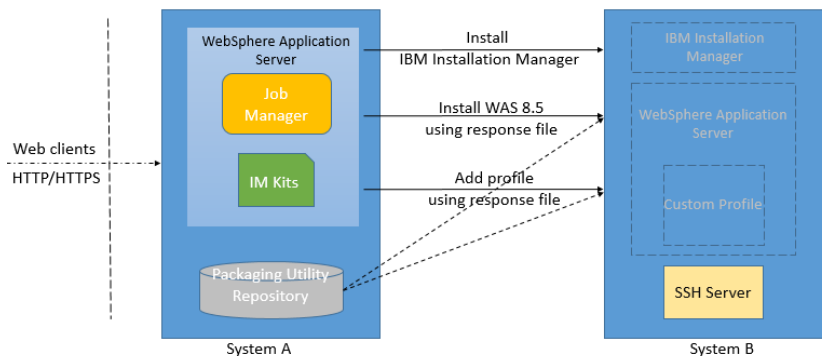


## CHAPTER 6: CENTRALIZED INSTALLATION MANAGER

### Theory

Centralized Installation Manager (CIM) was first introduced in WebSphere Virtual Enterprise version 6.1 and WebSphere Application Server version 7. CIM can be accessed from the deployment manager. You can use CIM to install WebSphere Application Server and apply maintenance

From WebSphere Application Server version 8, CIM is integrated in to the Job Manager. CIM can drive IBM Installation Manager remotely to perform install, update or modify operations.



You can install following products using CIM:

- IBM Installation Manager
- WebSphere Application Server
- IBM HTTP Server
- Application Clients
- DMZ Security Proxy Server
- WebSphere Web server Plug-ins
- WebSphere Customization Toolbox

You can submit the following CIM jobs from the Jobs manager:

- Inventory, you can use this collect information for installation.
- Install, update and uninstall Installation Manager.
- Manage offerings, you can use this job to install, update or uninstall the products listed above.
- Manage profiles, you can use this job to create, augment and remove profiles using the response files.

- Run command, you can use this to run any command on the target host operating system.
- Install SSH public key, you can use this job to install SSH public key in order to use SSH public/private key authentication instead of using administrative user name and password.
- Distribute, collect and delete file, you can use this job to run scripts remotely to gather files from there such as log files or configuration files.
- Test connection, you can use this job just to test the connection between the job manager and the remote host.
- Add or search Installation Manager agent data location, you can use this job to add or search location of the Installation Manager that is not using the default location.

IBM Packaging Utility is a software that allows you to create your own repository. That saves you to distribute installation files to each server and also decreases the load between servers.

For the following tasks, you can use IBM Packaging Utility:

- Generate a new network repository to be used in your local network.
- You can copy multiple packages to one repository.
- You can copy multiple version of the same product to one repository to be used to update products.
- You can save disk space to have all packages to store in one and only place.
- You can enable your repository to be accessible thru HTTP, HTTPS, and FTP or file sharing.

## AIM

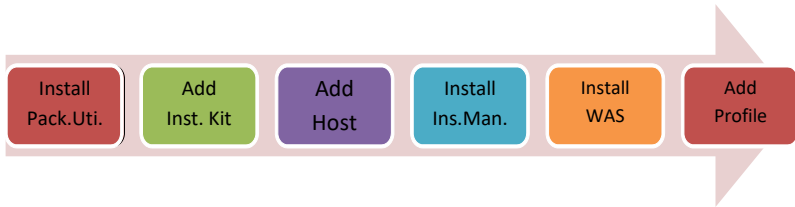
In this lab exercise, you will be able to install WebSphere Application Server and create a profile on a remote host using Centralized Installation Manager which is integrated to Job Manager. Also you will install and configure your own network repository using IBM Packaging Utility and make it available through FTP.

In order to achieve these, you need to complete following task:

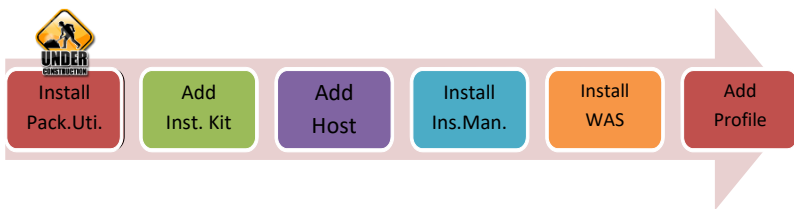
- Install and Configure IBM Packaging Utility
- Add Installation Manager Installation kits
- Register a remote host
- Install IBM Installation Manager on remote host
- Install WebSphere Application Server on remote host
- Define a profile on remote host

## Lab Exercise 6: CENTRALIZED INSTALLATION MANAGER

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- 
- 1. Install and Configure IBM Packaging Utility**
  - 2. Add Installation Manager Installation kits**
  - 3. Register a remote host**
  - 4. Install IBM Installation Manager on remote host**
  - 5. Install WebSphere Application Server on remote host**
  - 6. Define a profile on remote host**

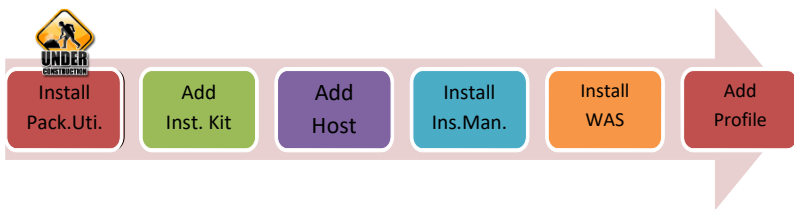


## Task 1: Install and Configure IBM Packaging Utility

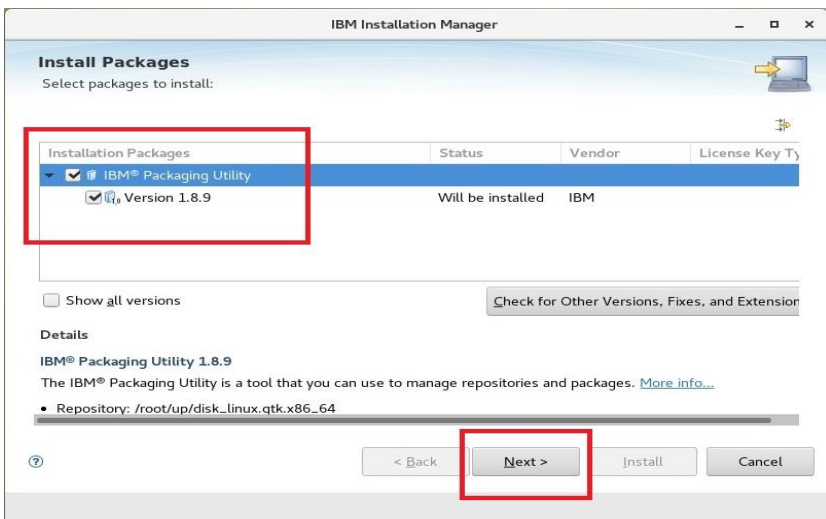
You can skip this unless you need to install multiple WAS instances to multiple hosts. This step saves efforts on delivering files to target hosts.

**Step 1:** Change directory to “disk\_linux.gtk.x86\_64/InstallerImage\_linux.gtk.x86\_64” of the unzipped package of Packaging Utility and then run “install”.

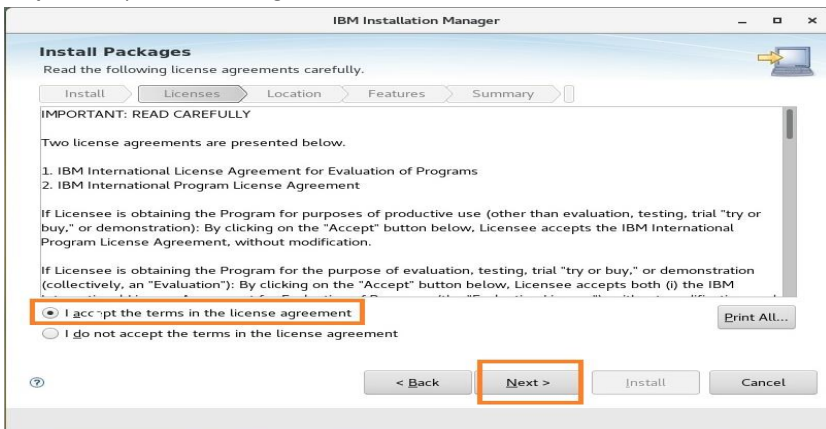
```
disk_linux.gtk.x86_64 up15
[root@wasv90 up]# cd disk_linux.gtk.x86_64/
[root@wasv90 disk_linux.gtk.x86_64]# ls
ad diskTag.inf InstallerImage_linux.gtk.x86_64 license md toc
[root@wasv90 disk_linux.gtk.x86_64]# cd InstallerImage_linux.gtk.x86_64/
[root@wasv90 InstallerImage_linux.gtk.x86_64]# ls
con-disk-set-inst.sh  installc.ini          repository.config
configuration        install.ini           repository.xml
documentation        install.xml           silent-install.ini
groupinst            jre_7.0.100020.20180227_1440 tools
groupinstc           license              userinst
groupinstc.ini       native              userinstc
groupinst.ini        Offerings            userinstc.ini
install              plugins              userinst.ini
installc             readme.html          user-silent-install.ini
[root@wasv90 InstallerImage_linux.gtk.x86_64]# ./install
```

