

# IBM WebSphere Application Server V8 lab: Centralized Installation Manager

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## Scenario

The objective of this lab is to provide you with an understanding of the function of the Centralized Installation Manager (CIM) within the job manager profile type. (In previous versions of WebSphere Application Server, CIM functionality was provided only within the deployment manager profile type.)

Additionally, you will be introduced to how CIM functions with IBM Installation Manager (IM). (In WebSphere Application Server V7, CIM was engineered to function with a different installation technology.)

For more information about CIM, see the following WebSphere Application Server V8.0 information center topic: **Centralized installation manager (CIM)**

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## Goals

During this lab, you will learn to do the following:

1. Use the job manager to install IBM Installation Manager on a remote host and track the status of the job to its completion.
2. Use the job manager to install WebSphere Application Server V8 on a remote host and track the status of the job to its completion.

This lab is provided **AS-IS**, with no formal IBM support.

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## Prerequisites

### Materials

You will need the following materials to complete this lab:

- The installation kit (installation files) for IBM Installation Manager (IM) V1.4.3 or later. Instructions and downloads are available on the IBM support site.
- Access to an IM repository containing the WebSphere Application Server V8 installation files. The repository can be located on the target machine, a network drive, a web server, or IBM Passport Advantage.
- An administrative account on the target machine. For information about using a non-administrative (non-root) account to install IM and WebSphere Application Server, see the information center.
- The provided sample IM response file, `install_was_cim.xml`.

## Hosts

This lab requires two host machines. Within the lab instructions, the hosts are assumed to be set up in the following manner:

- host-1 – Job Manager
  - IBM Installation Manager (IM)
    - IM installation kit: im143.zip
  - WebSphere Application Server V8.0 Installation
    - Application server root
      - Windows: C:\Program Files\IBM\WebSphere\AppServer
      - UNIX/Linux: /opt/IBM/WebSphere/AppServer
  - Job Manager Node
    - Profile name: JobMgr01
    - Profile path
      - Windows: C:\Program Files\IBM\WebSphere\AppServer\profiles\JobMgr01
      - UNIX/Linux: /opt/IBM/WebSphere/AppServer/profiles/JobMgr01
    - Node name: JobMgr01Node
    - Server name: jobmgr
  - WebSphere Administrative Account
    - User name: was
    - Password: was
- host-2 – Operating System
  - Administrative Account
    - User name: was
    - Password: was

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## Task 1: Use the job manager to install IBM Installation Manager on the remote host and track the status of the job to its completion

### host-1

1. On host-1, start the Job Manager.
2. Log in to the administrative console for the Job Manager, specifying an appropriate user ID and password if administrative security is enabled. Then add the IBM Installation Manager (IM) installation kit to the job manager configuration.
  - a. Click *Jobs > Installation Manager installation kits*.
  - b. Click **Add**.
  - c. Click **Browse**.
  - d. Select the IM installation kit, for example, `im143.zip`. Then click **Open**.

- e. Click **Add** to add the IM installation kit.
4. Use the job manager administrative console to define the remote host as a target and verify its properties.
- a. Click *Jobs > Targets*.
  - b. Click **New Host**. Then define the properties of the remote host, for example:
    - Host name: host-2
    - Operating System: Windows
    - Administrative user with installation authority: was
    - Password: was
    - Confirm password: was
    - Save security information: Yes
  - c. Click **OK** to add the remote host. Note that the remote host must be running (and be visible to the job manager); otherwise, this step will fail.
  - d. Within the list of targets, click the remote host, for example, **host-2**. Then verify its properties. Finally, click **Back** to return to the list of targets.
5. Use the job manager administrative console to define and submit a job that installs IM on the remote host.
- a. Click *Jobs > Submit*. Within the job submission wizard, do the following:
    - i. Set Job type to Install IBM Installation Manager and optionally update the job description to something less generic. Then click **Next**.
    - ii. Enter the host name of the target, for example, `host-2`. Then click **Add**. You can also use the following procedure to locate and select the target.
      - 1. Click **Find**.
      - 2. Set Target type to All.
      - 3. Click **Find**.
      - 4. In the Exclude targets list, highlight the target and click the **Add** arrow to add the target to the Chosen targets list.
      - 5. Click **OK**.

