

IBM Installation Manager



Unit objectives

After completing this unit, you should be able to:

- Define the IBM Installation Manager
- Describe the IBM Installation Manager wizards
- Describe the IBM Packaging Utility
- Uninstall the IBM Installation Manager

Topics

- IBM Installation Manager overview
- IBM Installation Manager installation
- IBM Installation Manager – modify
- IBM Installation Manager – update
- IBM Packaging Utility
- Uninstall IBM Installation Manager

IBM Installation Manager overview



IBM Installation Manager (1 of 3)

- IBM Installation Manager is the Eclipse-based tool to manage the installation, update, modification, rollback, and uninstallation of product packages
- Includes a number of wizards that make it easy to maintain packages throughout their lifecycles:
 - Installation wizard: walks you through the installation
 - Update wizard: searches for updates to packages installed
 - Modify wizard: modifies certain elements of a package
 - Roll back wizard: allows you to revert to a previous version of a package
 - Uninstall wizard: removes a package
 - Manage licenses wizard: allows you to manage and configure various licenses
- Can be installed interactively or silently

IBM Installation Manager (2 of 3)

- Install binary files relevant to user selections and system environment
- GUI and response file modes of operation
 - GUI to complete individual operations
 - Response files can be recorded from the GUI or created by specifying the appropriate xml
 - Silent mode support for starting multiple operations
- Single user experience across WebSphere, WebSphere components, and various IBM products
 - A single instance of IBM Installation Manager can manage the product lifecycle for any Installation Manager-based products, from WebSphere, Rational, and others
 - Support for WebSphere, IBM HTTP Server, WebSphere Customization Toolbox, and others

IBM Installation Manager (3 of 3)



IBM Installation Manager history

- IBM Installation Manager product was originally introduced to support the installation of IBM Rational desktop products
- Currently multiple products across IBM use Installation Manager
 - A single instance of IBM Installation Manager can manage the product lifecycle for any IBM Installation Manager based product from WebSphere, Rational, Lotus, or any other brand within IBM
- IBM Installation Manager supports
 - Full graphical user interface (GUI)
 - Command-line (IMCL) mode and response file
- IBM Installation Manager can install the product directly from:
 - Product (DVD) media
 - IBM Passport Advantage website
 - Customer internal enterprise intranet

IBM Installation Manager basics

- The IBM Installation Manager can be used to interactively install or update packages
 - Set repository preferences to indicate where to get the data for installing or updating packages
 - Default repository preferences is a service repository which requires Internet connectivity
 - Can modify repository preference to use local repository
- Starting the IBM Installation Manager:
 - Can be started by using the Start/Computer menu
 - Can be started by using the **IBMIM** command
 - In `<install_root>/IBM/InstallationManager/eclipse`
- More information about the IBM Installation Manager can be found by using the information center
 - `http://publib.boulder.ibm.com/infocenter/install/v1r5/index.jsp`

Installation Manager command line

- When you cannot use the IBM Installation Manager user interface, you can use IBM Installation Manager command line to manage installations
 - In `<IM_install_root>/tools/imcl`
- Use imcl commands with either the installed version of Installation Manager or the Installation Manager installer
- From the command line, you can:
 - Manage installations
 - View repository contents, available packages, fixes, and others
 - Run installation scripts that include commands and options for specifying the details of your installation
- Run the help command to view the available commands for Installation Manager
 - For example, `<IM_install_root>/tools/imcl -help`



IBM Installation Manager repository (1 of 3)

- Contains one or multiple product offerings that have both metadata and actual payload for the offerings
- Metadata describes such aspects of the offering as:
 - Name, version, supported platforms, and other items
 - Components of the offering (optional and required feature)
 - Relationships between offerings and features of the offerings
- Repository normally contains full content that is required to install certain offering of various platforms, operating systems, and others
- Different IBM Installation Managers, on different workstations, can reference the same repository

IBM Installation Manager repository (2 of 3)

- Repository topologies can be generalized in the following three categories
 - Public IBM hosted repository (accessible to general public using URL)
 - Enterprise hosted repository (located behind the firewall that multiple computers within the enterprise access)
 - Local Installation Manager repository (single user accesses repository, not shared with others)
- Tools are provided to copy offerings from one repository to another
 - IBM Package Utility or file transfer tools

IBM Installation Manager repository (3 of 3)

Repositories

Appearance

Files for Rollback

▶ Help

▶ Internet



Passport Advantage

Updates

Repositories

← → ▼

Repositories:

Location	Connection
<input checked="" type="checkbox"/> /usr/IBM-repository/WAS/repository.config	
<input checked="" type="checkbox"/> /usr/IBM-repository/Supplement/repository.config	

Add Repository...

Edit Repository...

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.

☒ Search service repositories during installation and updates.