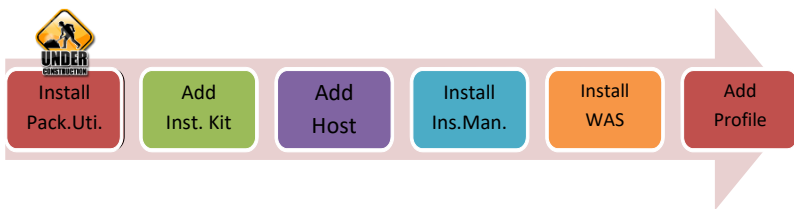


**Step 2:** Self containing IBM Installation Manager will run. Select the packages and then click “Next”.

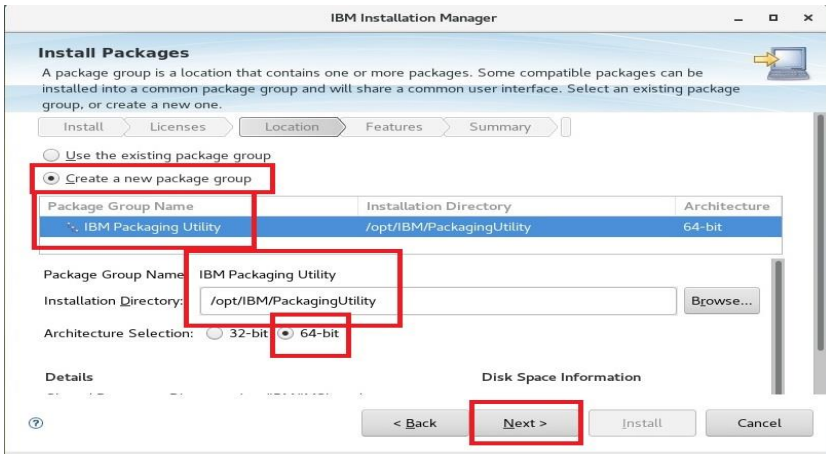


**Step 3:** Accept the license agreement and click “Next”.

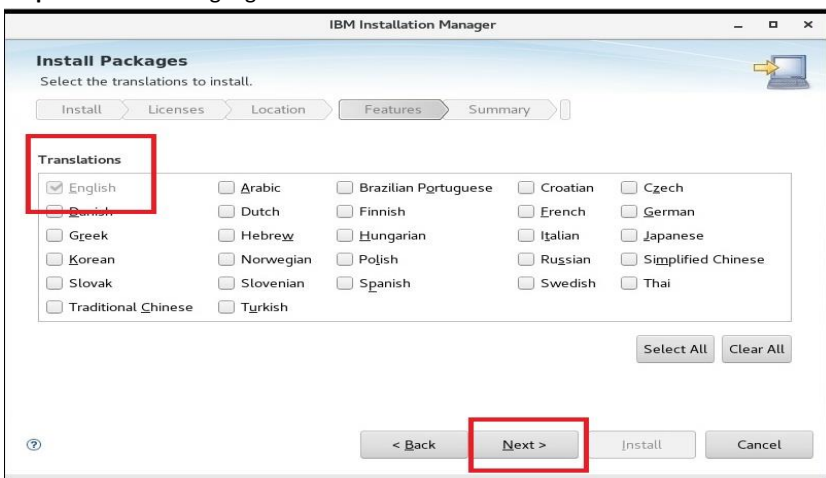


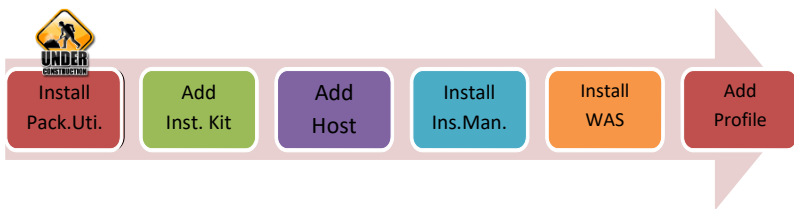


**Step 4:** Use the default installation directory and click “Next”.

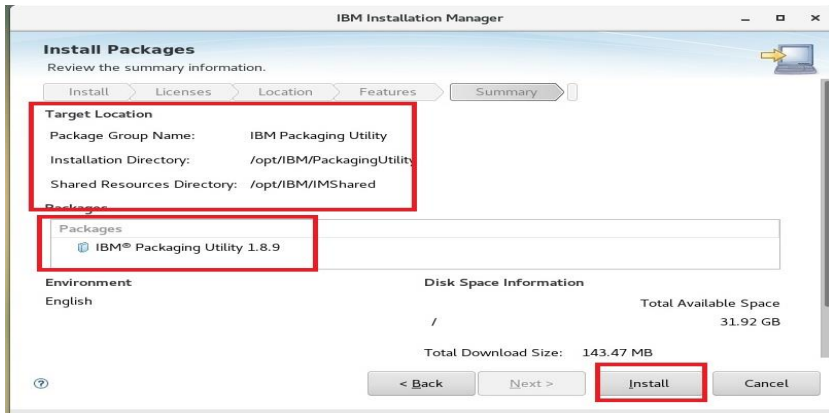


**Step 5:** Select the languages and then click “Next”.

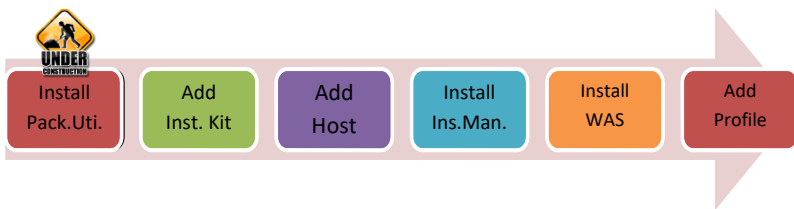




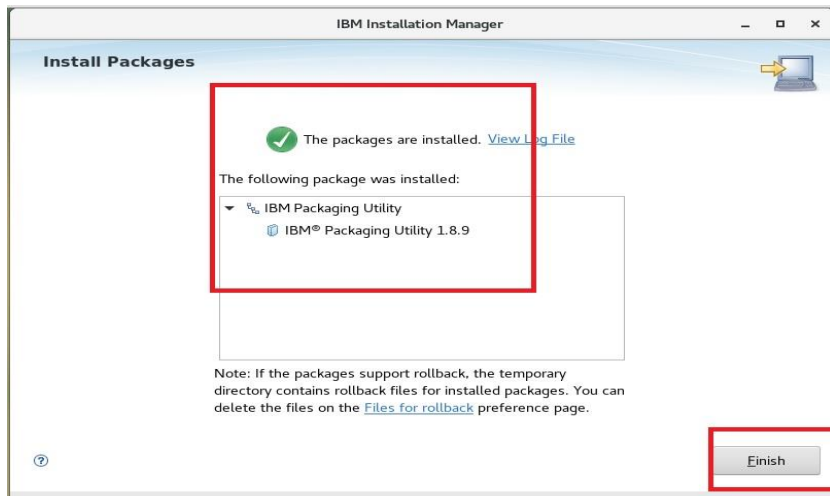
**Step 6:** Review the installation summary and click “Install”.

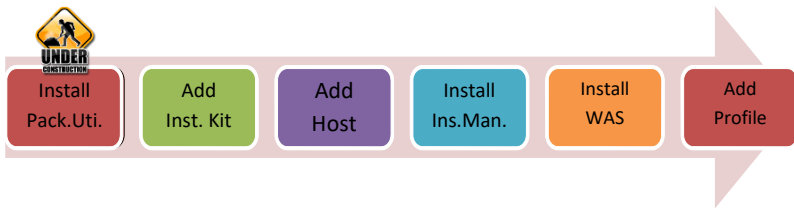






**Step 7:** Installation is complete, click “Finish” to end the installer.





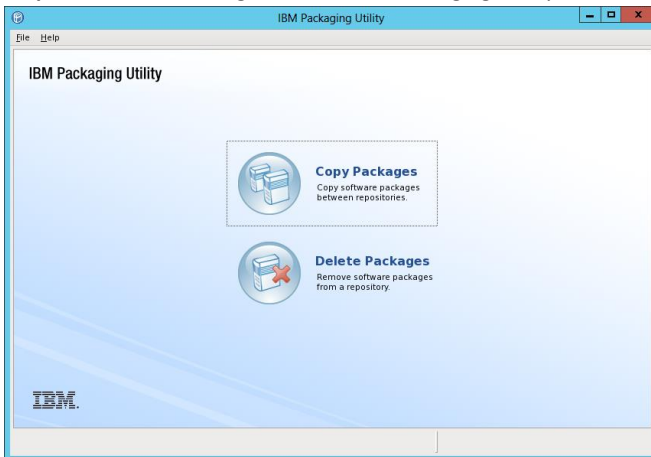
**Step 8:** Change directory to “/opt/IBM/PackagingUtility/” and then run “IBMPU”.

