP Server', 'Create Application Server', 'Migrate Original to Apache', 'Create WebSphere Portal', and 'Create IBM Workplace'. The main panel displays a list of bullet points explaining the security requirements for the Workplace environment. Below this, there is a section titled 'Specify security options for the Workplace environment:' with two radio button options: 'Configure security using LDAP now. (Recommended)' (which is selected) and 'Configure security using LDAP at a later time.'. Under the selected option, there is a sub-section 'Specify LDAP server information:' with two input fields: 'LDAP server host name:' containing 'SE520A.RCHLAND.IBM.COM' and 'LDAP port:' containing '389'. At the bottom of the form are 'Back', 'Next', and 'Cancel' buttons.

Figure 35: IBM Web Administration for iSeries: Create a new IBM Workplace environment: Enter the host name and port for the LDAP server.

Installing and configuring IBM Workplace Collaboration Services Version 2.5 on IBM eServer i5 systems

- ___ 18. Leave the default security setting **Allow write access to the LDAP directory** selected. Enter the LDAP administrator user ID and password. Click **Next** (Figure 36).

IBM Web Administration for iSeries

Setup Manage Advanced | Related Links

All Servers HTTP Servers | Application Servers | ASF Tomcat Servers

Common Tasks and Wizards

- Create HTTP Server
- Create Application Server
- Migrate Original to Apache
- Create WebSphere Portal
- Create IBM Workplace

Create IBM Workplace Collaboration Services, V2.5

LDAP Configuration Parameters - Step 10 of 15

Security for the Workplace environment can be configured with write access or read-only access to the LDAP directory information. Write access allows the Workplace server to update and manage user information. Read-only access will not allow the Workplace server to update user information in the LDAP directory.

Specify the access method: ?

Allow write access to the LDAP directory.

Specify an LDAP user DN that has write access to the LDAP directory. The LDAP administrator value is recommended.

LDAP user DN: e.g. cn=administrator

LDAP user password:

Allow read-only access to the LDAP directory.

Back Next Cancel

Figure 36: IBM Web Administration for iSeries: Create a new IBM Workplace environment: Enter LDAP administrator user ID and password.

Installing and configuring IBM Workplace Collaboration Services Version 2.5 on IBM eServer i5 systems

- ___ 19. Enter the location of the users and groups for the Workplace environment in the LDAP directory. You can use the **Browse** button to browse the LDAP directory and select the location through the wizard. Click **Next** (Figure 37).

IBM Web Administration for iSeries
Setup **Manage** Advanced | Related Links

All Servers | HTTP Servers | Application Servers | ASF Tomcat Servers

Common Tasks and Wizards
Create HTTP Server
Create Application Server
Migrate Original to Apache
Create WebSphere Portal
Create IBM Workplace

Create IBM Workplace Collaboration Services, V2.5

LDAP Configuration Parameters - Step 11 of 15

IBM Workplace utilizes LDAP to store user information for authentication purposes. Below is where the users and groups for the Workplace environment will reside in your LDAP directory.

Information describing user entries ?

Parent DN:

Object class:

Naming attribute:

Information describing the administrative group entry

Parent DN:

Object class:

Naming attribute:

Member attribute: uniqueMember

Figure 37: IBM Web Administration for iSeries: Create a new IBM Workplace environment: Enter LDAP user and group locations

- ___ 20. Leave the default administrative group name and administrator user ID (wpsadmin in this example). Enter in the administrator password. Click **Next** (Figure 38).

IBM Web Administration for iSeries
Setup **Manage** Advanced | Related Links

All Servers | HTTP Servers | Application Servers | ASF Tomcat Servers

Common Tasks and Wizards
Create HTTP Server
Create Application Server
Migrate Original to Apache
Create WebSphere Portal
Create IBM Workplace

Create IBM Workplace Collaboration Services, V2.5

LDAP Administrative Group and Administrative User - Step 12 of 15

IBM Workplace requires an administrative group and user entry in the LDAP directory. If the group and user entries do not already exist, the wizard will create them. If the group and user entries already exist, the wizard will validate that they are correct. The wizard will also ensure that the administrator user is added to the administrative group.

