



HP Universal CMDB

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Discovery and Integrations Content Guide - Discovery Activities

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Contents


| | |
|--|-----------|
| Chapter 1: Basic Software Configuration Discovery Activity | 7 |
| Activity Name Page | 7 |
| Preferences Page | 8 |
| Schedule Discovery Page | 9 |
| Summary Page | 10 |
| Chapter 2: Cloud Software Configuration Discovery Activity | 12 |
| Activity Name Page | 12 |
| Define Credentials Page | 13 |
| Discovery Preferences Page | 16 |
| Schedule Discovery Page | 17 |
| Summary Page | 18 |
| Chapter 3: Cluster Software Configuration Discovery Activity | 19 |
| Activity Name Page | 19 |
| Discovery Preferences Page | 21 |
| Schedule Discovery Page | 23 |
| Summary Page | 23 |
| Chapter 4: Database Software Configuration Discovery Activity | 25 |
| Activity Name Page | 25 |
| Define Credentials Page | 26 |
| Database Port Scanning | 28 |
| Discovery Preferences Page | 30 |
| Schedule Discovery Page | 32 |
| Summary Page | 34 |
| Chapter 5: Infrastructure Discovery Activity | 35 |
| Activity Name Page | 35 |

| | |
|---|-----------|
| Define Credentials Page | 36 |
| Preferences Page | 39 |
| Universal Discovery Agent Deployment Page | 41 |
| Schedule Deployment Page | 44 |
| Summary Page | 45 |
| Chapter 6: Inventory Discovery Activity | 47 |
| Activity Name Page | 47 |
| Preferences Page | 48 |
| Virtualization Page | 56 |
| Schedule Deployment Page | 58 |
| Summary Page | 59 |
| Chapter 7: JavaEE Software Configuration Discovery Activity | 60 |
| Activity Name Page | 60 |
| Define Credentials Page | 61 |
| JavaEE Port Scanning Page | 63 |
| JavaEE Discovery by JMX Protocol Page | 64 |
| JavaEE Discovery by Shell Protocol Page | 65 |
| Schedule Discovery Page | 67 |
| Summary Page | 68 |
| Chapter 8: Message Queue Software Configuration Discovery Activity | 69 |
| Activity Name Page | 69 |
| Define Credentials Page | 70 |
| Discovery Preferences Page | 73 |
| Schedule Discovery Page | 74 |
| Summary Page | 75 |
| Chapter 9: SAP Software Configuration Discovery Activity | 77 |
| Activity Name Page | 77 |
| Define Credentials Page | 78 |

| | |
|---|------------|
| SAP Ports Scanning Page | 80 |
| SAP Discovery by JCO Page | 81 |
| SAP Java Topology by JMX Page | 84 |
| SAP Topology by Shell Page | 85 |
| Schedule Discovery Page | 86 |
| Summary Page | 87 |
| Chapter 10: Virtualization Software Configuration Discovery Activity | 88 |
| Activity Name Page | 88 |
| Define Credentials Page | 89 |
| Discovery Preferences Page | 93 |
| Schedule Discovery Page | 95 |
| Summary Page | 96 |
| Chapter 11: Web Servers Software Configuration Discovery Activity | 97 |
| Activity Name Page | 97 |
| Discovery Preferences Page | 99 |
| Schedule Discovery Page | 100 |
| Summary Page | 101 |
| Send Documentation Feedback | 102 |

Chapter 1: 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.

| | |
|------------------------------|---|
| To access | Go to Data Flow Management > Universal Discovery > Zone-Based Discovery > Management Zones > select a Management Zone > click  > select New Discovery Activity > Software Configuration > Basic |
| Important Information | For more information, hold the pointer over a question mark icon. |
| Wizard Map | The Basic Software Configuration Discovery Activity 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.

| | |
|------------------------------|--|
| Important Information | <ul style="list-style-type: none"> • Enter a unique name for the Basic Software Configuration Discovery activity. • General information about the activity is available in "Basic Software Configuration Discovery Activity" above. <div style="background-color: #f0f0f0; padding: 5px; margin-top: 10px;"> <p>Note: This screen is not displayed when editing a Basic Software Configuration Discovery activity.</p> </div> |
| Wizard Map | The "Basic Software Configuration Discovery Activity" contains: Activity Name Page > "Preferences Page" > "Schedule Discovery Page" > "Summary Page" |

User interface elements are described below:

| UI Element (A-Z) | Description |
|----------------------|--|
| Activity Name | <p>Enter a unique name for the Basic Software Configuration activity.</p> <p>Note: 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 Updated by attribute on the CI Properties page if a CI was updated by a job. Names can be changed at any time, however, the Job ID 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.

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

User interface elements are described below:

| UI Element (A-Z) | Description |
|-------------------------------|---|
| Host TCP Connections | <p>Select this check box to discover TCP communication channels to map dependency relationships between hosts.</p> <p>Note: For this discovery to work, you must configure at least one of the credentials in the Infrastructure Discovery activity.</p> |
| Operating System Users | Select this check box to discover local operating system users. |
| Port Scanning | Select this check box to scan TCP ports to discover open server ports. |


| UI Element (A-Z) | Description |
|-------------------------|---|
| | <p>Under Choose TCP Ports for Port Scanning:</p> <ul style="list-style-type: none"> Click the  button to add new ports to the list. Click the  button to remove ports from the list. <p>Note: The scanning process may affect network performance. You may need to tell machine owners about Universal Discovery trying to connect to their machines.</p> |
| Running Software | Select this check box to discover running software. |

Schedule Discovery Page

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

| | |
|------------------------------|--|
| Important Information | General information about the activity is available in " Basic Software Configuration Discovery Activity " on page 7. |
| Wizard Map | The " Basic Software Configuration Discovery Activity " contains: "Activity Name Page" > "Preferences Page" > Schedule Discovery Page > "Summary Page" |

User interface elements are described below:

| UI Element (A-Z) | Description |
|---|--|
|  | Click the Time Templates icon to open the Time Templates 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> . |
| Allow Discovery to run at | Select the time template that you want to use to schedule the discovery activity. |
| End by | Choose the date and time when the discovery activity must finish running by selecting |

| UI Element (A-Z) | Description |
|---------------------|--|
| | the End by check box, opening the calendar, and selecting the date and time. |
| Repeat Every | 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). |
| Start at | Choose the date and time when the discovery activity must begin running by selecting the Start at 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.

| | |
|------------------------------|--|
| Important Information | Review configurations and decide whether to run the activity or go back and make changes. General information about the activity is available in " Basic Software Configuration Discovery Activity " on page 7. |
| Wizard Map | The " Basic Software Configuration Discovery Activity " contains: " Activity Name Page " > " Preferences Page " > " Schedule Discovery Page " > Summary Page |


User interface elements are described below:

| UI Element (A-Z) | Description |
|--------------------------|---|
| Activate Activity | Activates the activity upon creating it. Note: If you do not want to activate the activity at this stage, you can activate it later from the Zone-Based Discovery view. |
| Finish | <ul style="list-style-type: none"> Creation mode: Closes the wizard and adds the activity to the Management Zone tree. |

| UI Element (A-Z) | Description |
|-----------------------------|--|
| | <p>Note: If you selected Activate Activity, the activity is activated upon creation.</p> <ul style="list-style-type: none"><li>• Edit mode: Saves the changes to the activity. <p>Note: You cannot activate the activity from the wizard in Edit mode.</p> |

Chapter 2: Cloud Software Configuration Discovery Activity

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

| | |
|------------------------------|--|
| To access | Go to Data Flow Management > Universal Discovery > Zone-Based Discovery > Management Zones > select a Management Zone > click New Discovery Activity  > Software Configuration > Cloud |
| Important Information | For more information, hold the pointer over a question mark icon. |
| Wizard Map | The Cloud Software Configuration Discovery Activity contains: "Activity Name Page" > "Define Credentials Page" > "Discovery Preferences Page" > "Schedule Discovery Page" > "Summary Page" |

Activity Name Page

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

| | |
|------------------------------|--|
| Important Information | <ul style="list-style-type: none"> Enter a unique name for the Cloud Software Configuration Discovery activity. General information about the activity is available in "Cloud Software Configuration Discovery Activity" above. <div style="background-color: #f0f0f0; padding: 5px; margin-top: 10px;"> <p>Note: This screen is not displayed when editing a Cloud Software Configuration Discovery activity.</p> </div> |
| Wizard Map | The "Cloud Software Configuration Discovery Activity" contains: Activity Name Page > "Define Credentials Page" > "Discovery Preferences Page" > "Schedule Discovery Page" > "Summary Page" |

User interface elements are described below:

| UI Element (A-Z) | Description |
|----------------------|--|
| Activity Name | Enter a unique name for the Cloud Software Configuration activity. <div style="background-color: #f0f0f0; padding: 10px; margin-top: 10px;"> <p>Note: 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 Updated by attribute on the CI Properties page if a CI was updated by a job. Names can be changed at any time, however, the Job ID attribute that is associated with the job name does not change.</p> </div> |

Define Credentials Page





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

| | |
|------------------------------|--|
| Important information | <ul style="list-style-type: none"> Configure credentials depending on what must be discovered and which protocols are supported on your site's network. 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>. 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 UCMDB Discovery and Integrations Content Guide - Supported Content</i> document. General information about the activity is available in "Cloud Software Configuration Discovery Activity" on the previous page. |
| Wizard map | The " Cloud Software Configuration Discovery Activity " contains: "Activity Name Page" > Define Credentials Page > " Discovery Preferences Page " > " Schedule Discovery Page " > " Summary Page " |

Protocol pane

Lists the protocols that are available for this activity.

User interface elements are described below:




| UI Element | Description |
|---|---|
|  | Select All. Selects all protocols or selects all credentials for a selected protocol. |
|  | Clear Selections. Clears all selected credentials or clears all selected protocols. |
|  | Invert Selections. 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.

| | |
|------------------------------|---|
| Important information | <ul style="list-style-type: none"> To sort the credentials in a column in ascending or descending order, click the column header. To edit parameters of a credentials, double-click a credential to open the Protocol Parameters dialog box. 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>. |
|------------------------------|---|

User interface elements are described below:

| UI Element | Description |
|---|--|
|  | <p>Create New Connection Details. 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 Data Flow Management > Universal Discovery > Zone-Based Discovery tab > Activity Jobs tab. Ensure that you create credentials for all of the protocols in the Protocol pane for the activity.</p> |
|  | Remove Connection Details. Removes the selected credential. |
|  | Edit Connection Details. Opens the Protocol Parameters dialog box, enabling you to edit the credentials for the selected protocol. |

| UI Element | Description |
|---|---|
|  | <p>Move Entry Up/Move Entry Down. 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>Note: Moving credentials affects the value in the Index column.</p> |
|  | <p>Select All. Selects all protocols or selects all credentials for a selected protocol.</p> |
|  | <p>Clear Selections. Clears all selected credentials or clears all selected protocols.</p> |
|  | <p>Invert Selections. All credentials or protocols that were selected are deselected, and all credentials or protocols that were not selected are selected.</p> |
| <p>Selected</p> | <p>Enables you to select credentials to use for the activity.</p> |
| <p>Index</p> | <p>Indicates the order in which the system selects credential instances to make a connection attempt. The lower the index, the higher the priority.</p> |
| <p>User Label</p> | <p>The description of the credential that is configured in the Protocol Parameters dialog box.</p> |


Discovery Preferences Page

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

| | |
|------------------------------|--|
| Important Information | General information about the wizard is available in " Cloud Software Configuration Discovery Activity " on page 12. |
| Wizard Map | The " Cloud Software Configuration Discovery Activity " contains: "Activity Name Page" > "Define Credentials Page" > Discovery Preferences Page > "Schedule Discovery Page" > "Summary Page" |

