

Lab 08: Collecting Data for Virtualization

In this lab, you create a VMware Read-Only user with required permissions, add a VMware and a Hyper-V Data Collector policy, and perform VMware and Hyper-V Data Collection.

Lab Exercises

This lab includes the following exercises:

- [Exercise A: Creating a VMware Read-Only User with Required Permissions](#)
- [Exercise B: Adding a VMware Data Collector Policy](#)
- [Exercise C: Manually Running the VMware Data Collection](#)
- [Exercise D: Adding a Microsoft Hyper-V Data Collector Policy](#)
- [Exercise E: Manually Running the Hyper-V Data Collection](#)

⚠ It is recommended to use **Google Chrome** to perform the lab exercises. After launching the lab, zoom out the lab browser window to 80% to fit the APTARE Portal interface and view all the tabs within the window.

Exercise A: Creating a VMware Read-Only User with Required Permissions

The VMware Data Collector uses the VMware Infrastructure SDK and REST APIs over HTTPS to retrieve data from ESX servers. The VMware Data Collector is multi-threaded, enabling it to poll up to five vCenters in one polling cycle.

In this exercise, you create and configure a vSphere user with the necessary permissions for Virtualization Manager data collection access.

Creating a Custom Role

- ☐ 1. Sign in to the  **console** system using the following credentials.


Username:  **EXAMPLE\Administrator**

Password:  **P@ssw0rd**

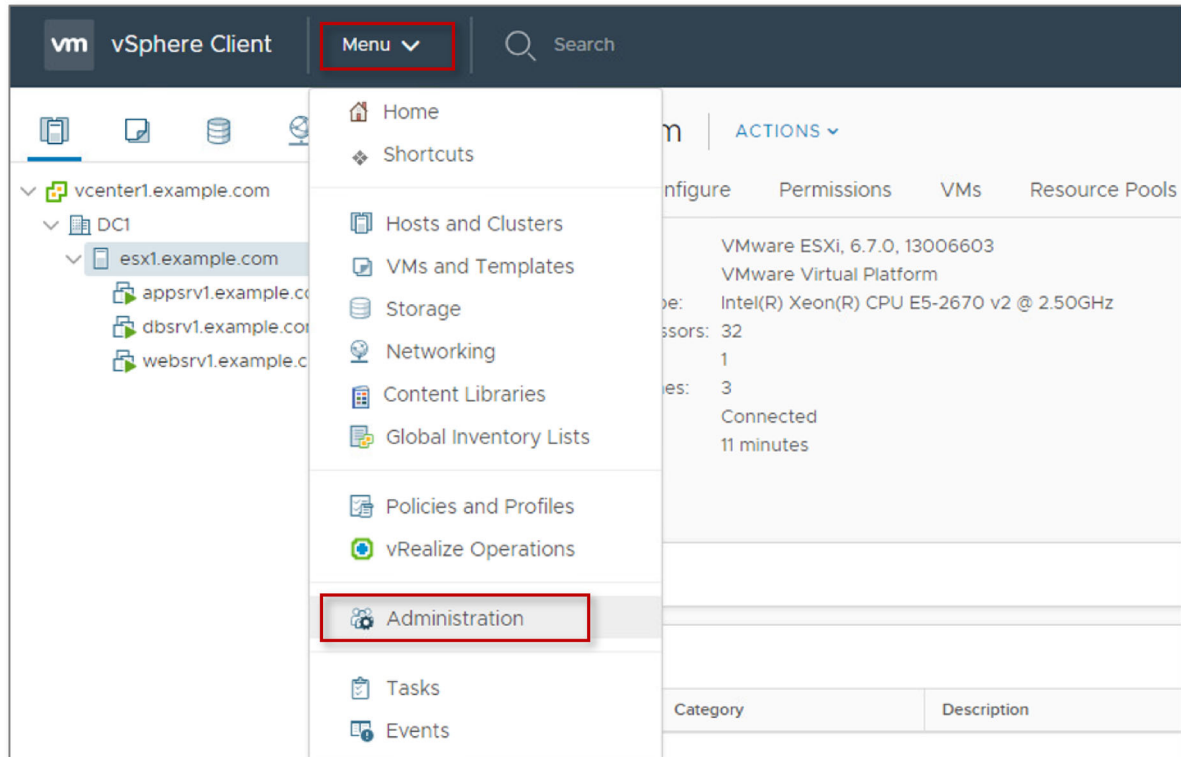
- ☐ 2. Double-click the **vSphere Client** shortcut, located on the desktop of the **console.example.com** system, to launch the **vSphere Web Client**.
- ☐ 3. If the **Your connection is not private** message is displayed, click **Advanced > Proceed to vcenter1.example.com (unsafe)** link. The **VMware vCenter Single Sign-On** page is displayed.
- ☐ 4. Login to the **vSphere Client** using the credentials below.