Restore Defaults

Apply

Remote installations

- IBM Installation Manager – manages installation on local system and can:
 - Access remote installation repositories
 - Update the current installation
- Job manager – sends batch style tasks to remote systems to run
 - Can communicate with deployment managers or admin agents
- Centralized installation manager (CIM) - can remotely run installations

IBM Installation Manager installation



Installing the IBM Installation Manager

- For computers that do not have internet access, you must download the installer package on a computer that has internet access
 - Download the installer package, `agent.installer.platform.zip`, for a specific platform
 - Copy the compressed file to the computer where you are installing the Installation Manager
- Multiple installation options
 - IBM Installation Manager user interface (GUI installation)
 - Silently
- Starting the IBM Installation Manager user interface
 - Windows: `install.exe`
 - UNIX: `./install`

Install IBM Installation Manager (1 of 6)

WebSphere Application Server

Select a language: English OK

Welcome

Installation Manager installation

WebSphere Application Server

WebSphere DMZ Secure Proxy Server

IBM HTTP Server

Web Server Plug-ins

WebSphere Customization Toolbox

Application Clients

IBM WebSphere Edge Components

IBM Support Assistant

IBM Tivoli Composite Application Manager for WebSphere Application Server

IBM Tivoli Federated Identity Manager

IBM WebSphere Adapters

Exit

IBM Installation Manager Installation

IBM Installation Manager is the tool you use to install and maintain your IBM software packages. Installation Manager has a set of wizards that guide you through the steps to install, modify, update, roll back, or uninstall your IBM products. Installation Manager must be installed to your computer to install WebSphere Application Server and other supplementary products.

 [Launch the Installation Manager installation for a single user.](#)

Install the Installation Manager for the current user.

 [Launch the Installation Manager installation for administrators.](#)

Install the Installation Manager for administrators. Super user access is required. To install on the IBM i operating system, either use the remote installation utility from a Windows workstation, run Installation Manager in command-line mode, or run the installation silently with a response file on the IBM i operating system.

 [IBM Installation Manager Information Center](#)

The IBM Installation Manager Information Center provides documentation for installing and using Installation Manager.

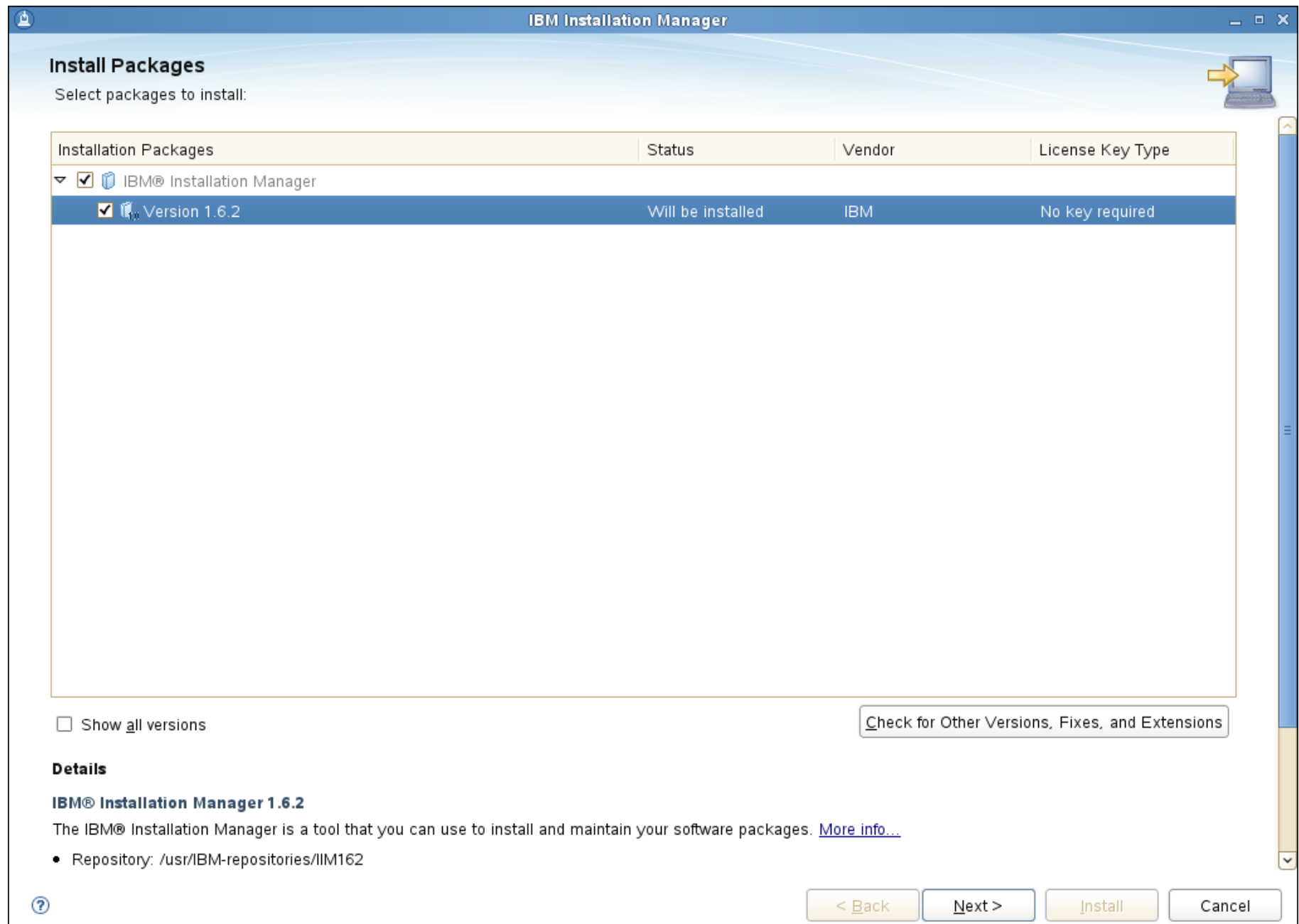
IBM Packaging Utility

IBM Installation Manager installs products and updates from repositories located on your disks or online repositories hosted by IBM. Install the IBM Packaging Utility to create your own repositories that can be available over HTTP or HTTPS on your own web server or on a shared network drive. Use the Packaging Utility to set up a new repository and copy one or more product packages or updates to the repository.