User interface elements are described below:

| UI Element | Description |
|---|---|
| VMware vCloud SDK jar files | Select the check box and click Import file... to locate the appropriate JAR files, as follows: SDK-<version>\rest-api-schemas-<version>.jar SDK-<version>\vcloud-java-sdk-<version>.jar |
| Run VMware vCloud Director Discovery using direct connection URL | Select the check box to run VMware vCloud Director discovery by using direct connection URL. Click the <input type="checkbox"/> button beside Discovery Options to display the available options: <ul style="list-style-type: none"> • Report Powered off VMs Select to report powered off VMs. • Base URL Base URL to VMware Cloud Director. |
| Run VMware vCloud Director Discovery using vCloud API | Select the check box to run VMware vCloud Director discovery by using vCloud API. Click the <input type="checkbox"/> button beside Discovery Options to display the available option: <ul style="list-style-type: none"> • Report Powered off VMs Select to report powered off VMs. |


| UI Element | Description |
|--|---|
| Run Amazon Web Services Discovery | <p>Select the check box to run Amazon Web Services discovery.</p> <p>Click the  button beside Discovery Options to display the available option:</p> <ul style="list-style-type: none"> • Amazon WebServices SDK jar files <p>Select the check box and click Import file... to locate the aws-java-sdk-<code>{VERSION}</code>.jar file.</p> |

Schedule Discovery Page

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

| | |
|------------------------------|--|
| Important Information | General information about the activity is available in "Cloud Software Configuration Discovery Activity" on page 12. |
| Wizard Map | The "Cloud Software Configuration Discovery Activity" contains: "Activity Name Page" > "Define Credentials Page" > "Discovery Preferences Page" > Schedule Discovery Page > "Summary Page" |

User interface elements are described below:

| UI Element (A–Z) | Description |
|---|--|
|  | Click the Time Templates icon to open the Time Templates 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> . |
| Allow Discovery to run at | Select the time template that you want to use to schedule the discovery activity. |
| End by | Choose the date and time when the discovery activity must finish running by selecting the End by check box, opening the calendar, and selecting the date and time. |
| Repeat Every | 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). |

| UI Element (A-Z) | Description |
|------------------|--|
| Start at | Choose the date and time when the discovery activity must begin running by selecting the Start at 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 Cloud Software Configuration Discovery activity.


| | |
|------------------------------|---|
| Important Information | <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 "Cloud Software Configuration Discovery Activity" on page 12.</p> |
| Wizard Map | <p>The "Cloud Software Configuration Discovery Activity" contains:</p> <p>"Activity Name Page" > "Define Credentials Page" > "Schedule Discovery Page" > Summary Page</p> |

User interface elements are described below:

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

Chapter 3: Cluster Software Configuration Discovery Activity

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

| | |
|------------------------------|---|
| To access | Go to Data Flow Management > Universal Discovery > Zone-Based Discovery > Management Zones > select a Management Zone > click  > select New Discovery Activity > Software Configuration > Cluster |
| Important Information | For more information, hold the pointer over a question mark icon. |
| Wizard Map | The Cluster Software Configuration Discovery Activity contains: "Activity Name Page" > "Discovery Preferences Page" > "Schedule Discovery Page" > "Summary Page" |

Activity Name Page

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

| | |
|------------------------------|--|
| Important Information | <ul style="list-style-type: none"> • Enter a unique name for the Cluster Software Configuration Discovery activity. • General information about the activity is available in "Cluster Software Configuration Discovery Activity" above. <div style="background-color: #f0f0f0; padding: 5px; margin-top: 10px;"> <p>Note: This screen is not displayed when editing a Cluster Software Configuration Discovery activity.</p> </div> |
| Wizard Map | The "Cluster Software Configuration Discovery Activity" contains: Activity Name Page > "Discovery Preferences Page" > "Schedule Discovery Page" > "Summary Page" |

User interface elements are described below:

| UI Element (A-Z) | Description |
|-------------------------|--|
| Activity Name | <p>Enter a unique name for the Cluster Software Configuration activity.</p> <p>Note: 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 Updated by attribute on the CI Properties page if a CI was updated by a job. Names can be changed at any time, however, the Job ID attribute that is associated with the job name does not change.</p> |




Discovery Preferences Page

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

| | |
|------------------------------|--|
| Important Information | General information about the wizard is available in " Cluster Software Configuration Discovery Activity " on page 19. |
| Wizard Map | The " Cluster Software Configuration Discovery Activity " contains: " Activity Name Page " > Discovery Preferences Page > " Schedule Discovery Page " > " Summary Page " |

User interface elements are described below:

| UI Element | Description |
|---|--|
| Run Oracle Service Guard Discovery | <p>Select the check box to run Oracle Service Guard discovery.</p> <p>Click the <input type="checkbox"/> button beside Discovery Options to display the available options:</p> <ul style="list-style-type: none"> • ServiceGuard configuration filename Select to specify the configuration file name (file extension or file name). Default: ascii • ServiceGuard configuration filepath Select to specify the path to the configuration files. • Target machine codepage Select to specify the discovered machine code page. |
| Run Microsoft Cluster Discovery | <p>Select the check box to run Microsoft Cluster discovery.</p> <p>Click the <input type="checkbox"/> button beside Discovery Options to display the available option:</p> <ul style="list-style-type: none"> • Target machine codepage Select to specify the discovered machine code page. |
| Run Sun Cluster Discovery | Select the check box to run Sun Cluster discovery. |
| Run Symantec Veritas Cluster | Select the check box to run Symantec Veritas Cluster discovery. |


| UI Element | Description |
|---|---|
| <p>Discovery</p> | <p>Click the  button beside Discovery Options to display the available options:</p> <ul style="list-style-type: none"> • Path to Main.cf folder Select to specify the path to the Veritas Main.cf folder. • Target machine codepage Select to specify the discovered machine code page. |
| <p>Run IBM HACMP Application Discovery</p> | <p>Select the check box to run IBM HACMP Application discovery.</p> <p>Click the  button beside Discovery Options to display the available options:</p> <ul style="list-style-type: none"> • cldisp command path Select to specify the command path for cldisp. Use full path or root/path/cldisp. • cllsif command path Select to specify the command path for cllsif -c. Use full path or root/path/cllsif -c. <div style="background-color: #f0f0f0; padding: 5px; margin: 10px 0;"> <p>Note: Do not leave off -c.</p> </div> <ul style="list-style-type: none"> • Volume group command Select to specify the actual command to use for gathering information about a volume group (lspv -p for AIX, lvdisplay for Linux). |
| <p>Run IBM HACMP Topology Discovery</p> | <p>Select the check box to run IBM HACMP Topology discovery.</p> <p>Click the  button beside Discovery Options to display the available options:</p> <ul style="list-style-type: none"> • cldisp command path Select to specify the command path for cldisp. Use full path or root/path/cldisp. • AIX Cluster license command Select to specify the command to get the cluster license on AIX. |

Schedule Discovery Page

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

| | |
|------------------------------|--|
| Important Information | General information about the activity is available in " Cluster Software Configuration Discovery Activity " on page 19. |
| Wizard Map | The " Cluster Software Configuration Discovery Activity " contains: " Activity Name Page " > " Discovery Preferences Page " > Schedule Discovery Page > " Summary Page " |

User interface elements are described below:

| UI Element (A-Z) | Description |
|---|--|
|  | Click the Time Templates icon to open the Time Templates 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> . |
| Allow Discovery to run at | Select the time template that you want to use to schedule the discovery activity. |
| End by | Choose the date and time when the discovery activity must finish running by selecting the End by check box, opening the calendar, and selecting the date and time. |
| Repeat Every | 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). |
| Start at | Choose the date and time when the discovery activity must begin running by selecting the Start at 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 Cluster Software Configuration Discovery activity.


| | |
|------------------------------|--|
| Important Information | Review configurations and decide whether to run the activity or go back and make changes. General information about the activity is available in " Cluster Software Configuration Discovery Activity " on page 19. |
| Wizard Map | The " Cluster Software Configuration Discovery Activity " contains: " Activity Name Page " > " Discovery Preferences Page " > " Schedule Discovery Page " > Summary Page |

User interface elements are described below:

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

Chapter 4: Database Software Configuration Discovery Activity

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

| | |
|------------------------------|--|
| To access | Go to Data Flow Management > Universal Discovery > Zone-Based Discovery > Management Zones > select a Management Zone > click  > select New Discovery Activity > Software Configuration > Database |
| Important Information | For more information, hold the pointer over a question mark icon. |
| Wizard Map | The Database Software Configuration Discovery Activity contains: "Activity Name Page" > "Define Credentials Page" > "Database Port Scanning" > "Discovery Preferences Page" > "Schedule Discovery Page" > "Summary Page" |

Activity Name Page

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

| | |
|------------------------------|--|
| Important Information | <ul style="list-style-type: none"> • Enter a unique name for the Database Software Configuration Discovery activity. • General information about the activity is available in "Database Software Configuration Discovery Activity" above. <div style="background-color: #f0f0f0; padding: 5px; margin-top: 10px;"> <p>Note: This screen is not displayed when editing a Basic Software Configuration Discovery activity.</p> </div> |
| Wizard Map | The "Database Software Configuration Discovery Activity" contains: Activity Name Page > "Define Credentials Page" > "Database Port Scanning" > "Discovery Preferences Page" > "Schedule Discovery Page" > "Summary Page" |

User interface elements are described below:

| UI Element (A-Z) | Description |
|----------------------|---|
| Activity Name | Enter a unique name for the Database Software Configuration Discovery activity. <div style="background-color: #f0f0f0; padding: 10px; margin-top: 10px;"> <p>Note: 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 Updated by attribute on the CI Properties page if a CI was updated by a job. Names can be changed at any time, however, the Job ID attribute that is associated with the job name does not change.</p> </div> |

Define Credentials Page





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

| | |
|------------------------------|---|
| Important information | <ul style="list-style-type: none"> Configure credentials depending on what must be discovered and which protocols are supported on your site's network. 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>. 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 UCMDB Discovery and Integrations Content Guide - Supported Content</i> document. General information about the activity is available in "Database Software Configuration Discovery Activity" on the previous page. |
| Wizard map | The " Database Software Configuration Discovery Activity " contains: " Activity Name Page " > Define Credentials Page > " Database Port Scanning " > " Discovery Preferences Page " > " Schedule Discovery Page " > " Summary Page " |

Protocol pane

Lists the protocols that are available for this activity.

User interface elements are described below:




| UI Element | Description |
|---|---|
|  | Select All. Selects all protocols or selects all credentials for a selected protocol. |
|  | Clear Selections. Clears all selected credentials or clears all selected protocols. |
|  | Invert Selections. 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.

| | |
|------------------------------|---|
| Important information | <ul style="list-style-type: none"> To sort the credentials in a column in ascending or descending order, click the column header. To edit parameters of a credentials, double-click a credential to open the Protocol Parameters dialog box. 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>. |
|------------------------------|---|

User interface elements are described below:

| UI Element | Description |
|---|---|
|  | <p>Create New Connection Details. 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 Data Flow Management > Universal Discovery > Zone-Based Discovery tab > Activity Jobs tab. Ensure that you create credentials for all of the protocols in the Protocol pane for the activity.</p> |
|  | Remove Connection Details. Removes the selected credential. |
|  | Edit Connection Details. Opens the Protocol Parameters dialog box, enabling you to edit the credentials for the selected protocol. |



| UI Element | Description |
|---|---|
|  | <p>Move Entry Up/Move Entry Down. 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>Note: Moving credentials affects the value in the Index column.</p> |
|  | Select All. Selects all protocols or selects all credentials for a selected protocol. |
|  | Clear Selections. Clears all selected credentials or clears all selected protocols. |
|  | Invert Selections. All credentials or protocols that were selected are deselected, and all credentials or protocols that were not selected are selected. |
| Selected | Enables you to select credentials to use for the activity. |
| Index | Indicates the order in which the system selects credential instances to make a connection attempt. The lower the index, the higher the priority. |
| Encryption Method | The encryption method of the credential that is configured in the Protocol Parameters dialog box. |
| Scope | Indicates the network scope of the Data Flow Probe that uses the selected credential. This value is configured in the Protocol Parameter dialog box, in the Network Scope field. For more information, see the section describing the Protocol Parameter dialog box in the <i>HP Universal CMDB Data Flow Management Guide</i> . |
| User Name | The description of the credential that is configured in the Protocol Parameters dialog box. |
| Database Type | The description of the credential that is configured in the Protocol Parameters dialog box. |
| User Label | The description of the credential that is configured in the Protocol Parameters dialog box. |
| Port Number | The port number that is configured in the Protocol Parameters dialog box. |

Database Port Scanning

Enables you to configure the ports to be scanned.