Note: The administrator user name specified here is the Workplace administrator, the WebSphere Application Server administrator, and the LDAP authentication user.

Workplace administrative group information: ?

Group name:

Workplace administrator information:

User name:

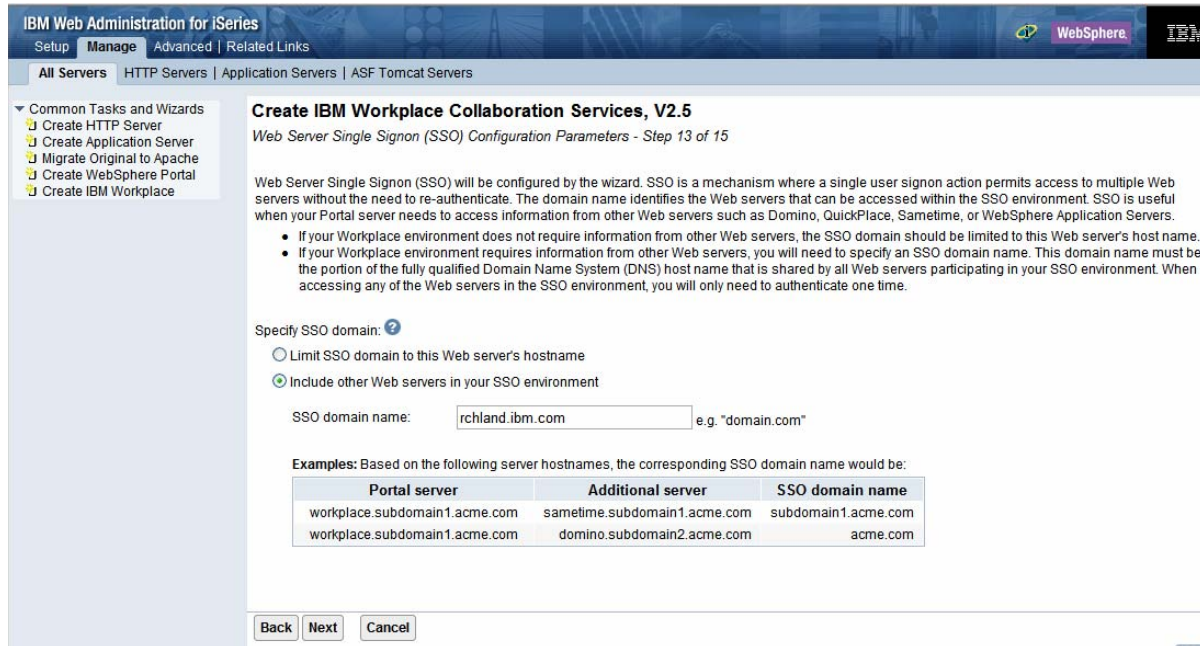
Password: Important - Keep this for future reference

Confirm Password:

Figure 38: IBM Web Administration for iSeries: Create a new IBM Workplace environment: Enter administrative group and user information

Installing and configuring IBM Workplace Collaboration Services Version 2.5 on IBM eServer i5 systems

- ___ 21. To set up single signon (SSO), select **Include other Web servers in your SSO environment**. Leave the default SSO domain name and click **Next** (Figure 39).



IBM Web Administration for iSeries
Setup Manage Advanced Related Links
All Servers HTTP Servers Application Servers ASF Tomcat Servers

Common Tasks and Wizards
Create HTTP Server
Create Application Server
Migrate Original to Apache
Create WebSphere Portal
Create IBM Workplace

Create IBM Workplace Collaboration Services, V2.5

Web Server Single Signon (SSO) Configuration Parameters - Step 13 of 15

Web Server Single Signon (SSO) will be configured by the wizard. SSO is a mechanism where a single user signon action permits access to multiple Web servers without the need to re-authenticate. The domain name identifies the Web servers that can be accessed within the SSO environment. SSO is useful when your Portal server needs to access information from other Web servers such as Domino, QuickPlace, Sametime, or WebSphere Application Servers.