Username:  **administrator@vsphere.local**

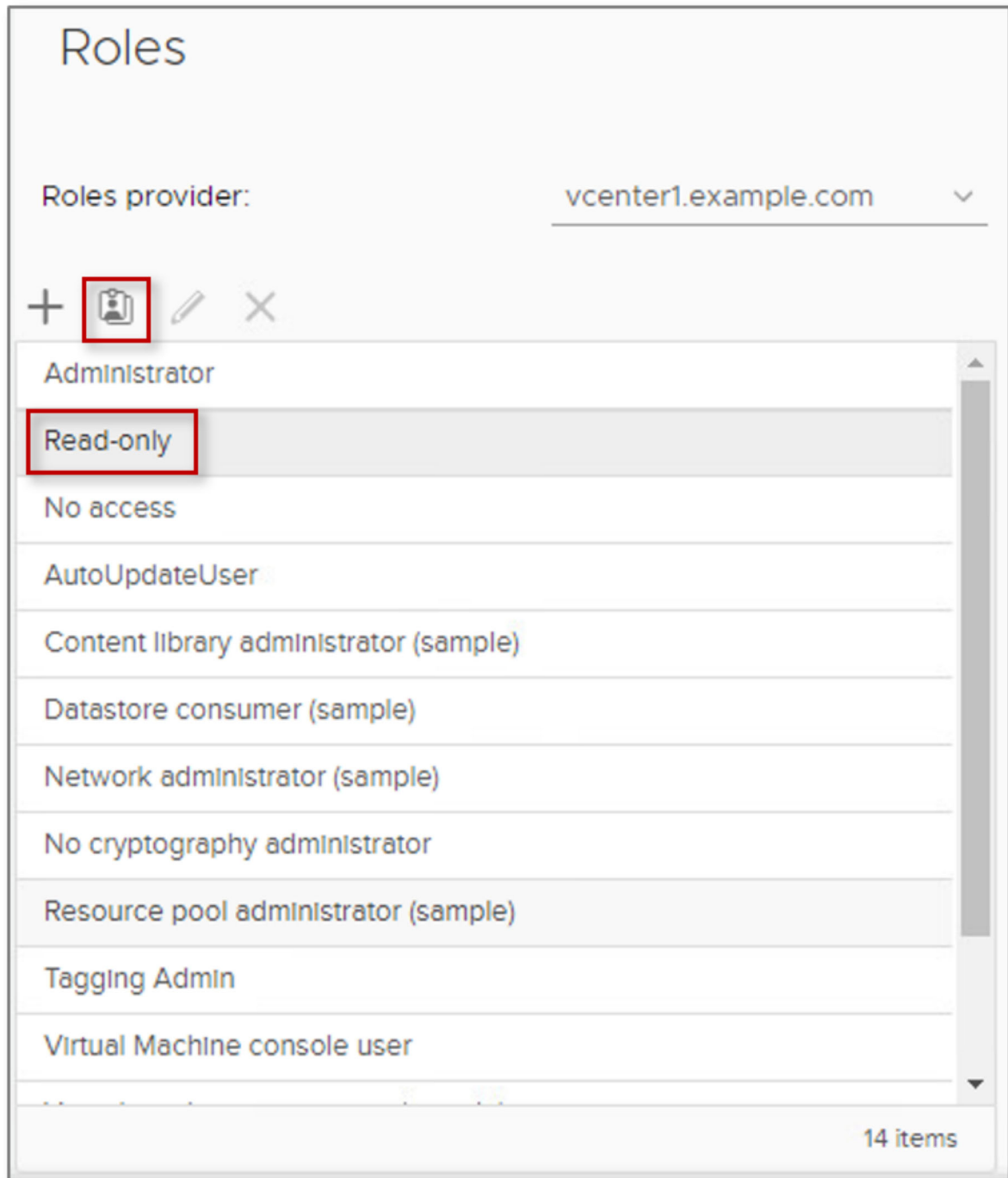
Password:  **P@ssw0rd**


 The **vSphere Client** can take a few minutes to load after logging in.

- ☐ 5. From the vSphere Client Home, click **Menu > Administration** as illustrated in the figure below.



- ☐ 6. Under **Administration**, select **Access Control > Roles**. The available **Roles** are displayed in the center pane of the **vSphere Web Client**.
- ☐ 7. From the list of **Roles**, select the **Read-only** role and click the **Clone role action** icon as illustrated in the figure below.

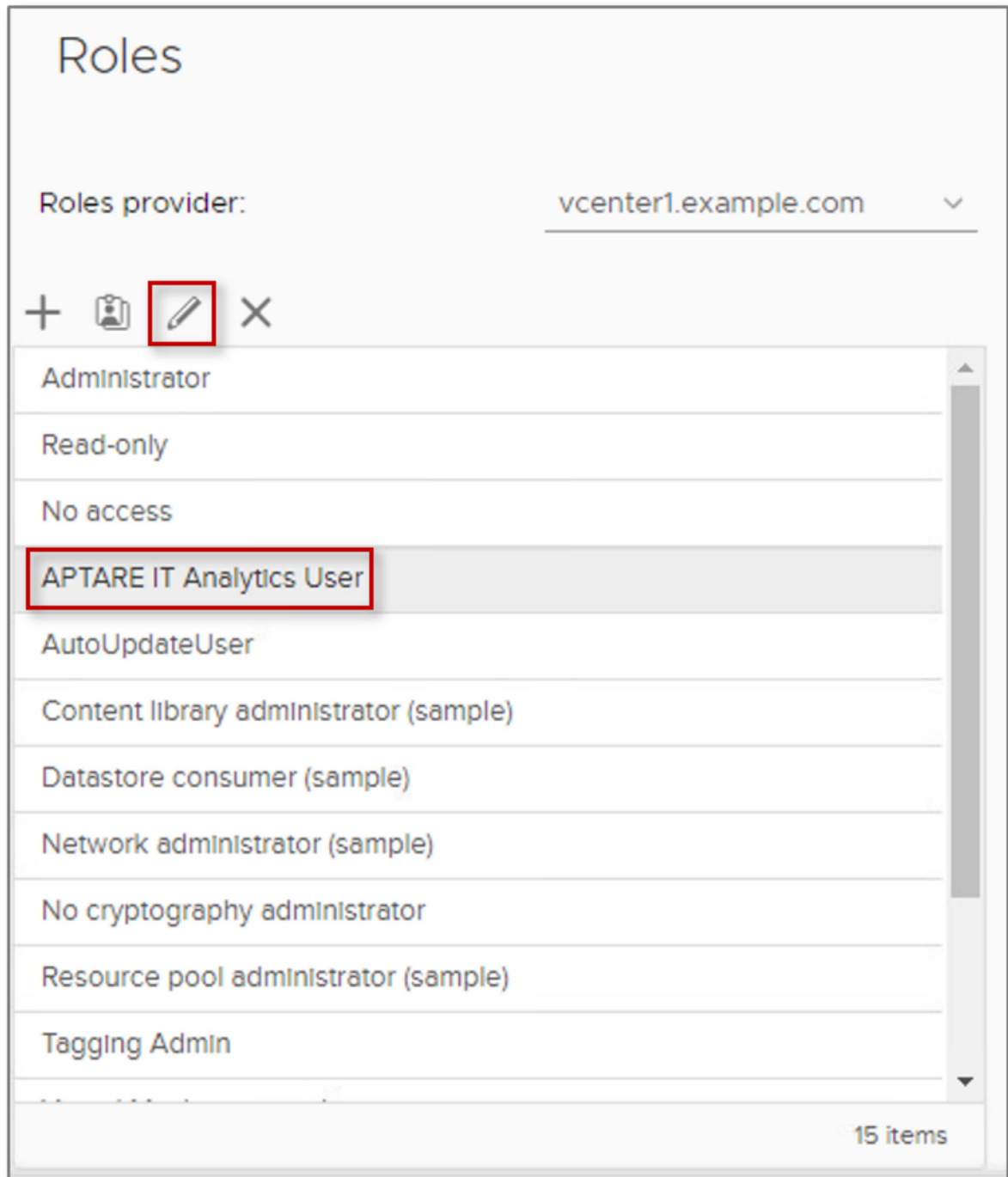


 If the **Clone role action** icon is greyed out, reboot the **vcenter1.example.com** server, wait for a few minutes after rebooting the **vcenter1.example.com** server and then return to **step 7** in this exercise.

