



## HP Data Protector Installation

**Customer: Grant Investrade Ltd**

### Document History:

<b>Document Title:</b>	SOP for Grant Investrade Ltd
<b>Process Name:</b>	HP Data protector Installation
<b>Document Owner:</b>	Insight Business Machines Pvt. Ltd.
<b>Prepared By</b>	Darshan C / Kaushik W
<b>Date</b>	20 <sup>th</sup> June 2016

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## **1. Introduction**

Insight Business Machines Pvt. Ltd. has been in the field of Computing Technology since 1992. What Insight envisages: The right mix of Products, services, People, infrastructure, Resources and Technical expertise. The prime push for INSIGHT has been towards diversifying itself into many arenas of Digital Information Technology. Today customers are turning to INSIGHT for flexible and operable solutions. Be it Systems Integration, Infrastructure Consolidation, Networking or Application Development we providing efficient, cost effective & cutting-edge technology has been the driving initiative at INSIGHT since last more the one decade. Our expertise in the Information Technology and the industry domain has been acknowledged by the business community at large. A testimony of this is our distinguished client portfolios that are leaders in their vertical and an achievement that Insight is proud of. Our vision is Instigate Values by Service Integration and Solutions.

Solutions we provide: Compliance, Convergence, and Manageability & Lifecycle Management.

## **2. Introduction for SOP**

A Standard Operating Procedure (SOP) is a set of written instructions that document a routine or repetitive activity followed by an organization / team. The development and use of SOPs are an integral part of a successful quality system as it provides individuals with the information to perform a required job properly, and facilitates consistency in the quality and integrity of an end-result.

The use of Standard Operating Procedures by teams will provide several Benefits. First, the intent will be communicated to all individuals in the team. Second, SOPs provide subordinate employees with the desired end state and allow them to use their discretion if decisions need to be made. SOPs provide leaders the framework to conduct business safely by allowing them to focus on critical decisions instead of routine ones thus enhancing their decision making ability in stressful situations. Finally, SOPs provide a mechanism to identify needed changes, implement appropriate policy, enhance training, describe desired performance, and evaluate operational performance. The result is improved operational efficiency, greater accountability, and customer (user) satisfaction.

## **3. Objective**

The primary objective of this document is to serve as a set of written instructions for remotely managing the infrastructure of Grant Investrade Ltd, it provides the standard Process Framework and detailed procedures in carrying out the services effectively and efficiently.

## **4. Scope**

The scope of this document is to follow the step by step process for the VMware deployment at Grant Investrade Ltd. On daily basis it will help the support team for managing the infrastructure, and analyse any possible security threat or anomalies that can be fatal for business.

## **5. Audience**

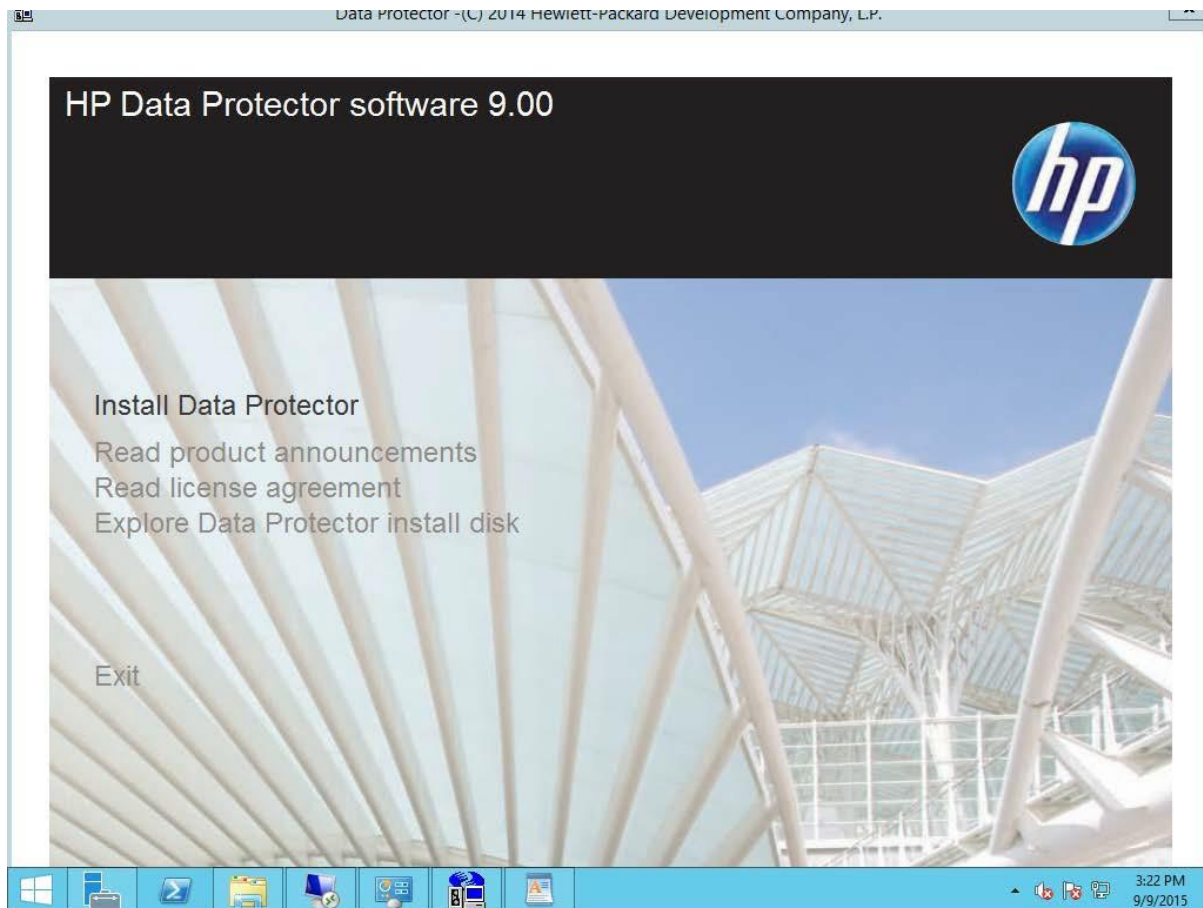
The intended audience for this document is Help Desk, System Engineer / System Administrator, Team Leader and IT End Users at Grant Investrade Ltd (Mumbai)

## 6. Installation of HP Data Protector

**Step-1:-** Insert the Windows installation DVD-ROM.

On Windows Server 2008, the User Account Control dialog is displayed. Click Continue to proceed with the installation.