Input fields under Target authentication can be skipped as long as the security information was saved when defining the target.

Click **Next**.

- iii. Accept the default job parameter values for IM, which ultimately causes the default IM installation settings to be used. Select *I accept the terms in the license agreements*. Then click **Next**.
- iv. Accept the default scheduling settings, which make the job available to the targets immediately. Then click **Next**.
- v. Review the job summary information. Then click **Finish**.

The Job status page is displayed automatically after submitting a job.

b. View the detailed status of the IM installation job as it runs. (The job will require several minutes to complete.)

- i. Click the ID of the job that you just submitted.
- ii. On the detailed job status page, click the refresh arrows in the Status column of the table to update the status of the job.
- iii. Click the value in the Status column for additional details.
- iv. Click **Back**.

c. View the contents of any files output by the job.

- i. Click the **stdErr.txt** link in the Output Files column to view the Standard Error information. Then click **OK**.
- ii. Click the **stdOut.txt** link in the Output Files column to view the Standard Out information. Then click **OK**.

6. Use the job manager administrative console to verify that IM is listed as an available resource.

- a. Click *Jobs > Target resources*.
- b. Confirm that Installation Manager is listed as a resource for the target.

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## Task 2: Use the job manager to install WebSphere Application Server V8 on the remote host and track the status of the job to its completion

1. Create a suitable response file for installing WebSphere Application Server V8. You can use the provided response file, `install_was_cim.xml`, as a starting point. The response file must specify the location of a WebSphere Application Server V8 installation repository, which can be located on the target machine, a network drive, a web server, or IBM Passport Advantage.

For more information about response files and IM repositories, see the WebSphere Application Server V8 installation lab, and the information center.

2. Use the job manager administrative console to define and submit a job that installs WebSphere Application Server V8 on the remote host.

- a. Click *Jobs > Submit*. Within the job submission wizard, do the following:
  - i. Set Job type to *Manage offerings* and optionally update the job description to something less generic. Then click **Next**.
  - ii. Enter the host name of the target, for example, `host-2`. Then click **Add**. You can also use the following procedure to locate and select the target.
    1. Click **Find**.
    2. Set Target type to All.
    3. Click **Find**.

4. In the Exclude targets list, highlight the target and click the **Add** arrow to add the target to the Chosen targets list.
5. Click **OK**.

Input fields under Target authentication can be skipped as long as the security information was saved when defining the target.

Click **Next**.

- iii. Enter the location of the response file.

Note that this location is on the job manager host, not the target host. The file will be copied to the target host during the installation process.

Accept the default (blank) IM paths and file locations.

Select *I accept the terms in the license agreements*. Then click **Next**.

- iv. Accept the default scheduling settings, which make the job available to the targets immediately. Then click **Next**.

- v. Review job summary information. Then click **Finish**.

The Job status page is displayed automatically after submitting a job.

- b. View the detailed status of the IM installation job as it runs.
  - i. Click the ID of the job that you just submitted.
  - ii. On the detailed job status page, click the refresh arrows in the Status column of the table to update the status of the job.
  - iii. Click the value in the Status column for additional details.
  - iv. Click **Back**.
- c. View the contents of any files output by the job.
  - i. Click the **stdErr.txt** link in the Output Files column to view the Standard Error information. Then click **OK**.
  - ii. Click the **stdOut.txt** link in the Output Files column to view the Standard Out information. Then click **OK**.

3. Use the job manager administrative console to verify that WebSphere Application Server is listed as an available resource.

- a. Click *Jobs > Target resources*.

- b. Confirm that the WebSphere Application Server package group and feature are listed as resources for the target.

4. Optionally, log out of the job manager administrative console.