Lab 07: Collecting Data for Backup

In this lab, you configure Data Collection Policies for Veritas Backup Exec and NetBackup. Additionally, you configure NetBackup Discovery and validate Data Collection.

Lab Exercises

This lab includes the following exercises:

- Exercise A: Adding a Veritas Backup Exec Data Collector Policy
- Exercise B: Adding a Veritas NetBackup Data Collector Policy
- Exercise C: Validating Data Collection



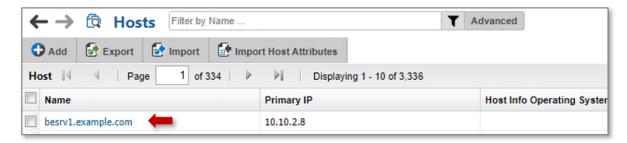
⚠ It is recommended to use **Google Chrome** to perform the lab exercises. After launching the lab, zoom out the lab browser window to 80% to fit the APTARE Portal interface and view all the tabs within the window.

Exercise A: Adding a Veritas Backup Exec Data Collector Policy

In this exercise, you add and configure a Data Collector policy for **Veritas Backup Exec**.

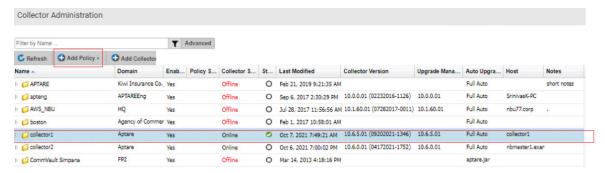
Ad	di	ng Veritas B	Backup I	Exec Servers			
	1.	Sign in to the	console	e system using th	ne following	credentials.	
		Username:	Т ЕХА	MPLE\Administ	rator		
		Password:	T P@s	sw0rd			
	2.			Portal shortcut, l		ne desktop of the console.example.co	n
	3. When the APTARE IT Analytics Portal login p credentials.		gin page is c	isplayed, login using the following			
		Username	T admi	n@example.com	1		
		Password	T P@ss	sw0rd			
		If required, In t		E IT Analytics Po	ortal, click In	ventory located on the menu bar to	
	5.	In the Hierarch button.	ny Panel , c	lick Hosts and th	nen in the rig	ht pane, click the Go to Inventory List	
	6.	On the Hosts p	oage, click	Add. The Add H	l ost dialog b	ox is displayed.	
	7.	In the Add Hos besrv1.examp	_	ox, enter the foll	owing detail	s and click OK to add host,	
		Field		Value		_	
		Host Name		T besrv1.exa	ample.com		
		Internal Hos	t Name	T besrv1.exa	ample.com		
		IP address		T 10.10.2.8			
		Backup Type	•	BackupExec S	erver		

The host, **besrv1.example.com** is now listed on the **Hosts** page as illustrated in the following figure.



Adding a Veritas Backup Exec Data Collector Policy

- 8. In the APTARE IT Analytics Portal, navigate to Admin > Data Collection > Collector Administration. A list of currently configured Data Collectors is displayed.
- 9. Select collector1 in the list of currently configured Data Collectors and then click Add Policy as illustrated in the following figure:



10. In the resulting menu, select **Veritas Backup Exec** as illustrated in the figure below.

Storage	Data Protection	Network & Fabrics
Dell Compellent	Cohesity DataProtect	Brocade Switch
Dell EMC Elastic Cloud Storage (ECS)	Commvault Simpana	Brocade Zone Alias
Dell EMC Unity	EMC Avamar	Cisco Switch
EMC Data Domain Storage	EMC Data Domain Backup	Cisco Zone Alias
EMC Isilon	EMC NetWorker	Virtualization
EMC Symmetrix	Generic Backup	IBM VIO
EMC VNX (CLARiiON)	HP Data Protector	Microsoft Hyper-V
EMC VNX (Celerra)	IBM Spectrum Protect (TSM)	VMware
EMC VPLEX	Oracle Recovery Manager (RMAN)	File Analytics
EMC XtremIO	Rubrik Cloud Data Management	File Analytics
HP 3PAR	Veeam Backup & Replication	Replication
HP EVA	Veritas Backup Exec	NetApp
HPE Nimble Storage	Veritas NetBackup	Cloud
Hitachi Block Storage		Amazon Web Services
Hitachi Content Platform (HCP)		Microsoft Azure
Hitachi NAS		OpenStack Ceilomete
Huawei OceanStor		OpenStack Swift
IBM Enterprise		OpenStack Switt
IBM SVC		
IBM XIV		
INFINIDAT InfiniBox		
Microsoft Windows Server		
NetApp		
NetApp Cluster-Mode		
NetApp E-Series		
Pure Storage FlashArray		

