

# HP Universal CMDB

For the Windows, Oracle Enterprise Linux, Red Hat Enterprise Linux, and SUSE Linux Enterprise operating systems

Software Version: 10.01, CP 12.00

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## Discovery and Integration Content Guide - Discovery Activities

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# Chapter 1

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## Basic Software Configuration Discovery Activity

The Basic Software Configuration Discovery activity discovers basic software configuration information to detect and map out what is running in your data center.

<b>To access</b>	In <b>Data Flow Management &gt; Discovery Control Panel &gt; Zone-Based Discovery &gt; Management Zones</b> :  1. Select the appropriate <b>Management Zone</b>  2. Click the  button  3. Select <b>New Discovery Activity &gt; Software Configuration &gt; Basic</b>  The <b>New Basic Software Configuration Discovery Activity</b> dialog box appears.
<b>Important Information</b>	For more information, hold the pointer over a question mark icon.
<b>Wizard Map</b>	The <b>Basic Software Configuration Discovery Activity</b> contains:  "Activity Name Page" > "Preferences Page" > "Schedule Discovery Page" > "Summary Page"



## Activity Name Page

Enables you to configure a name for the Basic Software Configuration Discovery activity.

<b>Important Information</b>	<ul style="list-style-type: none"> <li>• Enter a unique name for the Basic Software Configuration Discovery activity.</li> <li>• General information about the activity is available in "<a href="#">Basic Software Configuration Discovery Activity</a>" on previous page</li> </ul> <p><b>Note:</b> This screen is not displayed when editing a Basic Software Configuration Discovery activity.</p>
<b>Wizard Map</b>	<p>The "<a href="#">Basic Software Configuration Discovery Activity</a>" contains:</p> <p><b>Activity Name Page</b> &gt; "<a href="#">Preferences Page</a>" &gt; "<a href="#">Schedule Discovery Page</a>" &gt; "<a href="#">Summary Page</a>"</p>

User interface elements are described below:



<b>UI Element (A-Z)</b>	<b>Description</b>
<b>Activity Name</b>	<p>Enter a unique name for the Basic Software Configuration activity.</p> <p><b>Note:</b> Names should consist only of alphanumeric characters (a-z, A-Z, 0-9), hyphens (-), and periods (.). Names appear in some reports. Additionally, names may also appear in the <b>Updated by</b> attribute in the <b>CI Properties</b> page if a CI was updated by a job. Names can be changed at any time, however, the <b>Job ID</b> attribute that is associated with the job name does not change.</p>

## Preferences Page

Enables you to select preferences for the Basic Software Configuration Discovery activity.

<b>Important Information</b>	<ul style="list-style-type: none"> <li>Select preferences relating to what information is discovered.</li> <li>General information about the activity is available in "Basic Software Configuration Discovery Activity" on page 8</li> </ul>
<b>Wizard Map</b>	The "Basic Software Configuration Discovery Activity" contains: "Activity Name Page" > <b>Preferences Page</b> > "Schedule Discovery Page" > "Summary Page"

User interface elements are described below:


UI Element (A–Z)	Description
<b>Host TCP Connections</b>	Select this check box to discover TCP communication channels to map dependency relationships between hosts.  <b>Note:</b> For this discovery to work, you must configure at least one of the credentials in the Infrastructure Discovery activity.
<b>Operating System Users</b>	Select this check box to discover local operating system users.
<b>Port Scanning</b>	Select this check box to scan TCP ports to discover open server ports. Under <b>Choose TCP Ports for Port Scanning</b> : <ul style="list-style-type: none"> <li>Click the  button to add new ports to the list.</li> <li>Click the  button to remove ports from the list.</li> </ul> <b>Note:</b> The scanning process may affect network performance. You may need to tell machine owners about Universal Discovery trying to connect to their machines.
<b>Running Software</b>	Select this check box to discover running software.

## Schedule Discovery Page

Enables you to define a schedule for the Basic Software Configuration Discovery activity.

<b>Important Information</b>	General information about the activity is available in " <a href="#">Basic Software Configuration Discovery Activity</a> " on page 8
<b>Wizard Map</b>	The " <a href="#">Basic Software Configuration Discovery Activity</a> " contains: " <a href="#">Activity Name Page</a> " > " <a href="#">Preferences Page</a> " > <b>Schedule Discovery Page</b> > " <a href="#">Summary Page</a> "

User interface elements are described below:

UI Element (A–Z)	Description
	Click the <b>time templates</b> icon to open the <b>Time Templates</b> dialog box. Enables you to define a custom schedule to run the discovery activity. For more information, see the <i>HP Universal CMDB Data Flow Management Guide</i> .
<b>Allow Discovery to run at</b>	Select the time template that you want to use to schedule the discovery activity.
<b>End by</b>	Choose the date and time when the discovery activity must finish running by selecting the <b>End by</b> check box, opening the calendar, and selecting the date and time.
<b>Repeat Every</b>	Select how often the job runs. Type or select a value for the interval between successive runs and choose the required unit of time (hours, days, or weeks).
<b>Start at</b>	Choose the date and time when the discovery activity must begin running by selecting the <b>Start at</b> check box, opening the calendar, and selecting the date and time.

## Summary Page

Enables you to review all configurations and parameter values before running the Basic Software Configuration Discovery activity.

<b>Important Information</b>	Review configurations and decide whether to run the activity or go back and make changes.  General information about the activity is available in <a href="#">"Basic Software Configuration Discovery Activity"</a> on page 8
<b>Wizard Map</b>	The <a href="#">"Basic Software Configuration Discovery Activity"</a> contains:  <a href="#">"Activity Name Page"</a> > <a href="#">"Preferences Page"</a> > <a href="#">"Schedule Discovery Page"</a> > <b>Summary Page</b>

User interface elements are described below:


UI Element (A–Z)	Description
<b>Activate Activity</b>	Activates the activity upon creating it.  <b>Note:</b> If you do not want to activate the activity at this stage, you can activate it later from the Zone-Based Discovery view.
<b>Finish</b>	<ul style="list-style-type: none"> <li>• <b>Creation mode:</b> Closes the wizard and adds the activity to the Management Zone tree.  <b>Note:</b> If you selected <b>Activate Activity</b>, the activity is activated upon creation.</li> <li>• <b>Edit mode</b> Saves the changes to the activity.  <b>Note:</b> You cannot activate the activity from the wizard in Edit mode.</li> </ul>

## Chapter 2

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# Database Software Configuration Discovery Activity

The Database Software Configuration Discovery activity discovers detailed configuration information about databases in your data center.

<b>To access</b>	<p>In <b>Data Flow Management &gt; Discovery Control Panel &gt; Zone-Based Discovery &gt; Management Zones</b>:</p> <ol style="list-style-type: none"><li>1. Select the appropriate <b>Management Zone</b></li><li>2. Click the  button</li><li>3. Select <b>New Discovery Activity &gt; Software Configuration &gt; Database</b></li></ol> <p>The <b>New Database Software Configuration Discovery Activity</b> dialog box appears.</p>
<b>Important Information</b>	<p>For more information, hold the pointer over a question mark icon.</p>
<b>Wizard Map</b>	<p>The <b>Database Software Configuration Discovery Activity</b> contains:</p> <p>"Activity Name Page" &gt; "Define Credentials Page" &gt; "Database Port Scanning" &gt; "Discovery Preferences Page" &gt; "Schedule Discovery Page" &gt; "Summary Page"</p>

## Activity Name Page

Enables you to configure a name for the Database Software Configuration Discovery activity.

<b>Important Information</b>	<ul style="list-style-type: none"> <li>• Enter a unique name for the Database Software Configuration Discovery activity.</li> <li>• General information about the activity is available in "<a href="#">Database Software Configuration Discovery Activity</a>" on previous page.</li> </ul> <p><b>Note:</b> This screen is not displayed when editing a Basic Software Configuration Discovery activity.</p>
<b>Wizard Map</b>	<p>The "<a href="#">Database Software Configuration Discovery Activity</a>" contains:</p> <p><b>Activity Name Page</b> &gt; "<a href="#">Define Credentials Page</a>" &gt; "<a href="#">Database Port Scanning</a>" &gt; "<a href="#">Discovery Preferences Page</a>" &gt; "<a href="#">Schedule Discovery Page</a>" &gt; "<a href="#">Summary Page</a>"</p>

User interface elements are described below:

<b>UI Element (A–Z)</b>	<b>Description</b>
<b>Activity Name</b>	<p>Enter a unique name for the Database Software Configuration Discovery activity.</p> <p><b>Note:</b> Names should consist only of alphanumeric characters (a-z, A-Z, 0-9), hyphens (-), and periods (.). Names appear in some reports. Additionally, names may also appear in the <b>Updated by</b> attribute in the <b>CI Properties</b> page if a CI was updated by a job. Names can be changed at any time, however, the <b>Job ID</b> attribute that is associated with the job name does not change.</p>

## Define Credentials Page





Enables you to select and configure credentials for protocols that are used for discovery jobs.