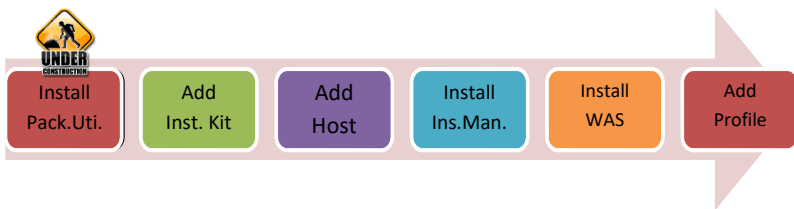
```

root@wasv90:/opt/IBM/PackagingUtility
File Edit View Search Terminal Help
[root@wasv90 InstallerImage linux.gtk.x86_64]# ls
con-disk-set-inst.sh  installc.ini      repository.config
configuration         install.ini       repository.xml
documentation        install.xml       silent-install.ini
groupinst            jre 7.0.100020.20180227_1440  tools
groupinstc           license          userinst
groupinstc.ini       native          userinstc
groupinst.ini        Offerings        userinstc.ini
install              plugins          userinst.ini
installc             readme.html     user-silent-install.ini
[root@wasv90 InstallerImage linux.gtk.x86_64]# ./install
00:06:99 ERROR [main] com.ibm.cic.agent.internal.ui.AgentUI reportStatus
CRIMA1130E The Installation Manager could not be started because another Installation Manager instance is already running. Only a single Installation Manager can run at any time.
CRIMC1066E: Unable to acquire lock on file '/var/ibm/InstallationManager/.imlock'
[root@wasv90 InstallerImage linux.gtk.x86_64]# cd /opt/IBM/PackagingUtility/
[root@wasv90 PackagingUtility]# ls
about_files  features  jre  pu
about.html   IBMPU.ini  libcairo-swt.so  PUCL
configuration  IBMPU.ini  plugins  PUCL.ini
eclipse 1502.so  icon.xpm  properties  startup.jar
[root@wasv90 PackagingUtility]# ./IBMPU

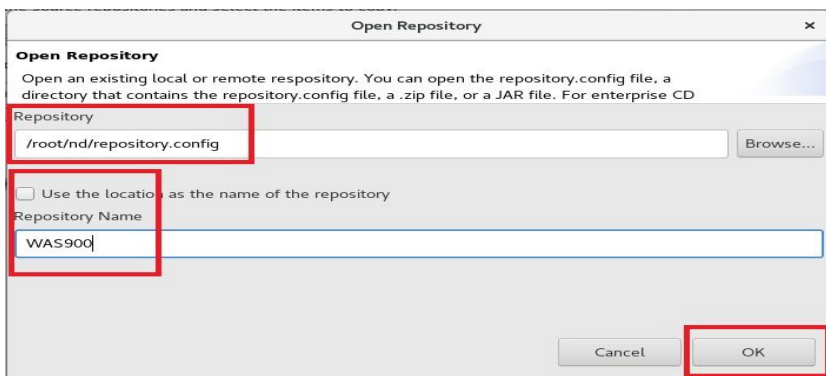
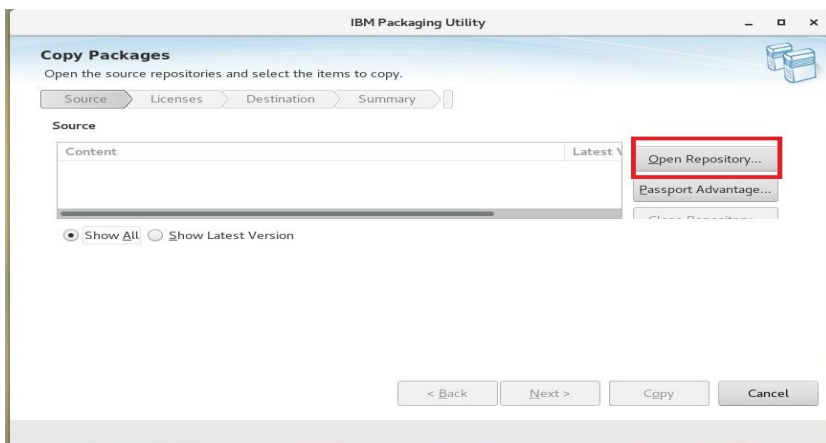
```

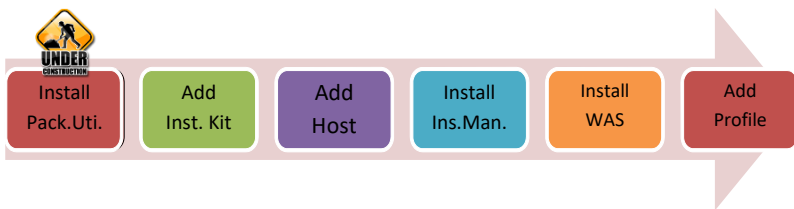
**Step 9:** It will start configuration of IBM Packaging Utility. Click on “Copy Packages”.



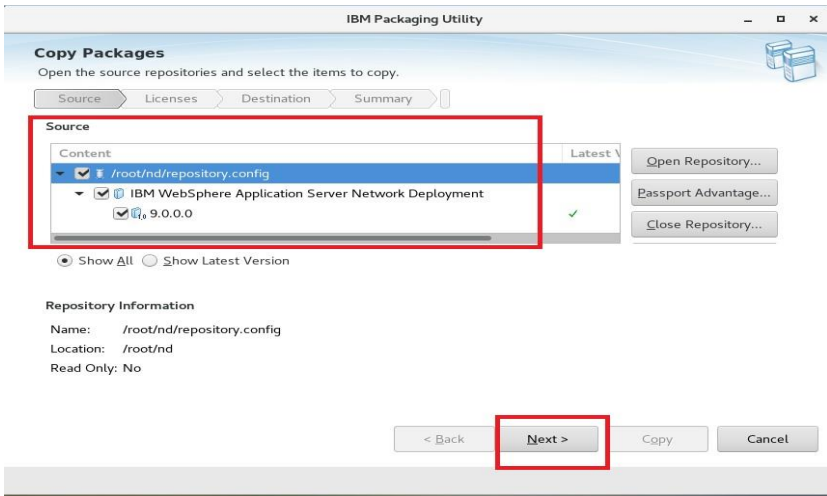


**Step 10:** Click on “Open Repository” and in the new window, browse the installation files in the local repository and specify a name for it.

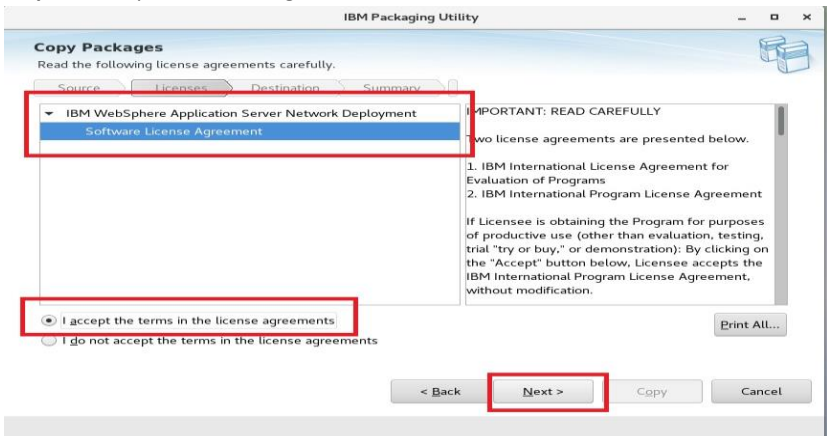


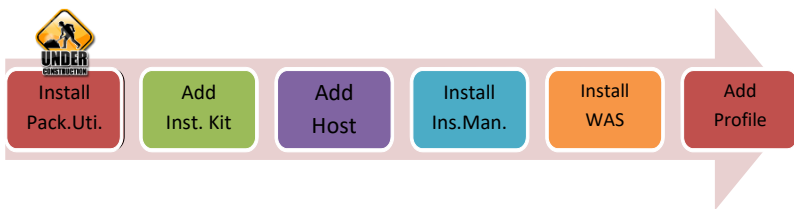


**Step 11:** Select the packages and then click on “Next”.



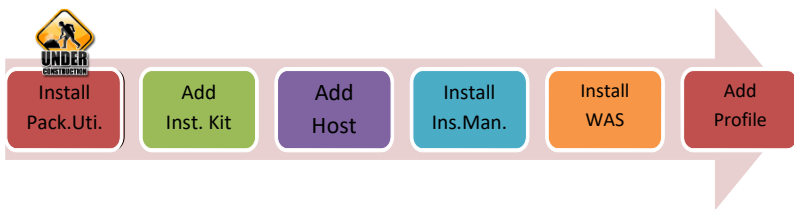
**Step 12:** Accept the license agreement and then click on “Next”.