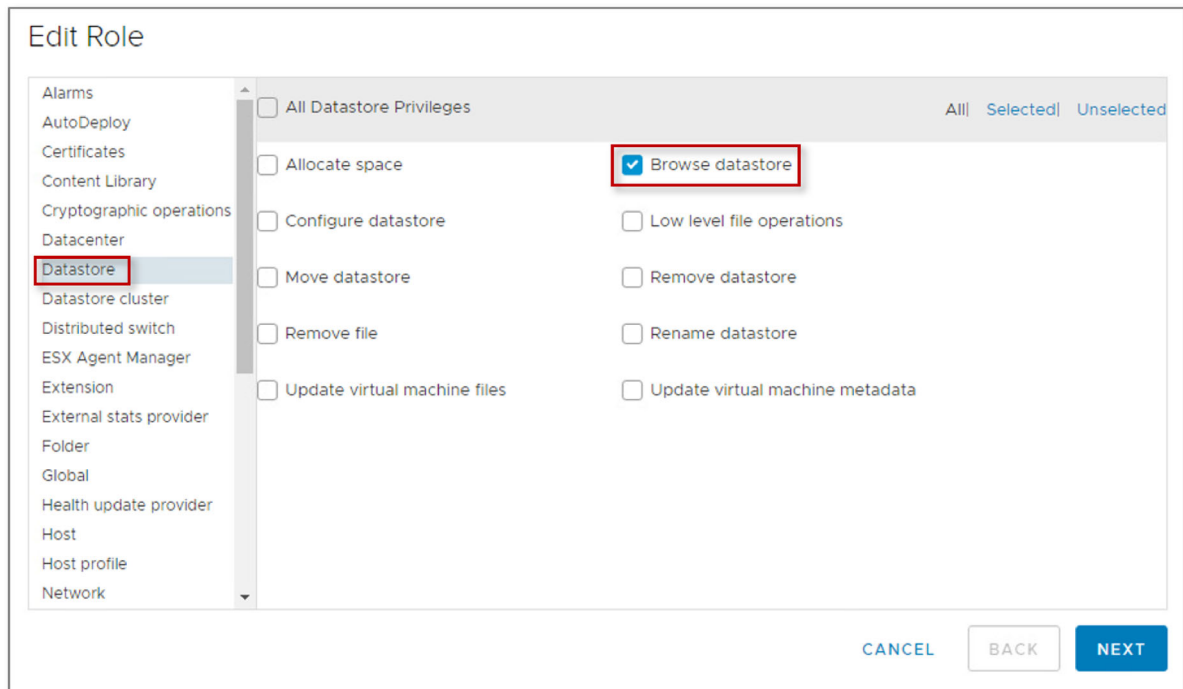
- ☐ 8. In the **Clone role action** dialog box, change the **Role name** to **APTARE IT Analytics User** and remove the **Description**.
- ☐ 9. Click **OK** to save the **Role**.

You are returned to the center pane of the **vSphere Web Client** and the **APTARE IT Analytics User** role is now listed in the list of **Roles**.

- ☐ 10. From the list of **Roles**, select the **APTARE IT Analytics User** and click the **Edit role Action** button as illustrated in the figure below.



- ☐ 11. In the **Edit Role** dialog box that is displayed, select **Datastore** > **Browse datastore** as illustrated in the figure below.



The only permission that is required beyond the **Read-Only** role is **Browse Datastore**.

- ☐ 12. Click **NEXT** and then click **FINISH** to save the changes.

Creating a new user

- ☐ 13. Under **Administration**, select **Single Sign On > Users and Groups**. The available **Users** are displayed in the center pane of the **vSphere Web Client**.
- ☐ 14. In the center pane of the **vSphere Web Client**, click the **Domain** drop-down list and change the **Domain** to **VSPHERE.LOCAL**.
- ☐ 15. Click **ADD USER**. The **Add User** dialog box is displayed.
- ☐ 16. In the **Add User** dialog box, enter the following details:

Field	Value
Username	aptare
Password	P@ssw0rd
Confirm Password	P@ssw0rd

- ☐ 17. Leave all the other fields blank and click **OK** to create the user.

You are returned to the center pane of the **vSphere Web Client** and the **aptare** user is now listed in the list of **Users**.

Assigning the APTARE IT Analytics User role to user aptare



18. Under **Administration**, select **Access Control > Global Permissions**. The default **Global Permissions** are displayed in the center pane of the **vSphere Web Client**.
- ☐ 19. In the center pane of the **vSphere Web Client**, click the **Add Permission (+)** button. The **Add Permission** dialog box is displayed.
- ☐ 20. In the **Add Permission** dialog box, enter the details as illustrated in the figure below.

The screenshot shows the 'Add Permission' dialog box. The title bar reads 'Add Permission | Global Permission Root'. The 'User' field contains 'vsphere.local'. Below it is a search field with the text 'Q aptare'. The 'Role' field contains 'APTARE IT Analytics User'. A checkbox labeled 'Propagate to children' is checked. At the bottom right are 'CANCEL' and 'OK' buttons. Red arrows point to the 'User', search, and 'Role' fields.

⚠ At times, after manually entering the user (**aptare**) in the **Add Permission** dialog box does not work as expected and can cause the data collection to fail, hence it is recommended to search for the user (**aptare**) within the **Add Permission** dialog box and then select the user (**aptare**) from the search results that are displayed.

- ☐ 21. Click **OK** to assign the **APTARE IT Analytics User** role to user **aptare**.
- ☐ 22. Log out of the **vSphere Client** and close the **Google Chrome** browser window.

[Go to Lab Exercises](#)

Exercise B: Adding a VMware Data Collector Policy


In this exercise, you add a VMware Data Collector Policy.

- ☐ 1. On the desktop of the **console** system, double-click the **Aptare Portal** shortcut to launch the **APTARE IT Analytics Portal**.
- ☐ 2. When the **APTARE IT Analytics Portal** login page is displayed, and login using the following credentials.

Username:

Password:


- ☐ 3. In the **APTARE IT Analytics Portal**, navigate to **Admin > Data Collection > Collector Administration**. The list of currently configured Portal Data Collectors is displayed.

 The **Admin** tab is located on the menu bar in the **APTARE IT Analytics Portal**.

- ☐ 4. Select **collector1** (**collector1** icon) in the list of currently configured Data Collectors and then click **Add Policy**.
- ☐ 5. In the resulting menu, under **Virtualization**, click **VMware**. The **VMware Data Collector Policy** dialog box is displayed.
- ☐ 6. In the **VMware Data Collector Policy** dialog box, Enter the following details:

Field	Value
Policy Domain	<input type="text" value="Aptare"/>
ESX/Virtual Center Server	<input type="text" value="vcenter1.example.com"/>
User ID	<input type="text" value="aptare@vsphere.local"/>
Password	<input type="text" value="P@ssw0rd"/>
Repeat Password	<input type="text" value="P@ssw0rd"/>

- ☐ 7. Retain the default **Optimization Level**.
- ☐ 8. Select the **Datastore Scan**, **ESX Server Performance**, and **Virtual Machine Performance** probes and retain the default schedules.

 By default the **Inventory** probe runs every 5 hours, the **ESX Server Performance** probe runs every 15 minutes, the **Virtual Machine Performance** probe runs every 3 hours, and the **Datastore Scan** probe is disabled.

- ☐ 9. In the **VMware Data Collector Policy** dialog box, click **OK** to create the policy.



 You are returned to the **Collector Administration** page, note that the new VMware policy is assigned to **collector1**.

For this lab, you will run the VMware Data Collection manually instead of waiting for it to run on schedule.


- ☐ 10. Remain logged into the **APTARE IT Analytics Portal**. You will return to it in the next exercise.

[Go to Lab Exercises](#)

Exercise C: Manually Running the VMware Data Collection

In this exercise, you manually run the VMware Data Collection using the **checkinstall.bat** script located on the Data Collector server, **collector1**.

Running the VMware Data Collection

- ☐ 1. Sign in to the  **collector1** system using the following credentials.

Username:  **EXAMPLE\Administrator**

Password:  **P@ssw0rd**

- ☐ 2. Double-click the **Command Prompt** shortcut, located on the desktop of the **collector1** system, to launch the **Command Prompt**.

- ☐ 3. In the **Command Prompt** window, type the following command and press **Enter** to change directory to **C:\Program Files\Aptare\mbs\bin**.