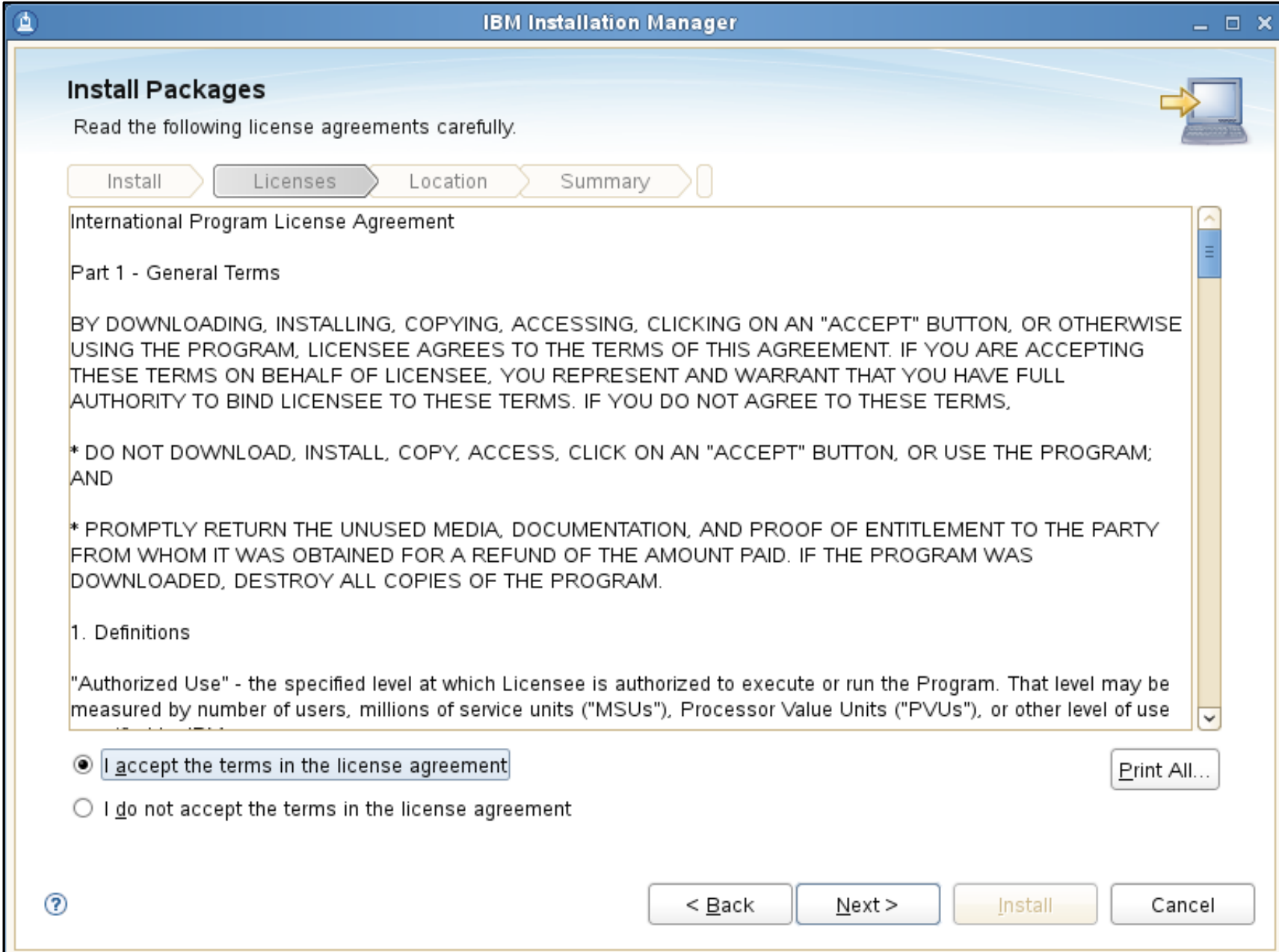
 [Download the latest version of IBM Packaging Utility](#)

Go online to obtain the latest version of IBM Packaging Utility.

Install IBM Installation Manager (2 of 6)



Install IBM Installation Manager (3 of 6)



IBM Installation Manager

Install Packages

Read the following license agreements carefully.

Install Licenses Location Summary

International Program License Agreement

Part 1 - General Terms

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 other level of use

☒ I accept the terms in the license agreement

☐ I do not accept the terms in the license agreement

Print All...

? < Back Next > Install Cancel

Install IBM Installation Manager (4 of 6)

IBM Installation Manager

Install Packages
Select a location for Installation Manager.