**Step-2:-** In the HP Data Protector window, select Install Data Protector to start the Data Protector Setup Wizard.



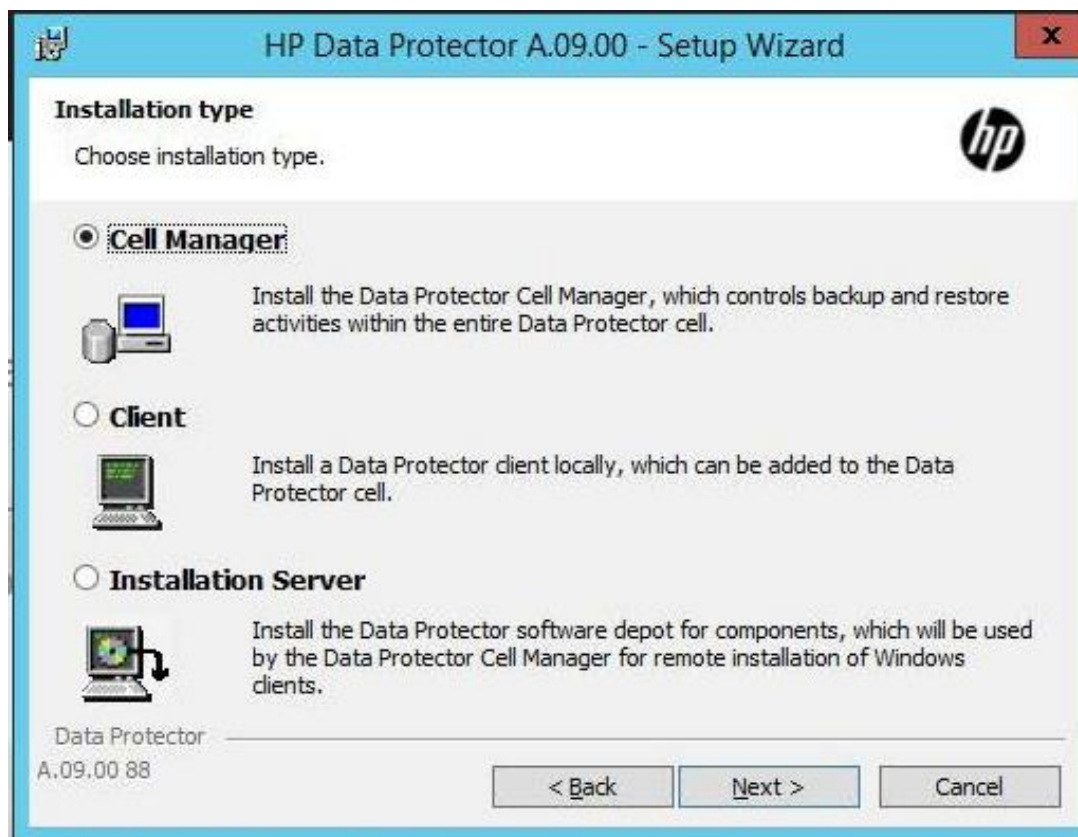


**Step-3:-** Follow the Setup Wizard and carefully read the license agreement. Click Next to continue, if you accept the terms of the agreement.





**Step-4:-** In the Installation Type page, select Cell Manager and then click Next to install Data Protector Cell Manager Software



**Step-5:-** Provide the username and password for the account under which the Data Protector services will run. Click Next to continue.

Username: Administrator@GIL-BKP01 / password: p@ssw0rd

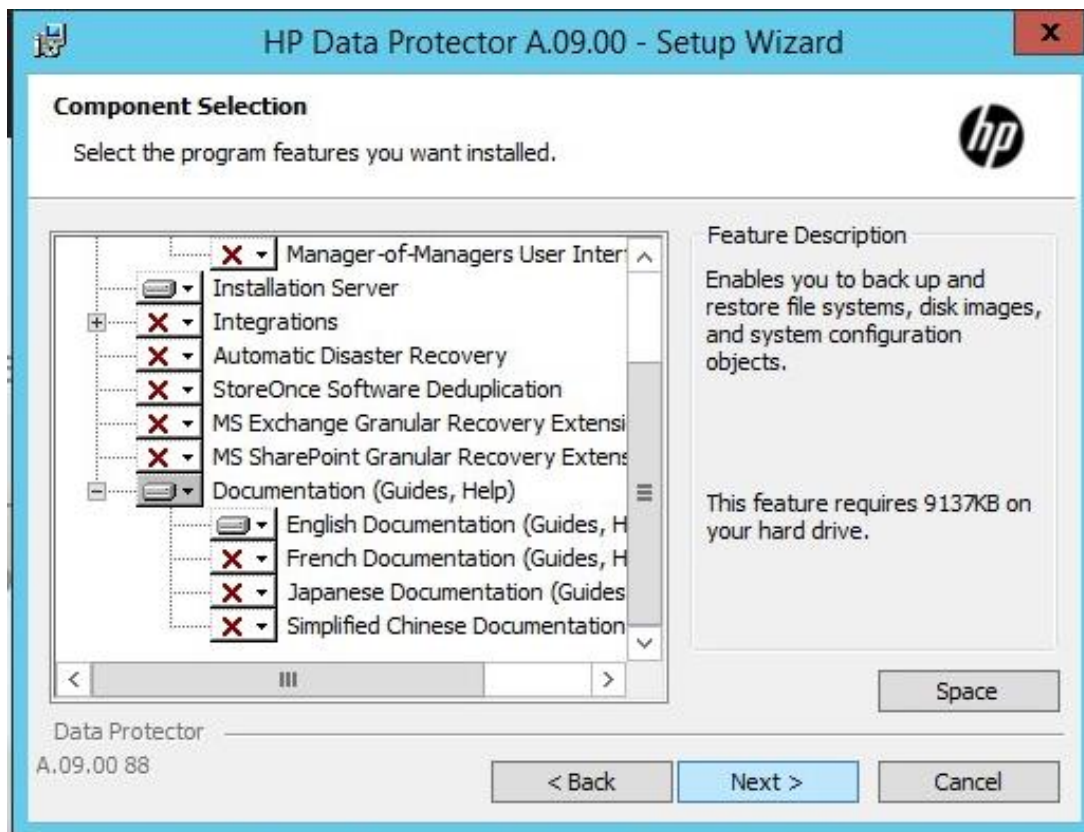


**Step-6:-** Click Next to install Data Protector in the default folder. Otherwise, click Change to open the Change Current Destination Folder window and enter a new path.



**Step-7:-** In the Component Selection page, select the components you want to install. For a list and descriptions of the Data Protector components, see “Data Protector Components”

Disk Agent, General Media Agent, User Interface, and Installation Server are selected by default. Click Next.