Command:  **cd /d "C:\Program Files\Aptare\mbs\bin"**

- ☐ 4. In the **Command Prompt** window, type the following command and press **Enter** to run the **Checkinstall Utility**.


Command:  **checkinstall.bat**

- ☐ 5. At the **Choose the probe you want executed** prompt, type **2** to select **VMWARE** and press **Enter** to continue.

- ☐ 6. At the **Enter a number or comma-separated numbers ...** prompt, type **1** to select **vcenter1.example.com**, and press **Enter** to continue.

- ☐ 7. At the **Choose the probe you want executed** prompt, type **5** and press **Enter** to perform **CheckInstall** for all the configured probes.

When the probes are complete, the **Enter a number or comma-separated numbers ...** prompt is displayed.

 The probes may take 3-5 minutes to complete.

- ☐ 8. At the **Enter a number or comma-separated numbers ...** prompt, type **2** and press **Enter** to return to the main menu.

- ☐ 9. At the main menu, type **6** and press **Enter** to exit the utility.


 Wait for 3-5 minutes before performing the next steps.

- ☐ 10. In the **Command Prompt** window, type the following command to stop the **Aptare Agent** service.

Command:  **stopservices.bat**



- ☐ 11. In the **Command Prompt** window, type the following command to start the **Aptare Agent** service.

Command:

 The above steps 10, 11 are not required in a production environment.

- ☐ 12. In the **Command Prompt** window, type **exit** and press **Enter** to close the **Command Prompt** window.

Verifying VMware Data Collection in the Portal

- ☐ 13. Access the desktop of the  **console** system.
- ☐ 14. If required, sign in to the  **console** system using the credentials provided below.

Username:

Password:

- ☐ 15. Access the **APTARE IT Analytics Portal**.
- ☐ 16. If required, login to the **APTARE IT Analytics Portal** using the below credentials.

Username:

Password:

- ☐ 17. In the **APTARE IT Analytics Portal**, navigate to **Admin > Data Collection > Collection Status**. The list of currently configured Portal Data Collectors is displayed.
- ☐ 18. On the **Collection Status** page, click the **Refresh** link located next to the **Time Period** to clear any active filters.
- ☐ 19. On the **Collection Status** page, verify that the following probes have been completed successfully.
- Virtual Machine Performance
 - ESX Server Performance
 - Datastores Scan
 - Inventory

Probe Name	Device	Collector Name	Policy Name	Run Type	Probe State	Status	Start Date	Finish Date	Duration	Schedule	Policy Cha...	Details
Backup Generator	collector1	collector1	Veritas Back...	Scheduled		✓	Dec 12, 2021 2...	Dec 12, 2021 2...	00:00:00	Enabled	Yes	Details
Virtual Machine Performan...	esx1.example.com	collector1	VMware - vc...	Scheduled		✓	Dec 12, 2021 2...	Dec 12, 2021 2...	00:00:01	Enabled	Yes	Details
ESX Server Performance	esx1.example.com	collector1	VMware - vc...	Scheduled		✓	Dec 12, 2021 2...	Dec 12, 2021 2...	00:00:02	Enabled	Yes	Details
Datstores Scan	esx1.example.com	collector1	VMware - vc...	Scheduled		✓	Dec 12, 2021 2...	Dec 12, 2021 2...	00:00:08	Enabled	Yes	Details
Datstores Scan	(V0)	collector1	VMware - vc...	Scheduled		✓	Dec 12, 2021 2...	Dec 12, 2021 2...	00:00:08	Enabled	No	Details
Inventory	esx1.example.com	collector1	VMware - vc...	Scheduled		✓	Dec 12, 2021 2...	Dec 12, 2021 2...	00:00:08	Enabled	Yes	Details
Array Performance	netapp1.example.com	collector1	NetApp - net...	Scheduled		✗	Dec 12, 2021 2...	Dec 12, 2021 2...	00:00:01	Enabled	No	Details

📄 If any of the above probes have failed, refer to the above instructions and run the **checkinstall.bat** script again.

- ☐ 20. In the **APTARE IT Analytics Portal**, click **Inventory** located on the menu bar to navigate to the **Inventory** page.
- ☐ 21. On the **Inventory** page, click **Refresh** located on the **Hierarchy Panel** to refresh the view.

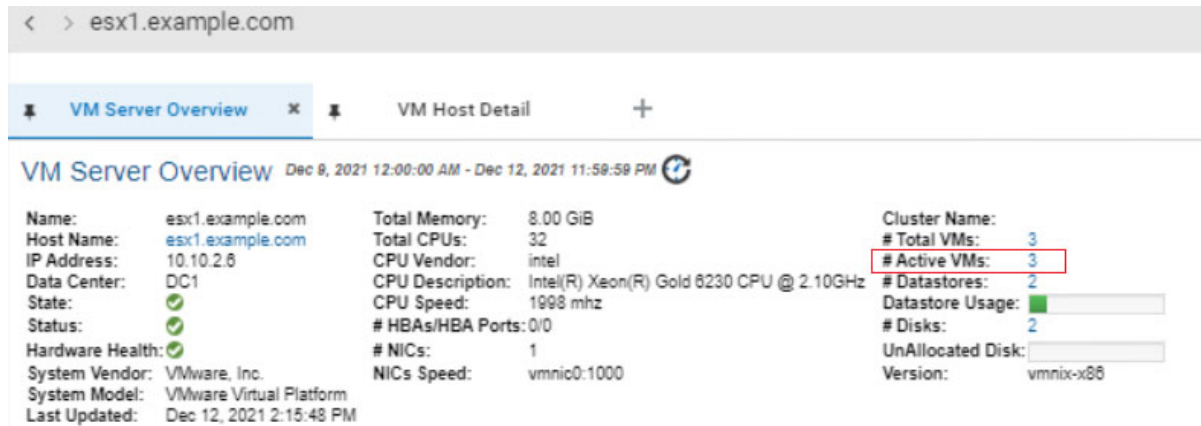
Name	Inventory
(none)	fe80::250:56ff:fe9b:b894
/bin/.hostname	fe80::250:56ff:fe9b:cf21
10.2.11.0	10.2.11.0
10.35.12.32	10.35.12.32
10.67.72.35	
10.67.72.36	
10.80.54.128	10.80.54.128
5022233c-f8a0-d852-5959-58ed2712df58	127.0.0.1
5027aed1-886c-a04a-5391-afada8a34c10	127.0.0.1
5029a79d-2a46-efab-c553-a5a6f11f7b41	127.0.0.1

- ☐ 22. In the **Hierarchy Panel**, note that:
 - The ESX Server, **esx1.example.com** has been added to the **VM Servers > VMware** host group.
 - All the Datstores configured on **esx1.example.com** (**datastore1** and **datastore2**) are added to the **Datstores > VMware** host group.
 - All the Virtual Machines running on the ESX Server, **esx1.example.com** are added to the **VM Guests > VMware** host group.

📄 You can also view the above information on the **VMware** management page.

- ☐ 23. In the **Hierarchy Panel**, click **VM Servers > VMware**. The **VMware** management page is displayed in the right pane.
- ☐ 24. On the **VMware** management page, click **Go to Inventory List** to access the inventory list view.