<b>Important information</b>	<ul style="list-style-type: none"> <li>• Configure credentials depending on what must be discovered and which protocols are supported on your site's network.</li> <li>• Credentials for protocols that were configured during Data Flow Probe setup are displayed on this page. For more information, see the section describing setting up the Data Flow Probe in the <i>HP Universal CMDB Data Flow Management Guide</i>.</li> <li>• To see additional fields that are available for protocols, and for more information about field definitions for the Protocol Parameters dialog box, see the section about Supported Protocols in the <i>HP Universal CMDB Discovery and Integration Content Guide - Supported Content</i> document.</li> <li>• General information about the activity is available in "<a href="#">Database Software Configuration Discovery Activity</a>" on page 13.</li> </ul>
<b>Wizard map</b>	<p>The "<a href="#">Database Software Configuration Discovery Activity</a>" contains:</p> <p><a href="#">"Activity Name Page"</a> &gt; <b>Define Credentials Page</b> &gt; <a href="#">"Database Port Scanning"</a> &gt; <a href="#">"Discovery Preferences Page"</a> &gt; <a href="#">"Schedule Discovery Page"</a> &gt; <a href="#">"Summary Page"</a></p>

### Protocol pane

Lists the protocols that are available for this activity.

User interface elements are described below:








UI Element	Description
	<b>Select All.</b> Selects all protocols or selects all credentials for a selected protocol.
	<b>Clear Selections.</b> Clears all selected credentials or clears all selected protocols.
	<b>Invert Selections.</b> All credentials or protocols that were selected are deselected, and all credentials or protocols that were not selected are selected.
	Indicates that a protocol has no credentials.

### Credentials pane

Lists the credentials for the selected protocol.

<b>Important information</b>	<ul style="list-style-type: none"> <li>To sort the credentials in a column in ascending or descending order, click the column header.</li> <li>To edit parameters of a credentials, double-click a credential to open the Protocol Parameters dialog box.</li> <li>When you right-click a credential, a menu is displayed. For more information about right-click menu options, see the section describing the Data Flow Probe Setup Window-Details pane in the <i>HP Universal CMDB Data Flow Management Guide</i>.</li> </ul>
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User interface elements are described below:

UI Element	Description
	<p><b>Create New Connection Details.</b> Opens the Protocol Parameters dialog box, enabling you to define credentials for the selected protocol.</p> <p>To determine which protocols require credentials for this activity, go to <b>Data Flow Management &gt; Discovery Control Panel &gt; Zone-Based Discovery</b> tab &gt; <b>Activity Jobs</b> tab. Ensure that you create credentials for all of the protocols in the <b>Protocol</b> pane for the activity.</p>
	<p><b>Remove Connection Details.</b> Removes the selected credential.</p>
	<p><b>Edit Connection Details.</b> Opens the Protocol Parameters dialog box, enabling you to edit the credentials for the selected protocol.</p>
	<p><b>Move Entry Up/Move Entry Down.</b> Enables you to move credentials up or down, enabling you to set the order in which selected credentials are used for the selected protocol.</p> <p><b>Note:</b> Moving credentials affects the value in the <b>Index</b> column.</p>
	<p><b>Select All.</b> Selects all protocols or selects all credentials for a selected protocol.</p>
	<p><b>Clear Selections.</b> Clears all selected credentials or clears all selected protocols.</p>
	<p><b>Invert Selections.</b> All credentials or protocols that were selected are deselected, and all credentials or protocols that were not selected are selected.</p>
<b>Selected</b>	Enables you to select credentials to use for the activity.
<b>Index</b>	Indicates the order in which the system selects credential instances to make a connection attempt. The lower the index, the higher the priority.
<b>Database Type</b>	The description of the credential that is configured in the Protocol Parameters dialog box.
<b>Port Number</b>	The port number that is configured in the Protocol Parameters dialog box.





UI Element	Description
<b>Encryption</b>	The encryption method of the credential that is configured in the Protocol Parameters dialog box.
<b>User Label</b>	The description of the credential that is configured in the Protocol Parameters dialog box.
<b>User Name</b>	The description of the credential that is configured in the Protocol Parameters dialog box.
<b>Scope</b>	Indicates the Data Flow Probe that uses the selected credential. This value is configured in the Scope Definition dialog box. For more information, see the section describing the Scope Definition dialog box in the <i>HP Universal CMDB Data Flow Management Guide</i> .

## Database Port Scanning

Enables you to configure the ports to be scanned.

<b>Important Information</b>	General information about the wizard is available in "Database Software Configuration Discovery Activity" on page 13.
<b>Wizard Map</b>	The "Database Software Configuration Discovery Activity" contains: "Activity Name Page" > "Define Credentials Page" > <b>Database Port Scanning</b> > "Discovery Preferences Page" > "Schedule Discovery Page" > "Summary Page"

User interface elements are described below:

UI Element (A–Z)	Description
	<b>Add port.</b> Opens the <b>Chose TCP Ports to Scan</b> dialog box, enabling you to select ports to be scanned.
	<b>Remove Port.</b> Enables you to remove a selected port from the list.

## Discovery Preferences Page

Enables you to select detailed preferences for the Database Software Configuration Discovery activity.

<b>Important Information</b>	General information about the wizard is available in "Database Software Configuration Discovery Activity" on page 13.
<b>Wizard Map</b>	The "Database Software Configuration Discovery Activity" contains: "Activity Name Page" > "Define Credentials Page" > "Database Port Scanning" > <b>Discovery Preferences Page</b> > "Schedule Discovery Page" > "Summary Page"

User interface elements are described below:

UI Element	Description
<b>Run DB2 Discovery</b>	<p>Select the check box to run DB2 discovery.</p> <p>Click the <input type="checkbox"/> button beside <b>Discovery Options</b> to display the available options:</p> <ul style="list-style-type: none"> <li>• <b>DB2 JDBC Driver version 8.x</b> <p>Select the check box and click <b>Import file...</b> to locate the appropriate JAR file in the DB2 JDBC installation, as follows:</p> <ul style="list-style-type: none"> <li>▪ <b>db2java.zip</b></li> <li>▪ <b>db2jcc.jar</b></li> </ul> </li> <li>• <b>DB2 JDBC Driver version 9.x</b> <p>Select the check box and click <b>Import file...</b> to locate the appropriate JAR file in the DB2 JDBC installation, as follows:</p> <ul style="list-style-type: none"> <li>▪ <b>db2java.zip</b></li> <li>▪ <b>db2jcc.jar</b></li> <li>▪ <b>db2jcc_license_cu.jar</b></li> <li>▪ <b>db2jcc_license_cisuz.jar</b></li> </ul> </li> </ul>


UI Element	Description
<b>Run MS SQL Discovery</b>	<p>Select the check box to run MS SQL discovery.</p> <p>Click the <input type="button" value="v"/> button beside <b>Discovery Options</b> to display the available options:</p> <ul style="list-style-type: none"> <li>• <b>Discover configuration</b> Select to enable discovery of MS SQL server configuration (mssql.database.configuration.txt)</li> <li>• <b>Discover users</b> Select to enable discovery of database users</li> <li>• <b>Discover sql/data files</b> Select to enable discovery of SQL/data files</li> <li>• <b>Discover SQL jobs</b> Select to enable discovery of SQL jobs</li> </ul>
<b>Run Sybase Discovery</b>	<p>Select the check box to run Sybase discovery.</p> <p>Click the <input type="button" value="v"/> button beside <b>Discovery Options</b> to display the available option:</p> <ul style="list-style-type: none"> <li>• <b>Sybase JDBC Driver file</b> Select the check box and click <b>Import file...</b> to locate the <b>3pclasses.jar</b> file in the Sybase JDBC installation.</li> </ul>
<b>Run Oracle Discovery</b>	<p>Select the check box to run Oracle discovery.</p> <p>Click the <input type="button" value="v"/> button beside <b>Discovery Options</b> to display the available option:</p> <ul style="list-style-type: none"> <li>• <b>Oracle Home Directory</b> Use this when no <b>ORACLE_HOME</b> environment variable is defined. <b>Note:</b> The value must coincide with the same parameter in the <b>Oracle Listeners by Shell</b> job.</li> </ul>
<b>Run MySQL Discovery</b>	Select the check box to run MySQL discovery.
<b>Run HanaDB Discovery</b>	Select the check box to run HanaDB discovery.
<b>Run MaxDB Discovery</b>	Select the check box to run MaxDB discovery.

## Schedule Discovery Page

Enables you to define a schedule for the Database Software Configuration Discovery activity.

