

## Lab 12: Managing and Monitoring APTARE IT Analytics

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In this lab, you configure master schedules, backup windows, add different policies, manage, and monitor data collection.

### Lab Exercises

This lab includes the following exercises:


- [Exercise A: Configuring Master Schedules and Backup Windows](#)
- [Exercise B: Adding and Editing Policies](#)
- [Exercise C: Managing and Monitoring 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: Configuring Master Schedules and Backup Windows

In this exercise, you configure master schedules and backup windows and assign them to reports.

### Configuring Master Schedules

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

**User name:**  **EXAMPLE\Administrator**


**Password:**  **P@ssw0rd**

- ☐ 2. Double-click the **Aptare Portal** shortcut, located on the desktop of the **console** system, to launch the **APTARE IT Analytics Portal**.

- ☐ 3. When the **APTARE IT Analytics Portal** login page is displayed, login using the following credentials.

**Username:**  **admin@example.com**

**Password:**  **P@ssw0rd**

- ☐ 4. In the **APTARE IT Analytics Portal**, navigate to **Admin > Reports > Master Schedules**.
- ☐ 5. In the **Master Schedule Administration** dialog box that is displayed, click **Add**. The **Add Master Schedule** dialog box is displayed.
- ☐ 6. In the **Add Master Schedule** dialog box, enter  **APT106ADM\_Master\_Schedule\_1** in the **Name** field and configure the **Schedule** as illustrated in the following figure.

- ☐ 7. In the **Add Master Schedule** dialog box, click **OK** to add the schedule.

You are returned to the **Master Schedule Administration** dialog box and the new schedule is now listed in the list of schedules.

- ☐ 8. In the **Master Schedule Administration** dialog box, click **OK**.

## Configuring Custom Backup Windows

- ☐ 9. In the **APTARE IT Analytics Portal**, navigate to **Admin > Reports > Backup Windows**.
- ☐ 10. In the **Backup Windows Administration** dialog box that is displayed, click **Add**. The **Add Backup Window** dialog box is displayed.
- ☐ 11. In the **Add Backup Window** dialog box, enter **APT106ADM\_Backup\_Window\_1** in the **Window name** field and select **Aptare** in the **Domain** drop-down list.
- ☐ 12. Configure the window and the start hour as illustrated in the following figure.

Name:	Mon	Tue	Wed	Thur	Fri	Sat	Sun		
Start:	26	50	74	98	122	146	168		
	Mon 02:00	Tue 02:00	Wed 02:00	Thu 02:00	Fri 02:00	Sat 02:00	Sun 00:00		

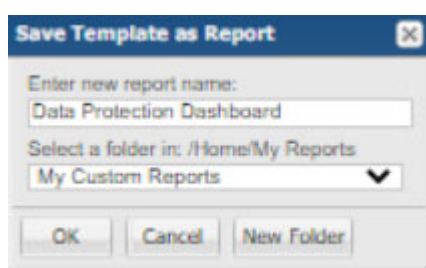
- ☐ 13. In the **Add Backup Window** dialog box, click **OK** to add the new backup window.

You are returned to the **Backup Windows Administration** dialog box and the new backup window is now listed in the list of backup windows.

- ☐ 14. In the **Backup Windows Administration** dialog box, click **OK**.

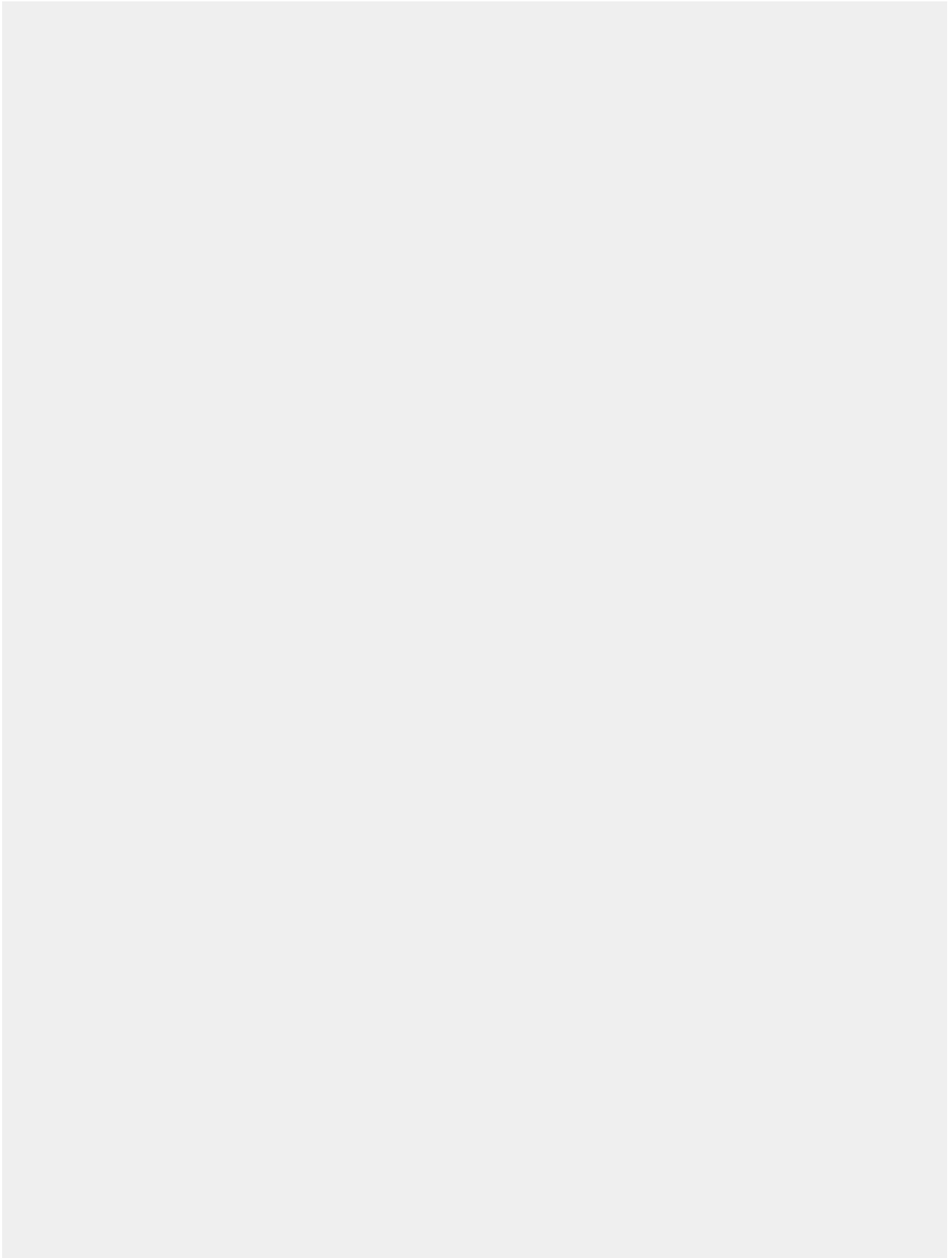
## Assigning Master Schedules and Custom Backup Windows to Reports