- ☐ 25. On the **VMware** management page, use the filter and search for **esx1.example.com**.
- ☐ 26. In the search results, click **esx1.example.com** (located under VM Servers row) to navigate to the **esx1.example.com** management page.
- ☐ 27. On the **esx1.example.com** management page, note that all the virtual machines configured on **esx1.example.com** are listed under the **VM Summary** section.
- ☐ 28. On the **esx1.example.com** management page, drill-down links can also be used to check the configured datastores, disks, total VMs, and Active VMs.

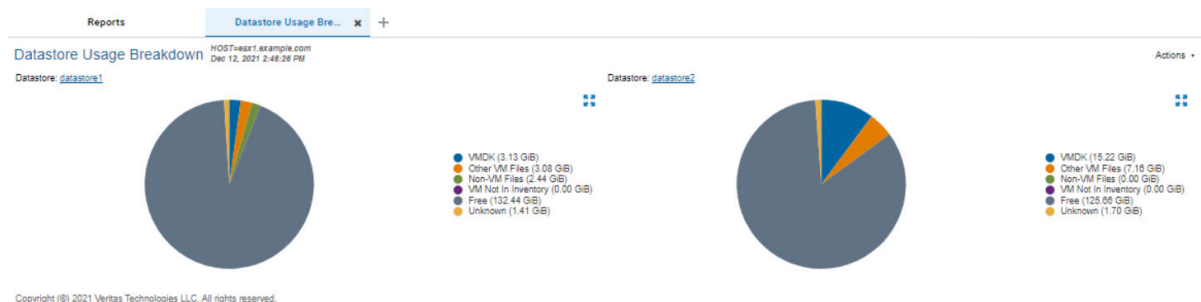


- ☐ 29. In the **APTARE IT Analytics Portal**, click **Reports** located on the menu bar to navigate to the **Reports** page.
- ☐ 30. Double-click the **Datastore Usage Breakdown** report located in the **Virtualization Manager > Storage Capacity & Utilization** folder.
- ☐ 31. In the **Datastore Usage Breakdown Scope Selector** dialog box that is displayed, set the report scope to **HOST=esx1.example.com** and click **Generate** to generate the report.

To set the report scope, access the **Report Scope Selector** dialog box, search for **esx1.example.com** under the VM Servers tab, and double-click **esx1.example.com** in the search results to add it to the scope.

The contents of the **Datastore Usage Breakdown** report is displayed in a new tab.

In the **Datastore Usage Breakdown** report, note that **2.44 GiB** of space on **datastore1** is consumed by files that don't belong to the virtual machines. This information was gathered by the **Datastore Scan** probe.



To know what these **Non-VM Files** are, you can run the **VM Files Summary** report located in **Virtualization Manager > Administration Reports** folder. In this example, **2.44 GiB** of space was consumed by **ISO** files. Below is a snapshot from the **VM Files Summary** report.

VM Files Summary

Datastore=datastore1

Nov 26, 2019 2:46:15 AM

Total Rows: 41

✔ Normal

⚠ Warning

✖ Alert

○ Unknown

File Name	File Path	Datastore	VM Server	VM Name
file14.iso	ISO files	datastore1		
file15.iso	ISO files	datastore1		
file16.iso	ISO files	datastore1		
file17.iso	ISO files	datastore1		
file18.iso	ISO files	datastore1		
file19.iso	ISO files	datastore1		
file2.iso	ISO files	datastore1		

[Go to Lab Exercises](#)

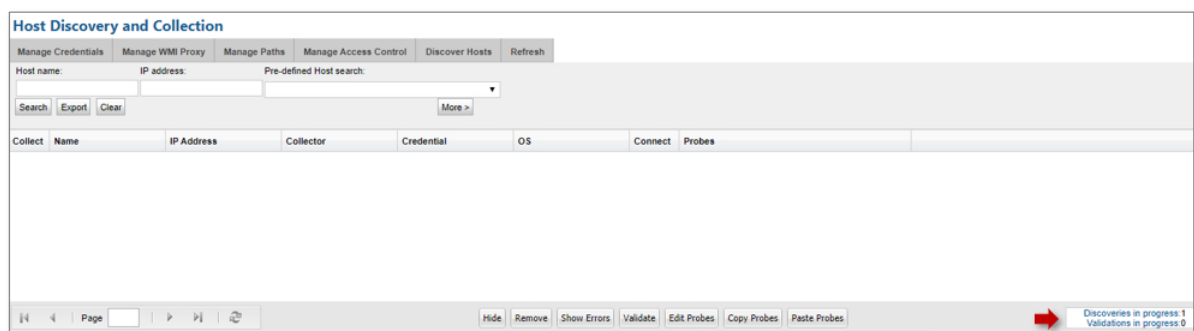
Exercise D: Adding a Microsoft Hyper-V Data Collector Policy

A full collection path to Hyper-V server attached SAN or NAS storage requires that Host Resource collection be run first against the Hyper-V servers. In this exercise, you configure Host Resource collection for the Hyper-V server and add a Microsoft Hyper-V Data Collector Policy.


- ☐ 1. In the **APTARE IT Analytics Portal**, navigate to **Admin > Data Collection > Host Discovery and Collection**. The **Host Discovery and Collection** page is displayed.
- ☐ 2. On the **Host Discovery and Collection** page, click **Discover Hosts**. The **Host Discovery Policies** dialog box is displayed.
- ☐ 3. In the **Host Discovery Policies** dialog box, click **Add**. The **Add Host Discovery Policies** dialog box is displayed.
- ☐ 4. In the **Add Host Discovery Policies** dialog box, enter **hypervsrv1.example.com** in the **Name** field and select **Aptare** in the **Domain** drop-down list.
- ☐ 5. Verify that **collector1** is selected in the **Collector** drop-down list, and enter **hypervsrv1.example.com** in the **Host addresses** field.
- ☐ 6. Under **Configuration options**, select **APT106ADM_Windows_Credentials** located under **Credentials** and **APT106ADM_WMI_Proxy** located under **WMI Proxies**.

 The above credentials and the WMI Proxy were configured in Lab 7.

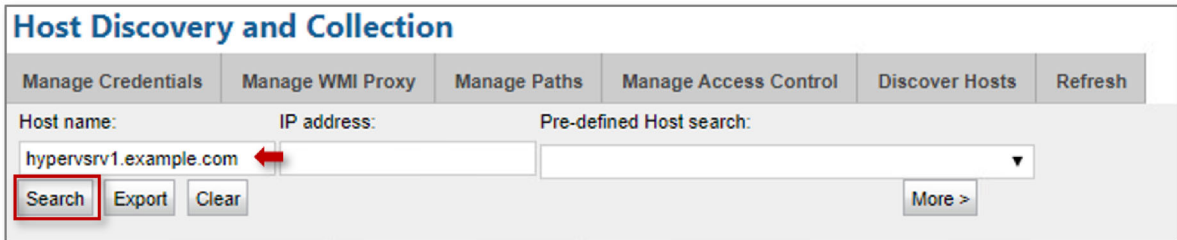
- ☐ 7. In the **Add Host Discovery Policies** dialog box, click **OK** to save the discovery policy and return to the **Host Discovery Policies** dialog box.
- ☐ 8. In the **Host Discovery Policies** dialog box, select **hypervsrv1.example.com** and click **Start** to execute the discovery policy.
- ☐ 9. At the **Are you sure you wish to start the selected discovery** browser prompt, click **OK**.
- ☐ 10. In the **Host Discovery Policies** dialog box, click **OK** to return to the **Host Discovery and Collection** page.
- ☐ 11. On the **Host Discovery and Collection** page, click the **Discoveries in progress** link located at the bottom right corner of the **Host Discovery and Collection** page.