<b>Important Information</b>	General information about the activity is available in "Database Software Configuration Discovery Activity" on page 13.
<b>Wizard Map</b>	The "Database Software Configuration Discovery Activity" contains: "Activity Name Page" > "Define Credentials Page" > "Discovery Preferences Page" > <b>Schedule Discovery Page</b> > "Summary Page"

User interface elements are described below:

UI Element (A–Z)	Description
	Click the <b>time templates</b> icon to open the <b>Time Templates</b> dialog box. Enables you to define a custom schedule to run the discovery activity. For more information, see the <i>HP Universal CMDB Data Flow Management Guide</i> .
<b>Allow Discovery to run at</b>	Select the time template that you want to use to schedule the discovery activity.
<b>End by</b>	Choose the date and time when the discovery activity must finish running by selecting the <b>End by</b> check box, opening the calendar, and selecting the date and time.
<b>Repeat Every</b>	Select how often the job runs. Type or select a value for the interval between successive runs and choose the required unit of time (hours, days, or weeks).
<b>Start at</b>	Choose the date and time when the discovery activity must begin running by selecting the <b>Start at</b> check box, opening the calendar, and selecting the date and time.

## Summary Page

Enables you to review all configurations and parameter values before running the Database Software Configuration Discovery activity.

<b>Important Information</b>	Review configurations and decide whether to run the activity or go back and make changes.  General information about the activity is available in "Database Software Configuration Discovery Activity" on page 13
<b>Wizard Map</b>	The "Database Software Configuration Discovery Activity" contains:  "Activity Name Page" > "Define Credentials Page" > "Discovery Preferences Page" > "Schedule Discovery Page" > <b>Summary Page</b>

User interface elements are described below:

UI Element (A–Z)	Description
<b>Activate Activity</b>	Activates the activity upon creating it.  <b>Note:</b> If you do not want to activate the activity at this stage, you can activate it later from the Zone-Based Discovery view.
<b>Finish</b>	<ul style="list-style-type: none"> <li>• <b>Creation mode:</b> Closes the wizard and adds the activity to the Management Zone tree.  <b>Note:</b> If you selected <b>Activate Activity</b>, the activity is activated upon creation.</li> <li>• <b>Edit mode</b> Saves the changes to the activity.  <b>Note:</b> You cannot activate the activity from the wizard in Edit mode.</li> </ul>


## Chapter 3

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# Infrastructure Discovery Activity

The Infrastructure Discovery activity discovers the infrastructure in a management zone. Depending on the configuration, the Universal Discovery Agent may be installed, upgraded, or uninstalled on the discovery node.

**Note:** The Infrastructure Discovery Activity should be run before all other discovery activities.

<b>To access</b>	<p>In <b>Data Flow Management &gt; Discovery Control Panel &gt; Zone-Based Discovery &gt; Management Zones</b>:</p> <ol style="list-style-type: none"><li>1. Select the appropriate <b>Management Zone</b></li><li>2. Click the  button</li><li>3. Select <b>New Discovery Activity &gt; Infrastructure</b></li></ol> <p>The <b>New Infrastructure Discovery Activity</b> dialog box appears.</p>
<b>Important Information</b>	<p>For more information, hold the pointer over a question mark icon.</p>
<b>Wizard Map</b>	<p>The <b>Infrastructure Discovery Activity</b> contains:</p> <p>"Activity Name Page" &gt; "Define Credentials Page" &gt; "Preferences Page" &gt; "Universal Discovery Agent Deployment Page" &gt; "Schedule Deployment Page" &gt; "Summary Page"</p>

## Activity Name Page

Enables you to configure a unique name for the Infrastructure Discovery activity.

<b>Important Information</b>	<ul style="list-style-type: none"> <li>• Enter a unique name in the <b>Activity Name</b> field.</li> <li>• General information about the activity is available in "<a href="#">Infrastructure Discovery Activity</a>" on previous page</li> </ul> <p><b>Note:</b> This screen does not appear when editing an existing discovery job.</p>
<b>Wizard Map</b>	<p>The "<a href="#">Infrastructure Discovery Activity</a>" contains:</p> <p><b>Activity Name Page</b> &gt; "<a href="#">Define Credentials Page</a>" &gt; "<a href="#">Preferences Page</a>" &gt; "<a href="#">Universal Discovery Agent Deployment Page</a>" &gt; "<a href="#">Schedule Deployment Page</a>" &gt; "<a href="#">Summary Page</a>"</p>

User interface elements are described below:

UI Element (A–Z)	Description
<b>Activity Name</b>	<p>Enter a unique name for the Infrastructure Discovery activity.</p> <p><b>Note:</b> Names should consist only of alphanumeric characters (a-z, A-Z, 0-9), hyphens (-), and periods (.). Job names appear in some reports. These reports are located at <b>Modeling &gt; Reports &gt; Custom Reports &gt; Discovery Status</b> and also at <b>Modeling &gt; Reports &gt; Custom Reports &gt; Inventory</b>. See the section describing reports in the <i>HP Universal CMDB Modeling Guide</i>. Job names may also appear in the <b>Updated by</b> attribute in the <b>CI Properties</b> page if a CI was updated by the job. Job names can be changed at any time, however, the <b>Job ID</b> attribute that is associated with the job name does not change.</p>



## Define Credentials Page





Enables you to select and configure credentials for protocols that are used for discovery jobs.

<b>Important information</b>	<ul style="list-style-type: none"> <li>• Configure credentials depending on what must be discovered and which protocols are supported on your site's network.</li> <li>• Credentials for protocols that were configured during Data Flow Probe setup are displayed on this page. For more information, see the section describing setting up the Data Flow Probe in the <i>HP Universal CMDB Data Flow Management Guide</i>.</li> <li>• To see additional fields that are available for protocols, and for more information about field definitions for the Protocol Parameters dialog box, see the section about Supported Protocols in the <i>HP Universal CMDB Discovery and Integration Content Guide - Supported Content</i> document.</li> <li>• General information about the activity is available in "<a href="#">Infrastructure Discovery Activity</a>" on page 23</li> </ul>
<b>Wizard map</b>	<p>The "<a href="#">Infrastructure Discovery Activity</a>" contains:</p> <p>"<a href="#">Activity Name Page</a>" &gt; <b>Define Credentials Page</b> &gt; "<a href="#">Preferences Page</a>" &gt; "<a href="#">Universal Discovery Agent Deployment Page</a>" &gt; "<a href="#">Schedule Deployment Page</a>" &gt; "<a href="#">Summary Page</a>"</p>

### Protocol pane

Lists the protocols that are available for this activity.

User interface elements are described below:








UI Element	Description
	<b>Select All.</b> Selects all protocols or selects all credentials for a selected protocol.
	<b>Clear Selections.</b> Clears all selected credentials or clears all selected protocols.
	<b>Invert Selections.</b> All credentials or protocols that were selected are deselected, and all credentials or protocols that were not selected are selected.
	Indicates that a protocol has no credentials.

### Credentials pane

Lists the credentials for the selected protocol.

<b>Important information</b>	<ul style="list-style-type: none"> <li>To sort the credentials in a column in ascending or descending order, click the column header.</li> <li>To edit parameters of a credentials, double-click a credential to open the Protocol Parameters dialog box.</li> <li>When you right-click a credential, a menu is displayed. For more information about right-click menu options, see the section describing the Data Flow Probe Setup Window-Details pane in the <i>HP Universal CMDB Data Flow Management Guide</i>.</li> </ul>
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User interface elements are described below:

UI Element	Description
	<p><b>Create New Connection Details.</b> Opens the Protocol Parameters dialog box, enabling you to define credentials for the selected protocol.</p> <p>To determine which protocols require credentials for this activity, go to <b>Data Flow Management &gt; Discovery Control Panel &gt; Zone-Based Discovery</b> tab &gt; <b>Activity Jobs</b> tab. Ensure that you create credentials for all of the protocols in the <b>Protocol</b> pane for the activity.</p>
	<p><b>Remove Connection Details.</b> Removes the selected credential.</p>
	<p><b>Edit Connection Details.</b> Opens the Protocol Parameters dialog box, enabling you to edit the credentials for the selected protocol.</p>
	<p><b>Move Entry Up/Move Entry Down.</b> Enables you to move credentials up or down, enabling you to set the order in which selected credentials are used for the selected protocol.</p> <p><b>Note:</b> Moving credentials affects the value in the <b>Index</b> column.</p>
	<p><b>Select All.</b> Selects all protocols or selects all credentials for a selected protocol.</p>
	<p><b>Clear Selections.</b> Clears all selected credentials or clears all selected protocols.</p>
	<p><b>Invert Selections.</b> All credentials or protocols that were selected are deselected, and all credentials or protocols that were not selected are selected.</p>
<b>Selected</b>	Enables you to select credentials to use for the activity.
<b>Index</b>	Indicates the order in which the system selects credential instances to make a connection attempt. The lower the index, the higher the priority.
<b>User Label</b>	The description of the credential that is configured in the Protocol Parameters dialog box.

UI Element	Description
<b>Scope</b>	Indicates the Data Flow Probe that uses the selected credential. This value is configured in the Scope Definition dialog box. For more information, see the section describing the Scope Definition dialog box in the <i>HP Universal CMDB Data Flow Management Guide</i> .