- ☐ 15. In the **APTARE IT Analytics Portal**, click **Reports** located on the menu bar to navigate to the **Reports** page.
- ☐ 16. On the **Reports** page, click **My Reports > My Custom Reports** located in the **Reports Navigation Panel**. The available reports are displayed in the **Reports** view panel.
- ☐ 17. In the **Reports** view panel, double-click the **NetBackup Policies** report.  
  
The contents of the **NetBackup Policies** report are displayed in a new tab.
- ☐ 18. On the **NetBackup Policies** tab that displays the content of the report, click **Actions > Export**. The **Export Report** dialog box is displayed.
- ☐ 19. In the **Export Report** dialog box, click **Schedule**. The **Export on a Schedule** dialog box is displayed.
- ☐ 20. In the **Export on a Schedule** dialog box, select **APT106ADM\_Master\_Schedule\_1** in the **Schedule** drop-down list.
- ☐ 21. In the **Export on a Schedule** dialog box, click **OK** to set the export schedule for the **NetBackup Policies** report.
- ☐ 22. On the **NetBackup Policies** tab, click **Actions > Save**.
- ☐ 23. At the **Do you want to save changes you made to "NetBackup Policies"** browser prompt, click **OK** to save and overwrite the report.
- ☐ 24. Close the **NetBackup Policies** tab to return to the **Reports** page.
- ☐ 25. In the **Reports** view panel from the left pane navigate to this location **Backup Manager > Administration Reports > Data Protection Dashboard** (select this option from the right pane).
- ☐ 26. Double-click the **Data Protection Dashboard**. The contents of the **Data Protection Dashboard** are displayed in a new tab.
- ☐ 27. In the **Data Protection Dashboard Scope Selector** dialog box, select **APT106ADM\_Backup\_Window\_1** in the **Backup window** drop-down list. Retain the other default values.
- ☐ 28. In the **Data Protection Dashboard Scope Selector** dialog box, click **Generate** without making any other changes.  
  
Observe how applying a backup window has affected the contents of the **Data Protection Dashboard**.
- ☐ 29. On the **Data Protection Dashboard** tab, click **Actions > Save As**.
- ☐ 30. Click **OK** to save the template as a report (under **My Custom Reports** location). Retain the other default values.



- ☐ 31. Close the **Data Protection Dashboard** tab to return to the **Reports** page.

[Go to Lab Exercises](#)



## Exercise B: Adding and Editing Policies

In this exercise, you add a threshold policy, capacity, billing and usage policy, backup SLA policy, and billing and chargeback policy.


### Adding a Threshold Policy


- ☐ 1. In the **APTARE IT Analytics Portal**, navigate to **Admin > Reports > Thresholds**.
- ☐ 2. In the **Threshold Policy Administration** dialog box that is displayed, click **Add**. The **Add Threshold Policy** dialog box is displayed.
- ☐ 3. In the **Add Threshold Policy** dialog box, select **File System** in the **Threshold type** drop-down list.
- ☐ 4. In the **Server name begins with** field type **T** **aptesx06.corp** and click **Search**.
- ☐ 5. In the search results select **aptesx06.corp - Netapp7\_Prod1** as illustrated in the following figure.

Parent	Name
aptesx06.corp	Bigbox_temp_1
aptesx06.corp	ISCSI_APTNAS01_ISO_TEMPLAT
aptesx06.corp	Netapp7_Prod1
aptesx06.corp	Netapp7_Prod2
aptesx06.corp	Netapp8_Prod1
aptesx06.corp	Netapp8_Prod2
aptesx06.corp	aptesx06_local
aptesx06.corp	netapp1_prod1
aptesx06.corp	netapp3_prod2

- ☐ 6. Configure the thresholds as illustrated in the figure below.

Low threshold*	Warning threshold*	Critical threshold*
70	75	80

 All three threshold levels are required.

 The threshold value represents the percentage used. So, if you set a Critical threshold of 80, that means that you want reports to indicate when there is 20% or less space available.

- ☐ 7. In the **Add Threshold Policy** dialog box, click **OK** to save the **Threshold Policy**.

You are returned to the **Threshold Policy Administration** dialog box and the new **Threshold Policy** is now listed in the list of configured policies.

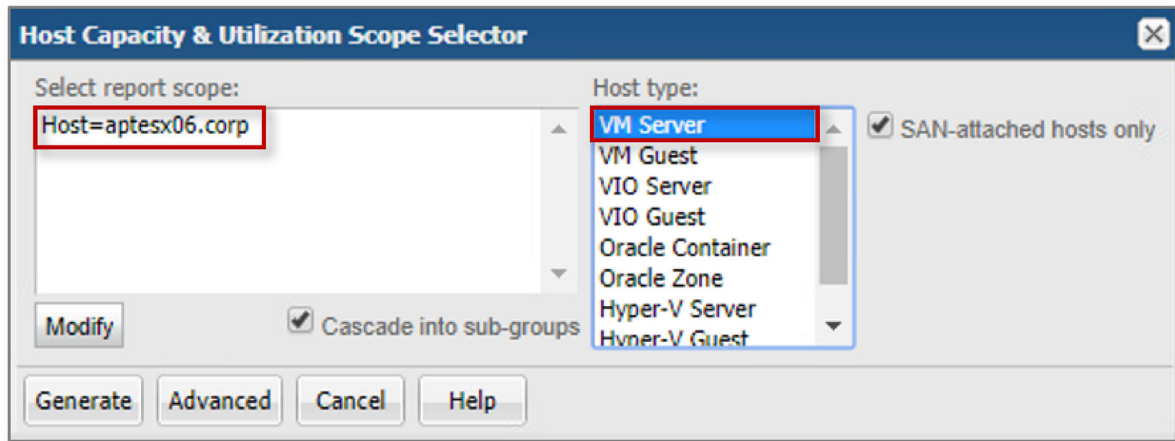
- ☐ 8. In the **Threshold Policy Administration** dialog box, click **OK**.