Install Licenses **Location** Summary

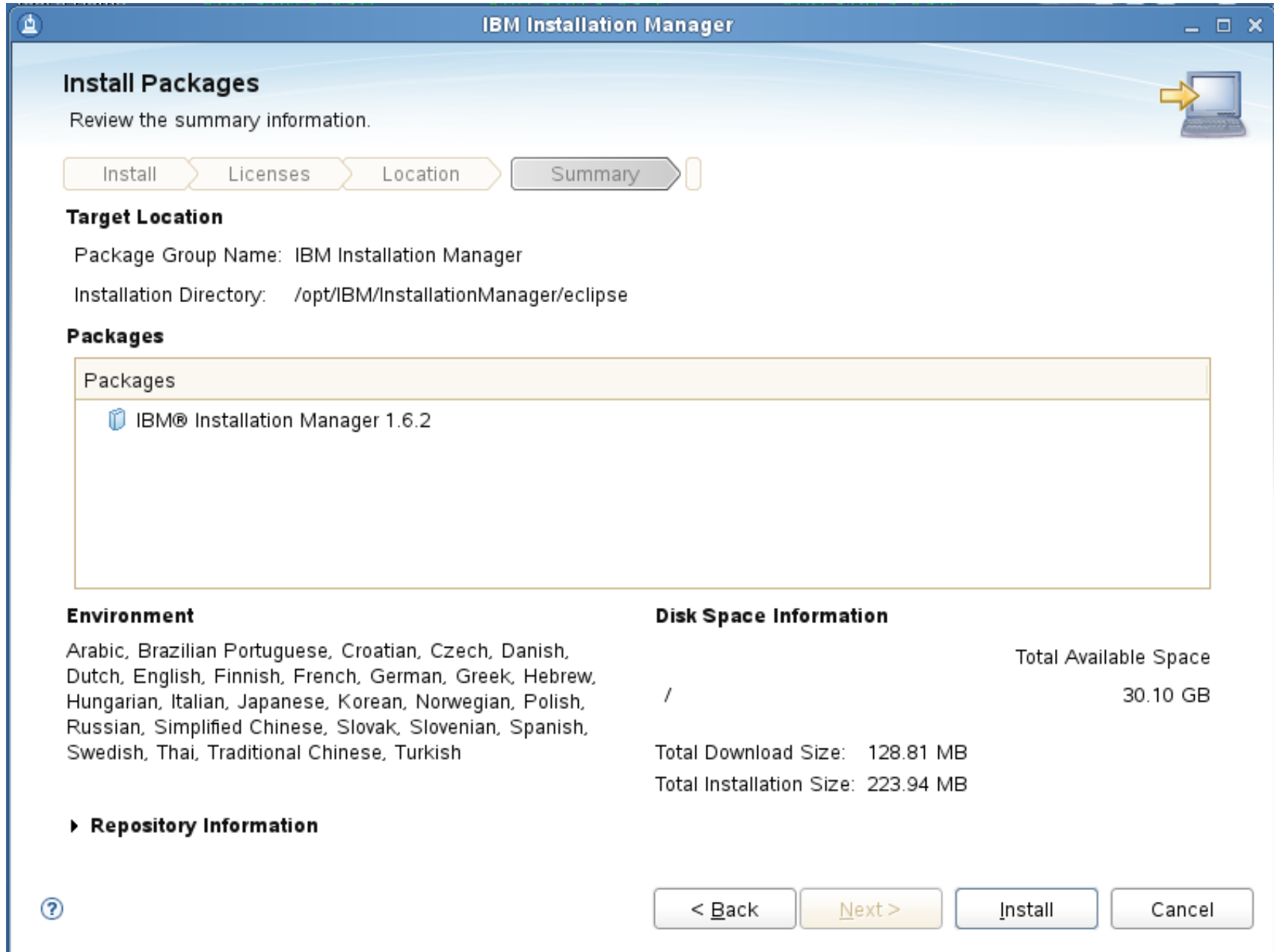
Once installed, IBM Installation Manager will be used to install, update, modify, manage and uninstall your packages.

Installation Manager Directory:

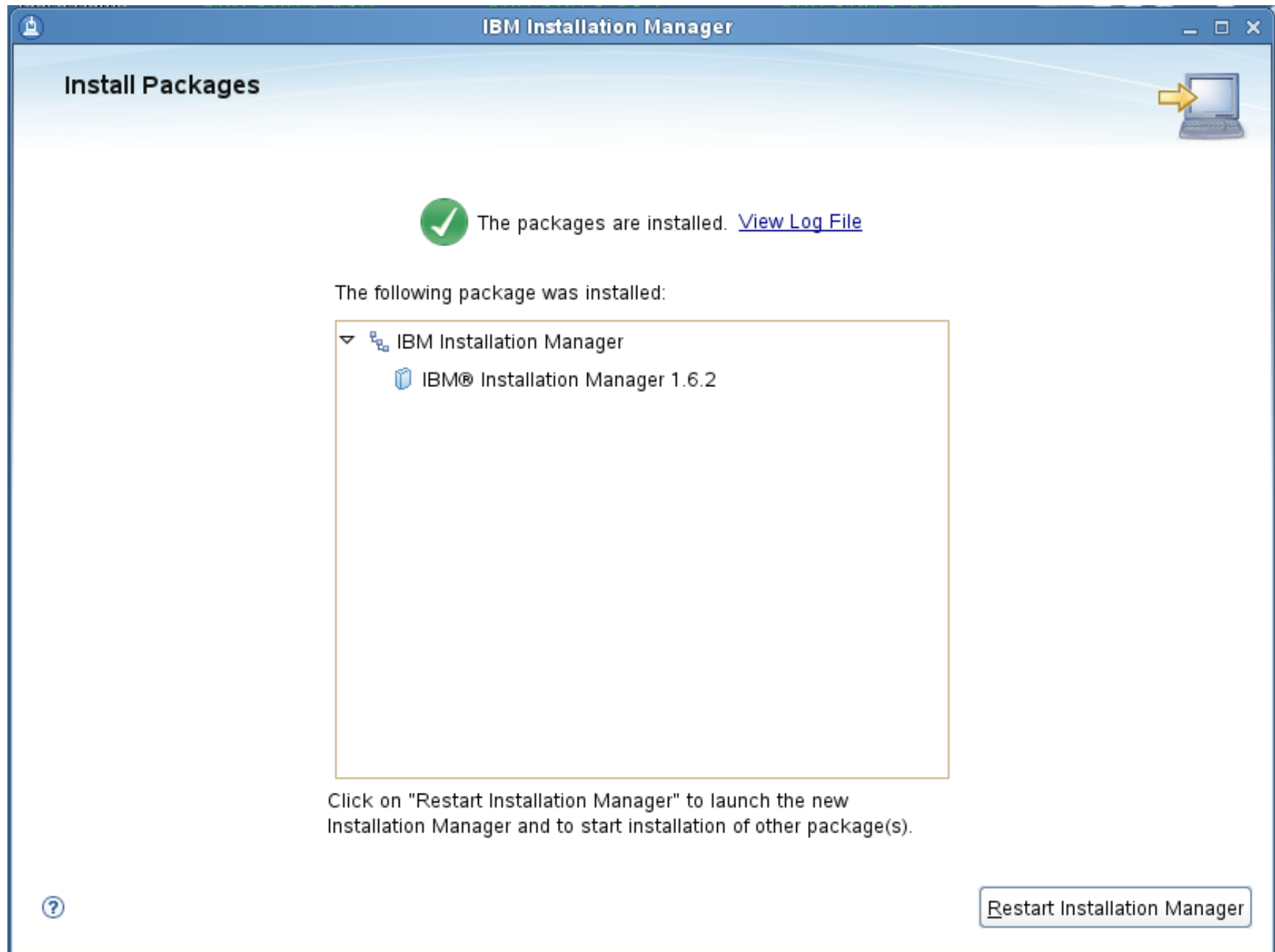
Disk Space Information

Volume	Available Space
/	30.87 GB

Install IBM Installation Manager (5 of 6)



Install IBM Installation Manager (6 of 6)





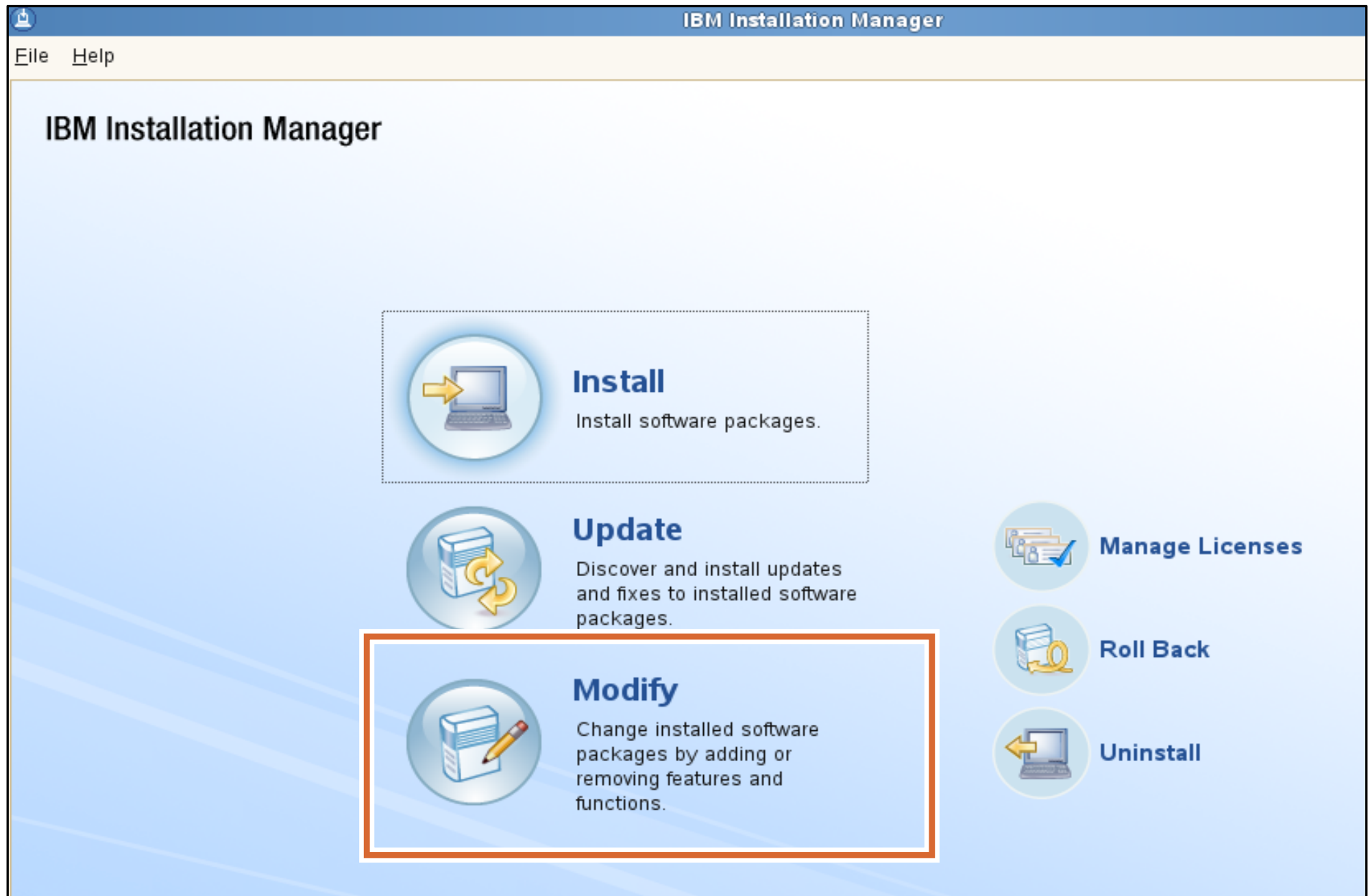
Install IBM Installation Manager silently