#### Internal Database and Application Server option:

Username: Administrator@GIL-BKP01 password: p@ssw0rd

Internal Database Port: 7112

Internal Database connection pooler port: 7113

Application server port : 7116

Application management port: 9999





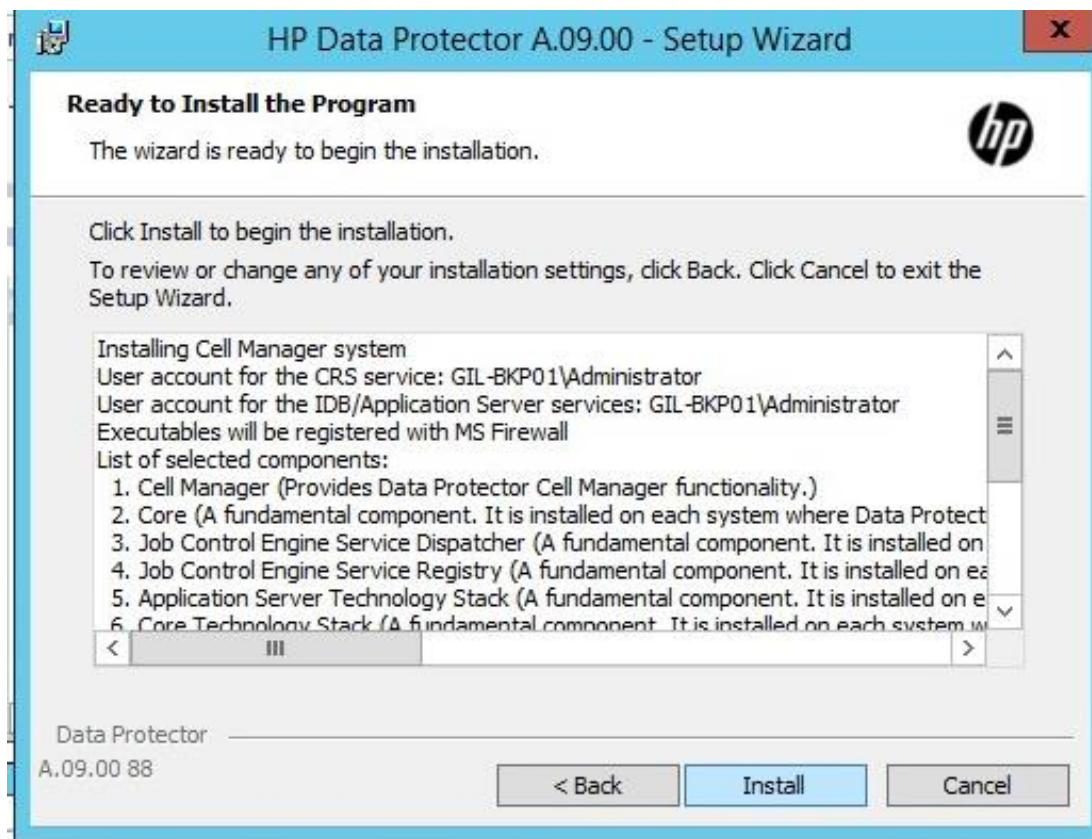
**Step-8:-** If Data Protector detects Windows Firewall on your system, the Windows Firewall configuration page is displayed. Data Protector Setup will register all necessary Data Protector Executables. By default, the selected option is initially, enable newly registered Data Protector Binaries to open ports as needed. If you do not Want to enable Data Protector to open ports at the moment, deselect the option.

However, note that for proper functioning of Data Protector, the executables must be enabled.

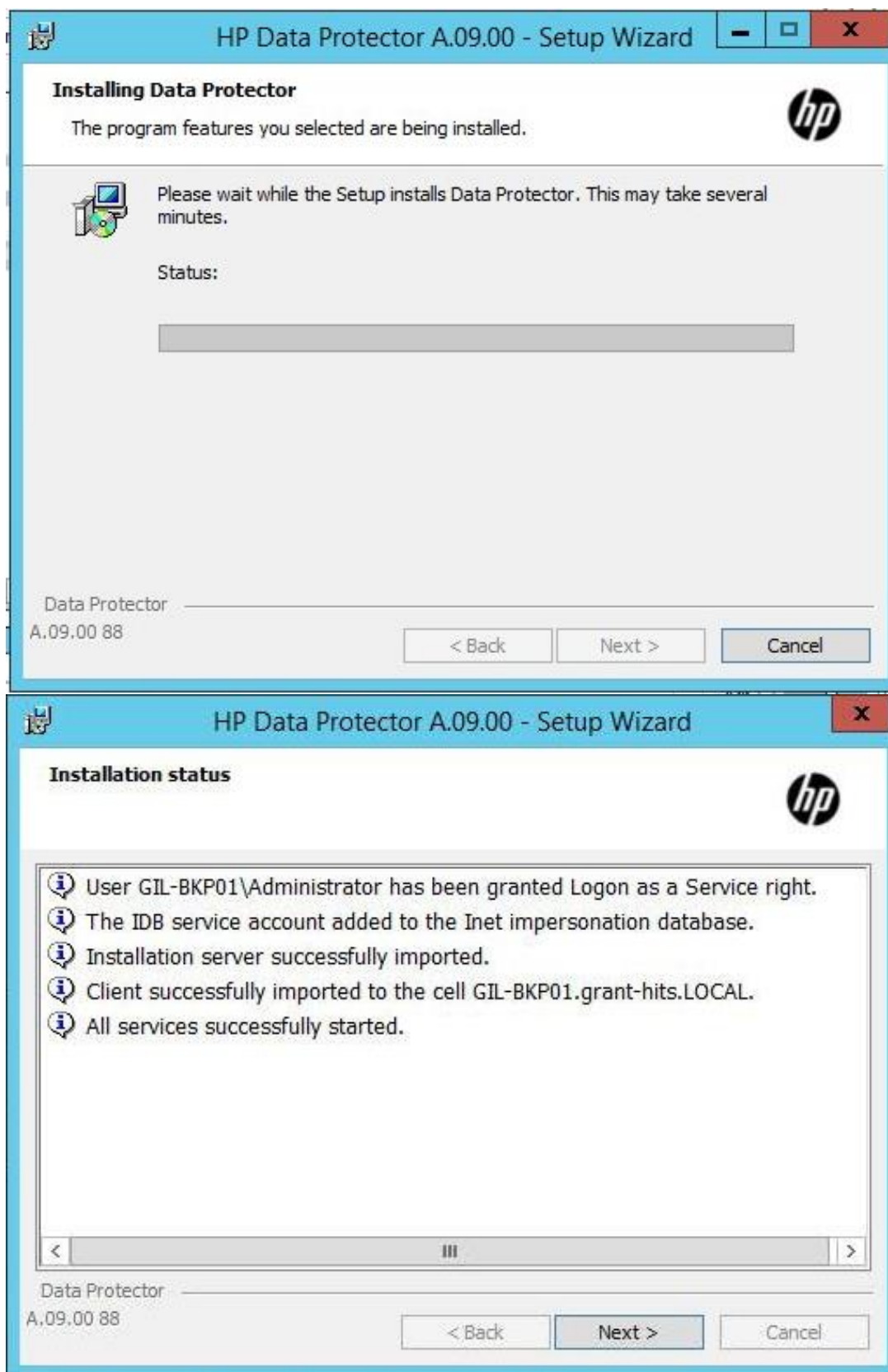
Click Next.