11. In the **Veritas Backup Exec Data Collector Policy** dialog box that is displayed, Enter the following details:

Field	Value
Default Windows Domain	T EXAMPLE
Admin Account	T Administrator
Password	T P@ssw0rd
Repeat Password	T P@ssw0rd

Passwords are stored in the Portal database in a strongly encrypted format and only decrypted in memory once passed to the Data Collector application immediately prior to use.

12. In the Veritas Backup Exec Data Collector Policy dialog box, click Add. The Server dialog box is displayed.							
13. In the Server dialog box, enter the following details:							
	Field	Value					
	Server name	T besrv1.example.com					
	Password	T P@ssw0rd					
	Repeat Password	T P@ssw0rd					
			a strongly encrypted format and only Collector application immediately prior to				
<u> </u>	Leave all the other fiel	ds blank and click OK .					
		e Veritas Backup Exec Data is now listed under Backup E	Collector Policy dialog box and exec servers.				
<u> </u>	Click OK to save the p	olicy.					
	You are returned to th collector1	e Collector Administration p	page, note that the new policy is assigned to				
	You might need to list of assigned p	•	Collector Administration page to view a				
Go to	Lab Exercises						

Exercise B: Adding a Veritas NetBackup Data Collector Policy

In this exercise, you add and configure a Data Collector policy for **Veritas NetBackup**. Additionally, you also configure Discovery Policies for **Veritas NetBackup**.

1. In the APTARE IT Analytics Portal, click Inventory .
2. If required, in the Hierarchy Panel , click Hosts to access the Hosts management page.
3. On the Hosts page, use the Advanced Filter located at the top of the Hosts page and search for nbmaster1.example.com .
The Data Collector uses NetBackup CLIs to fetch information from the NetBackup Master server and therefore NetBackup binaries should be installed on the Data Collector Server. In this lab environment, the Data Collector Software was installed on the NetBackup Master Server, nbmaster1.example.com , this is why nbmaster1.example.com is already present in the Inventory and is listed on the Hosts management page.
If your search does not return any results, then use the Refresh button located on the

Hierarchy Panel to update the Inventory.

4. On the **Hosts** page, select **nbmaster1.example.com** and then click **Edit** as illustrated in the following figure:



5. In the **Edit Host** dialog box that is displayed, make the following changes:

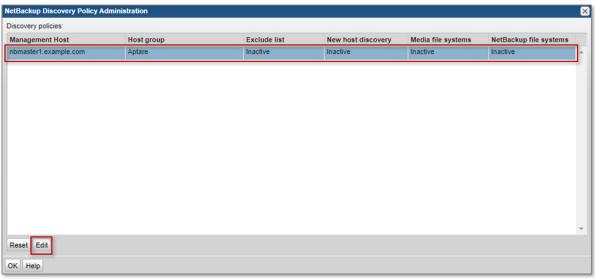
Field	Value
IP address	T 10.10.2.9
Backup Type	NetBackup Master
Time Zones	(UTC-5:00) Eastern Time (US & Canada)

6. In the **Edit Host** dialog box, click **OK** to save your changes and return to the **Hosts** management page.

Configuring Discovery Policies for Veritas NetBackup

7. In the APTARE IT Analytics Portal, navigate to Admin > Reports > NetBackup Discovery. The NetBackup Discovery Policy Administration window is displayed.

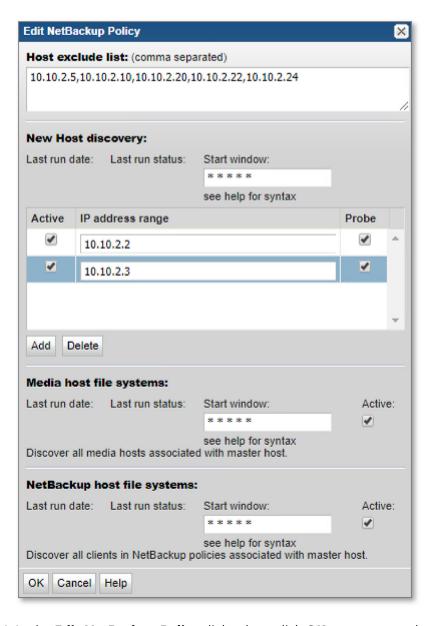
8. In the **NetBackup Discovery Policy Administration** window, select **nbmaster1.example.com** and click **Edit** as illustrated in the following figure.