- Silently installing IBM Installation Manager methods
 - Open a command prompt to the directory where you extracted the compressed file
 - Windows: `installc.exe -acceptLicense`
 - UNIX: `./installc -acceptLicense`

IBM Installation Manager: Modify



Modify (add or remove)



Modify (add or remove) features (1 of 5)

IBM Installation Manager

Modify Packages

Select a package group to modify.

Package Group Name	Directory
IBM HTTP Server V8.5	/opt/IBM/HTTPServer
IBM WebSphere Application Server V8.5	/opt/IBM/WebSphere/AppServer
Web Server Plug-ins for IBM WebSphere Application Server V8	/opt/IBM/WebSphere/Plugins
WebSphere Customization Toolbox V8.5	/opt/IBM/WebSphere/Toolbox

Details

IBM WebSphere Application Server V8.5

- Shared Resources Directory: /opt/IBM/IMShared
- Installation Directory: /opt/IBM/WebSphere/AppServer
- Eclipse IDE: /opt/IBM/WebSphere/AppServer
- Translations: English

Installed Packages and Fixes

- IBM WebSphere Application Server Network Deployment 8.5.5.0

?

< Back


Next >

Modify

Cancel



Modify (add or remove) features (2 of 5)

 IBM Installation Manager — □ ×

Modify Packages

Select the translations to install.

Modify Features Summary


Translations

<input checked="" type="checkbox"/> <u>E</u> nglish	<input type="checkbox"/> Brazilian P <u>o</u> rtuguese	<input type="checkbox"/> C <u>z</u> ech	<input type="checkbox"/> <u>F</u> rench	<input type="checkbox"/> <u>G</u> erman
<input type="checkbox"/> <u>H</u> ungarian	<input type="checkbox"/> <u>I</u> talian	<input type="checkbox"/> <u>J</u> apanese	<input type="checkbox"/> <u>K</u> orean	<input type="checkbox"/> P <u>o</u> lish
<input type="checkbox"/> R <u>o</u> manian	<input type="checkbox"/> R <u>u</u> ssian	<input type="checkbox"/> S <u>i</u> mplified Chinese	<input type="checkbox"/> S <u>p</u> anish	<input type="checkbox"/> T <u>r</u> aditional <u>C</u> hinese

Modify (add or remove) features (3 of 5)




Modify Packages

Select the features to install or clear the features to remove.




Modify
Features
Summary

Features

- ☒

IBM WebSphere Application Server Network Deployment 8.5.5.0
 - ☒

WebSphere Application Server Full Profile
 - ☒
EJBDeploy tool for pre-EJB 3.0 modules
 - ☒

Stand-alone thin clients, resource adapters and embeddable containers
 - ☒
Stand-alone thin clients and resource adapters
 - ☒
Embeddable EJB container
 - ☒
Sample applications

☐ Show dependencies


Expand All
Collapse All
Restore


- Selected by Installation Manager because of dependencies

Details

Sample applications

The Samples include both source code files and integrated enterprise applications that demonstrate some of the latest Java (TM) Platform, Enterprise Edition (Java EE) and WebSphere technologies. The samples are recommended for installation to learning and demonstration environments, such as development environments. However, they are not



Modify (add or remove) features (4 of 5)

Modify Packages

Review the summary information.

Modify

Features

Summary

Target Location

Package Group Name: IBM WebSphere Application Server V8.5

Installation Directory: /opt/IBM/WebSphere/AppServer

Shared Resources Directory: /opt/IBM/IMShared

Features

Adding Feature

- IBM WebSphere Application Server Network Deploym
 - WebSphere Application Server Full Profile
 - Sample applications