| | |
|------------------------------|--|
| Important Information | General information about the wizard is available in " Database Software Configuration Discovery Activity " on page 25. |
| Wizard Map | The " Database Software Configuration Discovery Activity " contains: " Activity Name Page " > " Define Credentials Page " > Database Port Scanning > " Discovery Preferences Page " > " Schedule Discovery Page " > " Summary Page " |

User interface elements are described below:

| UI Element (A-Z) | Description |
|---|---|
|  | Add port. Opens the Chose TCP Ports to Scan dialog box, enabling you to select ports to be scanned. |
|  | Remove Port. 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.

| | |
|------------------------------|--|
| Important Information | General information about the wizard is available in "Database Software Configuration Discovery Activity" on page 25. |
| Wizard Map | The "Database Software Configuration Discovery Activity" contains: "Activity Name Page" > "Define Credentials Page" > "Database Port Scanning" > Discovery Preferences Page > "Schedule Discovery Page" > "Summary Page" |

User interface elements are described below:

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

| UI Element | Description |
|------------------------------------|---|
| | <ul style="list-style-type: none"> • Discover system tables <p>Select to enable discovery of system tables, such as SYSCAT, SYSFUN, SYSIBM, SYSIBMADM, SYSPROC, and SYSSTAT.</p> <div style="background-color: #f0f0f0; padding: 10px; border: 1px solid #ccc;"> <p>Note: If you do not select the Discover tables check box, the Discover system tables setting is unavailable.</p> </div> |
| <p>Run MS SQL Discovery</p> | <p>Select the check box to run MS SQL discovery.</p> <p>Click the <input type="checkbox"/> button beside Discovery Options to display the available options:</p> <ul style="list-style-type: none"> • Discover configuration <p>Select to enable discovery of MS SQL server configuration (mssql.database.configuration.txt).</p> <ul style="list-style-type: none"> • Discover users <p>Select to enable discovery of database users.</p> <ul style="list-style-type: none"> • Discover sql/data files <p>Select to enable discovery of SQL/data files.</p> <ul style="list-style-type: none"> • Discover SQL jobs <p>Select to enable discovery of SQL jobs.</p> |
| <p>Run Sybase Discovery</p> | <p>Select the check box to run Sybase discovery.</p> <p>Click the <input type="checkbox"/> button beside Discovery Options to display the available option:</p> <ul style="list-style-type: none"> • Sybase JDBC Driver file <p>Select the check box and click Import file... to locate the 3pclasses.jar file in the Sybase JDBC installation.</p> |
| <p>Run Oracle Discovery</p> | <p>Select the check box to run Oracle discovery.</p> <p>Click the <input type="checkbox"/> button beside Discovery Options to display the available option:</p> <ul style="list-style-type: none"> • Oracle Database Connection Method <ul style="list-style-type: none"> ○ Thorough. A comprehensive discovery of Oracle database servers. ○ Lightweight. A lightweight, or faster discovery of Oracle database servers. |


| UI Element | Description |
|---------------------------------|---|
| | <ul style="list-style-type: none"> • Oracle Home Directory <p>Use this when no ORACLE_HOME environment variable is defined.</p> <div style="background-color: #f0f0f0; padding: 5px; margin: 10px 0;"> <p>Note: The value must coincide with the same parameter in the Oracle Listeners by Shell job.</p> </div> |
| Run MySQL Discovery | Select the check box to run MySQL discovery. |
| Run HanaDB Discovery | Select the check box to run HanaDB discovery. |
| Run MaxDB Discovery | Select the check box to run MaxDB discovery. |
| Run PostgreSQL Discovery | Select the check box to run PostgreSQL discovery. |

Schedule Discovery Page

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

| | |
|------------------------------|---|
| Important Information | General information about the activity is available in "Database Software Configuration Discovery Activity" on page 25. |
| Wizard Map | The "Database Software Configuration Discovery Activity" contains: "Activity Name Page" > "Define Credentials Page" > "Discovery Preferences Page" > Schedule Discovery Page > "Summary Page" |

User interface elements are described below:

| UI Element (A-Z) | Description |
|---|--|
|  | Click the Time Templates icon to open the Time Templates 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> . |
| Allow | Select the time template that you want to use to schedule the discovery activity. |

| UI Element (A-Z) | Description |
|----------------------------|--|
| Discovery to run at | |
| End by | Choose the date and time when the discovery activity must finish running by selecting the End by check box, opening the calendar, and selecting the date and time. |
| Repeat Every | 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). |
| Start at | Choose the date and time when the discovery activity must begin running by selecting the Start at 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.

| | |
|------------------------------|---|
| Important Information | 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 25. |
| Wizard Map | The "Database Software Configuration Discovery Activity" contains: "Activity Name Page" > "Define Credentials Page" > "Discovery Preferences Page" > "Schedule Discovery Page" > Summary Page |


User interface elements are described below:

| UI Element (A-Z) | Description |
|--------------------------|--|
| Activate Activity | Activates the activity upon creating it. <div style="background-color: #f0f0f0; padding: 5px;">Note: If you do not want to activate the activity at this stage, you can activate it later from the Zone-Based Discovery view.</div> |
| Finish | <ul style="list-style-type: none"> • Creation mode: Closes the wizard and adds the activity to the Management Zone tree. <div style="background-color: #f0f0f0; padding: 5px;">Note: If you selected Activate Activity, the activity is activated upon creation.</div> • Edit mode: Saves the changes to the activity. <div style="background-color: #f0f0f0; padding: 5px;">Note: You cannot activate the activity from the wizard in Edit mode.</div> |

Chapter 5: 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.

| | |
|------------------------------|---|
| To access | Go to Data Flow Management > Universal Discovery > Zone-Based Discovery > Management Zones > select a Management Zone > click  > select New Discovery Activity > Infrastructure |
| Important Information | For more information, hold the pointer over a question mark icon. |
| Wizard Map | The Infrastructure Discovery Activity contains: "Activity Name Page" > "Define Credentials Page" > "Preferences Page" > "Universal Discovery Agent Deployment Page" > "Schedule Deployment Page" > "Summary Page" |
| Relevant tasks | How to Install Universal Discovery Agent to Run Under a Non-Root Account on UNIX in the <i>HP Universal CMDB Data Flow Management Guide</i> . |
| See also | <ul style="list-style-type: none">The section that describes the Universal Discovery Agent in the <i>HP Universal CMDB Data Flow Management Guide</i>."Inventory Discovery Activity" on page 47 |

Activity Name Page

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

| | |
|------------------------------|--|
| Important Information | <ul style="list-style-type: none">Enter a unique name in the Activity Name field.General information about the activity is available in "Infrastructure Discovery Activity" above. <p>Note: This screen does not appear when editing an existing discovery job.</p> |
|------------------------------|--|

| | |
|-------------------|---|
| Wizard Map | The " Infrastructure Discovery Activity " contains: Activity Name Page > " Define Credentials Page " > " Preferences Page " > " Universal Discovery Agent Deployment Page " > " Schedule Deployment Page " > " Summary Page " |
|-------------------|---|

User interface elements are described below:

| UI Element (A-Z) | Description |
|-------------------------|--|
| Activity Name | <p>Enter a unique name for the Infrastructure Discovery activity.</p> <p>Note: 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 Modeling > Reports > Custom Reports > Discovery Status and also at Modeling > Reports > Custom Reports > Inventory. See the section describing reports in the <i>HP Universal CMDB Modeling Guide</i>. Job names may also appear in the Updated by attribute on the CI Properties page if a CI was updated by the job. Job names can be changed at any time, however, the Job ID 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.





| | |
|------------------------------|--|
| Important information | <ul style="list-style-type: none"> Configure credentials depending on what must be discovered and which protocols are supported on your site's network. 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>. 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. General information about the activity is available in "Infrastructure Discovery Activity" on the previous page. |
| Wizard map | The " Infrastructure Discovery Activity " contains: |

| |
|--|
| "Activity Name Page" > Define Credentials Page > "Preferences Page" > "Universal Discovery Agent Deployment Page" > "Schedule Deployment Page" > "Summary Page" |
|--|

Protocol pane

Lists the protocols that are available for this activity.

User interface elements are described below:


| UI Element | Description |
|---|---|
|  | Select All. Selects all protocols or selects all credentials for a selected protocol. |
|  | Clear Selections. Clears all selected credentials or clears all selected protocols. |
|  | Invert Selections. 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.

| | |
|------------------------------|---|
| Important information | <ul style="list-style-type: none"> To sort the credentials in a column in ascending or descending order, click the column header. To edit parameters of a credentials, double-click a credential to open the Protocol Parameters dialog box. 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>. |
|------------------------------|---|

User interface elements are described below:

| UI Element | Description |
|---|---|
|  | Create New Connection Details. Opens the Protocol Parameters dialog box, enabling you to define credentials for the selected protocol. |

| UI Element | Description |
|---|---|
| | To determine which protocols require credentials for this activity, go to Data Flow Management > Universal Discovery > Zone-Based Discovery tab > Activity Jobs tab. Ensure that you create credentials for all of the protocols in the Protocol pane for the activity. |
|  | Remove Connection Details. Removes the selected credential. |
|  | Edit Connection Details. Opens the Protocol Parameters dialog box, enabling you to edit the credentials for the selected protocol. |
|  | Move Entry Up/Move Entry Down. Enables you to move credentials up or down, enabling you to set the order in which selected credentials are used for the selected protocol. Note: Moving credentials affects the value in the Index column. |
|  | Select All. Selects all protocols or selects all credentials for a selected protocol. |
|  | Clear Selections. Clears all selected credentials or clears all selected protocols. |
|  | Invert Selections. All credentials or protocols that were selected are deselected, and all credentials or protocols that were not selected are selected. |
| Selected | Enables you to select credentials to use for the activity. |
| Index | Indicates the order in which the system selects credential instances to make a connection attempt. The lower the index, the higher the priority. |
| Scope | Indicates the network scope of the Data Flow Probe that uses the selected credential. This value is configured in the Protocol Parameter dialog box, in the Network Scope field. For more information, see the section describing the Protocol Parameter dialog box in the <i>HP Universal CMDB Data Flow Management Guide</i> . |
| User Name | The description of the credential that is configured in the Protocol Parameters dialog box. |
| User Label | The description of the credential that is configured in the Protocol Parameters dialog box. |

Preferences Page

Enables you to select preferences for the Infrastructure Discovery activity.

| | |
|------------------------------|---|
| Important Information | <ul style="list-style-type: none"> Select preferences relating to what information is discovered. General information about the activity is available in "Infrastructure Discovery Activity" on page 35. |
| Wizard Map | <p>The "Infrastructure Discovery Activity" contains:</p> <p>"Activity Name Page" > "Define Credentials Page" > Preferences Page > "Universal Discovery Agent Deployment Page" > "Schedule Deployment Page" > "Summary Page"</p> |

User interface elements are described below:

| UI Element | Description |
|--|--|
| IPv4 Ping Sweep Strategy for Data Center Ranges | <p>Defines the strategy for discovering IPv4 addresses using the ICMP protocol.</p> <p>Select one of the following options:</p> <ul style="list-style-type: none"> No Ping Sweep Ping Sweep within the ranges of the Management Zone Ping only discovered Class B or C Networks Ping only discovered Class C Networks <div style="background-color: #f0f0f0; padding: 10px; margin-top: 10px;"> <p>Note: These options apply only to ranges that are configured as Data Center type. However the Ping Sweep within the ranges of the Management Zone option applies when performing discovery of Client type IP ranges without using SNMP. For more information, see the topic <i>How to Discover Client IP Ranges Without SNMP</i> in the <i>RTSM Data Flow Management Guide</i>.</p> </div> |
| Universal Discovery Protocol Connection Order | <p>Specifies the order in which the Universal Discovery Protocol is used to connect to remote machines when the Host Connection by Shell job runs.</p> <p>Select one of the following options:</p> <p>First. The Universal Discovery Protocol is used first.</p> <p>Last. The Universal Discovery Protocol is used last.</p> |

| UI Element | Description |
|---|--|
| | <p>Note:</p> <ul style="list-style-type: none"> • Applicable only when the Universal Discovery Protocol is selected for use in the Define Credentials page. • This setting is applied when the Host Connection by Shell job connects to the remote machine on the first attempt only. |
| Ping all IPv6 addresses within the ranges of the Management Zone | Enables a ping sweep of all the IPv6 addresses in the Management Zone. |
| IP/MAC Address Harvesting | <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>Note:</p> <ul style="list-style-type: none"> • If this option is selected, also select Discover Network Devices in Client IP Ranges. • Only applicable if Client is the range type. • Ensure that SNMP is configured on the DHCP server. |
| Discover Network Devices in Client IP Ranges | <p>Select this check box to use SNMP to discover network nodes that are SNMP enabled.</p> <p>Note:</p> <ul style="list-style-type: none"> • Only applicable if Client is the range type. • Ensure that SNMP is configured on the DHCP server. |
| Resolve DNS Names | <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> |

| UI Element | Description |
|----------------------------------|---|
| | <p>Note: 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> |
| Microsoft Windows Domains | Select this check box to discover Windows domain controllers. |