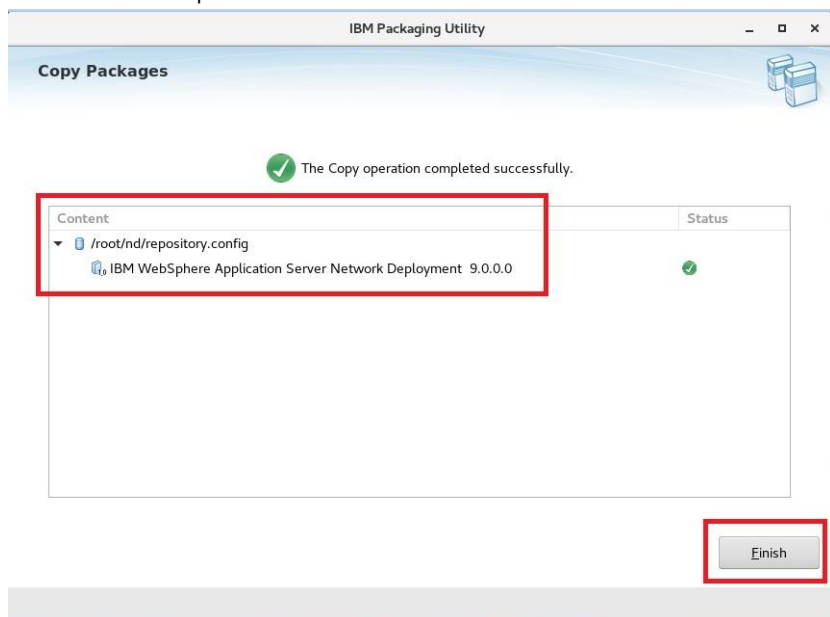


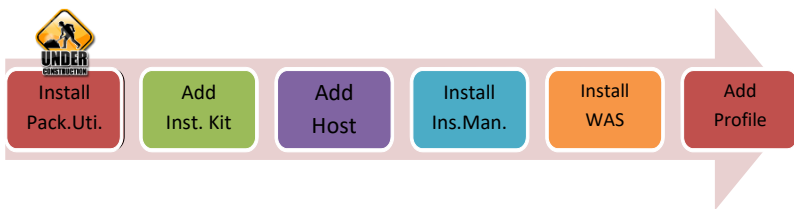
**Step 13:** Define a local folder where you will host the repositories and click “Next”.

**Step 14:** Click “Copy” to start creation of the repository.



**Step 15:** Click “Finish” to complete configuration of IBM Packaging Utility. Now, we need to make our repository available to machine in our network. For that we will use FTP as an example.



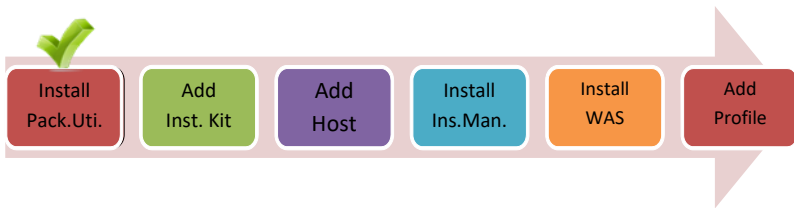


**Step 16:** If you don't have installed FTP server you can install by "yum install vsftpd". We will configure our repository folder to be reached without authentication. Open "/etc/vsftpd/vsftpd.conf" file for editing.

```
root@wasv90:~  
File Edit View Search Terminal Help  
[root@wasv90 /]#  
[root@wasv90 /]#  
[root@wasv90 /]#  
[root@wasv90 /]# vi /etc/vsftpd/vsftpd.conf
```

**Step 17:** Add a new line "anon\_root=/opt/IBM/repo" pointing out local repository and then save and exit the file.

```
root@wasv90:~  
File Edit View Search Terminal Help  
# When SELinux is enforcing check for SE bool ftp_home_dir  
local_enable=YES  
# Uncomment this to enable any form of FTP write command.  
write_enable=YES  
anon_root=/opt/IBM/repo  
#  
# Default umask for local users is 077. You may wish to change this to 022,  
# if your users expect that (022 is used by most other ftpd's)  
local_umask=022  
#  
# Uncomment this to allow the anonymous FTP user to upload files. This only  
# has an effect if the above global write enable is activated. Also, you will  
# obviously need to create a directory writable by the FTP user.  
# When SELinux is enforcing check for SE bool allow_ftpd_anon_write, allow_ftpd_full_access  
#anon_upload_enable=YES  
#  
# Uncomment this if you want the anonymous FTP user to be able to create  
# new directories.  
#anon_mkdir_write_enable=YES  
#  
# Activate directory messages - messages given to remote users when they  
# go into a certain directory.  
dirmessage_enable=YES  
#
```

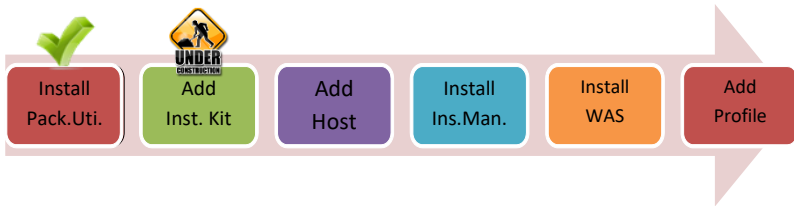


**Step 18:** Restart the FTP server using the command “/etc/init.d/vsftpd restart”.

```
root@wasv90:~  
File Edit View Search Terminal Help  
boot etc lib media opt root/sbin sys usr  
[root@wasv90 /]# cd root  
[root@wasv90 ~]#  
[root@wasv90 ~]#  
[root@wasv90 ~]#  
[root@wasv90 ~]#  
[root@wasv90 ~]#  
[root@wasv90 ~]#  
[root@wasv90 ~]#  
[root@wasv90 ~]# vi /etc/vsftpd/vsftpd.conf  
[root@wasv90 ~]#  
[root@wasv90 ~]#  
[root@wasv90 ~]# /etc/init.d/vsftpd restart
```

**Task 1 is complete!**

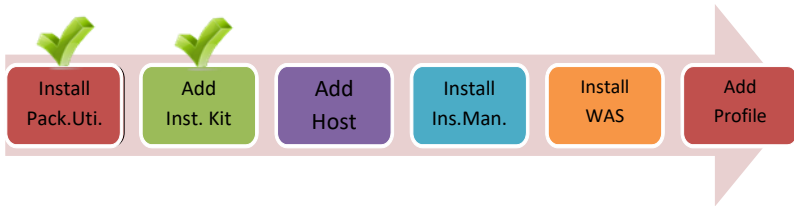




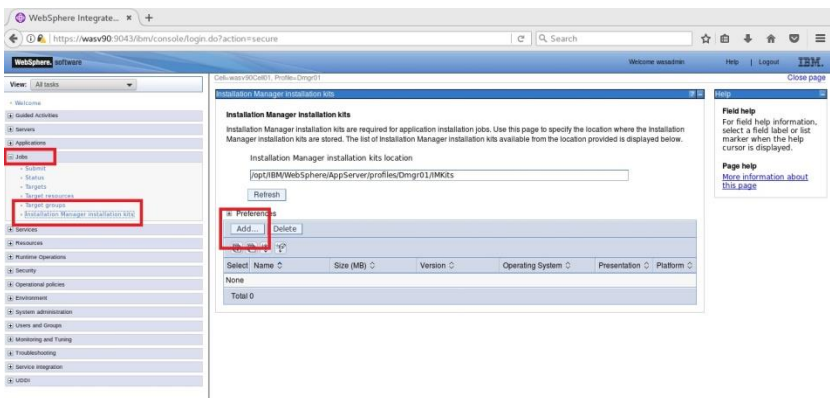
## Task 2: Add Installation Manager Installation kits

**Step 1:** Login to admin console and navigate to “Jobs>Installation Manager installation kits”. Click “Add” to add an installation kit.

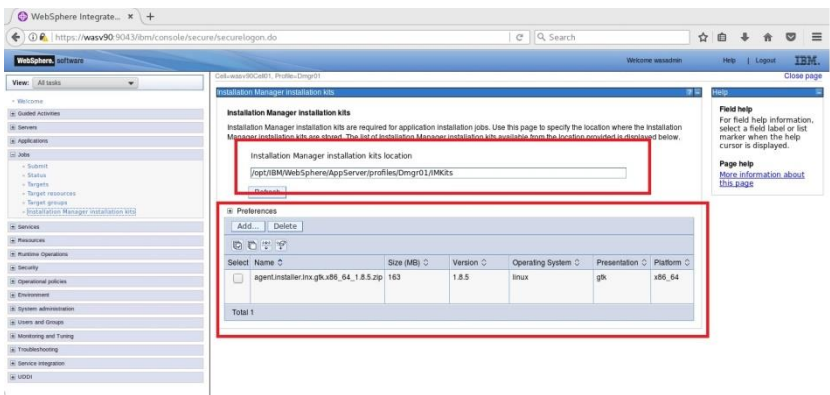
WebSphere Integration console interface showing the "Installation Manager installation kits" page. The left sidebar shows the navigation tree with "Installation Manager installation kits" selected. The main content area displays the "Installation Manager installation kits" section, including a text input field for the location (e.g., "jagtIBMWebSphereAppServer/profiles/Dmgr01/IMKits") and a "Refresh" button. Below this is a table for preferences, which is currently empty, showing "Total: 0".