- ☐ 12. In the **Host Discovery Policies** dialog box that is displayed, verify that the discovery for **hypervsrv1.example.com** completed successfully.

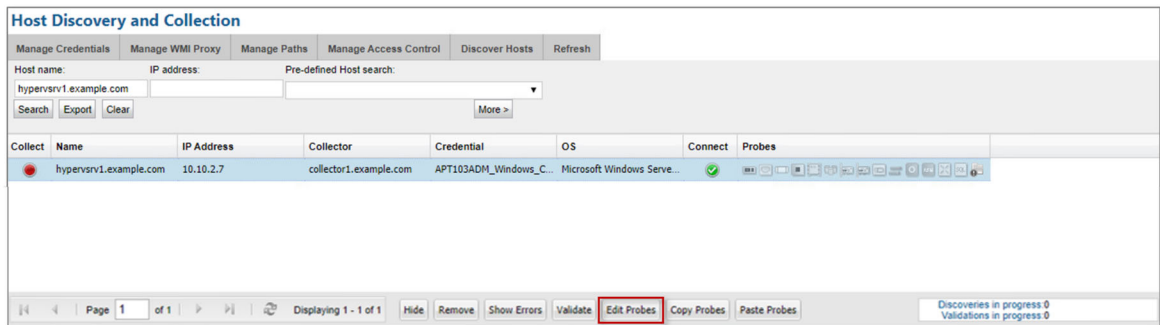
 The discovery might take 5-7 minutes to complete. If the discovery is not yet complete, close the **Host Discovery Policies** dialog box and click the **Discoveries in progress** link again to refresh the status as there is no refresh option available in the **Host Discovery Policies** dialog box.

- ☐ 13. In the **Host Discovery Policies** dialog box, click **OK** to return to the **Host Discovery and Collection** page.
- ☐ 14. On the **Host Discovery and Collection** page, enter **hypervsrv1.example.com** in the **Host name** field and click **Search** as illustrated in the figure below.



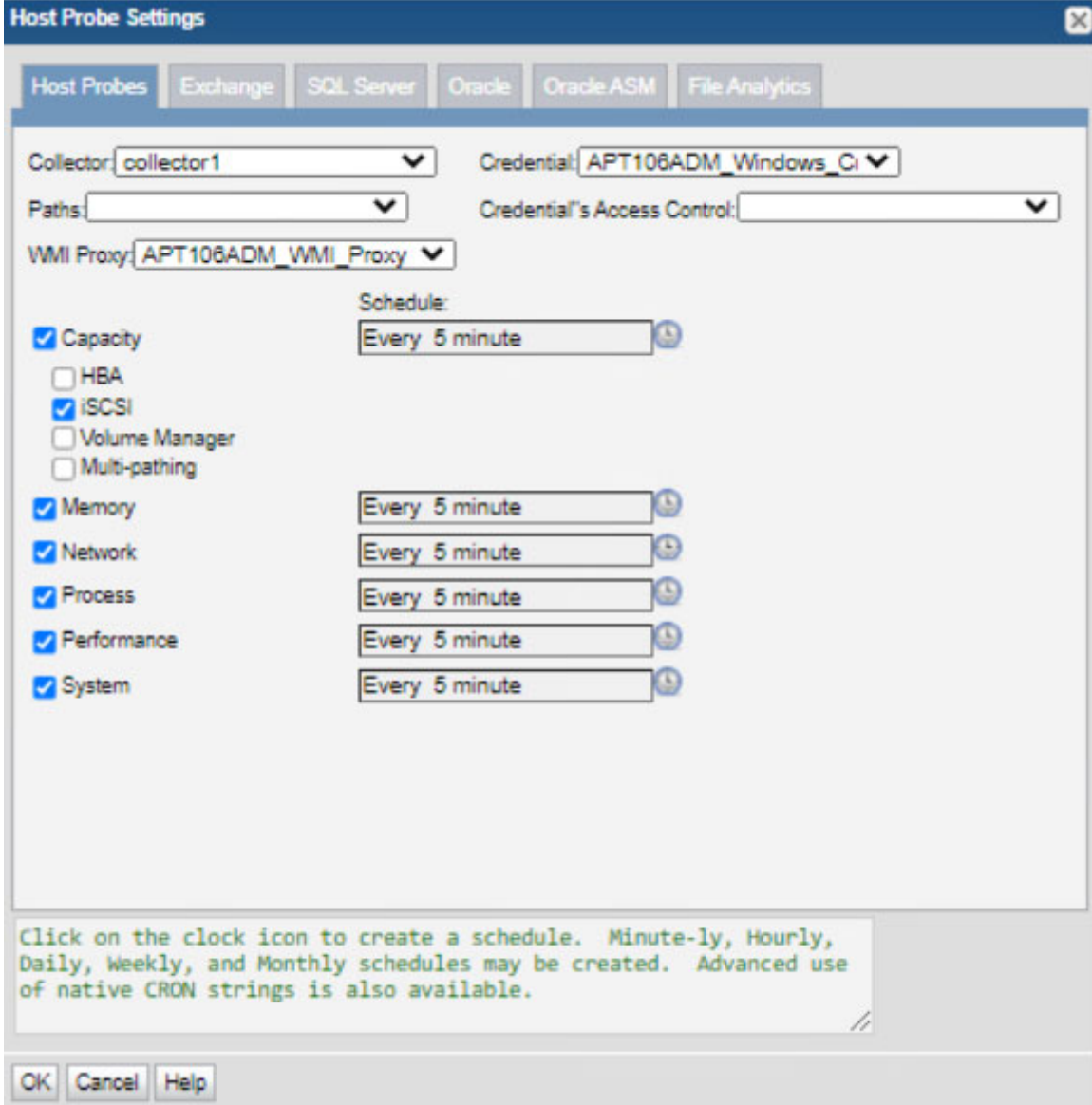
The screenshot shows the 'Host Discovery and Collection' interface. At the top, there are tabs: 'Manage Credentials', 'Manage WMI Proxy', 'Manage Paths', 'Manage Access Control', 'Discover Hosts', and 'Refresh'. Below the tabs, there are three input fields: 'Host name:', 'IP address:', and 'Pre-defined Host search:'. The 'Host name' field contains the text 'hypervsrv1.example.com'. Below these fields are three buttons: 'Search', 'Export', and 'Clear'. The 'Search' button is highlighted with a red box. A red arrow points to the 'Host name' field.

- ☐ 15. In the search results that are displayed, select **hypervsrv1.example.com** and click **Edit Probes** as illustrated in the figure below.