 The **Threshold Policy Administration** dialog box can be used to **Edit** or **Delete** a **Threshold Policy** as well.

Refer to the above steps, the below details, and add another Threshold policy.

<b>Threshold type</b>	File System
<b>Server</b>	aptex06.corp
<b>Datastore</b>	Netapp7_Prod2
<b>Low threshold</b>	75%
<b>Warning threshold</b>	80%
<b>Critical threshold</b>	85%

- ☐ 9. In the **APTARE IT Analytics Portal**, click **Reports** located on the menu bar to navigate to the **Reports** page.
- ☐ 10. On the **Reports** page, click **Capacity Manager > Host Capacity & Utilization** located in the **Reports Navigation Panel**. The available reports are displayed in the **Reports** view panel.
- ☐ 11. In the **Reports** view panel, double-click the **Host Capacity & Utilization** report. The **Host Capacity & Utilization Scope Selector** dialog box is displayed.
- ☐ 12. In the **Host Capacity & Utilization Scope Selector** dialog box, configure the report scope and **Host type** as illustrated in the figure below.



- ☐ 13. In the **Host Capacity & Utilization Scope Selector** dialog box, click **Generate** to run the **Host Capacity & Utilization** report.

The contents of the **Host Capacity & Utilization** report are displayed in a new tab.

- ☐ 14. On the **Host Capacity & Utilization** tab that displays the content of the report, click the **aptesx06.corp** hyperlink.

A new tab, **aptesx06.corp Utilization Detail** is displayed.

- ☐ 15. On the **aptesx06.corp Utilization Detail** page, scroll to the **Host Capacity Detail Report** section and note that **Netapp7\_Prod1** mount point is marked as critical and **Netapp7\_Prod2** mount point is marked as warning because the **% Available** on both these mount points is less than the configured thresholds.

Mount Point	Raw Filesystem	Filesystem Type	Storage Type	Volume Group	Capacity	Used	% Available	90 Days Min Used	90 Days Avg Used	90 Days Max Used
aptesx06_local	aptesx06_local	vmfs	DAS	aptesx06_local	930.25 GiB	565.60 GiB	39.20%	564.37 GiB	564.96 GiB	565.60 GiB
Bigbox_temp_1	Bigbox_temp_1	vmfs	DAS	Bigbox_temp_1	1,999.75 GiB	1,713.20 GiB	14.33%	1,713.07 GiB	1,715.68 GiB	1,721.30 GiB
ISCSI_APTNAS01_ISO_TEMPLATE	ISCSI_APTNAS01_ISO_TEMPLATE	vmfs	DAS	ISCSI_APTNAS01_ISO_TEMPLATE	1,023.75 GiB	907.70 GiB	11.34%	907.70 GiB	907.70 GiB	907.70 GiB
netapp1_prod1	netapp1_prod1	vmfs	SAN	netapp1_prod1	1,515.50 GiB	1,224.20 GiB	19.22%	1,224.17 GiB	1,224.18 GiB	1,224.20 GiB
netapp3_prod2	netapp3_prod2	vmfs	SAN	netapp3_prod2	1,351.50 GiB	1,239.85 GiB	8.93%	1,212.33 GiB	1,231.60 GiB	1,260.73 GiB
Netapp7_Prod1	Netapp7_Prod1	vmfs	SAN	Netapp7_Prod1	2,047.50 GiB	1,899.11 GiB	7.25%	1,879.92 GiB	1,887.82 GiB	1,899.11 GiB
Netapp7_Prod2	Netapp7_Prod2	vmfs	SAN	Netapp7_Prod2	2,047.50 GiB	1,722.91 GiB	15.65%	1,697.01 GiB	1,715.88 GiB	1,722.91 GiB
Netapp8_Prod1	Netapp8_Prod1	vmfs	SAN	Netapp8_Prod1	2,047.50 GiB	1,660.42 GiB	18.91%	1,543.49 GiB	1,565.04 GiB	1,660.42 GiB
Netapp8_Prod2	Netapp8_Prod2	vmfs	SAN	Netapp8_Prod2	2,047.50 GiB	1,872.96 GiB	8.52%	1,872.83 GiB	1,890.44 GiB	1,902.59 GiB
nfs_isilon_datastore	nfs_isilon_datastore	nfs	DAS	nfs_isilon_datastore	14.19 GiB	14.19 GiB	0.00%	14.19 GiB	14.19 GiB	14.19 GiB
nfs_netapp2_datastore	nfs_netapp2_datastore	nfs	DAS	nfs_netapp2_datastore	56.00 GiB	3.14 GiB	94.40%	3.14 GiB	3.14 GiB	3.14 GiB
Aggregation						12,814.28 GiB		12,632.21 GiB	12,720.63 GiB	12,881.90 GiB

- ☐ 16. Close the **aptesx06.corp Utilization Detail** and the **Host Capacity & Utilization** tabs.

## Adding a Capacity Billing and Usage Policy

- ☐ 17. In the **APTARE IT Analytics Portal**, navigate to **Admin > Chargeback > Capacity**.
- ☐ 18. In the **Capacity Billing and Usage Policies** dialog box that is displayed, click **Add**. The **Add Capacity Billing and Usage Policy** dialog box is displayed.
- ☐ 19. In the **Add Capacity Billing and Usage Policy** dialog box, select **Aptare** in the **Domain** drop-down list and enter **APT106ADM\_Capacity\_1** in the **Name** field.
- ☐ 20. Set the **Priority** to **1** and enter **10** in the **Cost per GB** field.

Priority = 1 is the highest priority.





- ☐ 21. In the **Add Capacity Billing and Usage Policy** dialog box, click **Add**. The **Policy Type** dialog box is displayed.
- ☐ 22. In the **Policy Type** dialog box, select **Array family** in the **Policy type** drop-down and **FAS Series** in the **Policy display name** drop-down list.
- ☐ 23. In the **Policy Type** dialog box, click **OK**.

You are returned to the **Add Capacity Billing and Usage Policy** dialog box.

- ☐ 24. In the **Add Capacity Billing and Usage Policy** dialog box, click **Add** to add another policy type.
- ☐ 25. In the **Policy Type** dialog box, select **Drive type** in the **Policy type** drop-down and **SAS** in the **Policy display name** drop-down list.
- ☐ 26. In the **Policy Type** dialog box, click **OK**.