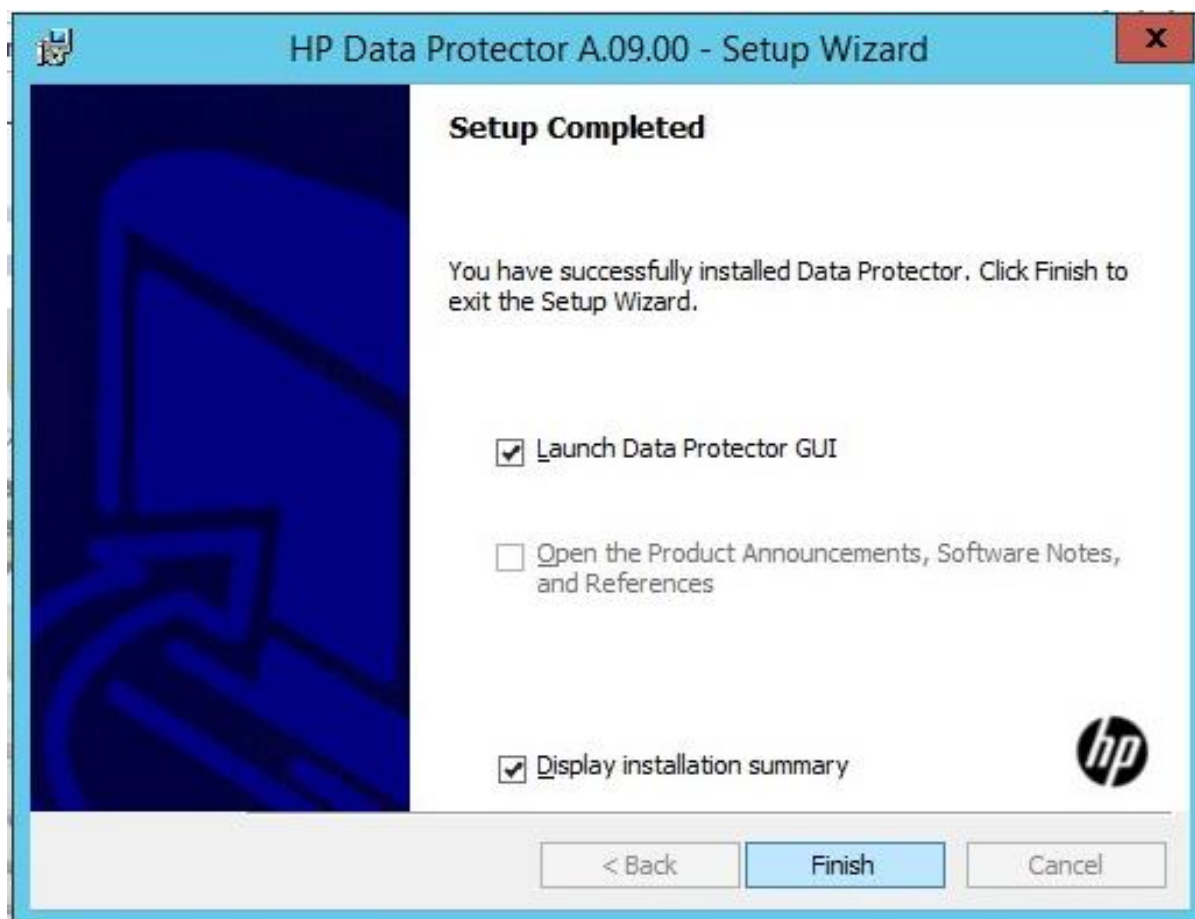
**Step-9:-** The component summary list is displayed. Click Install to start installing the selected components. This may take several minutes.



**Step-10:-** The Installation status page is displayed. Click Next.



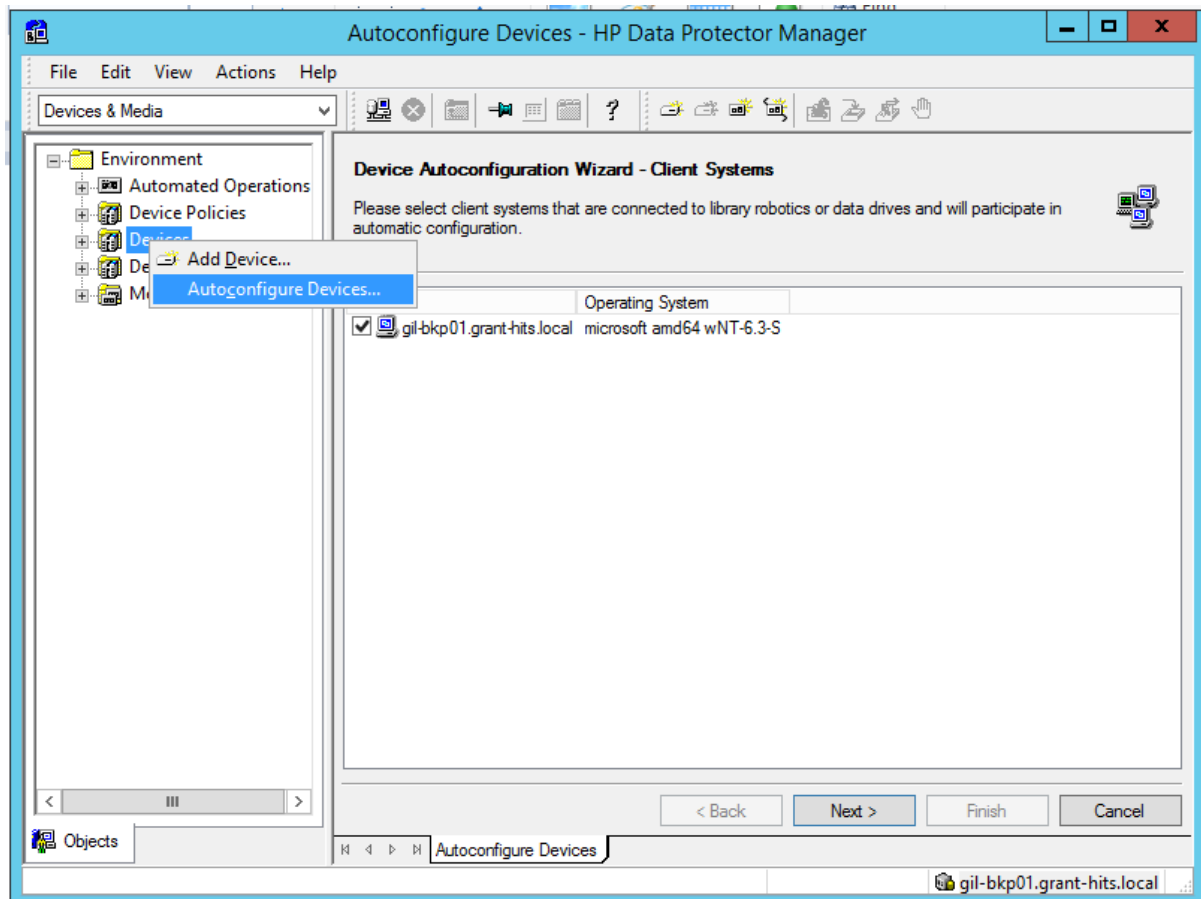
**Step-11:-** The Setup Wizard enables you to install or upgrade the HP Auto Pass utility if you want to download and install passwords for the purchased licenses directly through the internet from the HP password delivery centre web server. For more information on the Auto Pass utility, refer to “Obtaining and installing permanent passwords using the HP Auto Pass utility”