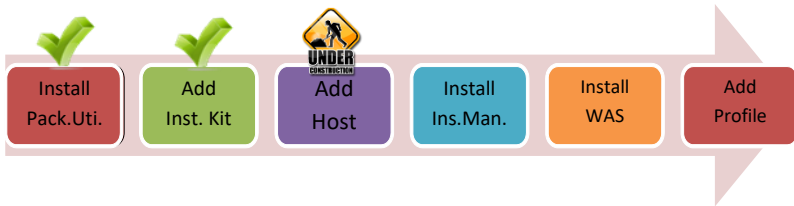
**Step 2:** Browse the zip file that contains installation files of IBM Installation Manager and then click “Add”.



You should see the installation kit listed as below.

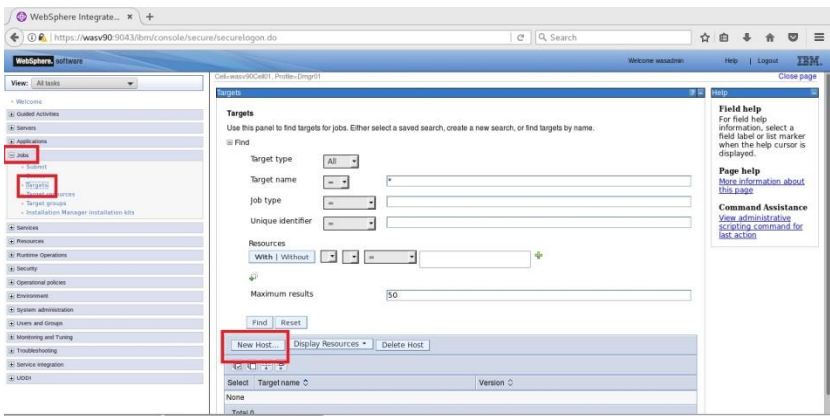


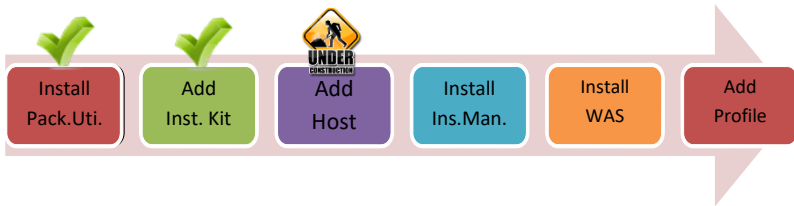
**Task 2 is complete!**



### Task 3: Register a remote host

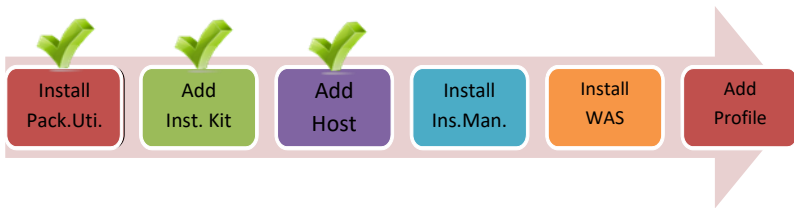
**Step 1:** Navigate to “Jobs>Targets” and then click on “New Host” to define a new target.



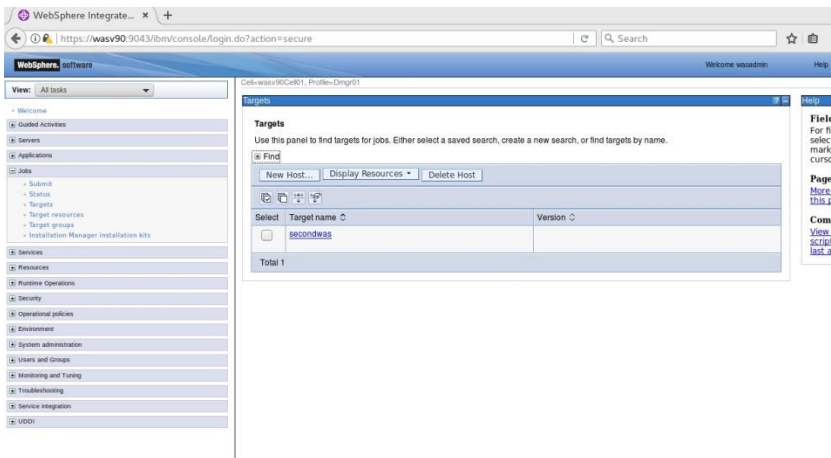


**Step 2:** Add the properties such as host name, operating system, administrative user and password and so on.

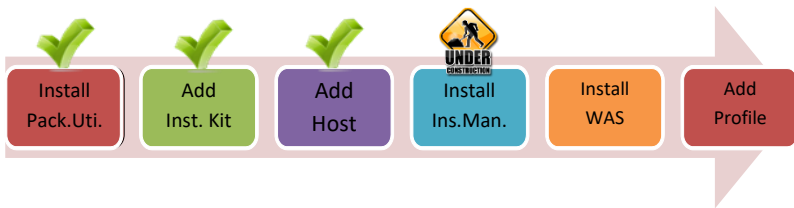
Scroll down and click “OK”.



**Step 3:** You should see the new target defined under “Targets”.

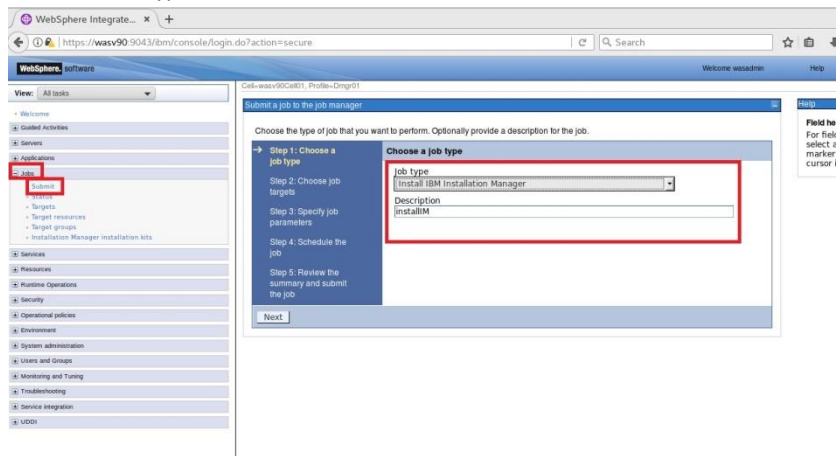


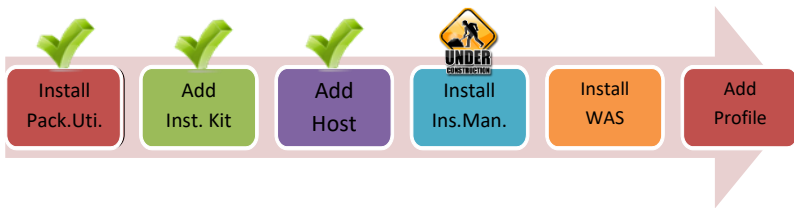
**Task 3 is complete!**



## Task 4: Install IBM Installation Manager on remote host

**Step 1:** Navigate to “Jobs>Submit” and choose “Install IBM Installation Manager” from the “Job type” list and click “Next”.





**Step 2:** Add target(s) to “Target names” and click “Add”. Then you need to add credentials for the administrative users for the defined targets.

WebSphere software

View: All tasks

- Home
- Guided Activities
- Services
- Applications
  - Jobs
    - Standalone
    - Status
    - Targets
    - Target resources
    - Target groups
    - Installation Manager installation kits
- Services
- Resources
- Runtime Operations
- Security
- Operational policies
- Environment
  - System administration
- Users and Groups
- Monitoring and Tuning
- Troubleshooting
- Service integration
- WSO2

information for the target is used. Otherwise, you can optionally provide authentication parameters. If a user name is not provided, then the current console user ID is used. When authentication parameters are entered, they are used for all targets and take precedence over the saved authentication associated with the host.

Choose job targets

Job type: Install IBM Installation Manager

Target groups: No groups

Target names: secondwas

Target authentication

User name: root

Password authentication

Password: \*\*\*\*\*

Confirm password: \*\*\*\*\*

Use sudo

Then scroll down and click “Next”.