Universal Discovery Agent Deployment Page

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

| | |
|------------------------------|--|
| Important Information | <ul style="list-style-type: none"> Configure parameters for Universal Discovery Agents if you are using the activity to install or upgrade Universal Discovery Agents. The maximum transfer rate for uploading and downloading files to and from the discovery node is defined in the shellGlobalBandwidthLimit parameter in the globalSettings.xml file. (Data Flow Management > Adapter Management > Resources > Packages > AutoDiscoveryContent > Configuration Files). <p>Alternatively, you can view or set this value in the Shell Bandwidth Limit 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"> General information about the activity is available in "Infrastructure Discovery Activity" on page 35. |
| Wizard Map | <p>The "Infrastructure Discovery Activity" contains:</p> <p>"Activity Name Page" > "Define Credentials Page" > "Preferences Page" > Universal Discovery Agent Deployment Page > "Schedule Deployment Page" > "Summary Page"</p> |

User interface elements are described below:

| UI Element (A–Z) | Description |
|-------------------------|---|
| Agent Deployment | <p>Select the check box for the type of Universal Discovery Agent deployment.</p> <p>Default: Cleared</p> <p>If you want to run discovery without the Universal Discovery Agent, do not select</p> |

| UI Element (A–Z) | Description |
|------------------------------------|--|
| | <p>any of these options.</p> <ul style="list-style-type: none"> • Install UD Agent. Installs a Universal Discovery Agent if no agent is currently installed. • Update UD Agent. Updates the configuration of the Universal Discovery Agent. <p>If you select the Update UD Agent check box, the following parameters are updated:</p> <ul style="list-style-type: none"> ○ Software Utilization Period ○ Primary Call Home Probe Address ○ Secondary Call Home Probe Address ○ Call Home Request Frequency <div style="background-color: #f0f0f0; padding: 5px; margin: 10px 0;"> <p>Note: When migrating a DDMI Agent to a UD Agent, use the Migrate DDMI Agent option.</p> </div> <ul style="list-style-type: none"> • Uninstall UD Agent. Uninstalls a Universal Discovery Agent. • Migrate DDMI Agent. Uninstalls a DDMI Agent and then installs a UD Agent. <div style="background-color: #f0f0f0; padding: 5px; margin: 10px 0;"> <p>Note: 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> </div> |
| Upgrade Agent | <p>Specifies whether you want to upgrade the Universal Discovery Agent. 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.</p> <p>Default: Selected</p> |
| Call Home Request Frequency | <p>Enter the frequency (measured in days) that the Universal Discovery Agent contacts the Data Flow Probe for Call Home.</p> |
| Credential for | <p>Select a credential to use. If no credentials are displayed, go back to the "Define</p> |

| UI Element (A–Z) | Description |
|---|--|
| UD Agent Installation Credential for UD Agent Update | <p>Credentials Page" on page 36 and add a new Universal Discovery Agent credential.</p> <div style="background-color: #f0f0f0; padding: 10px; border: 1px solid #ccc;"> <p>Note: 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 "Define Credentials Page" on page 36.</p> </div> <p>For a list of protocols, see the section about Supported Protocols in the <i>HP UCMDB Discovery and Integrations Content Guide - Supported Content</i> document.</p> |
| Install UD Agent to run under root account on UNIX machines | <p>(UNIX only)</p> <ul style="list-style-type: none"> • When selected, the UD Agent runs under the root account of the discovery node. • When this option is cleared, the UD Agent runs under the account that was used when installing the UD Agent. <p>For more details about UD Agent deployment, see the section describing how to deploy the UD Agent in the <i>HP Universal CMDB Data Flow Management Guide</i>.</p> |
| Primary Call Home Probe Address | <p>Enter a primary IP address or host name for the Data Flow Probe server that you want to send Call Home messages to.</p> <p>Use one of the following formats:</p> <ul style="list-style-type: none"> • Hostname (For example: probehost) • IP Address <ul style="list-style-type: none"> ◦ IPv4Address (For example: 10.11.12.13) ◦ IPv6Address (For example: 2010:836b:4179::836b:4179) • Full Path <ul style="list-style-type: none"> ◦ http://HostNameOrIPv4Address:Port/callhome (For example: http://probehost:1977/callhome) ◦ http://[IPv6Address]:Port/callhome (For example: http://[2010:836b:4179::836b:4179]:1977/callhome) <div style="background-color: #f0f0f0; padding: 10px; border: 1px solid #ccc;"> <p>Note:</p> <ul style="list-style-type: none"> • Port 80 is used by default when no port number is specified. If port 80 is </div> |

| UI Element (A–Z) | Description |
|--|--|
| | <p>occupied, use a format that specifies port 1977.</p> <ul style="list-style-type: none"> • Ensure that you also select the IP/MAC Address Harvesting option on the Preferences page. For details, see "Preferences Page" on page 39. • For more information, see the section describing Call Home in the <i>HP Universal CMDB Data Flow Management Guide</i>. • Separate each entry by using a comma. Multiple entries should only be used when you are running DDMI server and UCMDB in parallel. For more information, see the DDMI to Universal Discovery Migration Guide in the <i>HP Universal CMDB Data Flow Management Guide</i>. |
| Secondary Call Home Probe Address | Enter a secondary IP address or host name for the Data Flow Probe server that you want to send Call Home messages to. See Primary Call Home Probe Address for formatting information. |
| Software Utilization Period | <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"> • 31 days • 90 days • 365 days <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.

| | |
|------------------------------|--|
| Important Information | <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 "Infrastructure Discovery Activity" on page 35.</p> |
| Wizard Map | The "Infrastructure Discovery Activity" contains: |

"Activity Name Page" > "Define Credentials Page" > "Preferences Page" > "Universal Discovery Agent Deployment Page" > **Schedule Deployment Page** > "Summary Page"

User interface elements are described below:

| UI Element (A-Z) | Description |
|---|--|
|  | Click the Time Templates icon to open the Time Templates 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> . |
| Allow Discovery to run at | Select the time template that you want to use to schedule the Infrastructure Discovery activity. |
| End by | Choose the date and time when the Infrastructure Discovery activity must finish running by selecting the Start at check box, opening the calendar, and then selecting the date and time. |
| Repeat Every | Select how often the Infrastructure 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). |
| Start at | Choose the date and time when the Infrastructure Discovery activity must begin running by selecting the Start at 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.

| | |
|------------------------------|---|
| Important Information | Review configurations and decide whether to run the activity or go back and make changes. General information about the activity is available in " Infrastructure Discovery Activity " on page 35. |
| Wizard Map | The " Infrastructure Discovery Activity " contains: " Activity Name Page " > " Define Credentials Page " > " Preferences Page " > " Universal Discovery Agent Deployment Page " > " Schedule Deployment Page " > Summary Page |


User interface elements are described below:

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

Chapter 6: 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.

| | |
|------------------------------|---|
| To access | Go to Data Flow Management > Universal Discovery > Zone-Based Discovery > Management Zones > select a Management Zone > click  > select New Discovery Activity > Inventory |
| Important Information | For more information, hold the pointer over a question mark icon. |
| Wizard Map | The Inventory Discovery Activity contains: "Activity Name Page" > "Preferences Page" > "Virtualization Page" > "Schedule Deployment Page" > "Summary Page" |
| See also | <ul style="list-style-type: none">The section that describes the Universal Discovery Agent in the <i>HP Universal CMDB Data Flow Management Guide</i>."Infrastructure Discovery Activity" on page 35 |

Activity Name Page

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


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

User interface elements are described below:

| UI Element (A-Z) | Description |
|----------------------|---|
| Activity Name | <p>Enter a unique name for the Inventory Discovery activity.</p> <p>Note: 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 Updated by attribute on the CI Properties page if a CI was updated by a job. Names can be changed at any time, however, the Job ID 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.

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


Scanner-Based Inventory Discovery

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

| | |
|------------------------------|--|
| Important information | <p>The maximum transfer rate for uploading and downloading files to and from the discovery node is defined in the shellGlobalBandwidthLimit parameter in the globalSettings.xml file (Data Flow Management > Adapter Management > Resources > Packages > AutoDiscoveryContent > Configuration Files).</p> <p>Alternatively, you can view or set this value in the Shell Bandwidth Limit 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> |
|------------------------------|--|


User interface elements are described below:

| UI Element | Description |
|--|--|
| Scanner Based Inventory Discovery | Select to configure scanner-based inventory discovery. |
| Allow Scanner Downgrade | <p>Specifies whether the scanner can be downgraded to an earlier version.</p> <p>Note: Select this option only if there are problems with the scanner and you want to revert to an earlier version.</p> <p>Default: Enabled</p> |
| Allow Scanner Upgrade | <p>Specifies whether the Scanner can be upgraded if a newer version is available.</p> <p>Note: 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 Universal Discovery Community web site (https://hpln.hp.com/group/universal-discovery/).</p> <p>Default: Enabled</p> |
| Download Scan File Before Execution | <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>Note: Select if the Management Zone contains many mobile devices.</p> <p>Default: Enabled</p> |
| Remove Scan Data | <p>Specifies whether scan data are 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>Note:</p> <ul style="list-style-type: none"> Do not use together with the Delta Scanning option that is configured in the Scanner Generator. For more information, see the section that describes the Scanner Generator in the <i>HP Universal CMDB Data Flow Management Guide</i>. Select when performing a one-time inventory discovery. |
| Run Pre/Post | Specifies whether to run scripts that are configured to run on discovery nodes |

| UI Element | Description |
|---|--|
| Scan Scripts | <p>before and after scanning.</p> <p>Note: Scripts are global files and shared among Management Zones.</p> |
| Script Maximum Run Time | <p>Select or type the maximum amount of time UCMDB runs scripts.</p> <p>Note: Option is available only when Run Pre/Post Scan Scripts is selected.</p> <p>Default: 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.

| | |
|------------------------------|---|
| Important information | <ul style="list-style-type: none"> • Select preferences relating to the scanner configuration file (.cxz) that controls the Inventory Discovery workflow. • Click  to list the scanner configuration options when scanner-based inventory discovery is selected. |
|------------------------------|---|


User interface elements are described below:

| UI Element | Description |
|---|---|
| Use One Scanner Configuration for All Platforms | <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>Note: You can create a new configuration file by using the Scanner Generator by clicking New/Edit Scanner Configuration.</p> |
| Standalone Scanner Configuration for Each Platform | <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>Note: You can create a new configuration file by using the</p> |

| UI Element | Description |
|---|---|
| | <p>Scanner Generator by clicking New/Edit Scanner Configuration.</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 relating to mapping data to UCMDB for scanner-based inventory discovery.

| | |
|-------------------------------------|---|
| <p>Important information</p> | <ul style="list-style-type: none"> • Select options that send software data that are collected by the Scanner and contained in scan files to UCMDB. • Click  to list the mapping options when scanner-based inventory discovery is selected. • When writing regular expressions, observe the following guidelines: <p>Enter a semicolon-separated regular expression. The following attributes are available:</p> <p>name</p> <p>discovered_vendor</p> <p>version</p> <p>description</p> <p>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".</p> <p>For example, assume you type the following string (ignore quotes): "name=my.*;discovered_vendor=HP;version=1.*;description=UCMDB".</p> <p>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"</p> |
|-------------------------------------|---|

| | |
|--|---|
| | <p>exactly.</p> <p>For more information, see the section describing regular expressions in the <i>HP Universal CMDB Modeling Guide</i>.</p> |
|--|---|