- If your Workplace environment does not require information from other Web servers, the SSO domain should be limited to this Web server's hostname.
- If your Workplace environment requires information from other Web servers, you will need to specify an SSO domain name. This domain name must be the portion of the fully qualified Domain Name System (DNS) host name that is shared by all Web servers participating in your SSO environment. When accessing any of the Web servers in the SSO environment, you will only need to authenticate one time.

Specify SSO domain: ?

Limit SSO domain to this Web server's hostname

Include other Web servers in your SSO environment

SSO domain name: e.g. "domain.com"

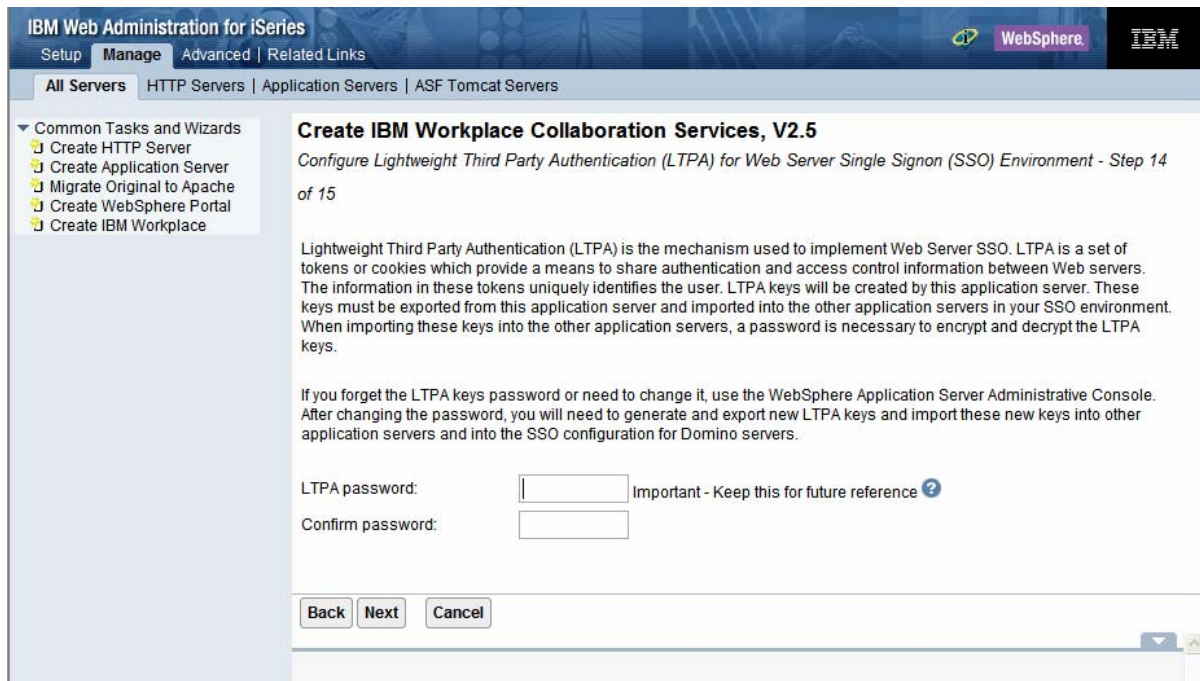
Examples: Based on the following server hostnames, the corresponding SSO domain name would be:

Portal server	Additional server	SSO domain name
workplace.subdomain1.acme.com	sametime.subdomain1.acme.com	subdomain1.acme.com
workplace.subdomain1.acme.com	domino.subdomain2.acme.com	acme.com

Back Next Cancel

Figure 39: IBM Web Administration for iSeries: Create a new IBM Workplace environment: Include other Web servers in your SSO environment

- ___ 22. Enter the Lightweight Third-party Authentication (LTPA) password used to encrypt the LTPA key used in the SSO domain. Click **Next** (Figure 40).