## Preferences Page

Enables you to select preferences for the Infrastructure Discovery activity.

<b>Important Information</b>	<ul style="list-style-type: none"> <li>• Select preferences relating to what information is discovered.</li> <li>• General information about the activity is available in "Infrastructure Discovery Activity" on page 23</li> </ul>
<b>Wizard Map</b>	<p>The "Infrastructure Discovery Activity" contains:</p> <p>"Activity Name Page" &gt; "Define Credentials Page" &gt; <b>Preferences Page</b> &gt; "Universal Discovery Agent Deployment Page" &gt; "Schedule Deployment Page" &gt; "Summary Page"</p>

User interface elements are described below:

UI Element (A–Z)	Description
<b>Discover Network Devices in Client IP Ranges</b>	<p>Select this check box to use SNMP to discover network nodes that are SNMP enabled.</p> <p>Only applicable if <b>Client</b> is the <b>range</b> type.</p>
<b>IP Ping Sweep Strategy for Data Center Ranges</b>	<p>Defines the strategy for discovering IP addresses using the ICMP protocol.</p> <p>Select one of the following options:</p> <ul style="list-style-type: none"> <li>• <b>Ping all IPs within the ranges of the Management Zone</b></li> <li>• <b>Ping only discovered Class C Networks</b></li> <li>• <b>Ping only discovered Class B or C Networks</b></li> </ul> <p><b>Note:</b> These options apply only to ranges that are configured as <b>Data Center</b> type.</p>
<b>IP/MAC Address Harvesting</b>	<p>Uses the SNMP protocol to connect to network devices to read ARP cache tables and then build associations between IP addresses and MAC addresses.</p> <p>If this check box is selected, enter a delay (in milliseconds) between SNMP request messages.</p> <p>If this option is selected, also select <b>Discover Network Devices in Client IP Ranges</b>.</p>
<b>Microsoft Windows Domains</b>	<p>Select this check box to discover Windows domain controllers.</p>

UI Element (A–Z)	Description
<b>Resolve DNS Names</b>	<p>Select this check box to resolve DNS names to IP addresses.</p> <p>If this check box is selected, enter fully qualified names or IP addresses of DNS servers you want to use for resolution. Use commas to separate each server.</p> <p><b>Note:</b> If the check box is selected, but no name is entered in the field, the DNS server that is configured for the Data Flow Probe is used.</p>

## Universal Discovery Agent Deployment Page

Enables you to make Universal Discovery Agent configurations for the Infrastructure Discovery Activity.

<b>Important Information</b>	<ul style="list-style-type: none"> <li>• Configure parameters for Universal Discovery Agents if you are using the activity to install or upgrade Universal Discovery Agents.</li> <li>• The maximum transfer rate for upload and downloading files to and from the discovery node is defined in the <b>shellGlobalBandwidthLimit</b> parameter in the globalSettings.xml file. (<b>Data Flow Management &gt; Adapter Management &gt; Resources &gt; Packages &gt; AutoDiscoveryContent &gt; Configuration Files</b> )</li> </ul> <p>Alternatively, you can view or set this value in the <b>Shell Bandwidth Limit</b> setting of the Management Zone General Settings. For details, see the section describing how to configure global settings for Management Zones in the <i>HP Universal CMDB Data Flow Management Guide</i>.</p> <ul style="list-style-type: none"> <li>• General information about the activity is available in "<a href="#">Infrastructure Discovery Activity</a>" on page 23</li> </ul>
<b>Wizard Map</b>	<p>The "<a href="#">Infrastructure Discovery Activity</a>" contains:</p> <p>"<a href="#">Activity Name Page</a>" &gt; "<a href="#">Define Credentials Page</a>" &gt; "<a href="#">Preferences Page</a>" &gt; <b>Universal Discovery Agent Deployment Page</b> &gt; "<a href="#">Schedule Deployment Page</a>" &gt; "<a href="#">Summary Page</a>"</p>

User interface elements are described below:

UI Element (A–Z)	Description
<b>Agent Deployment</b>	<p>Select the check box for the type of Universal Discovery Agent deployment:</p> <p><b>Note:</b> If you want to run discovery without the Universal Discovery Agent, do not select any of these options .</p> <ul style="list-style-type: none"> <li>• <b>Install UD Agent.</b> Installs an Agent if no agent is currently installed.</li> <li>• <b>Update UD Agent.</b> Upgrades an Agent that is currently installed. If a new Content Pack was recently installed on the Data Flow Probe, the version information for the new Agent is compared to the version of the Agent that is currently installed on the discovery node.</li> </ul> <p><b>Note:</b> When migrating a DDMI Agent to a UD Agent, use the <b>Migrate DDMI Agent</b> option.</p> <ul style="list-style-type: none"> <li>• <b>Uninstall UD Agent.</b> Uninstalls an Agent.</li> <li>• <b>Migrate DDMI Agent.</b> Uninstalls a DDMI Agent and then installs a UD Agent.</li> </ul> <p>Upgrading or uninstalling the Agent requires the same Universal Discovery (UD) Agent protocol credential that you used when you installed the Agent. For more information, see the section describing Universal Discovery Agent Certificates in the <i>HP Universal CMDB Data Flow Management Guide</i>.</p>
<b>Call Home Request Frequency</b>	<p>Enter the frequency that the Agent contacts the Data Flow Probe for Call Home.</p> <p>Measured in days.</p>
<b>Credential for UD Agent Installation</b>	<p>Select a credential to use. If no credentials are displayed, go back to the "<a href="#">Define Credentials Page</a>" on page 25 and add a new Universal Discovery Agent credential.</p> <p><b>Note:</b> The credential defined here is used to manage Universal Discovery Agent deployment (install/update/uninstall) only. UD credentials for running discovery jobs are defined on the "<a href="#">Define Credentials Page</a>" on page 25.</p> <p>For a list of protocols, see the section about Supported Protocols in the <i>HP Universal CMDB Discovery and Integration Content Guide - Supported Content</i> document.</p>

UI Element (A–Z)	Description
<b>Install UD Agent to run under root account on UNIX machines</b>	<p>When selected, the UD Agent is deployed (installed or updated) to run under the root account (on UNIX systems).</p> <p><b>Note:</b></p> <ul style="list-style-type: none"> <li>• This option is relevant to deployment of the UD Agent on UNIX systems only.</li> <li>• To run the UD Agent under the root account, you must deploy the UD Agent under a root user, or under a non-root user with sudo permissions. If a root user is used for deployment, the agent will automatically run under the root user account.</li> <li>• To run the UD Agent under a non-root account, clear this option and ensure that you are deploying the UD Agent under a non-root user with sudo privileges. In this case, the UD Agent will be deployed to run under the same non-root user account that was used to deploy it. For more details, see the section describing how to deploy the UD Agent to run under a non-root account on UNIX systems in the <i>HP Universal CMDB Data Flow Management Guide</i>.</li> </ul>
<b>Primary Call Home Probe Address</b>	<p>Enter a primary address for the Data Flow Probe server that you want to use for Call Home.</p> <p>Use one of the following formats:</p> <ul style="list-style-type: none"> <li>• http://1.1.1.1:80</li> <li>• http://myhost:80</li> <li>• myhost</li> </ul> <p>For more information, see the section describing Call Home in the <i>HP Universal CMDB Data Flow Management Guide</i>.</p> <p><b>Note:</b> Ensure that you select the <b>IP to MAC Harvest</b> option in the "<a href="#">Preferences Page</a>" on page 28.</p>
<b>Secondary Call Home Probe Address</b>	<p>Enter a secondary address for the Data Flow Probe server that you want to use for Call Home.</p> <p>Use one of the following formats:</p> <ul style="list-style-type: none"> <li>• http://1.1.1.1:80</li> <li>• http://myhost:80</li> <li>• myhost</li> </ul>




UI Element (A–Z)	Description
<b>Software Utilization Period</b>	<p>Select this check box to enable software utilization.</p> <p>If this option is selected, choose the time range for the data from the following:</p> <ul style="list-style-type: none"><li>• <b>31 days</b></li><li>• <b>90 days</b></li><li>• <b>365 days</b></li></ul> <p>For more information, see the section describing Software Utilization in the <i>HP Universal CMDB Data Flow Management Guide</i>.</p>

## Schedule Deployment Page

Enables you to define a schedule for the Infrastructure Discovery activity.