User interface elements are described below:

| UI Element | Description |
|---|---|
|  | <p>Click to open the Hardware Mapping Configuration 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>.</p> |
|  | <p>Click Software Recognition Configuration to open the XML Enricher 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>.</p> |
|  | <p>Click to restore the screen to the default values.</p> <p>Caution: All changes are lost.</p> |
| <p>Detailed Node Data (Configuration Document)</p> | <p>Select this check box to send data about personalized configurations. For example, environment variables.</p> |
| <p>Model Per User Data When Number of User is at Least</p> | <p>In the Users box, type or select the minimum numbers of users of an application to map utilization data.</p> <ul style="list-style-type: none"> • If the number of software users is less than the value that is entered, per-user software utilization data are not sent to UCMDB. • If you want to model software utilization per user in UCMDB, set this value to 1. |

| UI Element | Description |
|---|--|
| | <p>Note: Performance may be affected by this action.</p> |
| <p>Normalized Applications- Exclude</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 "Important information" on page 51.</p> |
| <p>Normalized Applications- Include</p> | <p>Names of installed applications that are contained in the Normalized section of the scan file, which 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 "Important information" on page 51.</p> |
| <p>Normalized Installed Software</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 are contained in the Normalized section of the scan file.</p> <p>Note: 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> |
| <p>Partially Recognized Applications</p> | <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>Default: Enabled</p> <p>Note:</p> |

| UI Element | Description |
|--|--|
| | <ul style="list-style-type: none"> • Use when discovered applications are only partially matched. • 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. |
| Raw OS Installed Software | <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 are listed in the Control Panel > Add/Remove Programs or Programs and Features. For UNIX computers, it collects data about software from the system package manager.</p> |
| Raw OS Installed Software-Exclude | <p>Use a regular expression to enter names of installed applications that are contained in the Raw OS section of the scan file, which 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 "Important information" on page 51.</p> |
| Raw OS Installed Software-Include | <p>Use a regular expression to enter names of installed applications that are contained in the Raw OS section of the scan file, which 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 Normalized Applications-Include setting, the included applications are added.</p> <p>For more information on how to create regular expressions, see "Important information" on page 51.</p> |
| Report Free Software | <p>Specifies whether to report installed applications that are associated with free licenses to UCMDB.</p> |

| UI Element | Description |
|-----------------------------|---|
| | <p>Note: Installed applications that are associated with unknown or with commercial licenses are reported to UCMDB by default.</p> <p>Default: Enabled</p> |
| Services (Daemons) | Select this check box to send data about services and daemons on the discovery node. |
| Software Utilization | 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> . |

SNMP Discovery Options

Enables you to select detailed preferences for the SNMP discovery options.


| | |
|------------------------------|--|
| Important information | <ul style="list-style-type: none"> • Select preferences relating to the type of information that is collected during the SNMP discovery. • Click <input type="checkbox"/> to list the SNMP discovery options when scanner-based inventory discovery is selected. |
|------------------------------|--|

User interface elements are described below:

| UI Element | Description |
|-------------------------|--|
| Host Information | <p>Select the check box for the information that you want to discover.</p> <ul style="list-style-type: none"> • Disks • Installed Software • Modules • Processes • Services |

Basic Inventory Discovery Options

Enables you to select detailed preferences for the basic inventory discovery options.

| | |
|------------------------------|---|
| Important information | <ul style="list-style-type: none"> • 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. • Click  to list the options when basic inventory discovery is selected. |
|------------------------------|---|


User interface elements are described below:

| UI Element (A–Z) | Description |
|---|--|
| Basic Inventory Discovery (Data Center only) | 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. |
| Host Information | <p>Select the check box for the information that you want to discover.</p> <ul style="list-style-type: none"> • CPUs • Disks • Fibre Channel HBAs • Installed Software • Memory • Modules • Processes • Services • Shares |



Virtualization Page

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

| | |
|------------------------------|---|
| Important information | <ul style="list-style-type: none"> • General information about the activity is available in "Inventory Discovery Activity" on page 47. |
|------------------------------|---|

| | |
|-------------------|--|
| | <ul style="list-style-type: none"> • Select preferences relating to discovering virtual topologies using scanner-based inventory discovery or basic inventory discovery. • Click  to list the options that are available. |
| Wizard map | <p>The "Inventory Discovery Activity" contains:</p> <p>"Activity Name Page" > "Preferences Page" > Virtualization Page > "Schedule Deployment Page" > "Summary Page"</p> |

User interface elements are described below:


| UI Element | Description |
|---|--|
| Include Virtualization Topology | <p>Select to discover virtualization topologies for the following platforms:</p> <ul style="list-style-type: none"> • VMware • Microsoft Hyper-V • Solaris Zones <p>Note:</p> <ul style="list-style-type: none"> • Only shallow topologies are discovered. • Either scanner-based inventory discovery or basic inventory discovery must be selected. |
| VMware SDK Libraries | <p>Select to include VMware SDK libraries.</p> <p>Note: 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>Note: 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.

| | |
|------------------------------|---|
| Important Information | <ul style="list-style-type: none"> No matter what schedule is defined for this activity, the Inventory Discovery by Scanner job is designed to be run every 14 days and this period cannot be changed. General information about the activity is available in "Inventory Discovery Activity" on page 47. |
| Wizard Map | <p>The "Inventory Discovery Activity" contains:</p> <p>"Activity Name Page" > "Preferences Page" > "Virtualization Page" > Schedule Deployment Page > "Summary Page"</p> |

User interface elements are described below:

| UI Element (A-Z) | Description |
|---|--|
|  | <p>Click the Time Templates icon to open the Time Templates 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>.</p> |
| Allow Discovery to run at | <p>Select the time template that you want to use to schedule the Inventory Discovery activity.</p> |
| End by | <p>Choose the date and time when the Inventory Discovery activity must finish running by selecting the End by check box, opening the calendar, and selecting the date and time.</p> |
| Repeat Every | <p>Select how often the Inventory 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> |
| Start at | <p>Choose the date and time when the Inventory Discovery activity must begin running by selecting the Start at check box, opening the calendar, and selecting the date and time.</p> |

Summary Page

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


| | |
|------------------------------|--|
| Important Information | 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 47 . |
| Wizard Map | The "Inventory Discovery Activity" contains: "Activity Name Page" > "Preferences Page" > "Virtualization Page" > "Schedule Deployment Page" > Summary Page |

User interface elements are described below:

| UI Element (A-Z) | Description |
|--------------------------|--|
| Activate Activity | Activates the activity upon creating it. <div style="background-color: #f0f0f0; padding: 5px;"> Note: If you do not want to activate the activity at this stage, you can activate it later from the Zone-Based Discovery view. </div> |
| Finish | <ul style="list-style-type: none"> • Creation mode: Closes the wizard and adds the activity to the Management Zone tree. <div style="background-color: #f0f0f0; padding: 5px;"> Note: If you selected Activate Activity, the activity is activated upon creation. </div> • Edit mode: Saves the changes to the activity. <div style="background-color: #f0f0f0; padding: 5px;"> Note: You cannot activate the activity from the wizard in Edit mode. </div> |

Chapter 7: JavaEE Software Configuration Discovery Activity

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

| | |
|------------------------------|--|
| To access | Go to Data Flow Management > Universal Discovery > Zone-Based Discovery > Management Zones > select a Management Zone > click  > select New Discovery Activity > Software Configuration > JavaEE |
| Important Information | For more information, hold the pointer over a question mark icon. |
| Wizard Map | 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" > "Summary Page" |

Activity Name Page

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

| | |
|------------------------------|--|
| Important Information | <ul style="list-style-type: none"> • Enter a unique name for the JavaEE Software Configuration Discovery activity. • General information about the activity is available in "JavaEE Software Configuration Discovery Activity" above. <div style="background-color: #f0f0f0; padding: 5px; margin-top: 10px;"> <p>Note: This screen is not displayed when editing a Basic Software Configuration Discovery activity.</p> </div> |
| Wizard Map | 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" > "Summary Page" |

User interface elements are described below:

| UI Element (A-Z) | Description |
|----------------------|---|
| Activity Name | Enter a unique name for the JavaEE Software Configuration Discovery activity. <div style="background-color: #f0f0f0; padding: 10px; margin-top: 10px;"> <p>Note: 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 Updated by attribute on the CI Properties page if a CI was updated by a job. Names can be changed at any time, however, the Job ID attribute that is associated with the job name does not change.</p> </div> |

Define Credentials Page





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

| | |
|------------------------------|---|
| Important information | <ul style="list-style-type: none"> Configure credentials depending on what must be discovered and which protocols are supported on your site's network. 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>. 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. General information about the activity is available in "JavaEE Software Configuration Discovery Activity" on the previous page. |
| Wizard map | 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 " > " Summary Page " |

Protocol pane

Lists the protocols that are available for this activity.

User interface elements are described below:




| UI Element | Description |
|---|---|
|  | Select All. Selects all protocols or selects all credentials for a selected protocol. |
|  | Clear Selections. Clears all selected credentials or clears all selected protocols. |
|  | Invert Selections. 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.

| | |
|------------------------------|---|
| Important information | <ul style="list-style-type: none"> To sort the credentials in a column in ascending or descending order, click the column header. To edit parameters of a credentials, double-click a credential to open the Protocol Parameters dialog box. 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>. |
|------------------------------|---|

User interface elements are described below:

| UI Element | Description |
|---|--|
|  | <p>Create New Connection Details. 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 Data Flow Management > Universal Discovery > Zone-Based Discovery tab > Activity Jobs tab. Ensure that you create credentials for all of the protocols in the Protocol pane for the activity.</p> |
|  | Remove Connection Details. Removes the selected credential. |
|  | Edit Connection Details. Opens the Protocol Parameters dialog box, enabling you to edit the credentials for the selected protocol. |

| UI Element | Description |
|---|---|
|  | <p>Move Entry Up/Move Entry Down. 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>Note: Moving credentials affects the value in the Index column.</p> |
|  | Select All. Selects all protocols or selects all credentials for a selected protocol. |
|  | Clear Selections. Clears all selected credentials or clears all selected protocols. |
|  | Invert Selections. All credentials or protocols that were selected are deselected, and all credentials or protocols that were not selected are selected. |
| Selected | Enables you to select credentials to use for the activity. |
| Index | Indicates the order in which the system selects credential instances to make a connection attempt. The lower the index, the higher the priority. |
| Scope | Indicates the network scope of the Data Flow Probe that uses the selected credential. This value is configured in the Protocol Parameter dialog box, in the Network Scope field. For more information, see the section describing the Protocol Parameter dialog box in the <i>HP Universal CMDB Data Flow Management Guide</i> . |
| User Name | The description of the credential that is configured in the Protocol Parameters dialog box. |
| User Label | The description of the credential that is configured in the Protocol Parameters dialog box. |
| Port Number | The port number that is configured in the Protocol Parameters dialog box. |



JavaEE Port Scanning Page

Enables you to configure the ports to be scanned.

| | |
|------------------------------|---|
| Important Information | General information about the wizard is available in " JavaEE Software Configuration Discovery Activity " on page 60. |
| Wizard Map | 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" > "Summary Page" |
|--|--|

User interface elements are described below:


| UI Element (A-Z) | Description |
|---|---|
|  | Add port. Opens the Chose TCP Ports to Scan dialog box, enabling you to select ports to be scanned. |
|  | Remove Port. 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.

| | |
|------------------------------|--|
| Important Information | General information about the wizard is available in "JavaEE Software Configuration Discovery Activity" on page 60. |
| Wizard Map | 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" > "Summary Page" |