IBM Web Administration for iSeries
Setup Manage Advanced Related Links
All Servers HTTP Servers Application Servers ASF Tomcat Servers

Common Tasks and Wizards
Create HTTP Server
Create Application Server
Migrate Original to Apache
Create WebSphere Portal
Create IBM Workplace

Create IBM Workplace Collaboration Services, V2.5

Configure Lightweight Third Party Authentication (LTPA) for Web Server Single Signon (SSO) Environment - Step 14 of 15

Lightweight Third Party Authentication (LTPA) is the mechanism used to implement Web Server SSO. LTPA is a set of tokens or cookies which provide a means to share authentication and access control information between Web servers. The information in these tokens uniquely identifies the user. LTPA keys will be created by this application server. These keys must be exported from this application server and imported into the other application servers in your SSO environment. When importing these keys into the other application servers, a password is necessary to encrypt and decrypt the LTPA keys.

If you forget the LTPA keys password or need to change it, use the WebSphere Application Server Administrative Console. After changing the password, you will need to generate and export new LTPA keys and import these new keys into other application servers and into the SSO configuration for Domino servers.

LTPA password: Important - Keep this for future reference ?

Confirm password:

Back Next Cancel

Figure 40: IBM Web Administration for iSeries: Create a new IBM Workplace environment: Enter LTPA password

Installing and configuring IBM Workplace Collaboration Services Version 2.5 on IBM eServer i5 systems

- ___ 23. Review the summary information. You can use the **Edit** button to make changes to any of the values you have entered so far. You can use the **Printable Summary** button to get a paged view of this information that can then be printed off. Click **Finish** (Figure 41).

Note: It might take up to five hours to configure a Workplace Collaboration Services instance.

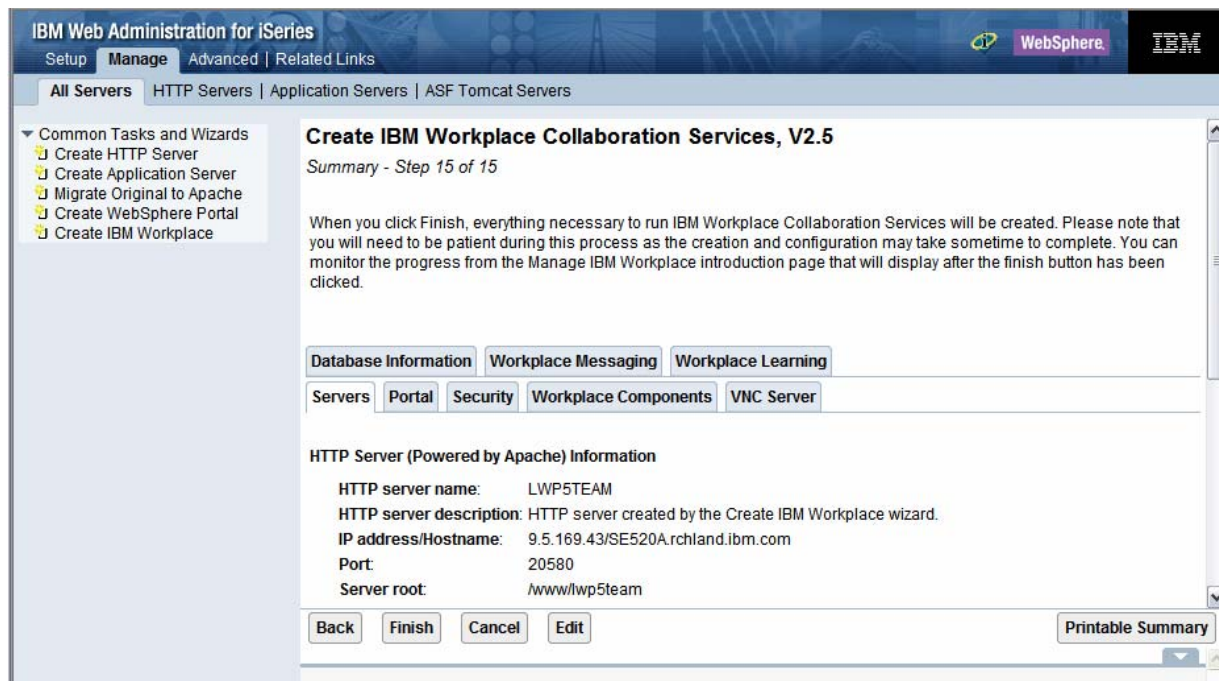


Figure 41: IBM Web Administration for iSeries: Create a new IBM Workplace environment: Summary