<b>Important Information</b>	<p>Enables you to configure parameters and select time templates relating to the time and frequency that the Infrastructure Discovery activity runs.</p> <p>General information about the activity is available in "<a href="#">Infrastructure Discovery Activity</a>" on page 23</p>
<b>Wizard Map</b>	<p>The "Infrastructure Discovery Activity" contains:</p> <p>"<a href="#">Activity Name Page</a>" &gt; "<a href="#">Define Credentials Page</a>" &gt; "<a href="#">Preferences Page</a>" &gt; "<a href="#">Universal Discovery Agent Deployment Page</a>" &gt; <b>Schedule Deployment Page</b> &gt; "<a href="#">Summary Page</a>"</p>

User interface elements are described below:

UI Element (A–Z)	Description
	Click the <b>time templates</b> icon to open the <b>Time Templates</b> dialog box. Enables you to define a custom schedule to run the discovery activity. For more information, see the <i>HP Universal CMDB Data Flow Management Guide</i> . For more information, see the <i>HP Universal CMDB Data Flow Management Guide</i> .
<b>Allow Discovery to run at</b>	<p>Select the time template that you want to use to schedule the Infrastructure Discovery activity.</p> <p>If you want to see details of a time template, click the time clock icon to open the Time Templates dialog box.</p>
<b>End by</b>	Choose the date and time when the Infrastructure Discovery activity must finish running by selecting the <b>Start at</b> check box, opening the calendar, and then selecting the date and time.
<b>Repeat Every</b>	<p>Select how often the Infrastructure Discovery job runs.</p> <p>Type or select a value for the interval between successive runs and choose the required unit of time (hours, days, or weeks).</p>
<b>Start at</b>	Choose the date and time when the Infrastructure Discovery activity must begin running by selecting the <b>Start at</b> check box, opening the calendar, and then selecting the date and time.

## Summary Page

Enables you to review all configurations and parameter values before running the Infrastructure Discovery activity.

<b>Important Information</b>	<p>Review configurations and decide whether to run the activity or go back and make changes.</p> <p>General information about the activity is available in "Infrastructure Discovery Activity" on page 23</p>
<b>Wizard Map</b>	<p>The "Infrastructure Discovery Activity" contains:</p> <p>"Activity Name Page" &gt; "Define Credentials Page" &gt; "Preferences Page" &gt; "Universal Discovery Agent Deployment Page" &gt; "Schedule Deployment Page" &gt; <b>Summary Page</b></p>

User interface elements are described below:

<b>UI Element (A–Z)</b>	<b>Description</b>
<b>Activate Activity</b>	<p>Activates the activity upon creating it.</p> <p><b>Note:</b> If you do not want to activate the activity at this stage, you can activate it later from the Zone-Based Discovery view.</p>
<b>Finish</b>	<ul style="list-style-type: none"> <li>• <b>Creation mode:</b> Closes the wizard and adds the activity to the Management Zone tree.</li> <li>• <b>Note:</b> If you selected <b>Activate Activity</b>, the activity is activated upon creation.</li> <li>• <b>Edit mode</b> Saves the changes to the activity.</li> <li>• <b>Note:</b> You cannot activate the activity from the wizard in Edit mode.</li> </ul>


# Chapter 4

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## Inventory Discovery Activity

Enables you to configure parameters for the Inventory Discovery activity. Depending on the configuration, the Scanner may be deployed to the discovery nodes that were discovered during the Infrastructure Discovery activity.

**Tip:** Run the Infrastructure Discovery activity before the Inventory Discovery activity.

<b>To access</b>	<p>In <b>Data Flow Management &gt; Discovery Control Panel &gt; Zone-Based Discovery &gt; Management Zones</b>:</p> <ol style="list-style-type: none"><li>1. Select the appropriate <b>Management Zone</b></li><li>2. Click the  button.</li><li>3. Select <b>New Discovery Activity &gt; Inventory</b></li></ol> <p>The <b>New Inventory Discovery Activity</b> dialog box appears.</p>
<b>Important Information</b>	For more information, hold the pointer over a question mark icon.
<b>Wizard Map</b>	<p>The <b>Inventory Discovery Activity</b> contains:</p> <p>"Activity Name Page" &gt; "Preferences Page" &gt; "Virtualization Page" &gt; "Schedule Deployment Page" on page 46 &gt; "Summary Page" on page 47</p>

## Activity Name Page

Enables you to configure a name for the Inventory Discovery activity.


<b>Important Information</b>	<ul style="list-style-type: none"> <li>Enter a unique name for the Inventory Discovery activity.</li> <li>General information about the activity is available in <a href="#">"Inventory Discovery Activity" on previous page</a></li> </ul> <p><b>Note:</b> This screen is not displayed when editing an Inventory Discovery activity.</p>
<b>Wizard Map</b>	<p>The <a href="#">"Inventory Discovery Activity"</a> contains:</p> <p><a href="#">Activity Name Page</a> &gt; <a href="#">"Preferences Page"</a> &gt; <a href="#">"Virtualization Page"</a> &gt; <a href="#">"Schedule Deployment Page"</a> &gt; <a href="#">"Summary Page"</a></p>

User interface elements are described below:

UI Element (A–Z)	Description
<b>Activity Name</b>	<p>Enter a unique name for the Inventory Discovery activity.</p> <p><b>Note:</b> Names should consist only of alphanumeric characters (a-z, A-Z, 0-9), hyphens (-), and periods (.). Names appear in some reports. Additionally, names may also appear in the <b>Updated by</b> attribute in the <b>CI Properties</b> page if a CI was updated by a job. Names can be changed at any time, however, the <b>Job ID</b> attribute that is associated with the job name does not change.</p>

## Preferences Page

Enables you to select discovery types and options for the Inventory Discovery activity.

<b>Important information</b>	<ul style="list-style-type: none"> <li>General information about the activity is available in "Inventory Discovery Activity" on page 36</li> <li>Click  to list options for the selected discovery type.</li> </ul>
<b>Wizard map</b>	<p>The "Inventory Discovery Activity" contains:</p> <p>"Activity Name Page" &gt; <b>Preferences Page</b> &gt; "Virtualization Page" &gt; "Schedule Deployment Page" &gt; "Summary Page"</p>


### Scanner-Based Inventory Discovery

Enables you to select detailed discovery options for scanner-based inventory discovery.

<b>Important information</b>	<p>The maximum transfer rate for upload and downloading files to and from the discovery node is defined in the <b>shellGlobalBandwidthLimit</b> parameter in the globalSettings.xml file. (<b>Data Flow Management &gt; Adapter Management &gt; Resources &gt; Packages &gt; AutoDiscoveryContent &gt; Configuration Files</b>)</p> <p>Alternatively, you can view or set this value in the <b>Shell Bandwidth Limit</b> setting of the Management Zone General Settings. For details, see the section describing how to configure global settings for Management Zones in the <i>HP Universal CMDB Data Flow Management Guide</i>.</p>
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User interface elements are described below:

UI Element	Description
<b>Scanner Based Inventory Discovery</b>	Select to configure scanner-based inventory discovery.
<b>Allow Scanner Downgrade</b>	<p>Specifies whether the scanner can be downgraded to an earlier version.</p> <p><b>Note:</b> Select this option only if there are problems with the scanner and you want to revert to an earlier version.</p> <p><b>Default:</b> Enabled</p>
<b>Allow Scanner Upgrade</b>	<p>Specifies whether the Scanner can be upgraded if a newer version is available.</p> <p><b>Note:</b> Select if you plan to upgrade to a new Content Pack and want to test scanners before deployment. For more information on Content Packs, see the <a href="https://hpln.hp.com/group/universal-discovery/">Universal Discovery Community</a> web site (https://hpln.hp.com/group/universal-discovery/).</p> <p><b>Default:</b> Enabled</p>


UI Element	Description
<b>Download Scan File Before Execution</b>	<p>Specifies whether the Data Flow Probe checks if the scan file on the discovery node is more current than the one on the Data Flow Probe server. If the file on the discovery node is newer, the scan file is downloaded.</p> <p><b>Note:</b> Select if the Management Zone contains many mobile devices.</p> <p><b>Default:</b> Enabled</p>
<b>Remove Scan Data</b>	<p>Specifies whether scan data is deleted from the discovery node immediately after the scan file has been copied to the Data Flow Probe. Removed files include the scanner executable, configuration files, and scan files.</p> <p><b>Note:</b></p> <ul style="list-style-type: none"> <li>Do not use together with the <b>Delta Scanning</b> option that is configured in the <b>Scanner Generator</b>. For more information, see the section that describes the Scanner Generator in the <i>HP Universal CMDB Data Flow Management Guide</i>.</li> <li>Select when performing a one-time inventory discovery.</li> </ul>
<b>Run Pre/Post Scan Scripts</b>	<p>Specifies whether to run scripts that are configured to run on discovery nodes before and after scanning.</p> <p><b>Note:</b> Scripts are global files and shared among Management Zones.</p>
<b>Script Maximum Run Time</b>	<p>Select or type the maximum amount of time UCMDB runs scripts.</p> <p><b>Note:</b> Option is available only when <b>Run Pre/Post Scan Scripts</b> is selected.</p> <p><b>Default:</b> 5 minutes</p>
	<p>Opens the Pre/Post Scan Script Editor dialog box, enabling you to customize scripts that run before and after scanning on discovery nodes. For more information, see the section that describes how to edit pre and post scan scripts in the <i>HP Universal CMDB Data Flow Management Guide</i>.</p>

### Scanner Configuration

Enables you to select detailed preferences relating to scanner-based inventory discovery.