The screenshot shows the 'Host Discovery and Collection' interface with search results. The 'Host name' field still contains 'hypervsrv1.example.com'. Below the input fields, there is a table with the following columns: 'Collect', 'Name', 'IP Address', 'Collector', 'Credential', 'OS', 'Connect', and 'Probes'. The table contains one row with the following data: 'Collect' (red circle icon), 'Name' (hypervsrv1.example.com), 'IP Address' (10.10.2.7), 'Collector' (collector1.example.com), 'Credential' (APT103ADM_Windows_C...), 'OS' (Microsoft Windows Serve...), 'Connect' (green checkmark icon), and 'Probes' (a set of icons). Below the table, there is a pagination bar showing 'Page 1 of 1' and a status bar showing 'Displaying 1 - 1 of 1'. The 'Edit Probes' button is highlighted with a red box.

- ☐ 16. In the **Host Probe Settings** dialog box that is displayed, select the **Capacity (iSCSI only)**, **Memory**, **Network**, **Process**, **Performance**, and **System** probes and configure each probe to execute every 5 minutes as illustrated in the figure below.



Host Probe Settings

Host Probes | Exchange | SQL Server | Oracle | Oracle ASM | File Analytics

Collector: **collector1** Credential: **APT106ADM_Windows_Ci**

Paths: Credential's Access Control:

WMI Proxy: **APT106ADM_WMI_Proxy**

Schedule: **Every 5 minute**

☒ Capacity
☐ HBA
☒ iSCSI
☐ Volume Manager
☐ Multi-pathing

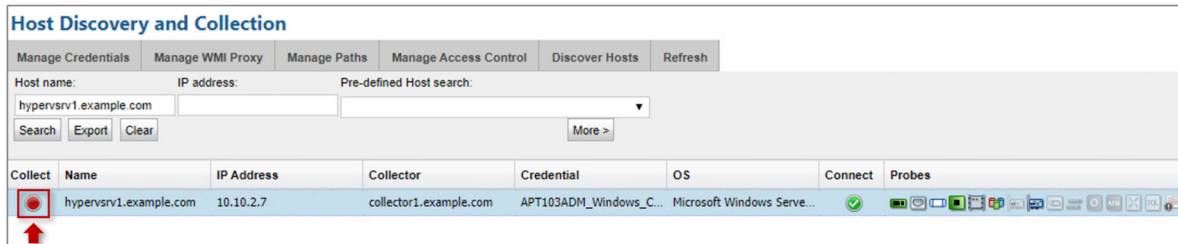
☒ Memory **Every 5 minute**
☒ Network **Every 5 minute**
☒ Process **Every 5 minute**
☒ Performance **Every 5 minute**
☒ System **Every 5 minute**

Click on the clock icon to create a schedule. Minute-ly, Hourly, Daily, Weekly, and Monthly schedules may be created. Advanced use of native CRON strings is also available.

OK Cancel Help

📄 A LUN from the NetApp Filer in this lab environment, **netapp1.example.com** is configured on the Hyper-V Server, **hypervsrv1.example.com** via **iSCSI** and therefore only the **iSCSI** probe is enabled under **Capacity** in the **Host Probe Settings** dialog box.

- ☐ 17. In the **Host Probe Settings** dialog box, click **OK** to save the configuration and return to the **Host Discovery and Collection** page.
- ☐ 18. On the **Host Discovery and Collection** page, select **hypervsrv1.example.com** and click the **Activate Collection** button as illustrated in the figure below.










Host Discovery and Collection

Manage Credentials | Manage WMI Proxy | Manage Paths | Manage Access Control | Discover Hosts | Refresh


Host name: **hypervsrv1.example.com** IP address: Pre-defined Host search: **hypervsrv1.example.com**

Search Export Clear More >


Collect	Name	IP Address	Collector	Credential	OS	Connect	Probes
	hypervsrv1.example.com	10.10.2.7	collector1.example.com	APT103ADM_Windows_C...	Microsoft Windows Serve...		    

↑

- ☐ 19. On the **Host Discovery and Collection** page with **hypervsrv1.example.com** selected, click **Validate**.

 The Validate step provides feedback to troubleshoot host connectivity and data collection issues.

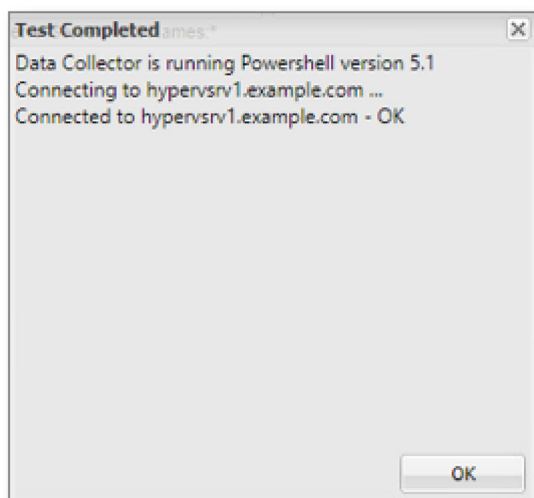
- ☐ 20. At the **Are you sure you wish to validate the selected hosts** browser prompt, click **OK**.
- ☐ 21. On the **Host Discovery and Collection** page with **hypervsrv1.example.com** selected, click **Show Errors**. The **Messages** dialog box is displayed.

 Any errors encountered during the validation are logged in the **Messages** dialog box.

- ☐ 22. Verify that no errors are listed in the **Messages** dialog box and click **OK** to return to the **Host Discovery and Collection** page.
- ☐ 23. In the **APTARE IT Analytics Portal**, navigate to **Admin > Data Collection > Collector Administration**. The list of currently configured Portal Data Collectors is displayed.
- ☐ 24. Select **collector1** in the list of Data Collectors and then click **Add Policy**.
- ☐ 25. In the resulting menu, select **Microsoft Hyper-V** present under virtualization. The **Microsoft Hyper-V Data Collector Policy** dialog box is displayed.
- ☐ 26. In the **Microsoft Hyper-V Data Collector Policy** dialog box, Enter the following details:

Field	Value
Policy Domain	Aptare
Hyper-V Server Host Names	<input type="text" value="hypervsrv1.example.com"/>
User ID	<input type="text" value="EXAMPLE\Administrator"/>
Password	<input type="text" value="P@ssw0rd"/>

- ☐ 27. Retain the default values for **Active Probes**, **Schedules**, and click **Test Connection**. The figure below illustrates the expected test results.




☐

28. Click **OK** to close the **Test Completed** dialog box and return to the **Microsoft Hyper-V Data Collector Policy** dialog box.

- ☐ 29. In the **Microsoft Hyper-V Data Collector Policy** dialog box, click **OK** to save the policy.

You are returned to the **Collector Administration** page, note that the new policy is assigned to **collector1**

 You might need to expand **collector1** on the **Collector Administration** page to view a list of assigned policies.

By default, only the **Inventory** probe is available. This probe runs every day at 02:12.

For this lab, you will run the Hyper-V Data Collection manually instead of waiting for it to run on schedule.

- ☐ 30. Remain logged into the **APTARE IT Analytics Portal**. You will return to it in the next exercise.