Installing and configuring IBM Workplace Collaboration Services Version 2.5 on IBM eServer i5 systems

__ 24. Once the installation starts, you will get a progress screen (Figure 42).

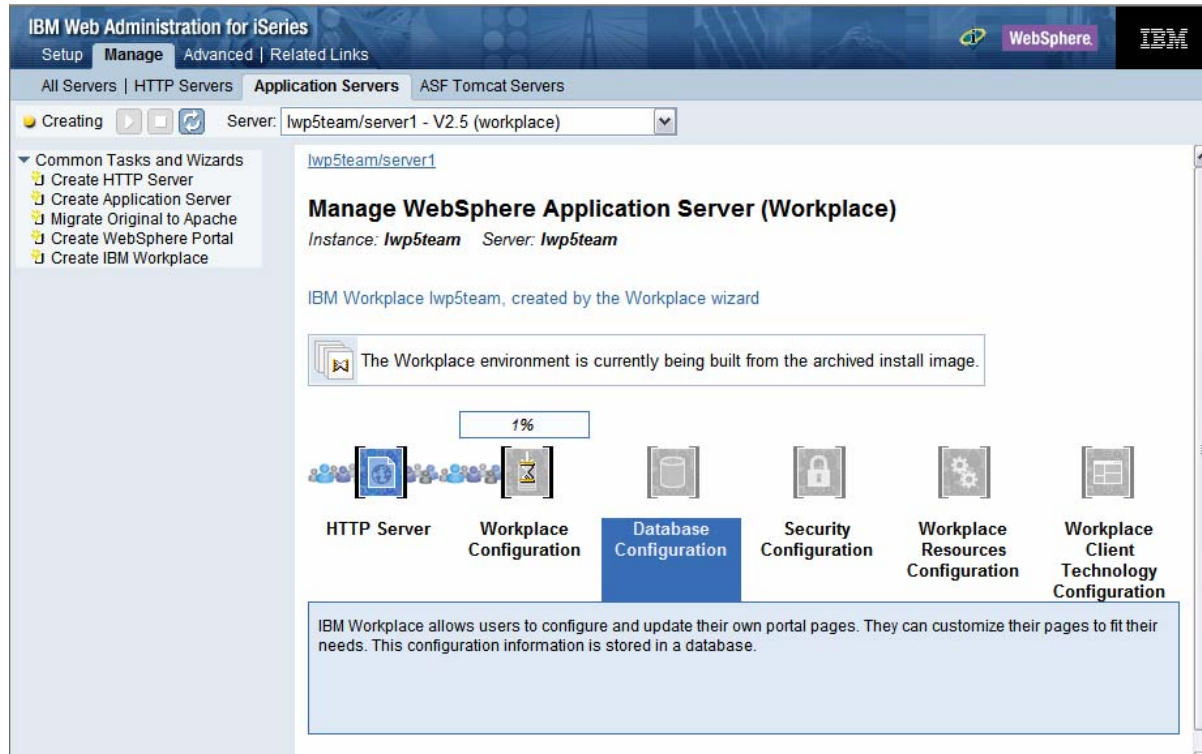


Figure 42: IBM Web Administration for iSeries: Create a new IBM Workplace environment

Installing and configuring IBM Workplace Collaboration Services Version 2.5 on IBM eServer i5 systems

25. After the wizard is finished, the following screen is displayed. Click on the **access your Workplace environment** URL (circled in red) to launch the Workplace Collaboration Service V2.5 server instance in a browser (Figure 43).

Note: You can also click on the links at the bottom (circled in blue) to view the logs for each step in the creation of the Workplace Collaboration Services instance. If there are errors on any of the steps, you can view the logs by following these links.