<b>Important information</b>	<ul style="list-style-type: none"> <li>Select preferences relating to the scanner configuration file (.cxz) that controls the Inventory Discovery workflow.</li> <li>Click <input type="checkbox"/> to list the scanner configuration options when scanner-based inventory discovery is selected.</li> </ul>
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User interface elements are described below:

UI Element	Description
<p><b>Use One Scanner Configuration for All Platforms</b></p>	<p>Click to use the same scanner configuration file for all platforms. In the file name box, select the file you want to use.</p> <p><b>Note:</b> You can create a new configuration file by using the Scanner Generator by clicking <b>New/Edit Scanner Configuration</b>.</p>
<p><b>Standalone Scanner Configuration for Each Platform</b></p>	<p>Click to specify the configuration file that you want to use for each platform. In each file name box, select a file.</p> <p><b>Note:</b> You can create a new configuration file by using the Scanner Generator by clicking <b>New/Edit Scanner Configuration</b>.</p>
	<p>Starts the Scanner Generator to create a scanner configuration file.</p> <p>For more information about the Scanner Generator, see the section describing the Scanner Generator in the <i>HP Universal CMDB Data Flow Management Guide</i>.</p>



**Mapping Options**




Enables you to select detailed preferences related to mapping data to UCMDB for scanner-based inventory discovery.

<b>Important information</b>	<ul style="list-style-type: none"> <li>• Select options that send software data that is collected by the Scanner and contained in scan files to UCMDB.</li> <li>• Click  to list the mapping options when scanner-based inventory discovery is selected.</li> <li>• When writing regular expressions, observe the following guidelines: Enter a semicolon-separated regular expression. The following attributes are available: <b>name</b> <b>discovered_vendor</b> <b>version</b> <b>description</b> The dot character is allowed. For example, "a.c" matches "abc". Additionally, the asterisk character is allowed. For example, "ab*c" matches "ac", "abc", and "abbbc". For example, assume you type the following string (ignore quotes): "name=my.*;discovered_vendor=HP;version=1.*;description=UCMDB". In this example, applications are included or excluded if the application name begins with the characters "my", the vendor name matches "HP" exactly, the version number begins with "1", and the description string matches "UCMDB" exactly.  For more information, see the section describing regular expressions in the <i>HP Universal CMDB Modeling Guide</i>.</li> </ul>
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User interface elements are described below:

UI Element	Description
	Click to open the <b>Hardware Mapping Configuration</b> wizard where you can configure mappings between scan file attributes and UCMDB CIs. For more information, see the section that describes the Hardware Mapping Configuration wizard in the <i>HP Universal CMDB Data Flow Management Guide</i> .
	Click <b>Software Recognition Configuration</b> to open the <b>XML Enricher</b> where you can configure options for software recognition and for software utilization processing. For more information about software recognition configuration, see the section describing configuration of the XML Enricher in the <i>HP Universal CMDB Data Flow Management Guide</i> .


UI Element	Description
	<p>Click to restore the screen to the default values.</p> <p><b>Caution:</b>All changes are lost.</p>
<p><b>Detailed Node Data (Configuration Document)</b></p>	<p>Select this check box to send data about personalized configurations. For example, environment variables.</p>
<p><b>Model Per User Data When Number of User is at Least</b></p>	<p>In the <b>Users</b> box, type or select the minimum numbers of users of an application to map utilization data.</p> <p><b>Note:</b> If the number of software users is less than the value that is entered, per-user software utilization data is not sent to UCMDB.</p>
<p><b>Normalized Applications-Exclude</b></p>	<p>Names of installed applications which are contained in the Normalized section of the scan file that you do not want to send to UCMDB. Use a regular expression. For more information on how to create regular expressions, see <a href="#">"Important information" on previous page</a>.</p>
<p><b>Normalized Applications-Include</b></p>	<p>Names of installed applications which are contained in the Normalized section of the scan file that you want to send to UCMDB. If this field is blank, all installed applications that are detected are included. Use a regular expression For more information on how to create regular expressions, see <a href="#">"Important information" on previous page</a>.</p>
<p><b>Normalized Installed Software</b></p>	<p>Select this check box to send data about installed software applications that are detected in the file system of the discovery node. If this check box is selected, more options are displayed. Normalized application data is contained in the Normalized section of the scan file.</p> <p><b>Note:</b> The Software Application Index (SAI) is used to generate normalized installed software information. For more information, see the section describing SAIs in the <i>HP Universal CMDB Data Flow Management Guide</i>.</p>

UI Element	Description
<b>Partially Recognized Applications</b>	<p>Select this check box to parse and send information about software that is only partially matched using the SAI. This may indicate that a different version of the application might be installed.</p> <p><b>Default:</b> Enabled</p> <p><b>Note:</b></p> <ul style="list-style-type: none"> <li>• Use when discovered applications are only partially matched.</li> <li>• Partial recognition results should be reviewed to ensure accuracy and may in some cases result in customers deciding to add new entries to their SAI.</li> </ul>
<b>Raw OS Installed Software</b>	<p>Select this check box to send data about installed applications that are known to the operating system of the discovery node. For Windows computers, it collects data about software that is listed in the <b>Control Panel &gt; Add/Remove Programs</b> or <b>Programs and Features</b>. For UNIX computers, it collects data about software from the <b>system package manager</b>.</p>
<b>Raw OS Installed Software-Exclude</b>	<p>Use a regular expression to enter names of installed applications which are contained in the Raw OS section of the scan file that you do not want to send to UCMDB. If this field is blank, all installed applications are excluded.</p> <p>For more information on how to create regular expressions, see <a href="#">"Important information" on page 41</a>.</p>
<b>Raw OS Installed Software-Include</b>	<p>Use a regular expression to enter names of installed applications which are contained in the Raw OS section of the scan file that you want to send to UCMDB.</p> <p>If this field is blank, all installed applications are excluded. However, if this field is blank and applications are listed in the <b>Normalized Applications-Include</b> setting, the included applications are added.</p> <p>For more information on how to create regular expressions, see <a href="#">"Important information" on page 41</a>.</p>

UI Element	Description
<b>Report Free Software</b>	Specifies whether to report installed applications that are associated with free licenses to UCMDB.  <b>Note:</b> Installed applications that are associated with unknown or with commercial licenses are reported to UCMDB by default.  <b>Default:</b> Enabled
<b>Services (Daemons)</b>	Select this check box to send data about services and daemons on the discovery node.
<b>Software Utilization</b>	Select this check box to enable mapping of software utilization information. This information is required for recognition of used applications and executables that were executed. For more information, see the section describing Software Utilization in the <i>HP Universal CMDB Data Flow Management Guide</i> .

### Basic Inventory Discovery Options

Enables you to select detailed preferences for the basic discovery option.


<b>Important information</b>	<ul style="list-style-type: none"> <li>Select preferences relating to the type of information that is collected during a script-based discovery. This option is best suited for data center environments.</li> <li>Click  to list the options when basic inventory discovery is selected.</li> </ul>
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User interface elements are described below:



UI Element (A–Z)	Description
<b>Basic Inventory Discovery (Data Center only)</b>	Select to use Jython scripts that run on the Data Flow Probe. These scripts connect to discovery nodes, run commands, and then gather discovery information.
<b>Host Information</b>	Select the check box for the information that you want to discover. <ul style="list-style-type: none"> <li>CPUs</li> <li>Disks</li> <li>Installed Software</li> <li>Memory</li> <li>Processes</li> <li>Services</li> <li>Shares</li> </ul>

## Virtualization Page

Enables you to select detailed preferences for the virtualization discovery option.

<b>Important information</b>	<ul style="list-style-type: none"> <li>• General information about the activity is available in "<a href="#">Inventory Discovery Activity</a>" on page 36</li> <li>• Select preferences relating to discovering virtual topologies using scanner-based inventory discovery or basic inventory discovery.</li> <li>• Click  to list the options that are available.</li> </ul>
<b>Wizard map</b>	<p>The "<a href="#">Inventory Discovery Activity</a>" contains:</p> <p><a href="#">"Activity Name Page"</a> &gt; <a href="#">"Preferences Page"</a> &gt; <b>Virtualization Page</b> &gt; <a href="#">"Schedule Deployment Page"</a> &gt; <a href="#">"Summary Page"</a></p>

User interface elements are described below:


UI Element	Description
<b>Include Virtualization Topology</b>	<p>Select to discover virtualization topologies for the following platforms:</p> <ul style="list-style-type: none"> <li>• VMWare</li> <li>• Microsoft Hyper-V</li> <li>• Solaris Zones</li> </ul> <p><b>Note:</b></p> <ul style="list-style-type: none"> <li>▪ Only shallow topologies are discovered.</li> <li>▪ Either scanner-based inventory discovery or basic inventory discovery must be selected.</li> </ul>
<b>VMWare SDK Libraries</b>	<p>Select to include VMWare SDK libraries.</p> <p><b>Note:</b> Only Jar files are imported.</p>
	<p>Opens the Import File dialog box where you select the file that you want to import.</p> <p><b>Note:</b> You can import many files.</p>
	<p>Clears all of the files.</p>

## Schedule Deployment Page

Enables you to define a schedule for the Inventory Discovery activity.