Removing Feature

Environment

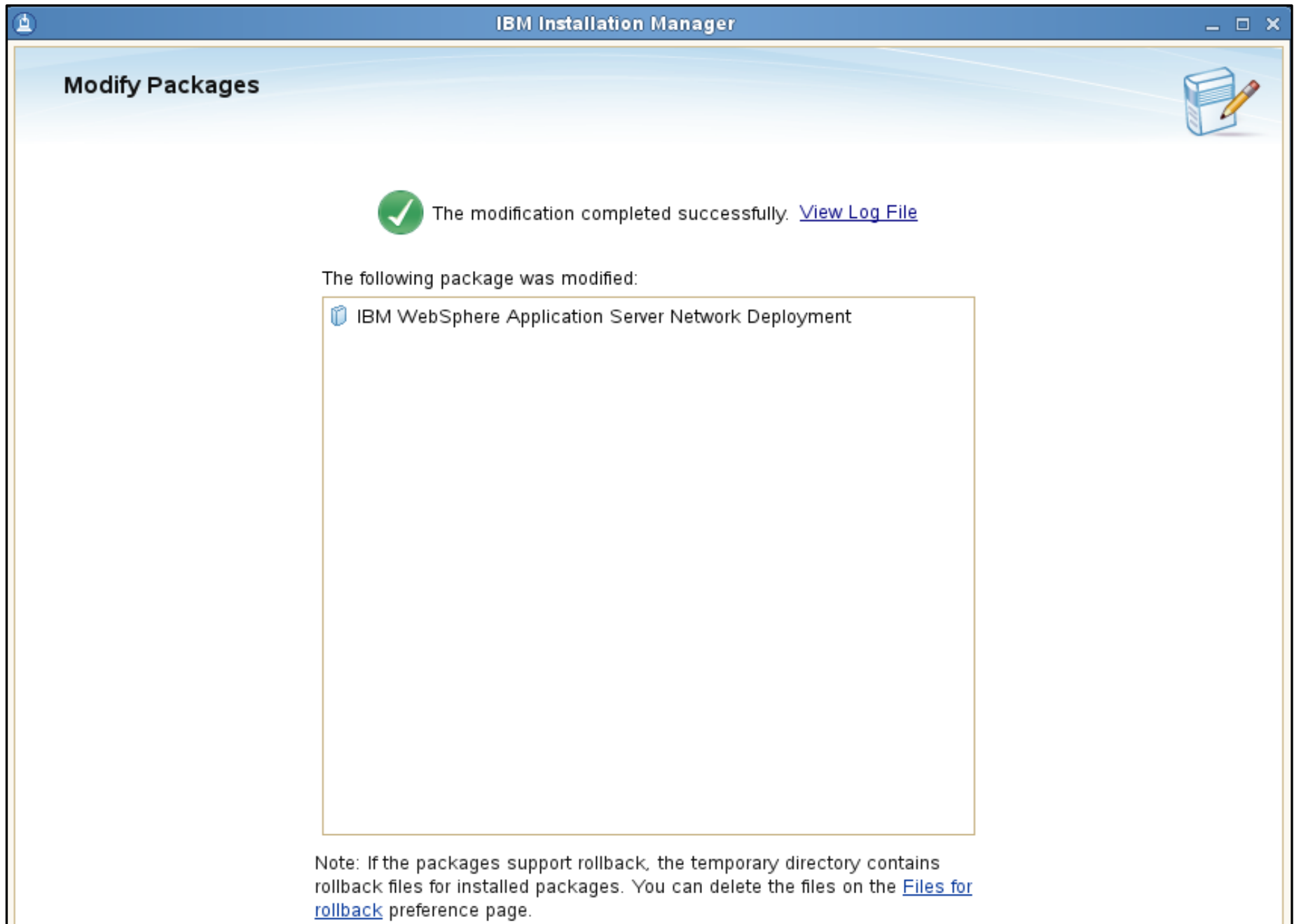
English

Disk Space Information

	Total Available Space
/	23.38 GB
Total Download Size: 9.59 MB	
Total Installation Size: 20.91 MB	

► Repository Information

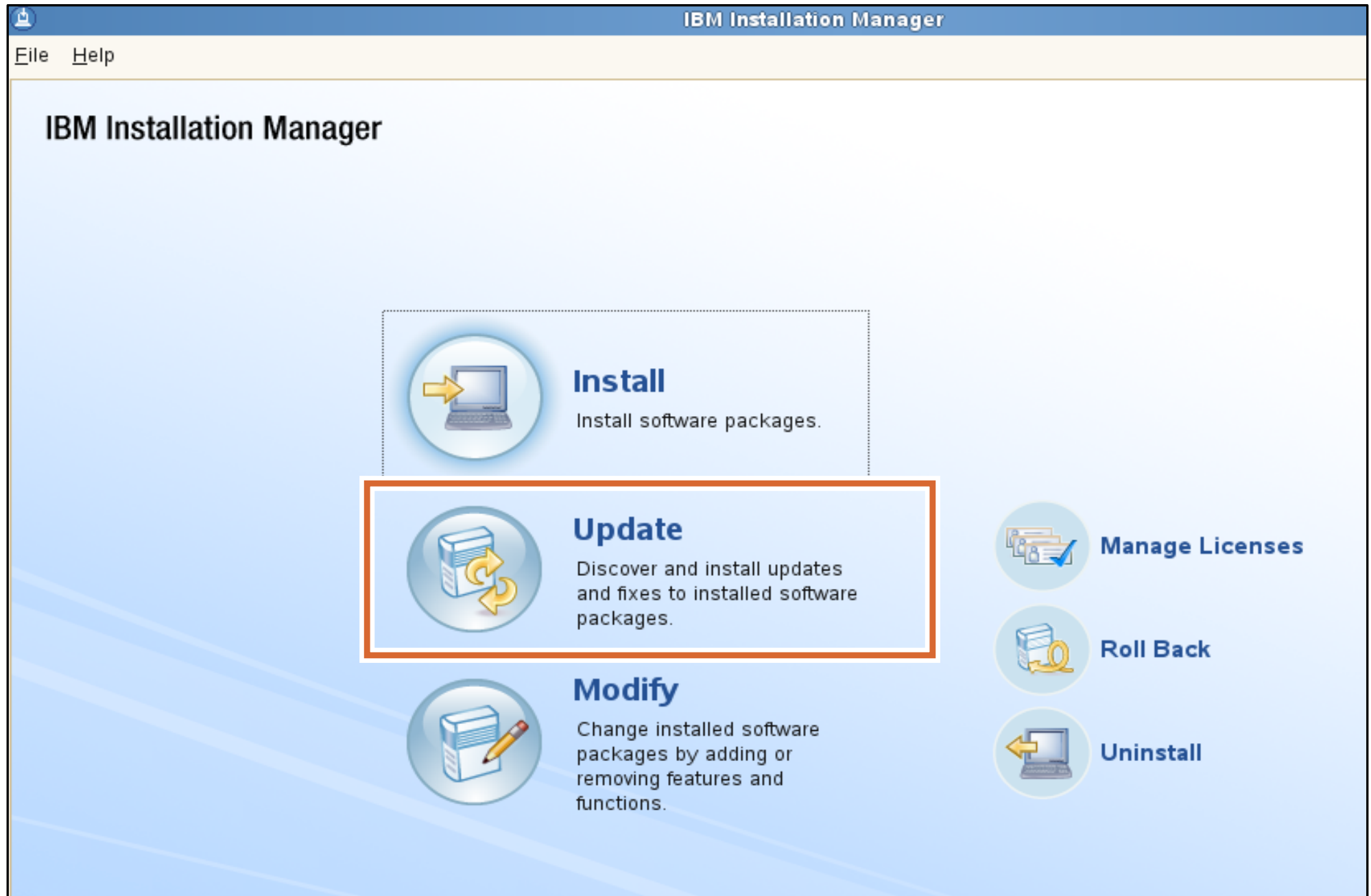
Modify (add or remove) features (5 of 5)