## 7. Tape Libraries Integration with HP Data Protector

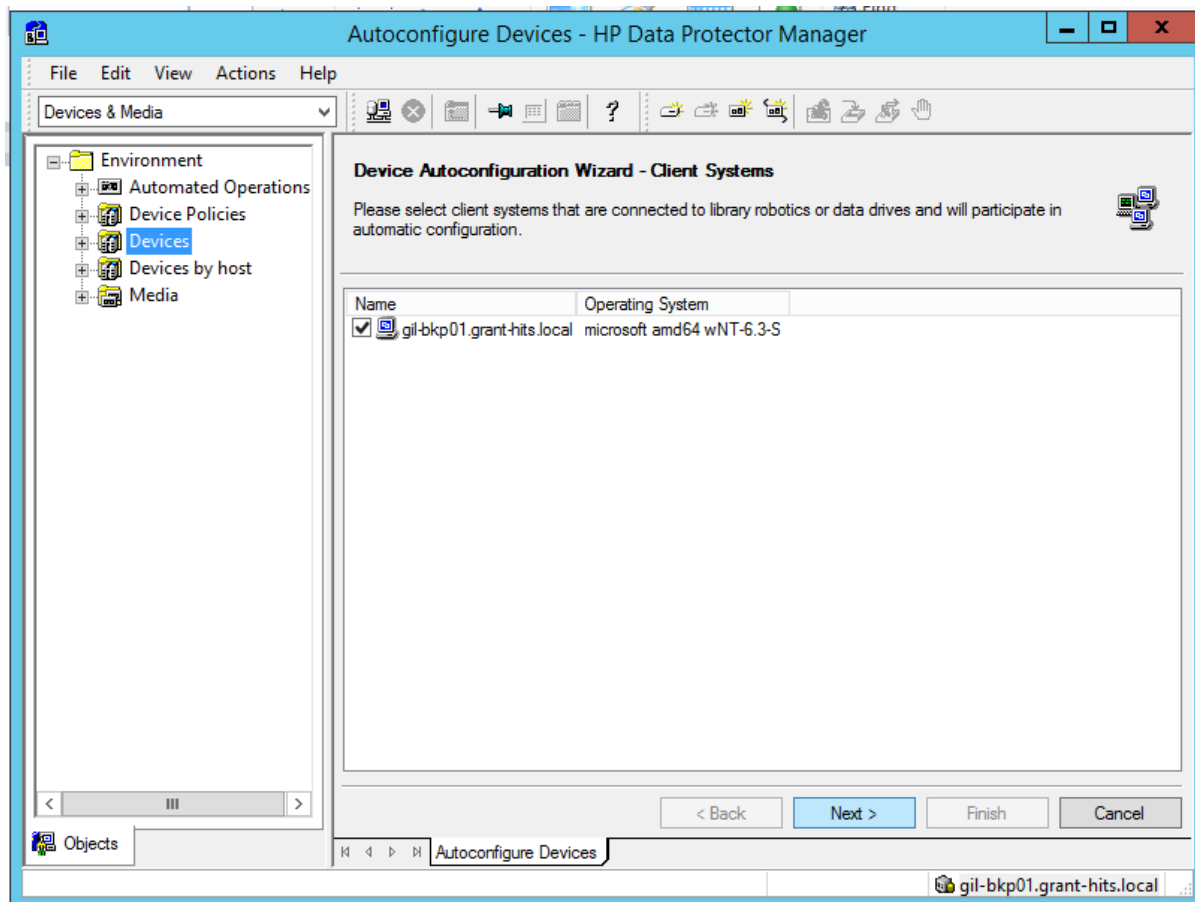
**Step-1:-** From the context drop down list, select Devices & Media.

**Step-2:-** In the scoping pane, right-click on Devices and select Auto configure Devices. This will launch the Device Auto configuration Wizard.



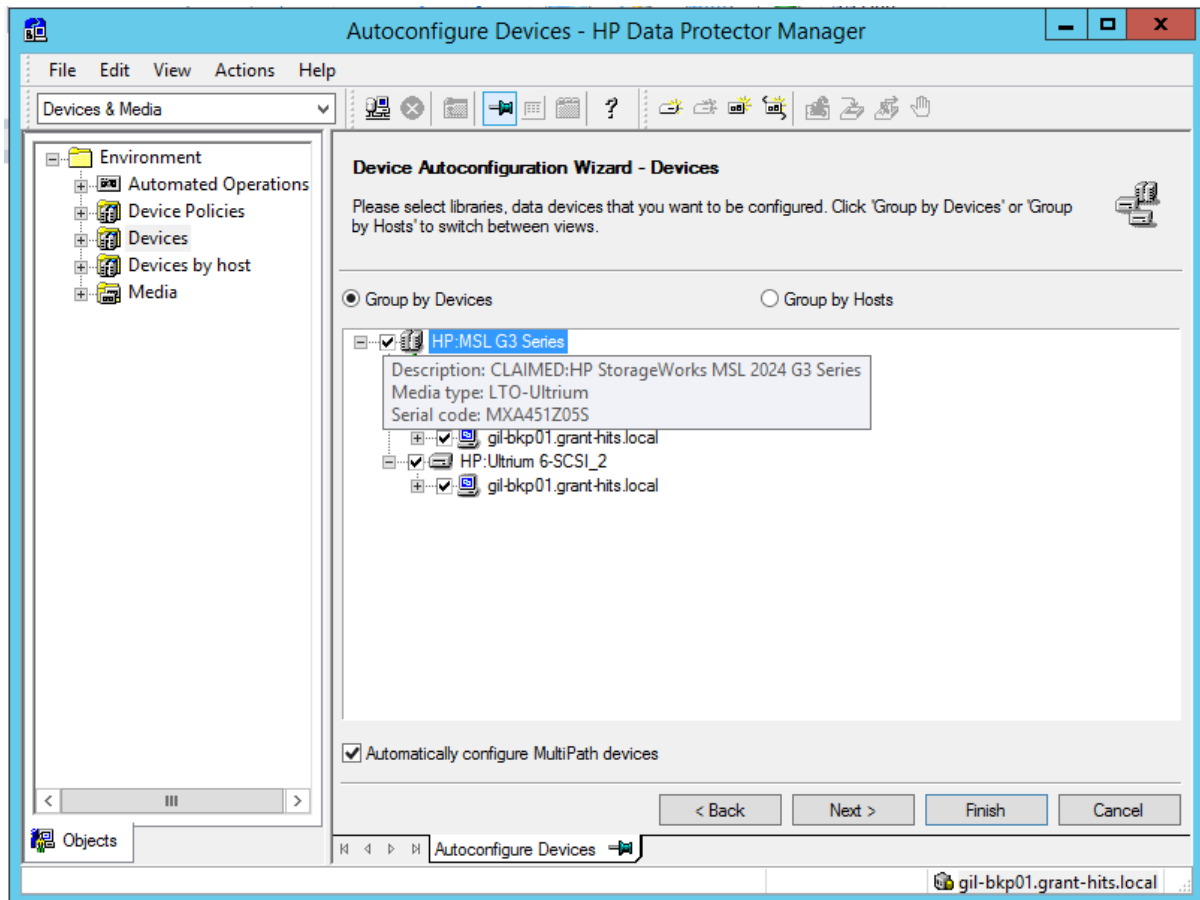


**Step-3:-** Select the client systems that are connected to the tape libraries and for whom automatic configuration is preferred. Click on Next. The selected clients will then be scanned to identify the connected devices.