User interface elements are described below:

| UI Element | Description |
|---|--|
| Discover WebLogic Application Server | <p>Select the check box to enable WebLogic Application Server discovery.</p> <p>Click the  button beside Discovery Options to display the available options.</p> <p>Select the check box for the versions to be discovered. Click Import file... to locate the appropriate WebLogic JAR file, as listed below.</p> <ul style="list-style-type: none"> • WebLogic version 9.x • WebLogic version 10.x <p>For these versions, locate:</p> |

| UI Element | Description |
|--|---|
| | <ul style="list-style-type: none"> ○ wlclient.jar ○ wljmxclient.jar <p>For an SSL based discovery, select wlcipher.jar and the client trust store JKS file. (For example, DemoTrust.jks.)</p> |
| Discover WebSphere Application Server | <p>Select the check box to enable WebSphere Application Server discovery.</p> <p>Click the  button beside Discovery Options to display the available option:</p> <ul style="list-style-type: none"> • WebSphere JKS <p>For secure connection to WebSphere, select this option and click Import file... to locate the appropriate JKS file.</p> |
| Discover JBoss Application Server | <p>Select the check box to enable JBoss Application server discovery.</p> <p>Click the  button beside Discovery Options to display the available options.</p> <p>Select the check box for the versions to be discovered. Click Import file... to locate the jbossall-client.jar 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).

| | |
|------------------------------|--|
| Important Information | General information about the wizard is available in " JavaEE Software Configuration Discovery Activity " on page 60. |
| Wizard Map | 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 " > " Summary Page " |

User interface elements are described below:

| UI Element | Description |
|---|---|
| Discover WebLogic Application Server | Select the check box to enable WebLogic Application Server discovery. |


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

Schedule Discovery Page

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

| | |
|------------------------------|--|
| Important Information | General information about the activity is available in "JavaEE Software Configuration Discovery Activity" on page 60. |
| Wizard Map | 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 > "Summary Page" |

User interface elements are described below:

| UI Element (A–Z) | Description |
|--|--|
|  | Click the Time Templates icon to open the Time Templates 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> . |
| Allow Discovery to run at | Select the time template that you want to use to schedule the discovery activity. |
| End by | Choose the date and time when the discovery activity must finish running by selecting the End by check box, opening the calendar, and selecting the date and time. |
| Repeat Every | 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). |
| Start at | Choose the date and time when the discovery activity must begin running by selecting the Start at 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.


| | |
|------------------------------|--|
| Important Information | Review configurations and decide whether to run the activity or go back and make changes. General information about the activity is available in "JavaEE Software Configuration Discovery Activity" on page 60. |
| Wizard Map | 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" > Summary Page |

User interface elements are described below:

| UI Element (A-Z) | Description |
|--------------------------|--|
| Activate Activity | Activates the activity upon creating it. <div style="background-color: #f0f0f0; padding: 5px;">Note: If you do not want to activate the activity at this stage, you can activate it later from the Zone-Based Discovery view.</div> |
| Finish | <ul style="list-style-type: none"> • Creation mode: Closes the wizard and adds the activity to the Management Zone tree. <div style="background-color: #f0f0f0; padding: 5px;">Note: If you selected Activate Activity, the activity is activated upon creation.</div> • Edit mode: Saves the changes to the activity. <div style="background-color: #f0f0f0; padding: 5px;">Note: You cannot activate the activity from the wizard in Edit mode.</div> |

Chapter 8: Message Queue Software Configuration Discovery Activity

The Message Queue Software Configuration Discovery activity discovers message queue software configuration information to detect and map out what is running in your data center.

| | |
|------------------------------|---|
| To access | Go to Data Flow Management > Universal Discovery > Zone-Based Discovery > Management Zones > select a Management Zone > click  > select New Discovery Activity > Software Configuration > Message Queue |
| Important Information | For more information, hold the pointer over a question mark icon. |
| Wizard Map | The Message Queue Software Configuration Discovery Activity contains: "Activity Name Page" > "Define Credentials Page" > "Discovery Preferences Page" > "Schedule Discovery Page" > "Summary Page" |

Activity Name Page

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

| | |
|------------------------------|--|
| Important Information | <ul style="list-style-type: none"> Enter a unique name for the Message Queue Software Configuration Discovery activity. General information about the activity is available in "Message Queue Software Configuration Discovery Activity" above. <div style="background-color: #f0f0f0; padding: 5px; margin-top: 10px;"> <p>Note: This screen is not displayed when editing a Message Queue Software Configuration Discovery activity.</p> </div> |
| Wizard Map | The "Message Queue Software Configuration Discovery Activity" contains: Activity Name Page > "Define Credentials Page" > "Discovery Preferences Page" > "Schedule Discovery Page" > "Summary Page" |

User interface elements are described below:

| UI Element (A-Z) | Description |
|----------------------|--|
| Activity Name | Enter a unique name for the Message Queue Software Configuration activity. <div style="background-color: #f0f0f0; padding: 10px; margin-top: 10px;"> <p>Note: 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 Updated by attribute on the CI Properties page if a CI was updated by a job. Names can be changed at any time, however, the Job ID attribute that is associated with the job name does not change.</p> </div> |

Define Credentials Page





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

| | |
|------------------------------|--|
| Important information | <ul style="list-style-type: none"> Configure credentials depending on what must be discovered and which protocols are supported on your site's network. 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>. 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 UCMDB Discovery and Integrations Content Guide - Supported Content</i> document. General information about the activity is available in "Message Queue Software Configuration Discovery Activity" on the previous page. |
| Wizard map | The " Message Queue Software Configuration Discovery Activity " contains: " Activity Name Page " > Define Credentials Page > " Discovery Preferences Page " > " Schedule Discovery Page " > " Summary Page " |

Protocol pane

Lists the protocols that are available for this activity.

User interface elements are described below:




| UI Element | Description |
|---|---|
|  | Select All. Selects all protocols or selects all credentials for a selected protocol. |
|  | Clear Selections. Clears all selected credentials or clears all selected protocols. |
|  | Invert Selections. 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.

| | |
|------------------------------|---|
| Important information | <ul style="list-style-type: none"> To sort the credentials in a column in ascending or descending order, click the column header. To edit parameters of a credentials, double-click a credential to open the Protocol Parameters dialog box. 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>. |
|------------------------------|---|

User interface elements are described below:

| UI Element | Description |
|---|---|
|  | <p>Create New Connection Details. 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 Data Flow Management > Universal Discovery > Zone-Based Discovery tab > Activity Jobs tab. Ensure that you create credentials for all of the protocols in the Protocol pane for the activity.</p> |
|  | Remove Connection Details. Removes the selected credential. |
|  | Edit Connection Details. Opens the Protocol Parameters dialog box, enabling you to edit the credentials for the selected protocol. |

| UI Element | Description |
|---|---|
|  | <p>Move Entry Up/Move Entry Down. 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>Note: Moving credentials affects the value in the Index column.</p> |
|  | <p>Select All. Selects all protocols or selects all credentials for a selected protocol.</p> |
|  | <p>Clear Selections. Clears all selected credentials or clears all selected protocols.</p> |
|  | <p>Invert Selections. All credentials or protocols that were selected are deselected, and all credentials or protocols that were not selected are selected.</p> |
| <p>Selected</p> | <p>Enables you to select credentials to use for the activity.</p> |
| <p>Index</p> | <p>Indicates the order in which the system selects credential instances to make a connection attempt. The lower the index, the higher the priority.</p> |
| <p>Scope</p> | <p>Indicates the network scope of the Data Flow Probe that uses the selected credential. This value is configured in the Protocol Parameter dialog box, in the Network Scope field. For more information, see the section describing the Protocol Parameter dialog box in the <i>HP Universal CMDB Data Flow Management Guide</i>.</p> |
| <p>User Name</p> | <p>The description of the credential that is configured in the Protocol Parameters dialog box.</p> |
| <p>LDAP authentication method</p> | <p>The LDAP authentication method of the credential that is configured in the Protocol Parameters dialog box.</p> |
| <p>User Label</p> | <p>The description of the credential that is configured in the Protocol Parameters dialog box.</p> |
| <p>Protocol</p> | <p>Indicates the protocol is LDAP or LDAPS.</p> |
| <p>Port Number</p> | <p>The port number that is configured in the Protocol Parameters dialog box.</p> |

Discovery Preferences Page

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

| | |
|------------------------------|--|
| Important Information | General information about the wizard is available in "Message Queue Software Configuration Discovery Activity" on page 69. |
| Wizard Map | The "Message Queue Software Configuration Discovery Activity" contains: "Activity Name Page" > "Define Credentials Page" > Discovery Preferences Page > "Schedule Discovery Page" > "Summary Page" |

User interface elements are described below:

| UI Element | Description |
|--|---|
| Run WebSphere Message Queue Discovery | <p>Select the check box to run WebSphere Message Queue discovery.</p> <p>Click the <input type="checkbox"/> button beside Discovery Options to display the available options:</p> <ul style="list-style-type: none"> • Discover Dynamic Queue <p>Select to enable discovery of permanent and temporary dynamic queues.</p> • Discover hosts <p>Select to enable resolution and discovery of remote servers and MQ objects referenced by the server that is discovered.</p> <p>If this check box is cleared, relationships between MQ objects on different servers cannot be discovered.</p> • Use sudo command <p>Select to enable use of the sudo command.</p> <ul style="list-style-type: none"> ◦ Select to customize sudo command <p>This parameter must be set if the use_sudo parameter is set to true. Any entry here is prefixed to the MQ command line interface program.</p> <p>This parameter is typically used to set the MQ user name.</p> <p>For example, if this parameter is set to sudo -u mqm, the runmqsc</p> |


| UI Element | Description |
|--|--|
| | <p>command is invoked as sudo -u mqm runmqsc.</p> <ul style="list-style-type: none"> • Command timeout Select to specify the WebSphere command timeout. • Path to mqver or dspmqver Path to the mqver or dspmqver executables. <p>Note: Multiple entries must be separated by a semicolon (;).</p> |
| <p>Run Microsoft Message Queue Discovery by LDAP</p> | <p>Select the check box to run Microsoft Message Queue Discovery by LDAP. Click the <input type="checkbox"/> button beside Discovery Options to display the available option:</p> <ul style="list-style-type: none"> • Base Domain Name Select to change the Base Domain Name. |
| <p>Run Microsoft Message Queue Discovery by NTCMD</p> | <p>Select the check box to run Microsoft Message Queue Discovery by NTCMD.</p> |

Schedule Discovery Page

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

| | |
|-------------------------------------|---|
| <p>Important Information</p> | <p>General information about the activity is available in "Message Queue Software Configuration Discovery Activity" on page 69.</p> |
| <p>Wizard Map</p> | <p>The "Message Queue Software Configuration Discovery Activity" contains: "Activity Name Page" > "Define Credentials Page" > "Discovery Preferences Page" > Schedule Discovery Page > "Summary Page"</p> |

User interface elements are described below:

| UI Element (A-Z) | Description |
|---|--|
|  | Click the Time Templates icon to open the Time Templates 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> . |
| Allow Discovery to run at | Select the time template that you want to use to schedule the discovery activity. |
| End by | Choose the date and time when the discovery activity must finish running by selecting the End by check box, opening the calendar, and selecting the date and time. |
| Repeat Every | 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). |
| Start at | Choose the date and time when the discovery activity must begin running by selecting the Start at 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 Message Queue Software Configuration Discovery activity.


| | |
|------------------------------|--|
| Important Information | Review configurations and decide whether to run the activity or go back and make changes. General information about the activity is available in "Message Queue Software Configuration Discovery Activity" on page 69. |
| Wizard Map | The "Message Queue Software Configuration Discovery Activity" contains: "Activity Name Page" > "Define Credentials Page" > "Discovery Preferences Page" > "Schedule Discovery Page" > Summary Page |

User interface elements are described below:

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

Chapter 9: SAP Software Configuration Discovery Activity

The SAP Software Configuration Discovery activity maps your SAP applications to help you understand and track changes to your SAP deployment.

| | |
|------------------------------|--|
| To access | Go to Data Flow Management > Universal Discovery > Zone-Based Discovery > Management Zones > select a Management Zone > click  > select New Discovery Activity > Software Configuration > SAP |
| Important Information | For more information, hold the pointer over a question mark icon. |
| Wizard Map | The SAP Software Configuration Discovery Activity contains: "Activity Name Page" > "Define Credentials Page" > "SAP Ports Scanning Page" > "SAP Discovery by JCO Page" > "SAP Java Topology by JMX Page" > "SAP Topology by Shell Page" > "Schedule Discovery Page" > "Summary Page" |

Activity Name Page

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

| | |
|------------------------------|--|
| Important Information | <ul style="list-style-type: none"> • Enter a unique name for the SAP Software Configuration Discovery activity. • General information about the activity is available in "SAP Software Configuration Discovery Activity" above. <div style="background-color: #f0f0f0; padding: 5px; margin-top: 10px;"> <p>Note: This screen is not displayed when editing a Basic Software Configuration Discovery activity.</p> </div> |
| Wizard Map | The "SAP Software Configuration Discovery Activity" contains: Activity Name Page > "Define Credentials Page" > "SAP Ports Scanning Page" > "SAP Discovery by JCO Page" > "SAP Java Topology by JMX Page" > "SAP Topology by Shell Page" > "Schedule Discovery Page" > "Summary Page" |

User interface elements are described below:

| UI Element (A-Z) | Description |
|----------------------|--|
| Activity Name | <p>Enter a unique name for the SAP Software Configuration Discovery activity.</p> <p>Note: 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 Updated by attribute on the CI Properties page if a CI was updated by a job. Names can be changed at any time, however, the Job ID 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.

| | |
|------------------------------|--|
| Important information | <ul style="list-style-type: none"> Configure credentials depending on what must be discovered and which protocols are supported on your site's network. 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>. 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. General information about the activity is available in "SAP Software Configuration Discovery Activity" on the previous page. |
| Wizard map | <p>The "SAP Software Configuration Discovery Activity" contains:</p> <p>"Activity Name Page" > Define Credentials Page > "SAP Ports Scanning Page" > "SAP Discovery by JCO Page" > "SAP Java Topology by JMX Page" > "SAP Topology by Shell Page" > "Schedule Discovery Page" > "Summary Page"</p> |

Protocol pane

Lists the protocols that are available for this activity.