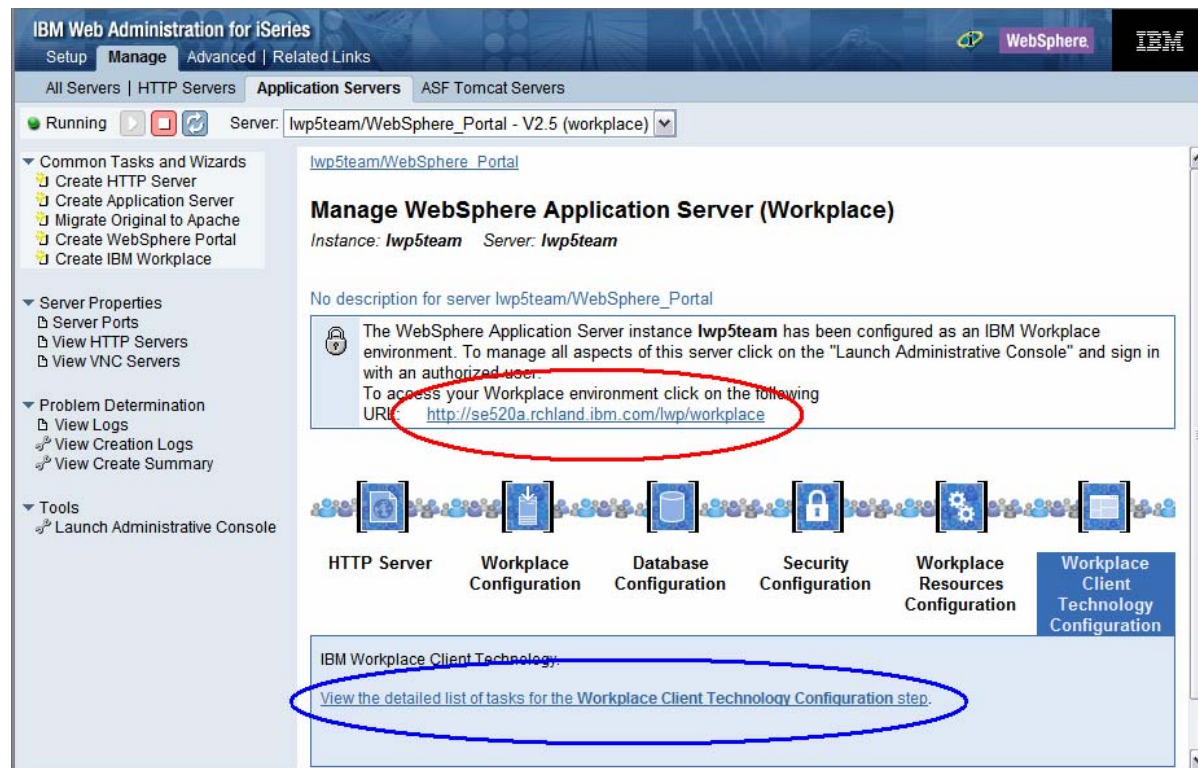


Figure 43: IBM Web Administration for iSeries: Create a new IBM Workplace environment

Summary

In this lab, you have learned how to install and configure Workplace Collaboration Services V2.5 on an iSeries system. You can find the latest information on Workplace Collaboration Services V2.5 at the IBM Workplace Collaboration Services Information Center Web site listed in the “Additional information” section.

Installing and configuring IBM Workplace Collaboration Services Version 2.5 on IBM eServer i5 systems

Additional information

These Web sites provide useful reference materials to supplement the information contained within this lab.

- IBM Software Access Catalog
developer.ibm.com/welcome/softmall.html
- Ordering PTFs for your iSeries family system
www-912.ibm.com/supporthome.nsf/document/10000069
- IBM PTF Fix Central for group PTF downloads
www-912.ibm.com/eserver/support/fixes/fcgui.jsp
- IBM PTF Web site
ibm.com/eserver/support/series/fixes/index.htm
- IBM Workplace Managed Client V2.5 upcoming release information
lotus.com/partnerswmc
- IBM Workplace Collaboration Services information center
publib.boulder.ibm.com/infocenter/lwpphelp/index.jsp

Appendix A: LDAP Configuration

To set up a new branch in the LDAP directory, follow the instructions below. This setup is only required once for each Workplace server host name.

- ___ 1. Start iSeries Operations Navigator and connect to the host that contains the LDAP server.
- ___ 2. Click **Network > Servers > TCP/IP**.
- ___ 3. Right click on **IBM Directory Server** and then click **Properties**.
- ___ 4. Click the **Databases/Suffixes** tab then fill in the new suffix (for example, o=LWP_<my_host_name>) and click **Add**, then **OK**.