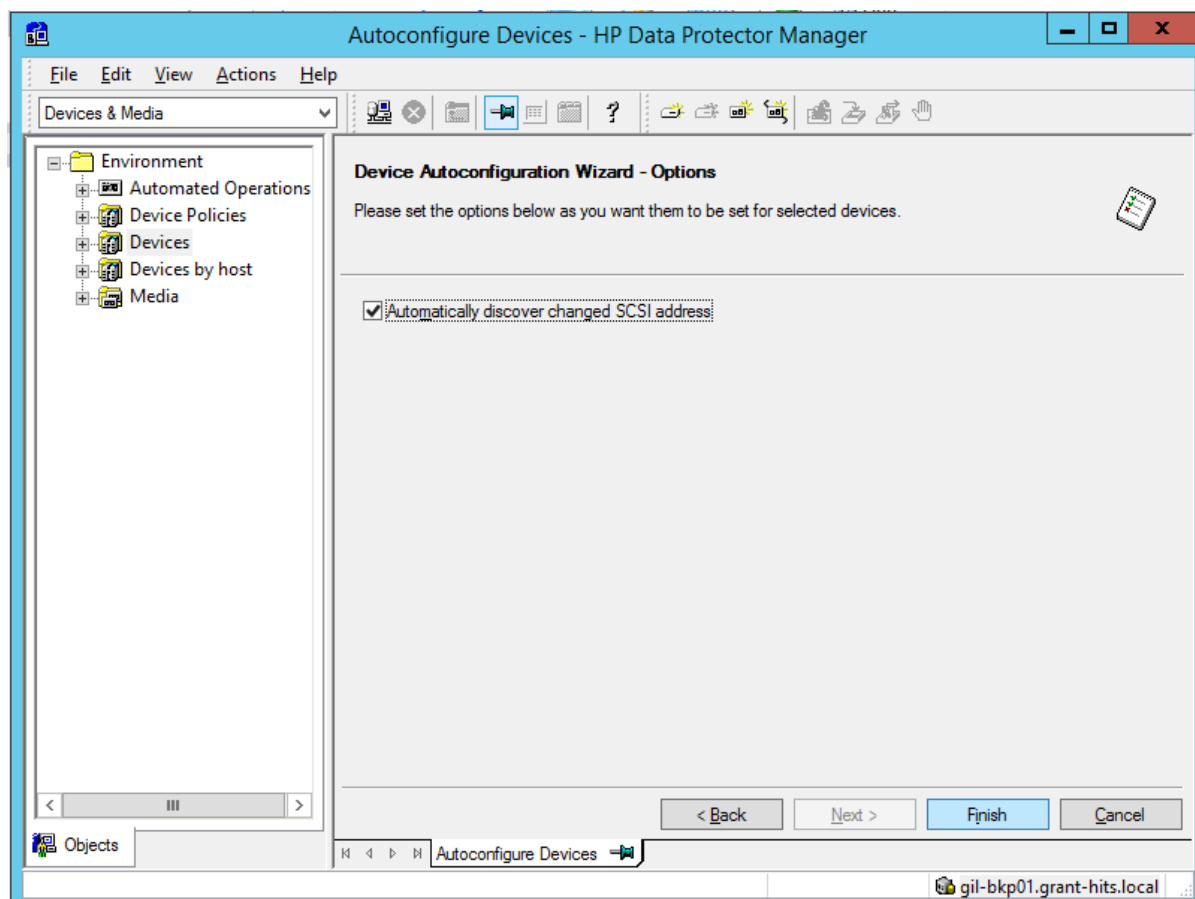


**Step-4:-** A list of grouped devices will then be displayed. Choose what devices each client will see/use.

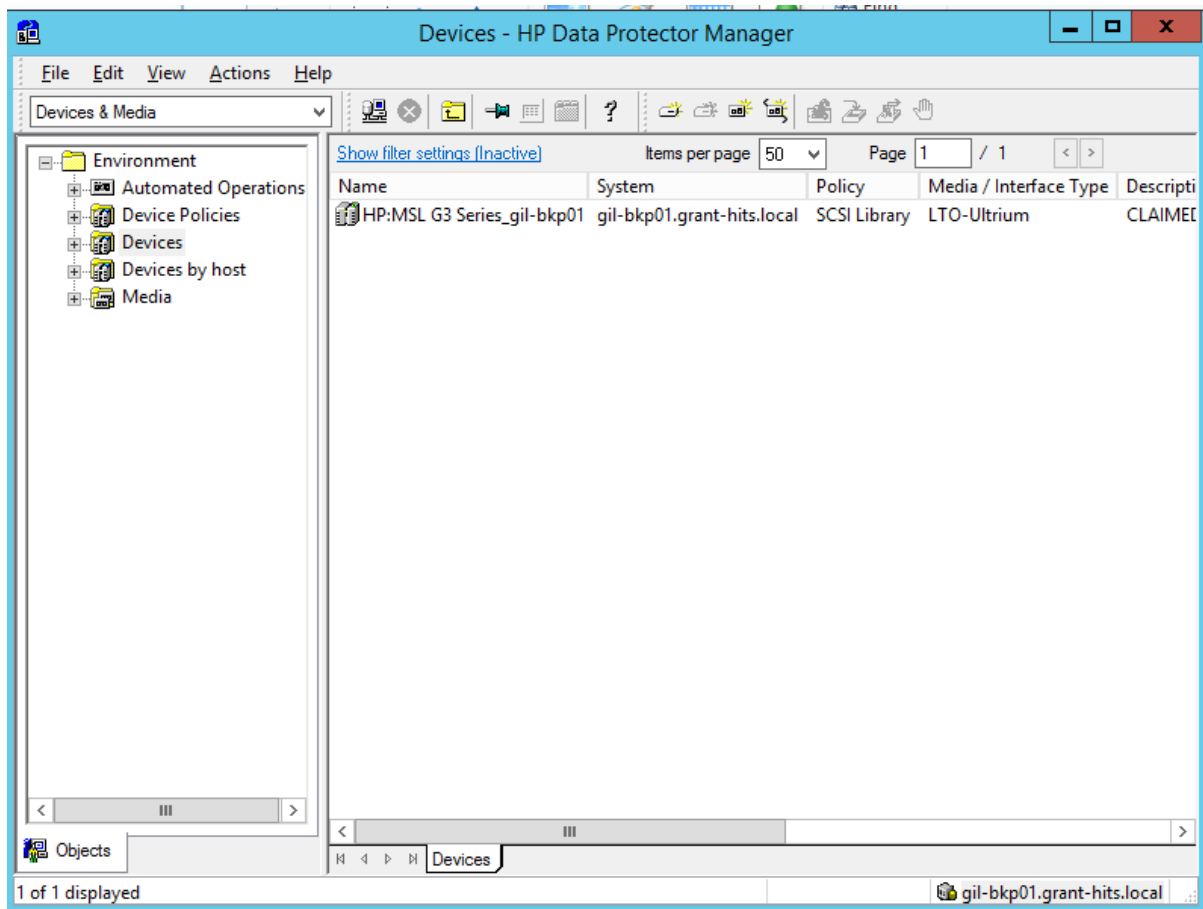
**Step-5:-** Click next to continue.



**Step-6:-** The final auto configuration wizard page, options, allows the user to choose whether Data Protector should automatically discover changed SCSI address or not. By default this option is not selected. In SAN environments it is recommended to use this option. If this option is not selected and the SCSI address of a device changes, the backup session will fail. Do not use this option for devices without serial numbers.