WebSphere software

View: All tasks

Target authentication

User name: root

Password authentication

Password: \*\*\*\*\*

Confirm password: \*\*\*\*\*

Use sudo

Sudo user name:

Sudo password:

Confirm sudo password:

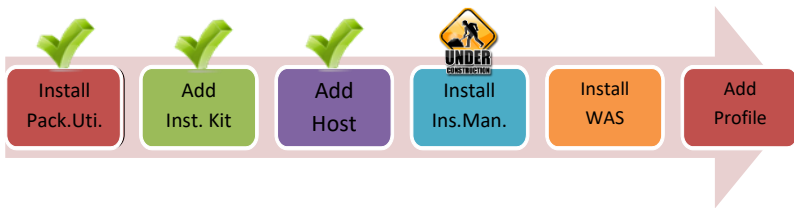
Public-private key authentication

File path to key store:

Passphrase:

Confirm passphrase:

Previous Next Cancel



**Step 3:** You need to specify the job parameters. Use following as an example:

**Path to Installation Manager kit:**

/opt/IBM/WebSphere/AppServer/profiles/Dmgr01/IMKits/agent.installer.linux.gtk.x86\_1.6.200  
0.20130301\_2248.zip

**Installation Manager agent data location:** /var/ibm/InstallationManager

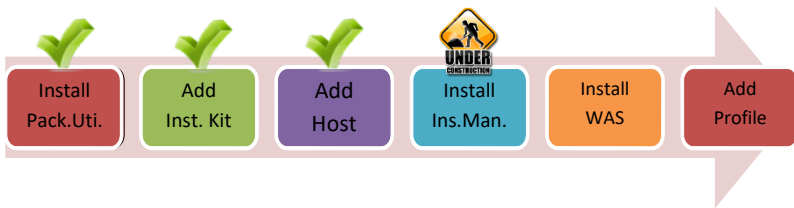
**Installation Manager installation dir:** /opt/IBM/InstallationManager

**Installation action:** "Install based on login credentials"

Select "I accept the terms in the license agreements" and then click "**Next**".

WebSphere Integration console screenshot showing the 'Specify job parameters' step for installing IBM Installation Manager. The 'Job type' is 'Install IBM Installation Manager'. The 'Installation Manager agent data location' is '/var/ibm/InstallationManager'. The 'Installation Manager installation directory' is '/opt/IBM/InstallationManager'. The 'Installation action' is 'Install based on login credentials'. The 'Skip prerequisite checking' checkbox is unchecked. The 'I accept the terms in the license agreements' checkbox is checked. The 'Next' button is highlighted with a red box.





**Step 4:** You don't need to change anything unless you want it to run at a later time then click "Next".

WebSphere Integrated Solutions Console - Mozilla Firefox

WebSphere Integrated Solutions Console

WebSphere Integrated Solutions Console

Step 1: Choose a job type

Step 2: Choose job target

Step 3: Specify job parameters

Step 4: Schedule the job

Step 5: Review the summary and submit the job

Job type: Install IBM Installation Manager

Notification

Email addresses

Initial Availability

Specify when this job is first available.

☒ Make the job available now

☐ Schedule availability

Date (MM/dd/yyyy) Time (HH:mm:ss)

Expire when this job is no longer available.

☒ Use default expiration - 1 days

☐ Expire the job based on a date

Date (MM/dd/yyyy) Time (HH:mm:ss)

☐ Expire the job based on a duration

Expire after minutes

Job Availability Interval

jobs can run repeatedly based on an interval. Specify the interval that the job is available

Availability interval

Run once

Previous Next Cancel

**Step 5:** Review the summary of the job and click "Finish".

WebSphere Integrated Solutions Console - Mozilla Firefox

WebSphere Integrated Solutions Console

WebSphere Integrated Solutions Console

Step 1: Choose a job type

Step 2: Choose job target

Step 3: Specify job parameters

Step 4: Schedule the job

Step 5: Review the summary and submit the job

Initial availability

Make the job available now.

Expiration

Use the default expiration.

User name

root

The path and file name of installation Manager kit

asp/IBM/WebSphere/AppServer/profiles/Orng01/IMKitAgent/installer-linux.gtk.x86\_1.6.2000.20110301\_2248.zip

Installation Manager kit

Installation Manager agent data location

/var/lib/InstallationManager

Installation Manager installation directory

/opt/IBM/InstallationManager/

Installation action

Install based on login credentials

Stop prerequisite checking

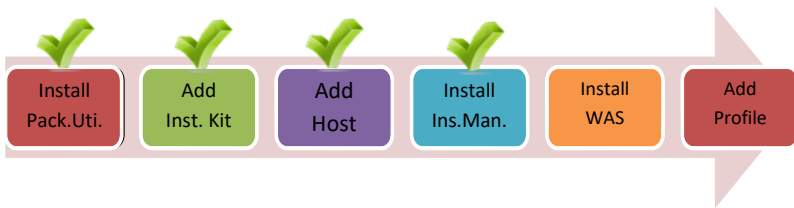
false

I accept the terms in the license agreements

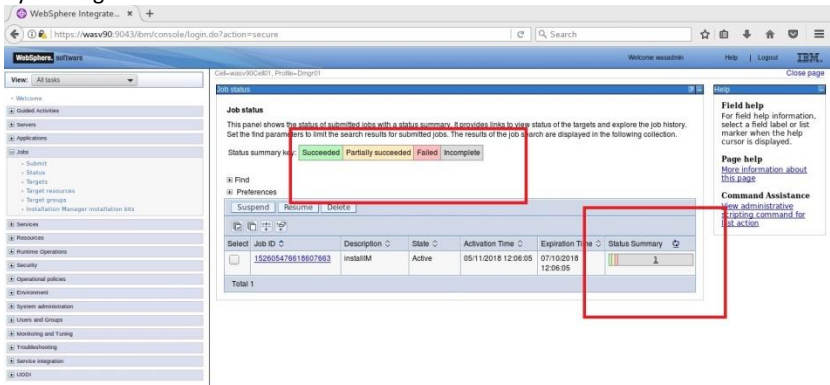
true

Previous Finish Cancel

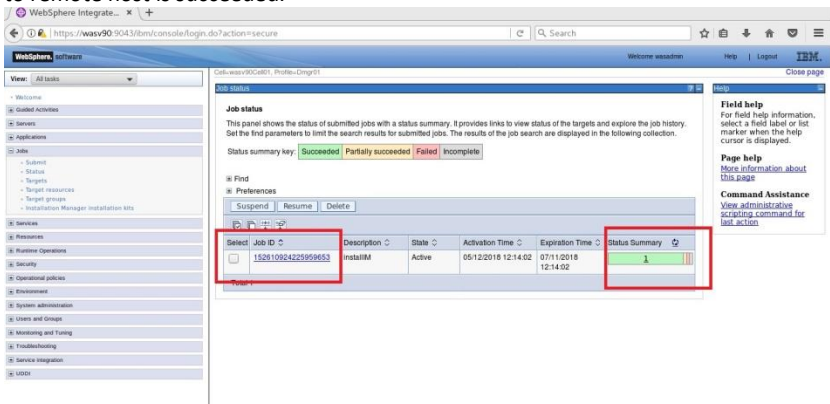
Field help  
For field help information, select field label or list when the help is displayed.  
Command Area  
View administration console  
last action



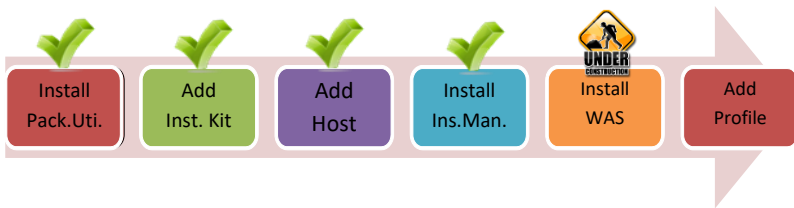
**Step 6:** You will see that the installation job is in progress. You can refresh the status by clicking on “Refresh” button.



If you see the status is green that means installation of IBM Installation Manager on to remote host is succeeded.



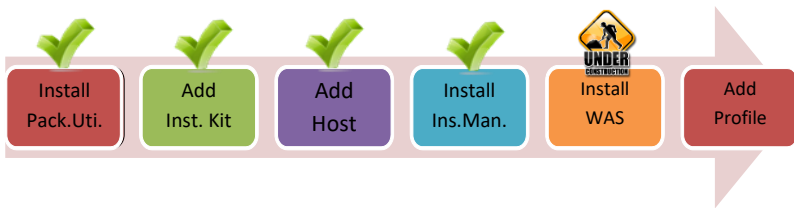
**Task 4 is complete!**



## Task 5: Install WebSphere Application Server on remote host

**Step 1:** Navigate to “Jobs>Submit”, select “Manage offerings” and click “Next”.

WebSphere Integration Developer console screenshot showing the 'Submit a job to this job manager' dialog. The 'Jobs' menu item is highlighted in the left sidebar. The 'Choose a job type' section shows 'Manage offerings' selected in the 'job type' dropdown, with 'Description' set to 'manageOfferings'. The 'Next' button is highlighted at the bottom of the dialog.



**Step 2:** Add the remote targets you want to install WebSphere Application Server with proper credentials and click “Next”.