<b>Important Information</b>	General information about the activity is available in " <a href="#">Inventory Discovery Activity</a> " on page 36
<b>Wizard Map</b>	The " <a href="#">Inventory Discovery Activity</a> " contains: <a href="#">"Activity Name Page"</a> > <a href="#">"Preferences Page"</a> > <a href="#">"Virtualization Page"</a> > <b>Schedule Deployment Page</b> > <a href="#">"Summary Page"</a>

User interface elements are described below:

UI Element (A–Z)	Description
	Click the <b>time templates</b> icon to open the <b>Time Templates</b> dialog box. Enables you to define a custom schedule to run the Inventory Discovery activity. For more information, see the <i>HP Universal CMDB Data Flow Management Guide</i> .
<b>Allow Discovery to run at</b>	Select the time template that you want to use to schedule the Inventory Discovery activity.
<b>End by</b>	Choose the date and time when the Inventory Discovery activity must finish running by selecting the <b>End by</b> check box, opening the calendar, and selecting the date and time.
<b>Repeat Every</b>	Select how often the Inventory Discovery job runs. Type or select a value for the interval between successive runs and choose the required unit of time (hours, days, or weeks).
<b>Start at</b>	Choose the date and time when the Inventory Discovery activity must begin running by selecting the <b>Start at</b> check box, opening the calendar, and selecting the date and time.

## Summary Page

Enables you to review all configurations and parameter values before running the Inventory Discovery activity.

<b>Important Information</b>	Review configurations and decide whether to run the activity or go back and make changes.  General information about the activity is available in "Inventory Discovery Activity" on page 36
<b>Wizard Map</b>	The "Inventory Discovery Activity" contains:  "Activity Name Page" > "Preferences Page" > "Virtualization Page" > "Schedule Deployment Page" > <b>Summary Page</b>

User interface elements are described below:


UI Element (A–Z)	Description
<b>Activate Activity</b>	Activates the activity upon creating it.  <b>Note:</b> If you do not want to activate the activity at this stage, you can activate it later from the Zone-Based Discovery view.
<b>Finish</b>	<ul style="list-style-type: none"> <li>• <b>Creation mode:</b> Closes the wizard and adds the activity to the Management Zone tree.  <b>Note:</b> If you selected <b>Activate Activity</b>, the activity is activated upon creation.</li> <li>• <b>Edit mode</b> Saves the changes to the activity.  <b>Note:</b> You cannot activate the activity from the wizard in Edit mode.</li> </ul>

## Chapter 5

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# JavaEE Software Configuration Discovery Activity

The JavaEE Software Configuration Discovery activity discovers detailed configuration information about your data center Java Enterprise Edition deployments.

<b>To access</b>	<p>In <b>Data Flow Management &gt; Discovery Control Panel &gt; Zone-Based Discovery &gt; Management Zones</b>:</p> <ol style="list-style-type: none"><li>1. Select the appropriate <b>Management Zone</b></li><li>2. Click the  button</li><li>3. Select <b>New Discovery Activity &gt; Software Configuration &gt; JavaEE</b></li></ol> <p>The <b>New JavaEE Software Configuration Discovery Activity</b> dialog box appears.</p>
<b>Important Information</b>	For more information, hold the pointer over a question mark icon.
<b>Wizard Map</b>	<p>The <b>JavaEE Software Configuration Discovery Activity</b> contains:</p> <p>"Activity Name Page" &gt; "Define Credentials Page" &gt; "JavaEE Port Scanning Page" &gt; "JavaEE Discovery by JMX Protocol Page" &gt; "JavaEE Discovery by Shell Protocol Page" &gt; "Schedule Discovery Page" &gt; "Summary Page"</p>



## Activity Name Page

Enables you to configure a name for the JavaEE Software Configuration Discovery activity.

<b>Important Information</b>	<ul style="list-style-type: none"> <li>Enter a unique name for the JavaEE Software Configuration Discovery activity.</li> <li>General information about the activity is available in "<a href="#">JavaEE Software Configuration Discovery Activity</a>".</li> </ul> <p><b>Note:</b> This screen is not displayed when editing a Basic Software Configuration Discovery activity.</p>
<b>Wizard Map</b>	<p>The "<a href="#">JavaEE Software Configuration Discovery Activity</a>" contains:</p> <p><b>Activity Name Page</b> &gt; "<a href="#">Define Credentials Page</a>" &gt; "<a href="#">JavaEE Port Scanning Page</a>" &gt; "<a href="#">JavaEE Discovery by JMX Protocol Page</a>" &gt; "<a href="#">JavaEE Discovery by Shell Protocol Page</a>" &gt; "<a href="#">Schedule Discovery Page</a>" &gt; "<a href="#">Summary Page</a>"</p>

User interface elements are described below:

<b>UI Element (A-Z)</b>	<b>Description</b>
<b>Activity Name</b>	<p>Enter a unique name for the JavaEE Software Configuration Discovery activity.</p> <p><b>Note:</b> Names should consist only of alphanumeric characters (a-z, A-Z, 0-9), hyphens (-), and periods (.). Names appear in some reports. Additionally, names may also appear in the <b>Updated by</b> attribute in the <b>CI Properties</b> page if a CI was updated by a job. Names can be changed at any time, however, the <b>Job ID</b> attribute that is associated with the job name does not change.</p>

## Define Credentials Page





Enables you to select and configure credentials for protocols that are used for discovery jobs.

<b>Important information</b>	<ul style="list-style-type: none"> <li>• Configure credentials depending on what must be discovered and which protocols are supported on your site's network.</li> <li>• Credentials for protocols that were configured during Data Flow Probe setup are displayed on this page. For more information, see the section describing setting up the Data Flow Probe in the <i>HP Universal CMDB Data Flow Management Guide</i>.</li> <li>• To see additional fields that are available for protocols, and for more information about field definitions for the Protocol Parameters dialog box, see the section about Supported Protocols in the <i>HP Universal CMDB Discovery and Integration Content Guide - Supported Content</i> document.</li> <li>• General information about the activity is available in "<a href="#">JavaEE Software Configuration Discovery Activity</a>".</li> </ul>
<b>Wizard map</b>	<p>The "<a href="#">JavaEE Software Configuration Discovery Activity</a>" contains:</p> <p>"<a href="#">Activity Name Page</a>" &gt; <b>Define Credentials Page</b> &gt; "<a href="#">JavaEE Port Scanning Page</a>" &gt; "<a href="#">JavaEE Discovery by JMX Protocol Page</a>" &gt; "<a href="#">JavaEE Discovery by Shell Protocol Page</a>" &gt; "<a href="#">Schedule Discovery Page</a>" &gt; "<a href="#">Summary Page</a>"</p>

### Protocol pane

Lists the protocols that are available for this activity.

User interface elements are described below:








UI Element	Description
	<b>Select All.</b> Selects all protocols or selects all credentials for a selected protocol.
	<b>Clear Selections.</b> Clears all selected credentials or clears all selected protocols.
	<b>Invert Selections.</b> All credentials or protocols that were selected are deselected, and all credentials or protocols that were not selected are selected.
	Indicates that a protocol has no credentials.

### Credentials pane

Lists the credentials for the selected protocol.

<b>Important information</b>	<ul style="list-style-type: none"> <li>To sort the credentials in a column in ascending or descending order, click the column header.</li> <li>To edit parameters of a credentials, double-click a credential to open the Protocol Parameters dialog box.</li> <li>When you right-click a credential, a menu is displayed. For more information about right-click menu options, see the section describing the Data Flow Probe Setup Window-Details pane in the <i>HP Universal CMDB Data Flow Management Guide</i>.</li> </ul>
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User interface elements are described below:

UI Element	Description
	<p><b>Create New Connection Details.</b> Opens the Protocol Parameters dialog box, enabling you to define credentials for the selected protocol.</p> <p>To determine which protocols require credentials for this activity, go to <b>Data Flow Management &gt; Discovery Control Panel &gt; Zone-Based Discovery</b> tab &gt; <b>Activity Jobs</b> tab. Ensure that you create credentials for all of the protocols in the <b>Protocol</b> pane for the activity.</p>
	<p><b>Remove Connection Details.</b> Removes the selected credential.</p>
	<p><b>Edit Connection Details.</b> Opens the Protocol Parameters dialog box, enabling you to edit the credentials for the selected protocol.</p>
	<p><b>Move Entry Up/Move Entry Down.</b> Enables you to move credentials up or down, enabling you to set the order in which selected credentials are used for the selected protocol.</p> <p><b>Note:</b> Moving credentials affects the value in the <b>Index</b> column.</p>
	<p><b>Select All.</b> Selects all protocols or selects all credentials for a selected protocol.</p>
	<p><b>Clear Selections.</b> Clears all selected credentials or clears all selected protocols.</p>
	<p><b>Invert Selections.</b> All credentials or protocols that were selected are deselected, and all credentials or protocols that were not selected are selected.</p>
<b>Selected</b>	Enables you to select credentials to use for the activity.
<b>Index</b>	Indicates the order in which the system selects credential instances to make a connection attempt. The lower the index, the higher the priority.
<b>Port Number</b>	The port number that is configured in the Protocol Parameters dialog box.
<b>User Label</b>	The description of the credential that is configured in the Protocol Parameters dialog box.