You are returned to the **Add Capacity Billing and Usage Policy** dialog box, note that the **Array family** and **Drive type** policy types have been added.


 Several policy types can be combined in a Capacity Billing and Usage Policy. Conditions within the same policy type are joined by OR, while AND logic is used between policy types.

 Policy types are applicable to specific arrays and therefore, not all policy types will be listed in your Portal. For example, the Tiering Policy type is available only for the following arrays: Hitachi NAS (HNAS), EMC Symmetrix Fast, and Compellent.

- ☐ 27. In the **Add Capacity Billing and Usage Policy** dialog box, click **OK** to save the policy.

You are returned to the **Capacity Billing and Usage Policies** dialog box.

- ☐ 28. In the **Capacity Billing and Usage Policies** dialog box, click **OK**.

 The **Capacity Billing and Usage Policy** dialog box can be used to **Edit** or **Delete** a Capacity Billing and Usage Policy as well.

- ☐ 29. In the **APTARE IT Analytics Portal**, click **Reports** located on the menu bar to navigate to the **Reports** page.
- ☐ 30. On the **Reports** page, click **Capacity Manager > Chargeback and Billing** located in the **Reports Navigation Panel**. The available reports are displayed in the **Reports** view panel.
- ☐ 31. In the **Reports** view panel, double-click the **Aggregated Chargeback** report. The **Aggregated Chargeback Scope Selector** dialog box is displayed.
- ☐ 32. In the **Aggregated Chargeback Scope Selector** dialog box, click **Generate** without making any changes.

The contents of the **Aggregated Chargeback** report are displayed in a new tab.

The **Aggregated Chargeback** report displays that **Total Cost** as per the applied Policy, **APT106ADM\_Capacity\_1** as illustrated in the figure below.

## Aggregated Chargeback

Host Group=Global  
Dec 12, 2021 8:08:27 PM

Total Rows:13

Host Groups	Policy	Cost Per GB	Total Usage	Total Cost
APTARE	<a href="#">APT106ADM Capacity 1</a>	\$10.00	<a href="#">2,400.20 GiB</a>	\$24,002.04

You can also click on the hyperlink below the **Total Usage** column to see a detailed view of the usage and costs as illustrated in the figure below.

## Chargeback Detail

Host Group=Global  
Dec 12, 2021 8:08:58 PM

Total Rows:13

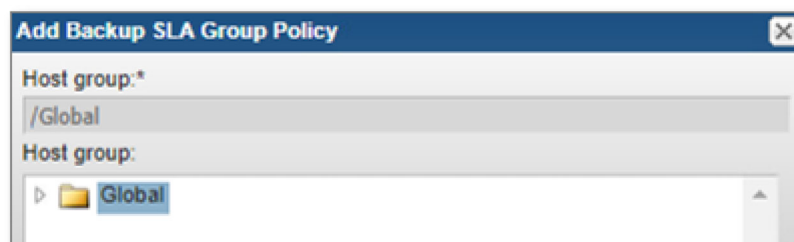
Host	Policy	Array	LUN	Unit Cost	Total Usage	Total Cost
<a href="#">Compellent</a>	<a href="#">APT106ADM Capacity 1</a>	<a href="#">netapp3</a>	<a href="#">/vol/vol1/netapp3 lun1</a>	\$10.00	47.65 GiB	\$476.48
<a href="#">DC-Win2012-1</a>	<a href="#">APT106ADM Capacity 1</a>	<a href="#">netapp3</a>	<a href="#">/vol/vol1/netapp3 lun1</a>	\$10.00	21.24 GiB	\$212.38
<a href="#">InstallWin2012</a>	<a href="#">APT106ADM Capacity 1</a>	<a href="#">netapp3</a>	<a href="#">/vol/vol1/netapp3 lun1</a>	\$10.00	130.00 GiB	\$1,300.04
<a href="#">SQLServer</a>	<a href="#">APT106ADM Capacity 1</a>	<a href="#">netapp3</a>	<a href="#">/vol/vol1/netapp3 lun1</a>	\$10.00	65.00 GiB	\$650.00
<a href="#">Ubuntu14Openstack</a>	<a href="#">APT106ADM Capacity 1</a>	<a href="#">netapp3</a>	<a href="#">/vol/vol1/netapp3 lun1</a>	\$10.00	34.31 GiB	\$343.09
<a href="#">WIN-7QSHGN7H9RD</a>	<a href="#">APT106ADM Capacity 1</a>	<a href="#">netapp3</a>	<a href="#">/vol/vol1/netapp3 lun1</a>	\$10.00	59.48 GiB	\$594.84
<a href="#">aptesx09.corp</a>	<a href="#">APT106ADM Capacity 1</a>	<a href="#">netapp3</a>	<a href="#">/vol/vol1/netapp3 lun1</a>	\$10.00	1,351.71 GiB	\$13,517.07
<a href="#">aptsm7</a>	<a href="#">APT106ADM Capacity 1</a>	<a href="#">netapp3</a>	<a href="#">/vol/vol1/netapp3 lun1</a>	\$10.00	74.78 GiB	\$747.77
<a href="#">avamar2</a>	<a href="#">APT106ADM Capacity 1</a>	<a href="#">netapp3</a>	<a href="#">/vol/vol1/netapp3 lun1</a>	\$10.00	255.98 GiB	\$2,559.85
<a href="#">etchdevwin</a>	<a href="#">APT106ADM Capacity 1</a>	<a href="#">netapp3</a>	<a href="#">/vol/vol1/netapp3 lun1</a>	\$10.00	172.09 GiB	\$1,720.94
<a href="#">nbu-master</a>	<a href="#">APT106ADM Capacity 1</a>	<a href="#">netapp3</a>	<a href="#">/vol/vol1/netapp3 lun1</a>	\$10.00	69.93 GiB	\$699.30
<a href="#">nbu-media</a>	<a href="#">APT106ADM Capacity 1</a>	<a href="#">netapp3</a>	<a href="#">/vol/vol1/netapp3 lun1</a>	\$10.00	59.95 GiB	\$599.49
<a href="#">nbu76</a>	<a href="#">APT106ADM Capacity 1</a>	<a href="#">netapp3</a>	<a href="#">/vol/vol1/netapp3 lun1</a>	\$10.00	58.08 GiB	\$580.78
<b>Aggregation</b>					<b>2,400.20 GiB</b>	<b>\$24,002.03</b>

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- ☐ 33. Close the **Chargeback Detail** and **Aggregated Chargeback** tabs.