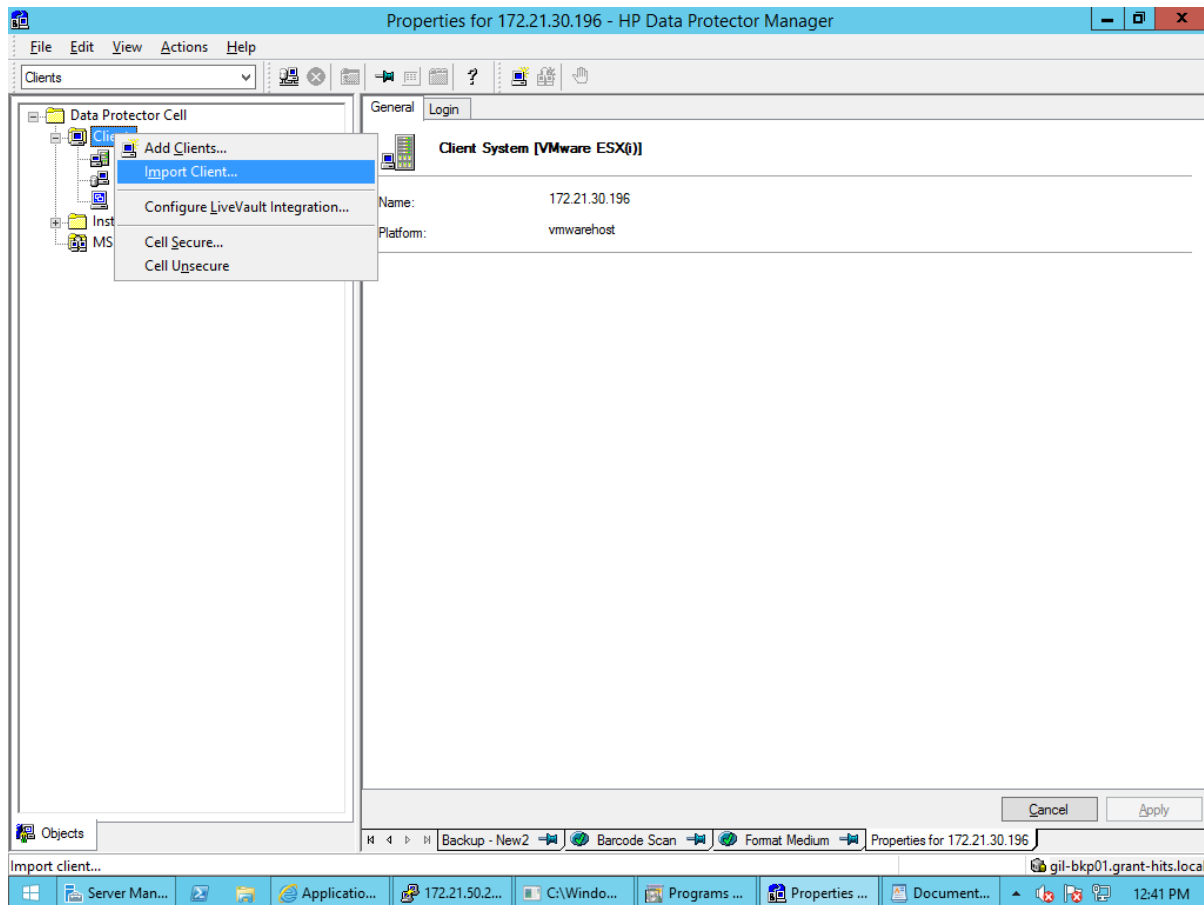
**Step-7:-** Click Finish. The list of configured devices is displayed.



## 8. Importing and configuring VMware clients Procedure

**Step-1:-** To import a client into a Data Protector cell: In the Context List, click Clients.

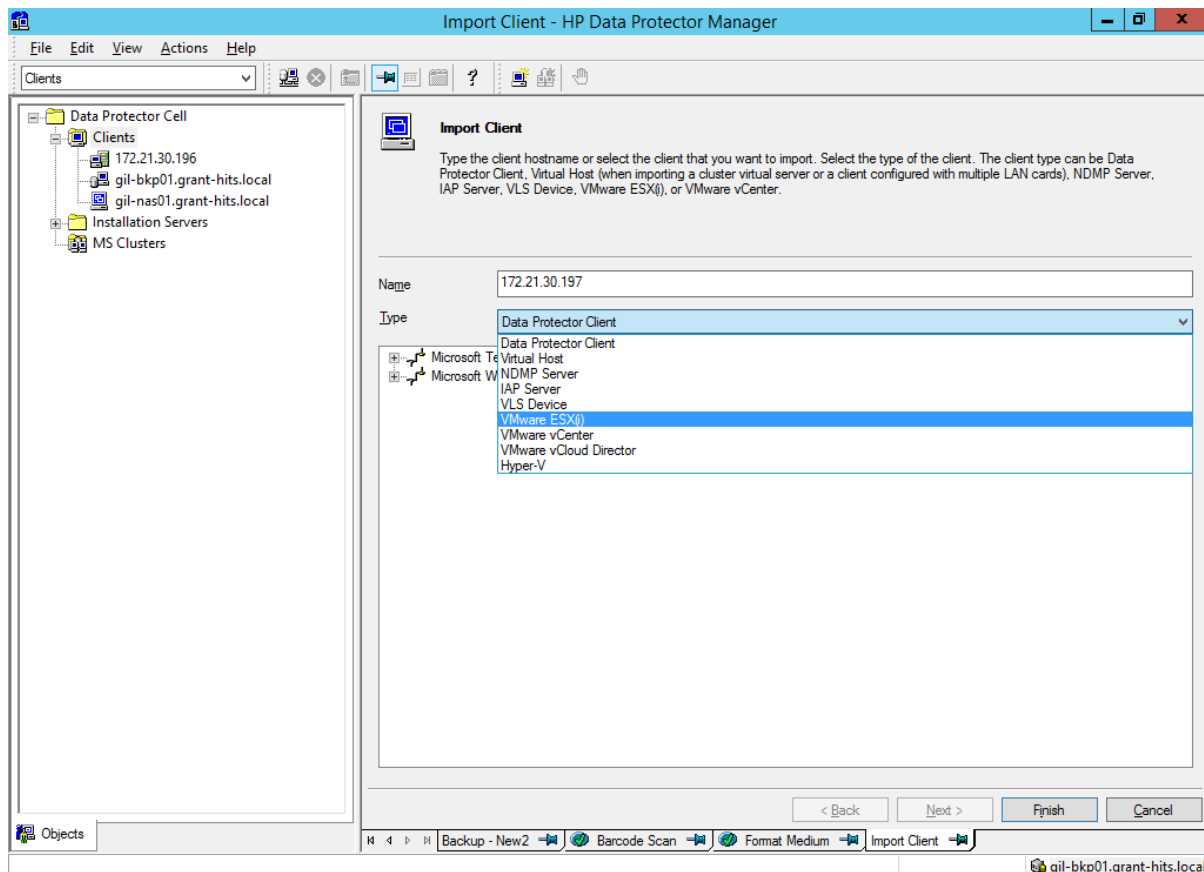
**Step-2:-** In the Scoping Pane, expand Data Protector Cell, right-click Clients, and select Import Client.