IBM Installation Manager: Update



Update



Updating the software silently

- Can silently update packages that are installed by using the IBM Installation Manager
 - On Windows, enter the command:
`<IM_install_root>\tools\ibmcl -launcher.ini silent-install.ini -updateAll -log <log_path_and_name>`
 - On UNIX, enter the command:
`<IM_install_root>/tools/ibmcl -launcher.ini silent-install.ini -updateAll -log <log_path_and_name>`
- Requires Internet connectivity
 - Modify repository preferences point to a local repository
- Cannot use the IBM Installation Manager to install updates on the underlying WebSphere Application Server Network Deployment installation
 - Must install updates by using the IBM Update Assistant and then reimport the installation into the IBM Installation Manager
 - Only required for fix pack updates, not interim fixes

IBM Packaging Utility



IBM Packaging Utility (1 of 2)

- A packaging tool that creates and manages software repository content in the correct format for IBM Installation Manager
 - WebSphere Application Server V8.5.5 depends on the IBM Packaging Utility 1.6.2
- Allow you to manage repository content by using CD images, PPA compressed files, IBM hosted repositories, and custom repositories
- The packaging utility can:
 - Create a repository
 - Copy multiples packages into a single repository
 - Copy multiple versions of a product to a repository
 - Copy packages from Passport Advantage to a local repository
 - Delete packages
 - Add fixes to a repository

IBM Packaging Utility (2 of 2)

- After installation of the IBM Packaging Utility, it includes
 - A GUI interface
 - The **PUCL** command-line interface
- Includes the **-platform** option that can copy repository files for specific platform.
 - Saves disk space and network bandwidth by copying only the files you need
 - Example: **-platform os=os,arch=arch**
- Example: create a repository for installation on Linux
 - **PUCL.exe copy com.ibm.Websphere.ND.v80_8.5.0.20120222_0247 -repositories http://ibm.com/repository/package -target "/IBM/IBMPackages/" -platform os=linux,arch=ppc -acceptLicense**

Technical preview

- IBM Packaging Utility V1.6.2 includes the `-updateFromVersion` technical preview
 - Creates a repository that contains the files for updating from the specified version to another version
 - Copies only the files that are required to update to a later version
 - Only available for the `PUCL` command-line interface
 - Works only with packages and does not work with fixes
- Example for a repository update on Linux
 - `PUCL.exe copy com.ibm.package.1.2 -updateFromVersion 1.1 -repositories http://ibm.com/repository/package -target "/IBM/IBMPackages/"`
- For complete details, visit: <http://www.ibm.com/support/docview.wss?uid=swg27023960>

Uninstall IBM Installation Manager



Uninstalling the IBM Installation Manager

- Before you uninstall IBM Installation Manager, you must uninstall all the packages that the IBM Installation Manager installed
 - Close Installation Manager before starting the uninstall process
- To uninstall IBM Installation Manager:
 - On Windows, use **Control Panel > Add or Remove Programs**
 - On UNIX, use the uninstall IBM Installation Manager icon
 - By using the `/var/ibm/InstallationManager/uninstall/uninstall` command

Unit summary

Having completed this unit, you should be able to:

- Define the IBM Installation Manager
- Describe the IBM Installation Manager wizards
- Describe the IBM Packaging Utility
- Uninstall the IBM Installation Manager

Checkpoint questions

1. (True or False) You can have multiple versions of the IBM Installation Manager installed on a workstation.
2. (True or False) To uninstall the IBM Installation Manager, you must uninstall all packages that the Installation Manager installed.
3. (True or False) The IBM Packaging Utility allows you to create a repository and copy multiple packages into a single repository. However, you cannot copy multiple versions of a product into a repository.

Checkpoint answers

1. False: You can have only one version of the IBM Installation Manager installed on a workstation.
2. True. To uninstall the IBM Installation Manager, you must uninstall all packages that the Installation Manager installed.
3. False. The IBM Packaging Utility allows you to create a repository, copy multiple packages into a single repository, and copy multiple versions of a product into a repository.