User interface elements are described below:




| UI Element | Description |
|---|---|
|  | Select All. Selects all protocols or selects all credentials for a selected protocol. |
|  | Clear Selections. Clears all selected credentials or clears all selected protocols. |
|  | Invert Selections. 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.

| | |
|------------------------------|---|
| Important information | <ul style="list-style-type: none"> To sort the credentials in a column in ascending or descending order, click the column header. To edit parameters of a credentials, double-click a credential to open the Protocol Parameters dialog box. 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>. |
|------------------------------|---|

User interface elements are described below:

| UI Element | Description |
|---|--|
|  | <p>Create New Connection Details. 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 Data Flow Management > Universal Discovery > Zone-Based Discovery tab > Activity Jobs tab. Ensure that you create credentials for all of the protocols in the Protocol pane for the activity.</p> |
|  | Remove Connection Details. Removes the selected credential. |
|  | Edit Connection Details. Opens the Protocol Parameters dialog box, enabling you to edit the credentials for the selected protocol. |

| UI Element | Description |
|---|---|
|  | <p>Move Entry Up/Move Entry Down. 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>Note: Moving credentials affects the value in the Index column.</p> |
|  | Select All. Selects all protocols or selects all credentials for a selected protocol. |
|  | Clear Selections. Clears all selected credentials or clears all selected protocols. |
|  | Invert Selections. All credentials or protocols that were selected are deselected, and all credentials or protocols that were not selected are selected. |
| Selected | Enables you to select credentials to use for the activity. |
| Index | Indicates the order in which the system selects credential instances to make a connection attempt. The lower the index, the higher the priority. |
| Scope | Indicates the network scope of the Data Flow Probe that uses the selected credential. This value is configured in the Protocol Parameter dialog box, in the Network Scope field. For more information, see the section describing the Protocol Parameter dialog box in the <i>HP Universal CMDB Data Flow Management Guide</i> . |
| User Name | The description of the credential that is configured in the Protocol Parameters dialog box. |
| User Label | The description of the credential that is configured in the Protocol Parameters dialog box. |
| Port Number | The port number that is configured in the Protocol Parameters dialog box. |



SAP Ports Scanning Page

Enables you to configure the ports to be scanned.

| | |
|------------------------------|--|
| Important Information | General information about the wizard is available in "SAP Software Configuration Discovery Activity" on page 77 . |
| Wizard Map | The "SAP Software Configuration Discovery Activity" contains: "Activity Name Page" > "Define Credentials Page" > SAP Port Scanning Page > "SAP |

| | |
|--|---|
| | Discovery by JCO Page > "SAP Java Topology by JMX Page" > "SAP Topology by Shell Page" > "Schedule Discovery Page" > "Summary Page" |
|--|---|

User interface elements are described below:

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



SAP Discovery by JCO Page

Enables you to select detailed preferences for the SAP Software Configuration Discovery activity using the JCO protocol.

| | |
|------------------------------|--|
| Important Information | General information about the wizard is available in "SAP Software Configuration Discovery Activity" on page 77. |
| Wizard Map | The "SAP Software Configuration Discovery Activity" contains: "Activity Name Page" > "Define Credentials Page" > "SAP Ports Scanning Page" > SAP Discovery by JCO Page > "SAP Java Topology by JMX Page" > "SAP Topology by Shell Page" > "Schedule Discovery Page" > "Summary Page" |

User interface elements are described below:

| UI Element | Description |
|------------------------|--|
| SAP JCO Drivers | Select the check box and click Import file... to locate the appropriate SAP JCo files as follows: JCo version 3.x (3.07 and later) <ul style="list-style-type: none"> • sapjco3.jar • sapjco3.dll JCo version 2.x <ul style="list-style-type: none"> • sapjco.jar • sapjcorfc.dll |

| UI Element | Description |
|--|--|
| | <ul style="list-style-type: none"> librfc32.dll |
| <p>Discover SAP ABAP Topology</p> | <p>Select the check box to enable SAP ABAP Topology discovery.</p> <p>Click the  button beside Discovery Options to display the available options.</p> <ul style="list-style-type: none"> Discover RFC Connections <p>Select this check box to enable discovery of RFC connections of the SAP system.</p> Discover SAP Server Profiles <p>Select this check box to enable discovery of SAP profiles by querying the SAP database.</p> Report Software Components as configuration file <p>Select this check box to enable reporting of Software Components as a configuration file. If unselected, each Software Component is reported as a separate CI.</p> |
| <p>Discover SAP Applications</p> | <p>Select the check box to enable SAP Applications discovery.</p> <p>Click the  button beside Discovery Options to display the available options.</p> <ul style="list-style-type: none"> SAP application components discovery <p>Select this check box to enable discovery of SAP application components.</p> SAP transactions discovery <p>Select either or both check boxes to enable discovery of active transactions, or all transactions, as required.</p> Discover transaction changes <p>Select this check box to enable discovery of transaction changes. Complete the following to specify the time period for the discovery:</p> <ul style="list-style-type: none"> Transaction changes interval; this is the number of days before the current date Transaction changes start date Transaction changes start time Transaction changes end date |


| UI Element | Description |
|--------------------------------------|---|
| | ◦ Transaction changes end time |
| Discover SAP Business Layer | Select the check box to enable SAP Business Layer discovery. |
| Discover SAP Solution Manager | Select the check box to enable SAP Solution Manager Topology discovery. |

SAP Java Topology by JMX Page

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

| | |
|------------------------------|--|
| Important Information | General information about the wizard is available in "SAP Software Configuration Discovery Activity" on page 77. |
| Wizard Map | The "SAP Software Configuration Discovery Activity" contains: "Activity Name Page" > "Define Credentials Page" > "SAP Ports Scanning Page" > "SAP Discovery by JCO Page" > SAP Java Topology by JMX Page > "SAP Topology by Shell Page" > "Schedule Discovery Page" > "Summary Page" |

User interface elements are described below:

| UI Element | Description |
|-----------------------------------|---|
| Discover SAP Java Topology | <p>Select the check box to enable SAP Java Topology discovery.</p> <p>Click the  button beside Discovery Options to display the available options.</p> <p>Select the check box for the versions to be discovered. Click Import file... to locate the following files:</p> <ul style="list-style-type: none"> • exception.jar • logging.jar • sapj2eeclient.jar • sapxmltoolkit.jar |

SAP Topology by Shell Page

Enables you to select detailed preferences for the SAP Software Configuration Discovery activity using Shell protocols.

| | |
|------------------------------|--|
| Important Information | General information about the wizard is available in " SAP Software Configuration Discovery Activity " on page 77. |
| Wizard Map | The " SAP Software Configuration Discovery Activity " contains: " Activity Name Page " > " Define Credentials Page " > " SAP Ports Scanning Page " > " SAP Discovery by JCO Page " > " SAP Java Topology by JMX Page " > SAP Topology Discovery by Shell Page > " Schedule Discovery Page " > " Summary Page " |

User interface elements are described below:


| UI Element | Description |
|-------------------------|---|
| Discover SAP ITS | Select the check box to enable SAP Internet Transaction Server discovery. |

Schedule Discovery Page

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

| | |
|------------------------------|---|
| Important Information | General information about the wizard is available in "SAP Software Configuration Discovery Activity" on page 77. |
| Wizard Map | The "SAP Software Configuration Discovery Activity" contains: "Activity Name Page" > "Define Credentials Page" > "SAP Ports Scanning Page" > "SAP Discovery by JCO Page" > "SAP Java Topology by JMX Page" > "SAP Topology by Shell Page" > Shell Discovery Page > "Summary Page" |

User interface elements are described below:

| UI Element (A–Z) | Description |
|--|--|
|  | Click the Time Templates icon to open the Time Templates 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> . |
| Allow Discovery to run at | Select the time template that you want to use to schedule the discovery activity. |
| End by | Choose the date and time when the discovery activity must finish running by selecting the End by check box, opening the calendar, and selecting the date and time. |
| Repeat Every | 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). |
| Start at | Choose the date and time when the discovery activity must begin running by selecting the Start at 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 SAP Software Configuration Discovery activity.


| | |
|------------------------------|--|
| Important Information | General information about the wizard is available in "SAP Software Configuration Discovery Activity" on page 77. |
| Wizard Map | The "SAP Software Configuration Discovery Activity" contains: "Activity Name Page" > "Define Credentials Page" > "SAP Ports Scanning Page" > "SAP Discovery by JCO Page" > "SAP Java Topology by JMX Page" > "SAP Topology by Shell Page" > "Schedule Discovery Page" > Summary Page |

User interface elements are described below:

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

Chapter 10: Virtualization Software Configuration Discovery Activity

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

| | |
|------------------------------|--|
| To access | Go to Data Flow Management > Universal Discovery > Zone-Based Discovery > Management Zones > select a Management Zone > click  > select New Discovery Activity > Software Configuration > Virtualization |
| Important Information | For more information, hold the pointer over a question mark icon. |
| Wizard Map | The Virtualization Software Configuration Discovery Activity contains: "Activity Name Page" > "Define Credentials Page" > "Discovery Preferences Page" > "Schedule Discovery Page" > "Summary Page" |

Activity Name Page

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

| | |
|------------------------------|---|
| Important Information | <ul style="list-style-type: none"> Enter a unique name for the Virtualization Software Configuration Discovery activity. General information about the activity is available in "Virtualization Software Configuration Discovery Activity" above. <div style="background-color: #f0f0f0; padding: 5px; margin-top: 10px;"> <p>Note: This screen is not displayed when editing a Virtualization Software Configuration Discovery activity.</p> </div> |
| Wizard Map | The "Virtualization Software Configuration Discovery Activity" contains: Activity Name Page > "Define Credentials Page" > "Discovery Preferences Page" > "Schedule Discovery Page" > "Summary Page" |

User interface elements are described below:

| UI Element (A-Z) | Description |
|----------------------|---|
| Activity Name | Enter a unique name for the Virtualization Software Configuration activity. <div style="background-color: #f0f0f0; padding: 10px; margin-top: 10px;"> <p>Note: 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 Updated by attribute on the CI Properties page if a CI was updated by a job. Names can be changed at any time, however, the Job ID attribute that is associated with the job name does not change.</p> </div> |

Define Credentials Page





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

| | |
|------------------------------|---|
| Important information | <ul style="list-style-type: none"> Configure credentials depending on what must be discovered and which protocols are supported on your site's network. 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>. 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 UCMDB Discovery and Integrations Content Guide - Supported Content</i> document. General information about the activity is available in "Virtualization Software Configuration Discovery Activity" on the previous page. |
| Wizard map | The " Virtualization Software Configuration Discovery Activity " contains: "Activity Name Page" > Define Credentials Page > " Discovery Preferences Page " > " Schedule Discovery Page " > " Summary Page " |

Protocol pane

Lists the protocols that are available for this activity.