		Reset Edit OK Help
	9.	n the Edit NetBackup Policy dialog box, add the following hosts in the Host exclude list .
		T 10.10.2.5,10.10.2.10,10.10.2.20,10.10.2.22,10.10.2.24
		Set the Start Window for the New Host discovery , Media host file systems , and NetBackup nost file system discovery types to $T * * * * *$. This is equal to specifying a 24x7 start window.
		The Start Window is five asterisks each separated by a space and without the leading and trailing quotes.
		When configuring the start window, you need to consider the wake-up period of the Discovery processes. If you configure a window of "* 2-3 1 * *" (that is, between 2 and 3 am on the first day of each month) for the New Server Discovery process, the process might run twice if it wakes up at 2 am, takes 15 minutes to execute, sleeps for 40 minutes, then wakes up again at 2:55 am. Since the start window is still active at 2:55 am, it will run again.
		Click Add to add an IP address range then enter \boxed{T} 10.10.2.2 in the IP address range field and check both the Active and Probe checkboxes.
		Click Add to add a second IP address range then enter \boxed{T} 10.10.2.3 in the IP address range field and check both the Active and Probe check boxes.
		The IP address range field supports enter either a single IP address or an IP address range. An IP range is in the format nnn-nnn (For example: 172.16.100-110.1-255 covers 11*255 = 2805 IP addresses). Multiple ranges can be added and each range can be independently activated or deactivated via the active check box.
	13.	Select the Active check box available under the Media host file systems and the NetBackup

The figure below illustrates the above listed configuration.

host file system discovery types to activate these discovery types.



- 14. In the **Edit NetBackup Policy** dialog box, click **OK** to save your changes and return to the **NetBackup Discovery Policy Administration** window.
- 15. In the **NetBackup Discovery Policy Administration** window, click **OK** to close the **NetBackup Discovery Policy Administration** window and return to the **Admin** page.

Adding a Veritas NetBackup Data Collector Policy

- ☐ 16. In the APTARE IT Analytics Portal, navigate to Admin > Data Collection > Collector Administration. A list of currently configured Data Collectors is displayed.
- 17. On the **Collector Administration** page, select **collector2** in the list of currently configured Data Collectors and then click **Add Policy**.
- 18. In the resulting menu, select **Veritas NetBackup** listed under **Data Protection**.
- 19. In **Veritas NetBackup Data Collector Policy** dialog box that is displayed, Verify that the **Policy Domain** is set to **Aptare**.
- 20. Select **nbmaster1.example.com** in the **NetBackup Master Servers** list.
- 21. Enter the following details under the **Remote Probes Login Details** section.

		Field	Value					
		Master Server Domain	<leave blan<="" field="" th="" this=""><th>k></th><th></th></leave>	k>				
		Master Server User ID	Troot					
		Master Server Password	T P@ssw0rd					
		Repeat Password	T P@ssw0rd					
		WMI Proxy Address	<leave blan<="" field="" th="" this=""><th>k></th><th></th></leave>	k >				
	22.	Enter T /usr/openv in the B NetBackup Master) field.	ackup Software Locatio	n on the Server (Data Co	ollector or			
	23.	Select all probes listed under	the Active Probes sectio	n as illustrated in the figur	e below.			
		✓ Tape Inventory ✓ Drive Status ✓ John Details ✓ Job Details ✓ Duplication Jobs ✓ Backup Message Logs ✓ SLP Job Details Even	12 hours, at minute 1 (3) 11 718 *** (3) 12 0 minute (3) 13 0 5 *** (3) 17 hours, at minute 1 (3) 18 you Tue at 00 00	Active Probes (cont.) Licerse Details Client Exclude/include List Details Client Drive Discovery Media Server Disk Discovery Backup Policy Coverage Netliackup Evert Monitor Storage Unit Details Storage Lifecycle Policies Backup Policies	Schedules Monthly on the 27 day at 03: (3) Monthly on the 15 day at 03: (3) CRON 140			
	24.	Leave all the Schedules at the	ir default values.					
	25.	Click the Test Connection but Collector Policy dialog box.	ton located at the botton	m of the Veritas NetBack	up Data			
	26.	In the Test Completed dialog successfully and click OK to re		· ·				
	27.	In the Veritas NetBackup Da r policy.	ta Collector Policy dialog	g box, click OK to save the	e Data Collector			
		You are returned to the Collector Administration page, note that the new policy is assigned to collector2						
		You might need to expandist of assigned policies.	nd collector2 on the Coll	ector Administration pag	ge to view a			
	28.	Remain logged into the Aptai	re IT Analytics Portal. You	u will return to it in the ne	xt exercise.			
Go	to l	ab Exercises						