WebSphere Integration console

Step 2: Choose job targets

Job type: Manage offerings

Target groups

Target names

secondwas

Target authentication

User name

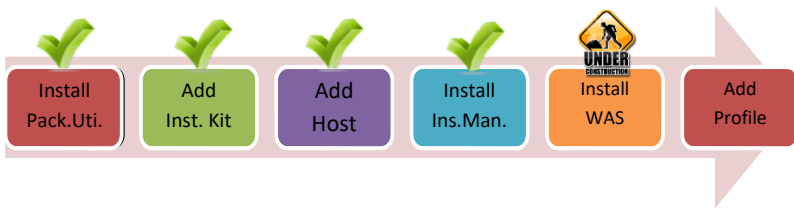
root

Password authentication

Password

Confirm password

Use sudo



**Step 3:** Create a response file to install WebSphere Application Server using the repository created in the first step. Here is a sample file:

```
<?xml version="1.0" encoding="UTF-8"?>
<!--The "acceptLicense" attribute has been deprecated. Use "-acceptLicense" command line option to accept
license agreements.-->
<agent-input acceptLicense='true'>

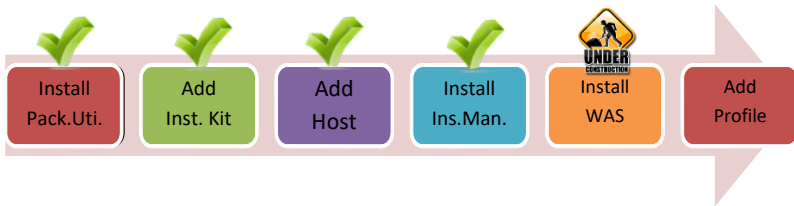
<server>
<repository location='/root/nd'/>
<repository location='/root/dsk'/>
</server>

<profile id='IBM WebSphere Application Server V9.0' installLocation='/opt/IBM/WebSphere/AppServer'>
<data key='eclipseLocation' value='/opt/IBM/WebSphere/AppServer'/>
<data key='user.import.profile' value='false'/>
<data key='cic.selector.arch' value='x86_64'/>
<data key='cic.selector.ws' value='gtk'/>
<data key='cic.selector.nl' value='en'/>
</profile>

<install modify='false'>
  <!-- IBM WebSphere Application Server Network Deployment 9.0.0.0 -->
    <offering id='com.ibm.websphere.ND.v90' version='9.0.0.20160526_1854' profile='IBM
WebSphere Application Server V9.0' features='core.feature,ejbdeploy,thinclient,embeddablecontainer'
installFixes='none'/>

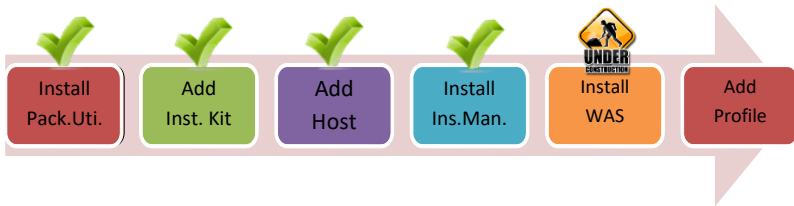
    <!-- IBM SDK, Java Technology Edition, Version 8 8.0.3.0 -->
    <offering profile='IBM WebSphere Application Server V9.0' id='com.ibm.java.jdk.v8'
version='8.0.3000.20160526_1317' features='com.ibm.sdk.8'/>
</install>

<preference name='com.ibm.cic.common.core.preferences.eclipseCache' value='/opt/IBM/IMShared'/>
<preference name='com.ibm.cic.common.core.preferences.connectTimeout' value='30'/>
<preference name='com.ibm.cic.common.core.preferences.readTimeout' value='45'/>
<preference name='com.ibm.cic.common.core.preferences.downloadAutoRetryCount' value='0'/>
<preference name='offering.service.repositories.areUsed' value='true'/>
<preference name='com.ibm.cic.common.core.preferences.ssl.nonsecureMode' value='false'/>
<preference name='com.ibm.cic.common.core.preferences.http.disablePreemptiveAuthentication'
value='false'/>
<preference name='http.ntlm.auth.kind' value='NTLM'/>
<preference name='http.ntlm.auth.enableIntegrated.win32' value='true'/>
<preference name='com.ibm.cic.common.core.preferences.preserveDownloadedArtifacts' value='true'/>
<preference name='com.ibm.cic.common.core.preferences.keepFetchedFiles' value='false'/>
```



```
<preference name='PassportAdvantagelsEnabled' value='false'/>
<preference name='com.ibm.cic.common.core.preferences.searchForUpdates' value='false'/>
<preference name='com.ibm.cic.agent.ui.displayInternalVersion' value='false'/>
<preference name='com.ibm.cic.common.sharedUI.showErrorLog' value='true'/>
<preference name='com.ibm.cic.common.sharedUI.showWarningLog' value='true'/>
<preference name='com.ibm.cic.common.sharedUI.showNoteLog' value='true'/>
</agent-input>
```

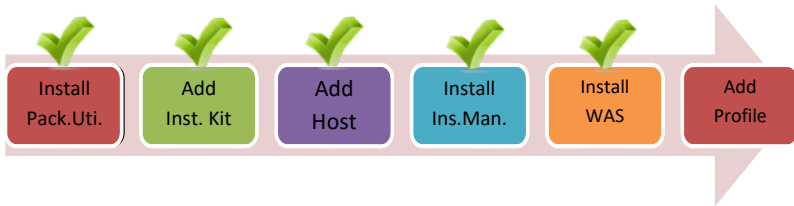
Browse the “Response file” created and specify the rest of the job parameters as below and click “Next”.



**Step 4:** In order to run the job immediately, click “Next”.

**Step 5:** Review the summary of the job and click “Finish” to submit it.

Options	Values
Job type	Manage offerings
Description	manageOfferings
Target names	seconds
Initial availability	Make the job available now.
Expiration	Use the default expiration.
User name	root
Response file	/tmp/respnsfile
Installation Manager path	/opt/IBM/InstallationManager
Installation Manager agent data location	/var/IBM/InstallationManager
I accept the terms in the license agreements	true



Wait until you see the successful message, then you can check the remote host to confirm the installation.

WebSphere Integration console screenshot showing the 'Job status' page. The page displays a table of submitted jobs. The first job, with ID 152612496100576263, is in the 'Active' state. The status summary for this job is 'Succeeded'. The table has columns for Job ID, Description, State, Activation Time, Expiration Time, and Status Summary. The status summary is highlighted with a red box.

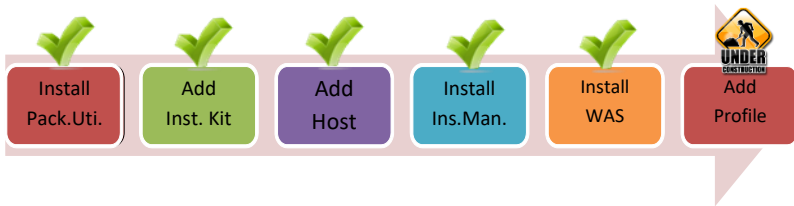
Job ID	Description	State	Activation Time	Expiration Time	Status Summary
152612496100576263	manageOfferings	Active	05/12/2018 16:36:00	07/11/2018 16:36:00	Succeeded

WebSphere Integration console screenshot showing the 'Job status' page. The page displays a table of submitted jobs. The first job, with ID 152612496100576263, is in the 'Active' state. The status summary for this job is 'Succeeded'. The table has columns for Job ID, Description, State, Activation Time, Expiration Time, and Status Summary. The status summary is highlighted with a red box.

Job ID	Description	State	Activation Time	Expiration Time	Status Summary
152612496100576263	manageOfferings	Active	05/12/2018 16:36:00	07/11/2018 16:36:00	Succeeded

Task 5 is complete!





## Task 6: Define a profile on remote host

**Step 1:** Navigate to “Jobs>Submit” and select “Manage profiles” to add a new profile then click “Next”.

WebSphere Integration Developer

Submit a job to the job manager

Choose a job type

Choose a job type

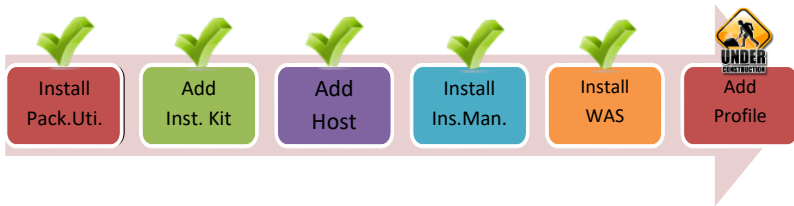
job type

Manage profiles

Description

manageprofiles

Next



**Step 2:** Add the remote host that we installed “WebSphere Application Server” on the previous task and add as target. Add the required credentials and then click “Next”.

WebSphere Integrate... K +

https://wasv90.9043.ibm/console/login.do?action=secure

WebSphere software

Submit a job to the job manager

Choose the targets to use. Targets can be either a target group or a list of one or more target names. If security is enabled on a target, then the saved authentication information for the target is used. Otherwise, you can optionally provide authentication parameters. If a user name is not provided, then the current console user ID is used. When authentication parameters are entered, they are used for all targets and take precedence over the saved authentication associated with the host.