## Adding a Backup SLA Policy

- ☐ 34. In the **APTARE IT Analytics Portal**, navigate to **Admin > Reports > Backup SLA**.
- ☐ 35. In the **Backup SLA Group Policy Administration** dialog box that is displayed, click **Add**. The **Add Backup SLA Group Policy** dialog box is displayed.
- ☐ 36. In the **Add Backup SLA Group Policy** dialog box, select the **Global** host group as illustrated in the figure below.



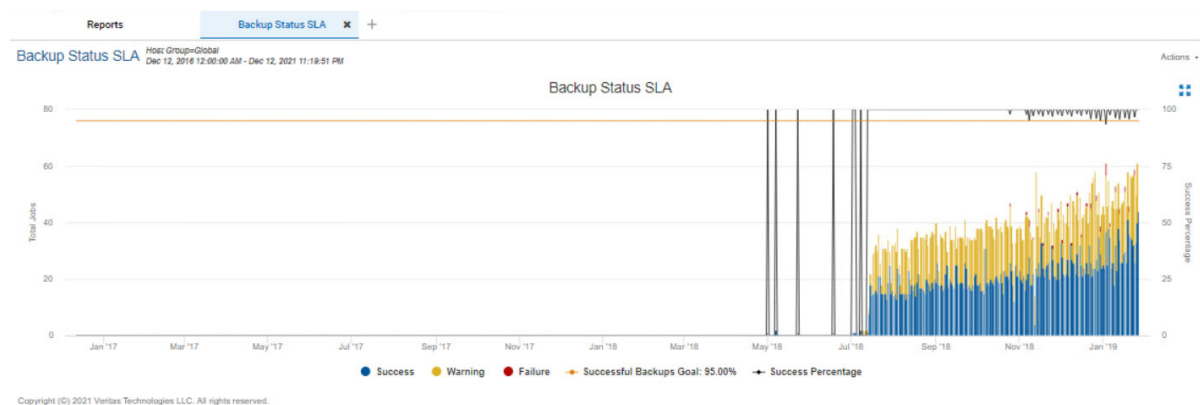
- ☐ 37. Select **90** in the **Backup Objective %** and **98** in the **Restore Objective %** drop-down list.

- ☐ 38. In the **Add Backup SLA Group Policy** dialog box, click **OK** to add the new **Backup SLA Group Policy**.
- ☐ 39. In the **Backup SLA Group Policy Administration** dialog box, click **OK**.

 The **Backup SLA Group Policy Administration** dialog box can be used to Edit or Delete a Backup SLA Group Policy as well.

- ☐ 40. In the **APTARE IT Analytics Portal**, navigate to **Reports**.
- ☐ 41. On the **Reports** page, click **Backup Manager > SLA Reports** located in the **Reports Navigation Panel**. The available reports are displayed in the **Reports** view panel.
- ☐ 42. In the **Reports** view panel, double-click the **Backup Status SLA** report. The **Backup Status SLA Scope Selector** dialog box is displayed.
- ☐ 43. In the **Backup Status SLA Scope Selector** dialog box, select **Last 5 years** in the **Time period** drop-down list and click **Generate** without making any changes.

The contents of the **Backup Status SLA** report are displayed in a new tab as illustrated in the figure below.



- ☐ 44. Review the contents of the **Backup Status SLA** report and close the **Backup Status SLA** tab.


## Adding a SAN Fabric Chargeback Policy

- ☐ 45. In the **APTARE IT Analytics Portal**, navigate to **Admin > Chargeback > SAN Fabric**.
- ☐ 46. In the **SAN Fabric Billing and Usage Policies** dialog box that is displayed, click **Add**. The **Add SAN Fabric Billing and Usage Policy** dialog box is displayed.
- ☐ 47. In the **Add SAN Fabric Billing and Usage Policy** dialog box, select **Aptare** in the **Domain** drop-down list and enter **APT106ADM\_SAN\_CB\_Policy\_1** in the **Name** field.
- ☐ 48. Set the **Priority** to **1**, **Port cost** to **3** and **TB cost** to **5**.
- ☐ 49. In the **Add SAN Fabric Billing and Usage Policy** dialog box, click **Add**. The **Policy Type** dialog box is displayed.
- ☐ 50. In the **Policy Type** dialog box, select **Fabric name** in the **Policy type** and **APTAREFABRIC01** in the **Policy value** drop-down list.
- ☐ 51. In the **Policy Type** dialog box, click **OK** to return to the **Add SAN Fabric Billing and Usage Policy** dialog box.

- ☐ 52. In the **Add SAN Fabric Billing and Usage Policy** dialog box, click **OK**.

You are returned to the **SAN Fabric Billing and Usage Policy** dialog box.

- ☐ 53. In the **SAN Fabric Billing and Usage Policy** dialog box, click **OK**.

 The **SAN Fabric Billing and Usage Policy** dialog box can be used to **Edit** or **Delete** a SAN Fabric Billing and Usage Policy as well.

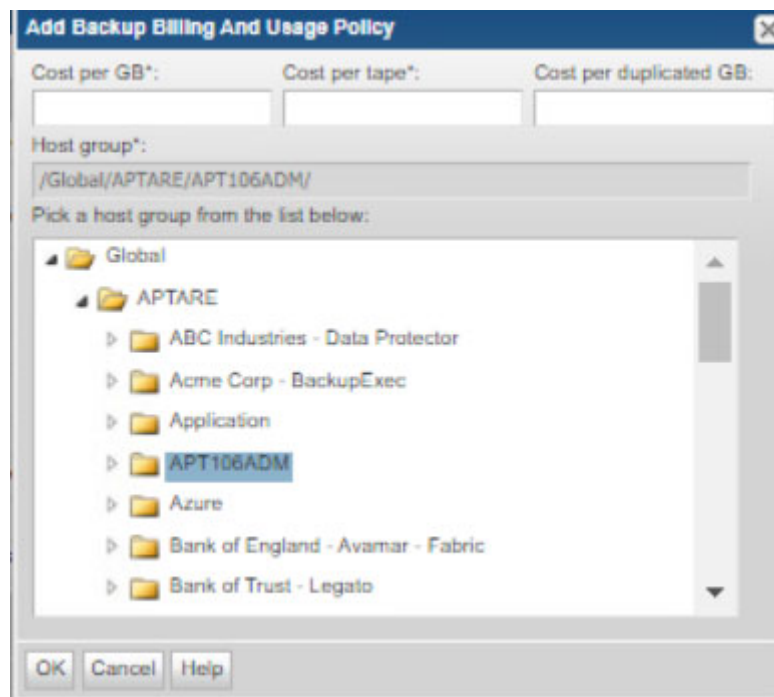
- ☐ 54. In the **APTARE IT Analytics Portal**, navigate to **Reports**.
- ☐ 55. On the **Reports** page, click **Fabric Manager > Billing and Usage** located in the **Reports Navigation Panel**. The available reports are displayed in the **Reports** view panel.
- ☐ 56. In the **Reports** view panel, double-click the **SAN Fabric Usage** report. The **SAN Fabric Usage Scope Selector** dialog box is displayed.
- ☐ 57. In the **SAN Fabric Usage Scope Selector** dialog box, click **Generate** without making any changes.