User interface elements are described below:




| UI Element | Description |
|---|---|
|  | Select All. Selects all protocols or selects all credentials for a selected protocol. |
|  | Clear Selections. Clears all selected credentials or clears all selected protocols. |
|  | Invert Selections. 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.

| | |
|------------------------------|---|
| Important information | <ul style="list-style-type: none"> To sort the credentials in a column in ascending or descending order, click the column header. To edit parameters of a credentials, double-click a credential to open the Protocol Parameters dialog box. 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>. |
|------------------------------|---|

User interface elements are described below:

| UI Element | Description |
|---|---|
|  | <p>Create New Connection Details. 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 Data Flow Management > Universal Discovery > Zone-Based Discovery tab > Activity Jobs tab. Ensure that you create credentials for all of the protocols in the Protocol pane for the activity.</p> |
|  | Remove Connection Details. Removes the selected credential. |
|  | Edit Connection Details. Opens the Protocol Parameters dialog box, enabling you to edit the credentials for the selected protocol. |

| UI Element | Description |
|---|---|
|  | <p>Move Entry Up/Move Entry Down. 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>Note: Moving credentials affects the value in the Index column.</p> |
|  | <p>Select All. Selects all protocols or selects all credentials for a selected protocol.</p> |
|  | <p>Clear Selections. Clears all selected credentials or clears all selected protocols.</p> |
|  | <p>Invert Selections. All credentials or protocols that were selected are deselected, and all credentials or protocols that were not selected are selected.</p> |
| <p>Selected</p> | <p>Enables you to select credentials to use for the activity.</p> |
| <p>Index</p> | <p>Indicates the order in which the system selects credential instances to make a connection attempt. The lower the index, the higher the priority.</p> |
| <p>Trust Store Path</p> | <p>The full path to the Trust Store file containing the trusted certificates.</p> |
| <p>User Name</p> | <p>The description of the credential that is configured in the Protocol Parameters dialog box.</p> |
| <p>User Label</p> | <p>The description of the credential that is configured in the Protocol Parameters dialog box.</p> |
| <p>Protocol</p> | <p>The protocol used to connect to the http server: HTTP or HTTPS.</p> <p>Default: HTTP</p> |
| <p>Port Number</p> | <p>The port number that is configured in the Protocol Parameters dialog box.</p> |
| <p>Trust Store Password</p> | <p>The password to access the Trust Store file.k</p> |
| <p>Scope</p> | <p>Indicates the network scope of the Data Flow Probe that uses the selected credential. This value is configured in the Protocol Parameter dialog box, in the Network Scope field. For more information, see the section describing the Protocol Parameter dialog box in the <i>HP Universal CMDB Data Flow Management Guide</i>.</p> |

| UI Element | Description |
|-------------------------|--|
| Use SSL (VMware) | Selects Yes or No to specify whether to use a Secure Sockets Layer (SSL) protocol to access VMware Infrastructure. True: DFM uses the SSL protocol, and the prefix is set to HTTPS. False: DFM uses the HTTP protocol. |

Discovery Preferences Page

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

| | |
|------------------------------|---|
| Important Information | General information about the wizard is available in "Virtualization Software Configuration Discovery Activity" on page 88. |
| Wizard Map | The "Virtualization Software Configuration Discovery Activity" contains: "Activity Name Page" > "Define Credentials Page" > Discovery Preferences Page > "Schedule Discovery Page" > "Summary Page" |

User interface elements are described below:

| UI Element | Description |
|--|---|
| Discover HP nPartitions | Select the check box to run HP nPartitions topology discovery. |
| Discover Microsoft Hyper-V | Select the check box to run Microsoft Hyper-V topology discovery. |
| Discover IBM HMC | Select the check box to run IBM HMC topology discovery. Click the <input type="checkbox"/> button beside Discovery Options to display the available option: <ul style="list-style-type: none"> • Report LPAR name as hostname Select to report the LPAR name as hostname. |
| Discover Oracle VM Server for SPARC | Select the check box to run Oracle VM Server for SPARC Technology discovery. Click the <input type="checkbox"/> button beside Discovery Options to display the available option: <ul style="list-style-type: none"> • Match Guest LDOMs domain names as hostnames Select to enable Guest LDOMs to be reported with their hostnames that are set to domain names. This option may aid in hosts reconciliation. |
| Discover Solaris Zone | Select the check box to run Solaris Zone topology discovery. Click the <input type="checkbox"/> button beside Discovery Options to display the available option: <ul style="list-style-type: none"> • Login via zlogin as connected user Select to enable the login with zlogin connected to the global zone user |

| UI Element | Description |
|------------------------------------|--|
| | <p>account.</p> <p>Default: zlogin uses the root account.</p> |
| <p>Discover VMware</p> | <p>Select the check box to run VMware ESX/vMotion topology discovery.</p> <p>Click the <input type="checkbox"/> button beside Discovery Options to display the available options:</p> <ul style="list-style-type: none"> • VMware SDK libraries <p>Select the check box and click Import file... to locate the appropriate JAR files, as follows:</p> <ul style="list-style-type: none"> ◦ vim.jar ◦ vim25.jar • Report power-down virtual machines <p>Select to report power-down virtual machines.</p> • vMotion Options <ul style="list-style-type: none"> ◦ Use event based discovery <p>Select to enable the discovery job to monitor new vMotion events until the discovery stops.</p> <p>If this check box is cleared, only vMotion events that happened during last History Hours can be discovered.</p> ◦ History Hours <p>Select to specify the time within which discovery checks for untracked vMotion events.</p> ◦ Retries number <p>Select to specify the maximum number of times that the discovery attempts to restore the connection.</p> <p>Default: Zero (0). Zero means that the number of retries is unlimited.</p> |
| <p>Discover Xen and KVM</p> | <p>Select the check box to run Xen and KVM topology discovery.</p> <p>Click the <input type="checkbox"/> button beside Discovery Options to display the available option:</p> |


| UI Element | Description |
|----------------------------|---|
| | <ul style="list-style-type: none"> • Virsh path Path to the virsh management utility. |
| Discover Citrix Xen | Select the check box to run Citrix Xen topology discovery. |

Schedule Discovery Page

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

| | |
|------------------------------|---|
| Important Information | General information about the activity is available in "Virtualization Software Configuration Discovery Activity" on page 88. |
| Wizard Map | The "Virtualization Software Configuration Discovery Activity" contains: "Activity Name Page" > "Define Credentials Page" > "Discovery Preferences Page" > Schedule Discovery Page > "Summary Page" |

User interface elements are described below:

| UI Element (A–Z) | Description |
|---|--|
|  | Click the Time Templates icon to open the Time Templates 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> . |
| Allow Discovery to run at | Select the time template that you want to use to schedule the discovery activity. |
| End by | Choose the date and time when the discovery activity must finish running by selecting the End by check box, opening the calendar, and selecting the date and time. |
| Repeat Every | 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). |
| Start at | Choose the date and time when the discovery activity must begin running by selecting the Start at 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 Virtualization Software Configuration Discovery activity.


| | |
|-------------------------------------|--|
| <p>Important Information</p> | <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 "Virtualization Software Configuration Discovery Activity" on page 88.</p> |
| <p>Wizard Map</p> | <p>The "Virtualization Software Configuration Discovery Activity" contains:</p> <p>"Activity Name Page" > "Define Credentials Page" > "Discovery Preferences Page" > "Schedule Discovery Page" > Summary Page</p> |

User interface elements are described below:

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

Chapter 11: Web Servers Software Configuration Discovery Activity

The Web Servers Software Configuration Discovery activity discovers web servers software configuration information to detect and map out what is running in your data center.

| | |
|------------------------------|---|
| To access | Go to Data Flow Management > Universal Discovery > Zone-Based Discovery > Management Zones > select a Management Zone > click  > select New Discovery Activity > Software Configuration > Web Servers |
| Important Information | For more information, hold the pointer over a question mark icon. |
| Wizard Map | The Web Servers Software Configuration Discovery Activity contains: "Activity Name Page" > "Discovery Preferences Page" > "Schedule Discovery Page" > "Summary Page" |

Activity Name Page

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

| | |
|------------------------------|--|
| Important Information | <ul style="list-style-type: none"> • Enter a unique name for the Web Servers Software Configuration Discovery activity. • General information about the activity is available in "Web Servers Software Configuration Discovery Activity" above. <div style="background-color: #f0f0f0; padding: 5px; margin-top: 10px;"> <p>Note: This screen is not displayed when editing a Web Servers Software Configuration Discovery activity.</p> </div> |
| Wizard Map | The "Web Servers Software Configuration Discovery Activity" contains: Activity Name Page > "Discovery Preferences Page" > "Schedule Discovery Page" > "Summary Page" |

User interface elements are described below:

| UI Element (A-Z) | Description |
|-------------------------|--|
| Activity Name | <p>Enter a unique name for the Web Servers Software Configuration activity.</p> <p>Note: 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 Updated by attribute on the CI Properties page if a CI was updated by a job. Names can be changed at any time, however, the Job ID attribute that is associated with the job name does not change.</p> |

Discovery Preferences Page

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

| | |
|------------------------------|--|
| Important Information | General information about the wizard is available in " Web Servers Software Configuration Discovery Activity " on page 97. |
| Wizard Map | The " Web Servers Software Configuration Discovery Activity " contains: "Activity Name Page" > Discovery Preferences Page > " Schedule Discovery Page " > " Summary Page " |

User interface elements are described below:

| UI Element | Description |
|------------------------------------|---|
| Run Apache Discovery | <p>Select the check box and to run Apache discovery.</p> <p>Click the <input type="checkbox"/> button beside Discovery Options to display the available option:</p> <ul style="list-style-type: none"> • Apache Configuration Files <p>Select to specify the full path to Apache configuration files, including file names.</p> <div style="background-color: #f0f0f0; padding: 5px; margin-top: 10px;"> <p>Note: Multiple files must be separated by a semicolon (;).</p> </div> |
| Run Microsoft IIS Discovery | <p>Select the check box to run Microsoft IIS discovery.</p> <p>Click the <input type="checkbox"/> button beside Discovery Options to display the available options:</p> <ul style="list-style-type: none"> • Discovery Webservices <p>Select to discover webservices.</p> <ul style="list-style-type: none"> • Check Availability of Web Sites <p>Select to check whether reported URLs should be verified by HTTP(s).</p> <ul style="list-style-type: none"> • Report Legacy Topology <p>Select to report the legacy IIS topology.</p> <ul style="list-style-type: none"> • Prefer Appcmd |


| UI Element | Description |
|------------|---|
| | <p>Select to use AppCmd.exe to discover IIS.</p> <ul style="list-style-type: none"> • Extensions of Webservice files <p>Select to list the file extensions that detect as web services.</p> <div style="background-color: #f0f0f0; padding: 5px; margin-top: 10px;"> <p>Note: Wildcards are not supported.</p> </div> |

Schedule Discovery Page

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

| | |
|------------------------------|--|
| Important Information | General information about the activity is available in " Web Servers Software Configuration Discovery Activity " on page 97. |
| Wizard Map | The " Web Servers Software Configuration Discovery Activity " contains: " Activity Name Page " > " Discovery Preferences Page " > Schedule Discovery Page > " Summary Page " |

User interface elements are described below:

| UI Element (A-Z) | Description |
|---|--|
|  | Click the Time Templates icon to open the Time Templates 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> . |
| Allow Discovery to run at | Select the time template that you want to use to schedule the discovery activity. |
| End by | Choose the date and time when the discovery activity must finish running by selecting the End by check box, opening the calendar, and selecting the date and time. |
| Repeat Every | 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). |

| UI Element (A-Z) | Description |
|------------------|--|
| Start at | Choose the date and time when the discovery activity must begin running by selecting the Start at 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 Web Servers Software Configuration Discovery activity.

| | |
|------------------------------|--|
| Important Information | Review configurations and decide whether to run the activity or go back and make changes. General information about the activity is available in "Web Servers Software Configuration Discovery Activity" on page 97. |
| Wizard Map | The "Web Servers Software Configuration Discovery Activity" contains: "Activity Name Page" > "Discovery Preferences Page" > "Schedule Discovery Page" > Summary Page |

User interface elements are described below:

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

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