Step 1: Choose a job

Step 2: Choose job targets

Step 3: Specify job parameters

Step 4: Schedule the job

Step 5: Review the summary and submit the job

Job type: Manage profiles

Target groups

No groups

Target names

secondwas

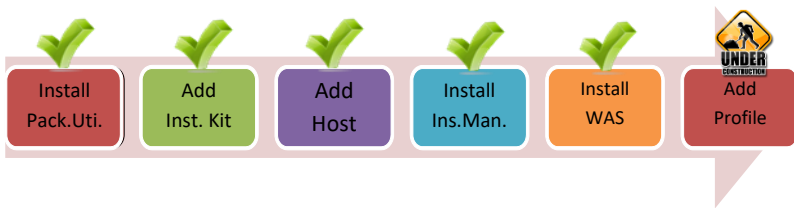
Target authentication

User name

root

Password authentication

Password



**Step 3:** Create a response file for creation of the new profile. You can use the following as sample.

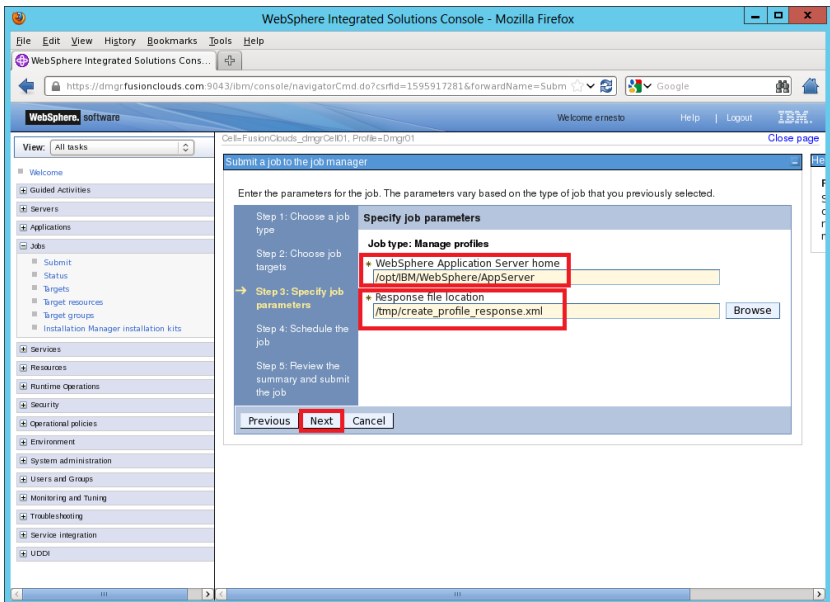
*create*

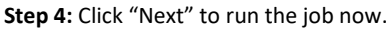
*templatePath=/opt/IBM/WebSphere/AppServer/profileTemplates/default*

*profileName=AppSrv10*

*profilePath=/opt/IBM/WebSphere/AppServer/profiles/AppSrv10*

Specify the WebSphere home directory and the response file, then click “Next”.





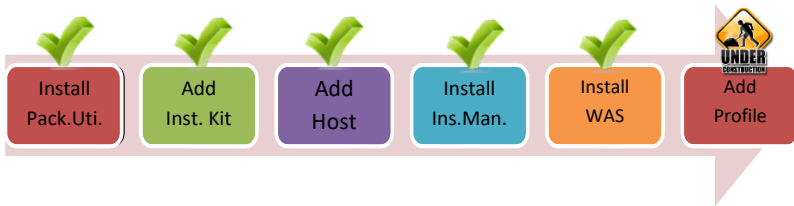
**Step 5:** Review the summary and click “Finish” to submit the job.

The screenshot shows the IBM WebSphere Integration Developer console. On the left, a sidebar lists various components like 'Solutions', 'Services', 'Applications', 'Jobs', 'Resources', 'Planning Operations', 'Security', 'Operational policies', 'Development', 'System administration', 'Users and Groups', 'Monitoring and Tuning', 'Troubleshooting', 'Service integration', and 'UDDI'. The main area displays a 'Submit a job to the job manager' dialog. It includes a 'Review the options that you entered' section, a 'Summary of actions' table, and a 'Step 5: Review the summary and submit the job' section. The 'Finish' button is highlighted with a red box.

**Summary of actions:**

Options	Values
Job type	Managed profiles
Description	managedprofiles
Target names	seconds
Initial availability	Make the job available now.
Expiration	Use the default expiration.
User name	root
WebSphere Application Server home	opt/IBM/WebSphere/AppSrv
Response file location	tmp/manage_profile_second

At the bottom of the dialog, there are three buttons: 'Previous', 'Finish' (highlighted with a red box), and 'Cancel'.



## Step 6: Check the status of the job.

**Job status**

This panel shows the status of submitted jobs with a status summary. It provides links to view status of the targets and explore the job history. Set the first parameters to limit the search results for submitted jobs. The results of the job search are displayed in the following collection.

Status summary key: **Succeeded** **Partially succeeded** **Failed** **Incomplete**

**Find**

**Preferences**

Suspend Resume Delete

Select	Job ID	Description	State	Activation Time	Expiration Time	Status Summary
<input type="checkbox"/>	152614830100402005	manageprofiles	Active	05/12/2018 23:06:31	07/11/2018 23:06:31	<div style="width: 100%; height: 10px; background-color: green;"></div>

Total 1

You should see the status as green, “Succeeded”.

**Job status**

This panel shows the status of submitted jobs with a status summary. It provides links to view status of the targets and explore the job history. Set the first parameters to limit the search results for submitted jobs. The results of the job search are displayed in the following collection.

Status summary key: **Succeeded** **Partially succeeded** **Failed** **Incomplete**

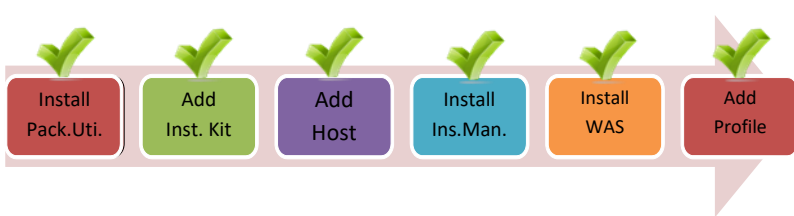
**Find**

**Preferences**

Suspend Resume Delete

Select	Job ID	Description	State	Activation Time	Expiration Time	Status Summary
<input type="checkbox"/>	152614830100402005	manageprofiles	Active	05/12/2018 23:06:31	07/11/2018 23:06:31	<div style="width: 100%; height: 10px; background-color: green;"></div>

Total 1



**Step 7:** Navigate to “Jobs>Target resources” to see a list of resources that can be used in jobs submitted to the job manager. You need to have a similar image.

**Target resources**

Target resources are applications, servers, and clusters that can be used in jobs submitted to the job manager. Set the find parameters to limit the search results for target resources. Use the target resources panels to explore the resources that are available.

**Find**

**Preferences**

Resources	Quantity	Target name
InstallationManager:InstallationManager	1	secondwas
InstallationManager:InstallationManager	1	secondwas
PackageGroup:IBM WebSphere Application Server V8.5	1	secondwas
PackageGroup:IBM WebSphere Application Server V8.5:Package:RM_SCK_Java Technology Edition, version 8	1	secondwas
PackageGroup:IBM WebSphere Application Server V8.5:Package:RM WebSphere Application Server V8.5:Package:RM WebSphere Application Server Network Deployment	1	secondwas
<b>Total</b>	<b>4</b>	

**Field help**  
For field help information, select a field label or list marker when the help cursor is displayed.

**Page help**  
More information about this page

**Command Assistance**  
View administrative scripting command for [ASST.AC166]

**Task 6 is complete!**

## **SUMMARY**

Centralized Installation Manager gives you the possibility to install, update, and uninstall WebSphere Application Server and supplementary products to remote hosts without connecting them. With the support of Packaging Utility, you even don't need to copy files over network, which saves time, disk space and CPU utilization. From version 8, Centralized Installation Manager is integrated to Job Manager and with this functionality, you can submit batch jobs that performs installation, update, and uninstall of WebSphere Application Server, IBM HTTP Server and other WebSphere supplementary products.

## REFERENCES

- [http://www.ibm.com/developerworks/websphere/techjournal/1206\\_wong/1206\\_wong.html](http://www.ibm.com/developerworks/websphere/techjournal/1206_wong/1206_wong.html)
- [http://www-01.ibm.com/support/knowledgecenter/SSAW57\\_8.5.5/com.ibm.websphere.installation.nd.iseries.doc/ae/tins\\_cim.html?cp=SSAW57\\_8.5.5%2F2-5-0-10-1](http://www-01.ibm.com/support/knowledgecenter/SSAW57_8.5.5/com.ibm.websphere.installation.nd.iseries.doc/ae/tins_cim.html?cp=SSAW57_8.5.5%2F2-5-0-10-1)
- [http://pic.dhe.ibm.com/infocenter/wasinfo/v8r5/index.jsp?topic=%2Fcom.ibm.websphere.nd.doc%2Fae%2Ftagt\\_job\\_install\\_was\\_gui.html](http://pic.dhe.ibm.com/infocenter/wasinfo/v8r5/index.jsp?topic=%2Fcom.ibm.websphere.nd.doc%2Fae%2Ftagt_job_install_was_gui.html)



## INDEX

Centralized Installation Manager .....	166
CIM .....	166
Job Manager .....	166
network repository .....	167
Packaging Utility .....	167
repository .....	167