The contents of the **SAN Fabric Usage** report are displayed in a new tab.

- ☐ 58. Review the contents of the **SAN Fabric Usage** report and close the **SAN Fabric Usage** tab.

## Adding a Billing and Chargeback Policy

- ☐ 59. In the **APTARE IT Analytics Portal**, navigate to **Admin > Chargeback > Backup**.
- ☐ 60. In the **Backup Billing And Usage Policies** dialog box that is displayed, click **Add**. The **Add Backup Billing And Usage Policy** dialog box is displayed.
- ☐ 61. In the **Add Backup Billing And Usage Policy** dialog box, select the **APT106ADM** host group as illustrated in the figure below.




☐

62. Enter **1** in the **Cost per GB** field, **2** in the **Cost per tape** field, and **1** in the **Cost per duplicated GB** field.

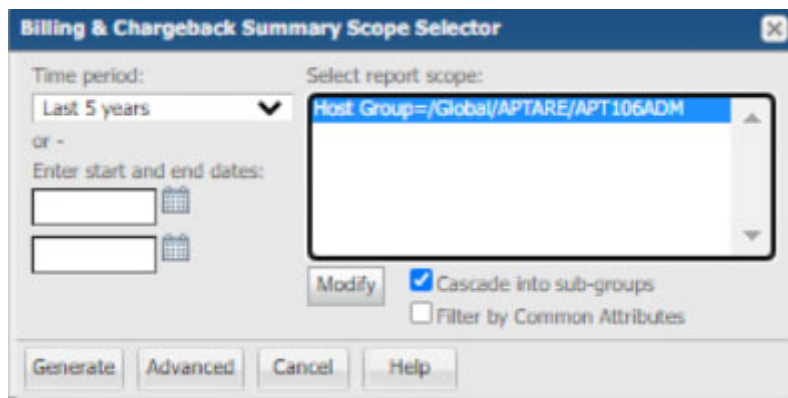
- ☐ 63. In the **Add Backup Billing And Usage Policy** dialog box, click **OK**.

You are returned to the **Backup Billing And Usage Policies** dialog box, note that the new policy, **/Global/APTARE/APT106ADM** has been added.

- ☐ 64. In the **Backup Billing And Usage Policies** dialog box, click **OK**.

 The **Backup Billing And Usage Policies** dialog box can be used to **Edit** or **Delete** a Billing and Chargeback Policy as well.


- ☐ 65. In the **APTARE IT Analytics Portal**, navigate to **Reports**.
- ☐ 66. On the **Reports** page, click **Backup Manager > Billing and Usage Reports** located in the **Reports Navigation Panel**. The available reports are displayed in the **Reports** view panel.
- ☐ 67. In the **Reports** view panel, double-click the **Billing & Chargeback Summary** report. The **Billing and Chargeback Summary Scope Selector** dialog box is displayed.
- ☐ 68. In the **Billing and Chargeback Summary Scope Selector** dialog box, select **Last 5 years** in the **Time Period** drop-down list and change the report scope to **Host Group=/Global/APTARE/APT106ADM** as illustrated in the figure below.



- ☐ 69. In the **Billing and Chargeback Summary Scope Selector** dialog box, click **Generate** without making any other changes.

The contents of the **Billing and Chargeback Summary** report are displayed in a new tab.

- ☐ 70. Review the contents of the **Billing and Chargeback Summary** report and close the **Billing and Chargeback Summary** tab.

 It is fine if you do not see any *Billing and Chargeback Summary report* (at this stage), you can close the tab and proceed further.

[Go to Lab Exercises](#)

## Exercise C: Managing and Monitoring Data Collection

In this exercise, you manage data collectors and data collection policies, review collectors and collection status, and gather logs for support.

### Enabling/Disabling Data Collectors

- ☐ 1. In the **APTARE IT Analytics Portal**, navigate to **Admin > Data Collection > Collector Administration**. The list of currently configured Portal Data Collectors is displayed.
- ☐ 2. Locate the entry for **collector2** and click **Disable** as illustrated in the figure below.

Collector Administration

Filter by Name ...

Advanced

Refresh

Add Policy +

Add Collector

Delete

Edit

Disable

Expand All

Name	Domain	Enabl...	Policy St...	Collector State	St...	Last Modified	Collector Version	Upgrade Manager	Auto Upgrade	Host	Notes
xyz	Kiwi Insurance Co.	No		Offline		Sep 24, 2018 9:51:30 AM			Full Auto		sss
APTARE	Kiwi Insurance Co.	Yes		Offline		Feb 21, 2019 9:21:35 AM			Full Auto		short notes
apteng	APTAREng	Yes		Offline		Sep 6, 2017 2:30:29 PM	10.0.0.01 (02232016-1126)	10.0.0.01	Full Auto	SrinivasK-PC	
AWS_NBU	HQ	Yes		Offline		Jul 28, 2017 11:56:56 AM	10.1.60.01 (07282017-0011)	10.1.60.01	Full Auto	nbu77.corp	
boston	Agency of Commerce	Yes		Offline		Feb 1, 2017 10:58:01 AM			Full Auto		
collector1	Aptare	Yes		Online		Oct 7, 2021 1:08:07 PM	10.6.5.01 (09202021-1346)	10.6.5.01	Full Auto	collector1	
collector2	Aptare	Yes		Offline		Oct 7, 2021 9:28:15 AM	10.6.0.01 (04172021-1752)	10.6.0.01	Full Auto	nbmaster1.exam	
CommVault Simpana	FP2	Yes		Offline		Mar 14, 2013 4:18:16 PM			aptare.jar		
Corp	Agency of Commerce	Yes		Offline		Jun 18, 2018 4:01:15 PM			Full Auto		

- ☐ 3. At the **Are you sure you want to shut down and disable the collector** browser prompt, click **OK** to disable the collector.