Note: If you are using V5R3 or later of iSeries Operations Navigator, you do not have to restart the server for a new suffix to take effect.

To load entries into your new LDAP branch you can create an .ldif file and import the file into the LDAP server

- ___ 1. Create a new text .ldif file (eg. Lwpusers.ldif)
- ___ 2. Copy, paste and modify the following entries to match your environment:

```
# NOTE: you must edit this file before importing it

dn: o=LWP_MY_HOST_NAME
objectclass: organization
objectclass: top

dn: cn=users,o=LWP_MY_HOST_NAME
objectclass: container
objectclass: top
cn: users

dn: cn=groups,o=LWP_MY_HOST_NAME
objectclass: top
objectclass: container
cn: groups

#####
#
#           WPSADMIN
#
#####

dn: uid=wpsadmin,cn=users,o=LWP_MY_HOST_NAME
objectclass: organizationalPerson
objectclass: person
objectclass: top
objectclass: inetOrgPerson
uid: wpsadmin
userpassword: wpsadmin
sn: admin
givenName: wps
cn: wps admin
mail: wpsadmin@MY_HOST_NAME

#####
```

**Installing and configuring IBM Workplace Collaboration Services Version 2.5
on IBM eServer i5 systems**

```
#
#           WPSBIND
#
#####

dn: uid=wpsbind,cn=users,o=LWP_MY_HOST_NAME
objectclass: top
objectclass: person
objectclass: organizationalPerson
objectclass: inetOrgPerson
uid: wpsbind
userpassword: wpsbind
sn: bind
givenName: wps
cn: wps bind

#####
#
#           WPSADMINS
#
#####

dn: cn=wpsadmins,cn=groups,o=LWP_MY_HOST_NAME
objectclass: groupOfUniqueNames
objectclass: top
uniquemember: uid=wpsadmin,cn=users,o=LWP_MY_HOST_NAME
cn: wpsadmins

#####
#
#           LWP USERS
#
#####

dn: uid=user1,cn=users,o=LWP_MY_HOST_NAME
objectclass: organizationalPerson
objectclass: person
objectclass: top
objectclass: inetOrgPerson
uid: user1
userpassword: password
sn: user1
givenName: LWP
cn: LWP Users1
mail: user1@MY_HOST_NAME

dn: uid=user2,cn=users,o=LWP_MY_HOST_NAME
objectclass: organizationalPerson
objectclass: person
objectclass: top
objectclass: inetOrgPerson
uid: user2
userpassword: password
sn: user2
givenName: LWP
cn: LWP Users2
mail: user2@MY_HOST_NAME
```


**Installing and configuring IBM Workplace Collaboration Services Version 2.5
on IBM eServer i5 systems**

- ___5. Copy this file to any directory on the integrated file system (IFS).
- ___6. Stop the LDAP server by right clicking on **IBM Directory Server** and then click **Stop**.
- ___7. Right Click on **IBM Directory Server** and click **Tools->Import File** and select the .ldif file you copied to the iSeries system. This will create all the users and groups in the branch specified in the .ldif file.
- ___8. Right click on **IBM Directory Server** and then click **Start**.

To verify the LDAP server and directory are working correctly:

- ___1. Log in to the iSeries system.
- ___2. Start Qshell Interpreter by running the **strqsh** command.
- ___3. Run the following command edited for your environment:
`ldapsearch -h <hostname> -b <base dn for search> "uid=wpsadmin"`

That is:

```
> ldapsearch -h se520a.rchland.ibm.com -b o=lwp_se520a "uid=wpsadmin"
uid=wpsadmin,cn=users,o=LWP_se520a
objectclass=organizationalPerson
objectclass=person
objectclass=top
objectclass=inetOrgPerson
uid=wpsadmin
sn=admin
givenName=wps
cn=wps admin
mail=wpsadmin@se520a.rchland.ibm.com
$
```

**Installing and configuring IBM Workplace Collaboration Services Version 2.5
on IBM eServer i5 systems**

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