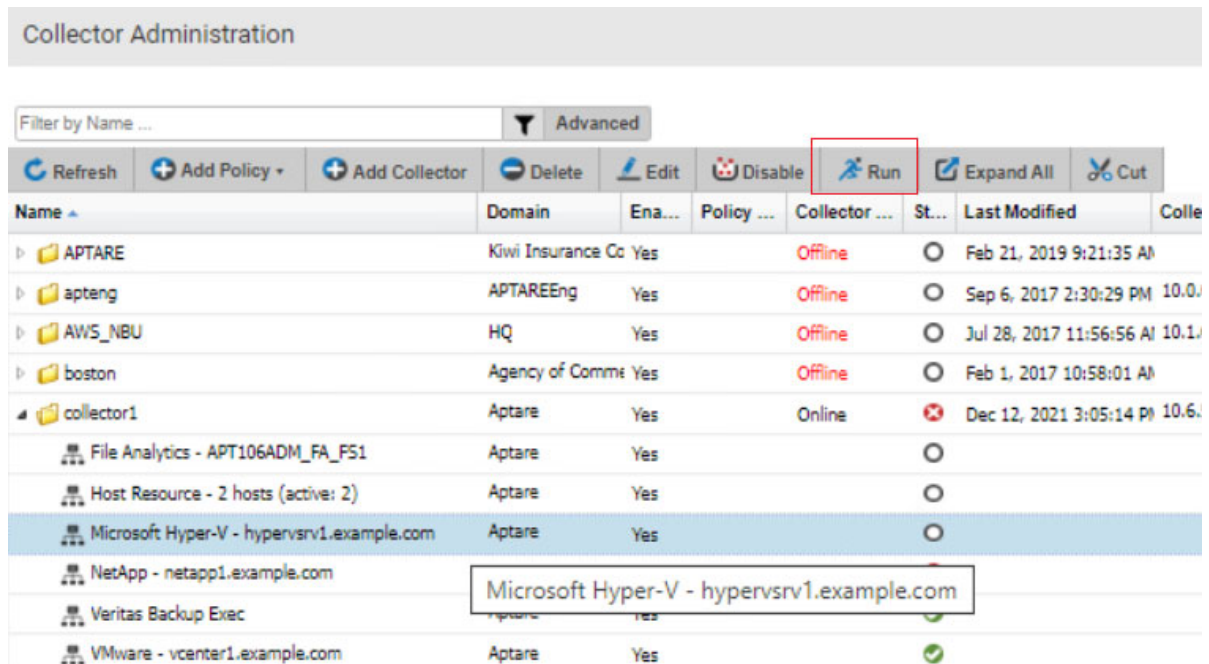
[Go to Lab Exercises](#)

Exercise E: Manually Running the Hyper-V Data Collection

In this exercise, you perform an **On-Demand** run of the Hyper-V Data Collector Policy and verify Hyper-V data in the Portal.

Running the Hyper-V Data Collection

- ☐ 1. On the **Collector Administration** page, expand the entry for the **collector1* system and select the **Microsoft Hyper-V - hypervsrv1.example.com** Data Collector policy.
- ☐ 2. Click **Run** as illustrated in the figure below.



- ☐ 3. In the **Run Microsoft Hyper-V Collection** dialog box that is displayed, verify that **hypervsrv1.example.com** is selected in the **Hyper-V Server Host Names** list and that the **Inventory** probe is selected.
- ☐ 4. In the **Run Microsoft Hyper-V Collection** dialog box, click **Start** to start the Data Collection.

Data is collected just like a scheduled run plus additional logging information is gathered for troubleshooting purposes.

- ☐ 5. In the **APTARE IT Analytics Portal**, navigate to **Admin > Data Collection > Collection Status**. The **Collection Status** page is displayed.

The **Collection Status** page can be used to monitor the health and progress of data collection. This view also contains probe runs and can be organized to suit your business requirements providing essential details that enable you to diagnose collection issues. Collection status, available at the data collector and policy level, provides results for the last time collection was attempted for enabled probes.

- ☐ 6. On the **Collection Status** page, monitor the status of the **Inventory** probe for **hypervsrv1.example.com**.

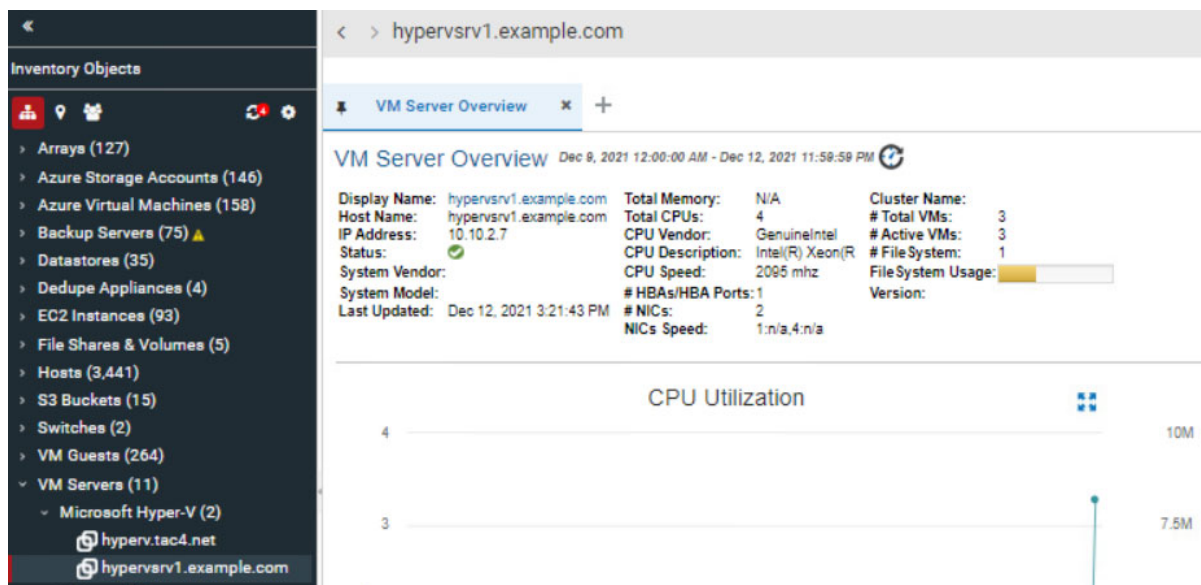
Initially, a **Failure** status might be displayed for the **Inventory** probe. Use the **Refresh** button available on the **Collector Status** page to refresh the view and monitor the probe until it completes successfully.

It might take 2-4 minutes for the **Inventory** probe to complete successfully.

- ☐ 7. After the probe is complete, click **Inventory** located on the menu bar to navigate to the **Inventory** page.

Verifying Hyper-V Data Collection in the Portal

- ☐ 8. On the **Inventory** page, click **Refresh** located on the **Hierarchy Panel** to refresh the view.
- ☐ 9. In the **Hierarchy Panel**, note that the Hyper-V Server, **hypervsrv1.example.com** has been added to the **VM Servers > Microsoft Hyper-V** host group.
- ☐ 10. In the **Hierarchy Panel**, click **hypervsrv1.example.com** located in the **VM Servers > Microsoft Hyper-V** host group to access the **hypervsrv1.example.com** management page.
- ☐ 11. On the **hypervsrv1.example.com** management page, note that all the virtual machines on **hypervsrv1.example.com** are listed under the **Hyper-V VM Summary** section.



- ☐ 12. Log out of the **APTARE IT Analytics Portal** and close the **Google Chrome** browser window.

End of Lab