When you disable a Data Collector all policies that are assigned to the collector are also deactivated.

- ☐ 4. On the **Collector Administration** page, locate and select the entry for **collector2** and click **Enable**.
- ☐ 5. At the **Data Collection will commence once collector is started manually on the Collector server** browser prompt, click **OK** to enable the data collector.

### Enabling and Disabling Data Collection Policy Schedules

- ☐ 6. On the **Collector Administration** page, expand **collector2** and then select the **Veritas NetBackup - nbmaster1.example.com** data collection policy.
- ☐ 7. Click **Disable** as illustrated in the figure below to disable the data collection policy.



Collector Administration

Filter by Name ...

Advanced

Refresh

Add Policy +

Add Collector

Delete

Edit

Disable

Run

Expand All

Cut

Name	Domain	Enab...	Policy S...	Collector S...	St...	Last Modified
xyz	Kiwi Insurance Co.	No		Offline	○	Sep 24, 2018 9:51:30 AM
APTARE	Kiwi Insurance Co.	Yes		Offline	○	Feb 21, 2019 9:21:35 AM
apteng	APTAREEng	Yes		Offline	○	Sep 6, 2017 2:30:29 PM
AWS_NBU	HQ	Yes		Offline	○	Jul 28, 2017 11:56:56 AM
boston	Agency of Commer	Yes		Offline	○	Feb 1, 2017 10:58:01 AM
collector1	Aptare	Yes		Online	✖	Oct 7, 2021 1:08:07 PM
collector2	Aptare	Yes		Offline	○	Dec 12, 2021 8:48:52 PM
Veritas NetBackup - nbmaster1.example.com	Aptare	Yes			✖	
CommVault Simpana	FP2	Yes		Offline	○	Mar 14, 2013 4:18:16 PM

When a data collection policy is disabled, the collection schedule is also deactivated.

When policies are disabled, you can still edit them.

- ☐ 8. On the **Collector Administration** page, expand **collector2** and then select the **Veritas NetBackup - nbmaster1.example.com** data collection policy.
- ☐ 9. Click **Enable** to enable the data collection policy.

## Reviewing Collectors and Collection Status

- ☐ 10. On the **Collector Administration** page, locate and select the entry for **collector1**.
- ☐ 11. Note that the collector is **Online** but displays a **Failure** Status.
- ☐ 12. Click the **Status** icon as illustrated in the figure below.

Collector Administration						
Filter by Name ...			Advanced			
Refresh	Add Policy +	Add Collector	Delete	Edit	Disable	Expand All
Name	Domain	Enab...	Policy S...	Collector S...	St...	Last Modified
> xyz	Kiwi Insurance Co.	No		Offline	○	Sep 24, 2018 9:51:30 AM
> APTARE	Kiwi Insurance Co.	Yes		Offline	○	Feb 21, 2019 9:21:35 AM
> apteng	APTAREEng	Yes		Offline	○	Sep 6, 2017 2:30:29 PM
> AWS_NBU	HQ	Yes		Offline	○	Jul 28, 2017 11:56:56 AM
> boston	Agency of Commer	Yes		Offline	○	Feb 1, 2017 10:58:01 AM
> collector1	Aptare	Yes		Online	✖	Oct 7, 2021 1:08:07 PM
> collector2	Aptare	Yes		Offline	○	Dec 12, 2021 8:51:47 PM

You are redirected to the **Collection Status** page.

 The information displayed on the **Collection Status** page is filtered automatically by the Data Collector you are viewing.

- ☐ 13. On the **Collection Status** page, note that the **ESX Server Performance** and the **Array Capacity/Performance** for **netapp1.example.com** have failed and hence the collector displays a **Failure** status.

## Troubleshooting Data Collection Status

- ☐ 14. On the **Collection Status** page, click the **Details** link for the failed **ESX Server Performance** probe as illustrated in the figure below.

Collection Status

Filter by Probe Name, Collector Name, Policy Name ... **Advanced** Advanced Search criteria applied. [Clear Search](#)

Grid displays collection status for the last run for all collectors.


Time Period: Last Run Group by: Collectors Policies Probes Devices None Status: Run Type: Scheduled On-Demand Schedule: Enabled Disabled

Page 1 of 1 | Displaying 1 - 5 of 5

Probe Name	Device	Policy Name	Run Type	Probe State	Status	Start Date	Finish Date	Duration	Schedule	Policy Changed	Details
<b>collector1</b>											
ESX Server Performance	None	VMware - vcenter1...	Scheduled			Dec 12, 2021 8:45:00 ...	Dec 12, 2021 8:45:22 ...	00:00:22	Enabled	Yes	<a href="#">Details</a>
Backup Generator	collector1	Veritas Backup Exec	Scheduled			Dec 12, 2021 8:21:59 ...	Dec 12, 2021 8:21:59 ...	00:00:00	Enabled	Yes	<a href="#">Details</a>
Array Capacity	netapp1.example.c...	NetApp - netapp1...	Scheduled			Dec 12, 2021 8:00:03 ...	Dec 12, 2021 8:00:47 ...	00:00:45	Enabled	Yes	<a href="#">Details</a>
Array Performance	netapp1.example.c...	NetApp - netapp1...	Scheduled			Dec 12, 2021 8:00:03 ...	Dec 12, 2021 8:00:46 ...	00:00:43	Enabled	Yes	<a href="#">Details</a>
Inventory	hypervsr1.exempl...	Microsoft Hyper-V ...	On-Demand			Oct 7, 2021 12:07:19 PM	Oct 7, 2021 12:07:44 PM	00:00:27	Enabled	Yes	<a href="#">Details</a>

The **Data Collection Detail** page is displayed.

- ☐ 15. On the **Data Collection Detail** page, click **Actions**. Note that the details (Probe Name, Host, Message, Resolution, etc.) displayed on the **Data Collection Detail** page can be exported or emailed.

 In this case the error message displayed on the **Data Collection Detail** page suggest that the data collector (**collector1.example.com**) was not able to connect and gather information from the vCenter Server (**vcenter1.example.com**). This error occurred because the vCenter Server Virtual Machine is not a part of this lab profile and is offline.

- ☐ 16. Close the **Data Collection Detail** page to return to the **Collection Status** page.

The following **System Administration** reports can also be used in conjunction with the Data Collection Status page to monitor the Data Collection status.