<b>UI</b>	
<b>Element</b>	<b>Description</b>
<b>User Name</b>	The description of the credential that is configured in the Protocol Parameters dialog box.
<b>Scope</b>	Indicates the Data Flow Probe that uses the selected credential. This value is configured in the Scope Definition dialog box. For more information, see the section describing the Scope Definition dialog box in the <i>HP Universal CMDB Data Flow Management Guide</i> .

## JavaEE Port Scanning Page

Enables you to configure the ports to be scanned.

<b>Important Information</b>	General information about the wizard is available in "JavaEE Software Configuration Discovery Activity".
<b>Wizard Map</b>	The "JavaEE Software Configuration Discovery Activity" contains: "Activity Name Page" > "Define Credentials Page" > <b>JavaEE Port Scanning Page</b> > "JavaEE Discovery by JMX Protocol Page" > "JavaEE Discovery by Shell Protocol Page" > "Schedule Discovery Page" > "Summary Page"

User interface elements are described below:

UI Element (A–Z)	Description
	<b>Add port.</b> Opens the <b>Chose TCP Ports to Scan</b> dialog box, enabling you to select ports to be scanned.
	<b>Remove Port.</b> Enables you to remove a selected port from the list.

## JavaEE Discovery by JMX Protocol Page

Enables you to select detailed preferences for the JavaEE Software Configuration Discovery activity using the JMX protocol.

<b>Important Information</b>	General information about the wizard is available in "JavaEE Software Configuration Discovery Activity".
<b>Wizard Map</b>	The "JavaEE Software Configuration Discovery Activity" contains: "Activity Name Page" > "Define Credentials Page" > "JavaEE Port Scanning Page" > <b>JavaEE Discovery by JMX Protocol Page</b> > "JavaEE Discovery by Shell Protocol Page" > "Schedule Discovery Page" > "Summary Page"

User interface elements are described below:

UI Element	Description
<b>Discover WebLogic Application Server</b>	<p>Select the check box to enable WebLogic Application Server discovery.</p> <p>Click the <input type="checkbox"/> button beside <b>Discovery Options</b> to display the available options. Select the check box for the versions to be discovered. Click <b>Import file...</b> to open a browse window. Browse to the appropriate WebLogic JAR file, as listed below.</p> <ul style="list-style-type: none"> <li>• <b>WebLogic version 6.x</b></li> <li>• <b>WebLogic version 7.x</b></li> <li>• <b>WebLogic version 8.x</b></li> </ul> <p>For these versions, browse to:</p> <ul style="list-style-type: none"> <li>▪ weblogic.jar</li> </ul> <p>For an SSL based discovery, select wlcipher.jar, license.bea, and the client trust store JKS file. (For example, DemoTrust.jks.)</p> <ul style="list-style-type: none"> <li>• <b>WebLogic version 9.x</b></li> <li>• <b>WebLogic version 10.x</b></li> </ul> <p>For these versions, browse to:</p> <ul style="list-style-type: none"> <li>▪ wlclient.jar</li> <li>▪ wljmxclient.jar</li> </ul> <p>For an SSL based discovery, select wlcipher.jar and the client trust store JKS file. (For example, DemoTrust.jks.)</p>

UI Element	Description
<b>Discover WebSphere Application Server</b>	<p>Select the check box to enable WebSphere Application Server discovery.</p> <p>Click the <input type="checkbox"/> button beside <b>Discovery Options</b> to display the available option:</p> <ul style="list-style-type: none"><li>• <b>WebSphere JKS</b></li></ul> <p>For secure connection to WebSphere, select this option and click <b>Import file...</b> to open a browse window. Browse to the appropriate JKS file.</p>
<b>Discover JBoss Application Server</b>	<p>Select the check box to enable JBoss Application server discovery.</p> <p>Click the <input type="checkbox"/> button beside <b>Discovery Options</b> to display the available options. Select the check box for the versions to be discovered. Click <b>Import file...</b> to open a browse window. Browse to the <b>jbossall-client.jar</b> JBOSS JAR file.</p>

## JavaEE Discovery by Shell Protocol Page

Enables you to select detailed preferences for the JavaEE Software Configuration Discovery activity using Shell protocols (SSH, Telnet, NTCMD, or Universal Discovery).

<b>Important Information</b>	General information about the wizard is available in "JavaEE Software Configuration Discovery Activity".
<b>Wizard Map</b>	The "JavaEE Software Configuration Discovery Activity" contains: "Activity Name Page" > "Define Credentials Page" > "JavaEE Port Scanning Page" > "JavaEE Discovery by JMX Protocol Page" > <b>JavaEE Discovery by Shell Protocol Page</b> > "Schedule Discovery Page" > "Summary Page"

User interface elements are described below:

UI Element	Description
<b>Discover WebLogic Application Server</b>	Select the check box to enable WebLogic Application Server discovery.
<b>Discover WebSphere Application Server</b>	Select the check box to enable WebSphere Application Server discovery.
<b>Discover JBoss Application Server</b>	Select the check box to enable JBoss Application server discovery.
<b>Discover Oracle Application Server version 10g</b>	Select the check box to enable Oracle Application Server version 10g discovery.
<b>Discover Apache Tomcat Application Server</b>	Select the check box to enable Apache Tomcat Application server discovery.
<b>Discover Glassfish Application Server</b>	Select the check box to enable Glassfish Application server discovery.  Click the <input type="checkbox"/> button beside <b>Discovery Options</b> to display the available option: <ul style="list-style-type: none"> <li>• <b>Report Administrative Application</b> Select this check box to enable reporting of administrative applications.</li> </ul>




## Schedule Discovery Page

Enables you to define a schedule for the JavaEE Software Configuration Discovery activity.

<b>Important Information</b>	General information about the activity is available in "JavaEE Software Configuration Discovery Activity".
<b>Wizard Map</b>	The "JavaEE Software Configuration Discovery Activity" contains: "Activity Name Page" > "Define Credentials Page" > "JavaEE Port Scanning Page" > "JavaEE Discovery by JMX Protocol Page" > "JavaEE Discovery by Shell Protocol Page" > <b>Schedule Discovery Page</b> > "Summary Page"

User interface elements are described below:

UI Element (A–Z)	Description
	Click the <b>time templates</b> icon to open the <b>Time Templates</b> dialog box. Enables you to define a custom schedule to run the discovery activity. For more information, see the <i>HP Universal CMDB Data Flow Management Guide</i> .
<b>Allow Discovery to run at</b>	Select the time template that you want to use to schedule the discovery activity.
<b>End by</b>	Choose the date and time when the discovery activity must finish running by selecting the <b>End by</b> check box, opening the calendar, and selecting the date and time.
<b>Repeat Every</b>	Select how often the job runs. Type or select a value for the interval between successive runs and choose the required unit of time (hours, days, or weeks).
<b>Start at</b>	Choose the date and time when the discovery activity must begin running by selecting the <b>Start at</b> check box, opening the calendar, and selecting the date and time.

## Summary Page

Enables you to review all configurations and parameter values before running the JavaEE Software Configuration Discovery activity.

<b>Important Information</b>	Review configurations and decide whether to run the activity or go back and make changes.  General information about the activity is available in " <a href="#">JavaEE Software Configuration Discovery Activity</a> ".
<b>Wizard Map</b>	The "JavaEE Software Configuration Discovery Activity" contains:  "Activity Name Page" > "Define Credentials Page" > "JavaEE Port Scanning Page" > "JavaEE Discovery by JMX Protocol Page" > "JavaEE Discovery by Shell Protocol Page" > "Schedule Discovery Page" > <b>Summary Page</b>

User interface elements are described below:

UI Element (A–Z)	Description
<b>Activate Activity</b>	Activates the activity upon creating it.  <b>Note:</b> If you do not want to activate the activity at this stage, you can activate it later from the Zone-Based Discovery view.
<b>Finish</b>	<ul style="list-style-type: none"> <li>• <b>Creation mode:</b> Closes the wizard and adds the activity to the Management Zone tree.  <b>Note:</b> If you selected <b>Activate Activity</b>, the activity is activated upon creation.</li> <li>• <b>Edit mode:</b> Saves the changes to the activity.  <b>Note:</b> You cannot activate the activity from the wizard in Edit mode.</li> </ul>