Exercise C: Validating Data Collection

In this exercise, you validate the data collection process. Validation methods differ based on the subsystem vendor associated with the policy.

Validating Data Collection for Veritas Backup Exec

	1.	Sign in to the collector1 system using the following credentials:
		Username: T EXAMPLE\Administrator
		Password: T P@ssw0rd
		Double-click the Command Prompt shortcut, located on the desktop of the collector1 system, to launch the Command Prompt .
		In the Command Prompt window, type the following command and press Enter to change directory to C:\Program Files\Aptare\mbs\bin\backupexec .
		Command: T cd /d "C:\Program Files\Aptare\mbs\bin\backupexec"
		In the Command Prompt window, type the following command and press Enter to run the CLI Checkinstall Utility .
	,	Command: T buecheckinstall.bat
		The checkinstall utility performs a high-level check of the installation, including a check for the domain, host group, and URL, Data Collector policy and database connectivity.
	5.	Verify that the checkinstall utility completes successfully.
		In the Command Prompt window, type exit and press Enter to close the Command Prompt window.
Val	ida	ating Data Collection for Veritas NetBackup
	7.	Access the desktop of the console system.
	8.	If required, sign in to the console.example.com system using the credentials below.
		Username: T EXAMPLE\Administrator
		Password: T P@ssw0rd
	9.	Access the APTARE IT Analytics Portal.
	10.	If required, login to the APTARE IT Analytics Portal using the credentials below:

	Username	T admin@e	example.	com			
	Password	T P@ssw0r	rd				
		RE IT Analytics F on . A list of curr		•		Collection > Collectis displayed.	tor
_		ctor Administra letBackup - nbr		•	-	he collector2 system ector policy.	and select
☐ 13.	Click the Run	button.					
	nbmaster1.e		selected	•		isplayed, verify that er Servers list and tha	at all the
<u> </u>	In the Run V e	eritas NetBacku	p Collec	tion dialog box	k, click St a	art to start the Data C	Collection.
	_	collected just like oleshooting purp		luled run plus a	dditional	logging information	is gathered
_		RE IT Analytics F on Status page i		•	in > Data	a Collection > Collec	tion Status.
	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.						
□ 17.	On the Colle	ction Status pac	ge. click /	Advanced to ac	cess the	Advanced Filter.	
 ☐ 18.						the first filter as illust	rated in the
	Advanced Filt	er					×
	T 1	Run Type	~	contains	~	Demand	×
	T 2		~		~		×
	T 3		~		~		×

☐ 19. Click **OK** to apply the filter.

Cancel

Help

Add Filter

OK

20. On the **Collection Status** page, monitor the status of all the **Probes** for **nbmaster1.example.com**.

Show Filter Logic

Initially, a Failure status might be displayed for all the probes. Use the Refresh button available on the Collector Status page to refresh the view and monitor the probes until they complete successfully.
It might take 5-10 minutes for all the probes to complete successfully.
21. In the APTARE IT Analytics Portal, click Inventory located on the menu bar to navigate to the Inventory.
22. On the Inventory page, click Refresh located on the Hierarchy Panel to refresh the view.
23. In the Hierarchy Panel , note that:
 The NetBackup Master Server, nbmaster1.example.com has been added to the Backup Servers > Veritas NetBackup host group.
 All the NetBackup Clients have been added to the Hosts > Veritas NetBackup host group.
24. In the APTARE IT Analytics portal, click System Administrator > Log Out to log out.
25. Close the Google Chrome browser window.
End of Lab