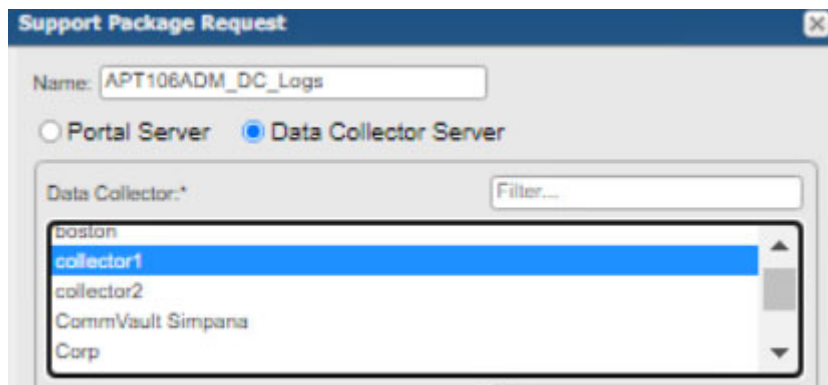
- **Data Collection Message Summary**
- **Data Collection Activity Detail**
- **Data Collection Hourly Activity**
- **Data Collection Performance Detail**
- **Data Collection Performance Summary**
- **Data Collection Schedule Summary**
- **Data Collector Status Summary**
- **File Analytics Collection Status**

Feel free to run any of the above listed reports to view their contents.

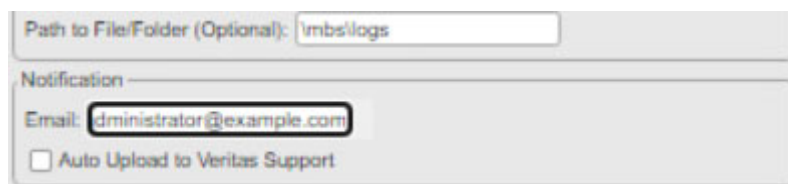


## Gathering Data Collection logs

- ☐ 17. In the **APTARE IT Analytics Portal**, navigate to **Admin > Advanced > Support Tools**.
- ☐ 18. On the **Support Tools** page that is displayed, click **Add**. The **Support Package Request** dialog box is displayed.
- ☐ 19. In the **Support Package Request** dialog box, enter **APT106ADM\_DC\_Logs** in the **Name** field and select the **Data Collector Server** radio button.
- ☐ 20. In the list of collectors that is displayed, select **collector1** as illustrated in the figure below.



- ☐ 21. In the **Support Package Request** dialog box, enter **T \mbs\logs** in the **Path to File/Folder** field and **T administrator@example.com** in the **Email** field as illustrated in the figure below.




- ☐ 22. Leave the **Auto Upload to Veritas Support** option unchecked and click **OK** to gather the data collector log files.

You are returned to the **Support Tools** page.

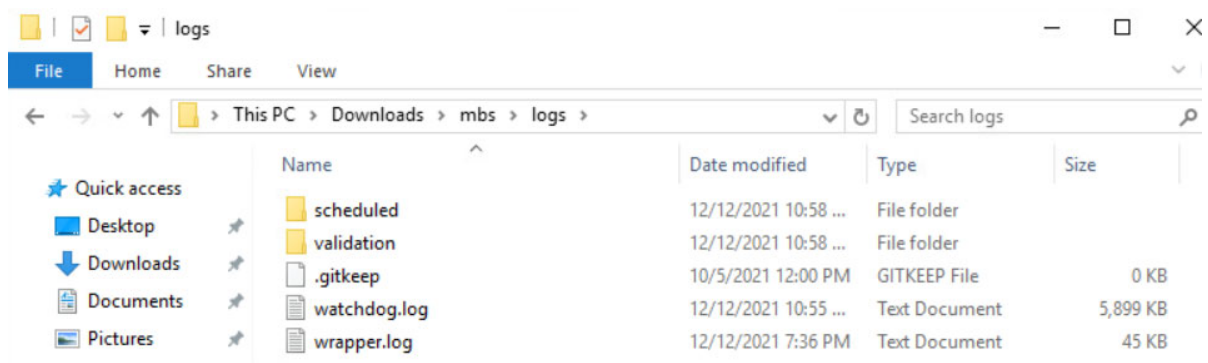
After the data collector logs are gathered, an **Available** link is displayed in the **Status** column as illustrated in the figure below.

Support Tools							
<input type="button" value="Add"/> <input type="button" value="Refresh"/>							
Name	Collector	Type	Package Content	Status	Request Date	Email Address	Auto Upload
APT106ADM_DC_Logs	collector1	Data Collector - coll...	Data Collector Logs & Raw Data	Available	Dec 12, 2021 10:54:08 PM	administrator@example.com	No

 You might need to use the **Refresh** option available on the **Support Tools** page to update the status of the package collection task. Depending on how often you are refreshing the status, a single or multiple Refreshes might be required before the **Available** link is displayed in the status column.

- ☐ 23. Click the **Available** link to download the data collector log file.
- ☐ 24. Minimize the **Google Chrome** Browser window to view the desktop of the **console** system.
- ☐ 25. Double-click the **File Explorer** shortcut, located on the desktop of the **console.example.com** system, to launch the **File Explorer**.

- ☐ 26. In the **File Explorer** window, click the **Downloads** folder.
- ☐ 27. The files in the **Downloads** directory are displayed in the right pane of the **File Explorer** window.
- ☐ 28. In the right pane of the **File Explorer** window, right-click the **APT106ADM\_DC\_Logs\_collector1\_example\_com\_xxxx.zip.xz** file and select **7-Zip > Extract Here**.
- ☐ 29. In the right pane of the **File Explorer** window, right-click the **APT106ADM\_DC\_Logs\_collector1\_example\_com\_xxxx.zip** file and select **7-Zip > Extract Here**.
- ☐ 30. In the right pane of the **File Explorer** window, double-click the **mbs\logs** directory.
- ☐ 31. Review the contents of the **mbs\logs** directory and close the **File Explorer** window.



The gathered logs can be used to troubleshoot data collection failures or can be sent to the support team to investigate an issue.

- ☐ 32. On the **taskbar**, click the **Google Chrome** icon to launch the **APTARE IT Analytics Portal**.
- ☐ 33. In the **APTARE IT Analytics Portal**, click **System Administrator > Log Out** to log out of the **APTARE IT Analytics Portal**.
- ☐ 34. Close the **Google Chrome** browser window and sign out of the **console** system.

**End of Lab**