**Step-3:-** In the Import client page, enter the client name in the Name option, select the appropriate client type (VMware ESX(i), VMware vCenter, or VMware vCloud Director) from the Type drop-down list and click Next

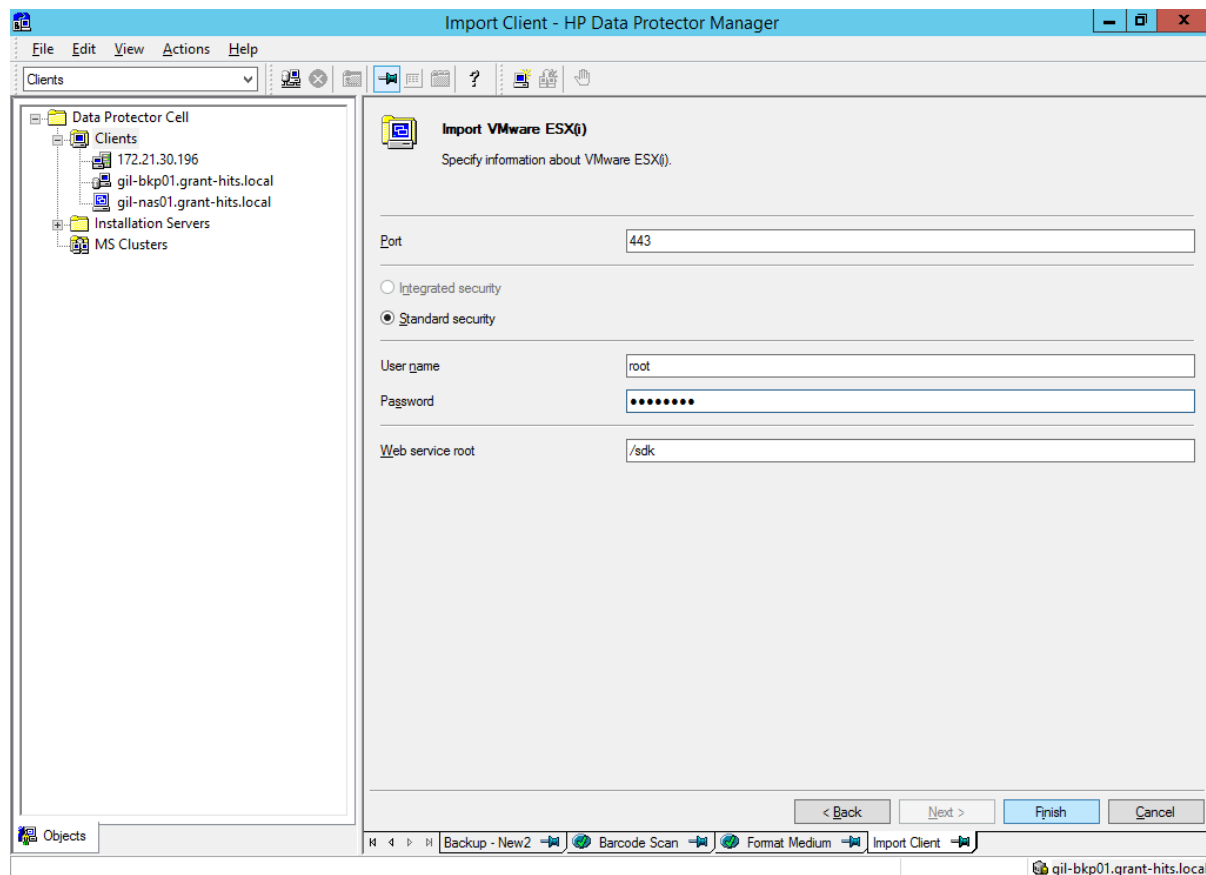
Here We ADD VMware ESX(i)



**Step-4:-** If you select Standard security, you need to manually specify which login credentials Data Protector should use to connect to the VMware client:

**Port:** Specify the port that VMware vSphere is using. By default, VMware uses the port 443.

**Username and Password:** Specify an operating system user account that has the following VMware vSphere privileges:



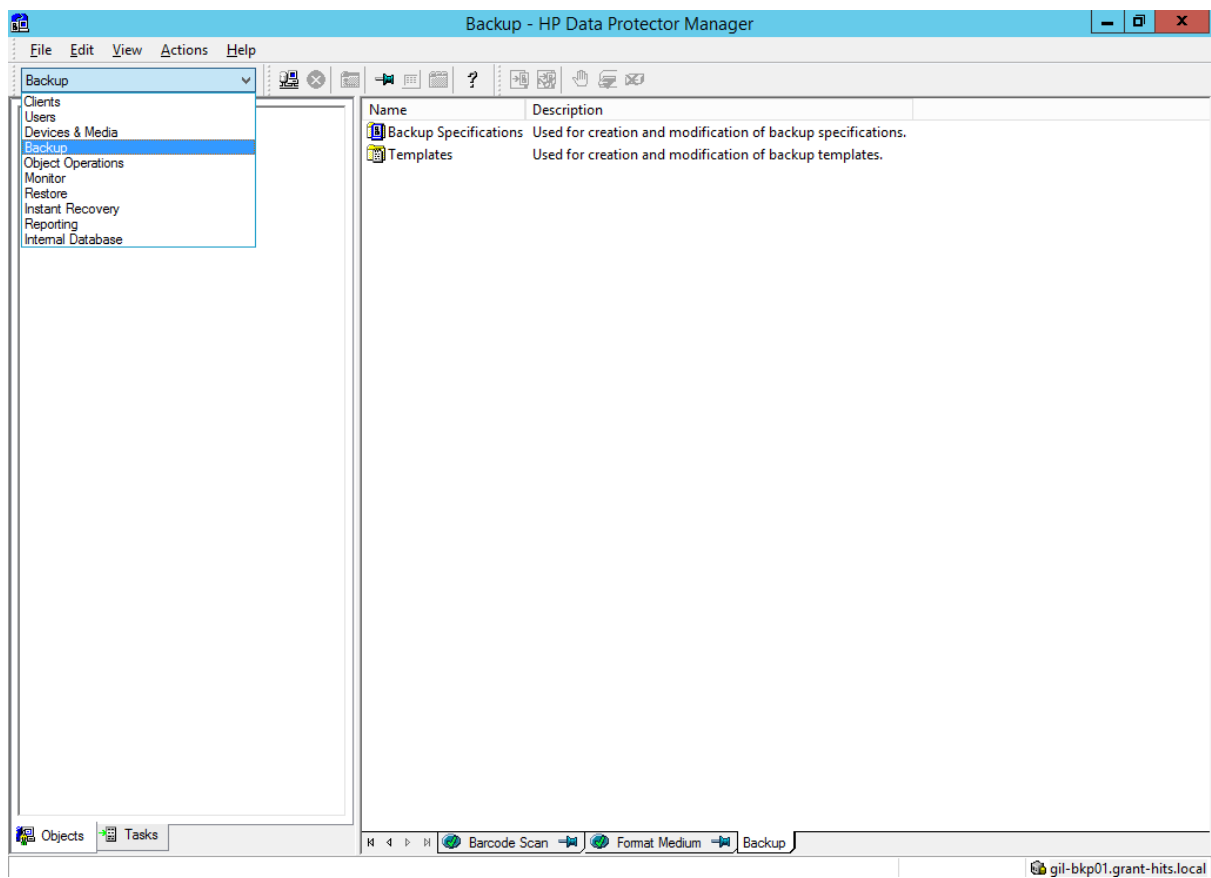
The screenshot shows the 'Import Client - HP Data Protector Manager' application window. The left pane displays a tree view under 'Data Protector Cell' with 'Clients' expanded, showing entries for '172.21.30.196', 'gil-bkp01.grant-hits.local', and 'gil-nas01.grant-hits.local'. The main pane is titled 'Import VMware ESX(i)' and contains the following fields:

- Port:** 443
- Security:** ☒ Standard security (Selected), ☐ Integrated security
- User name:** root
- Password:** [Masked with dots]
- Web service root:** /sdk

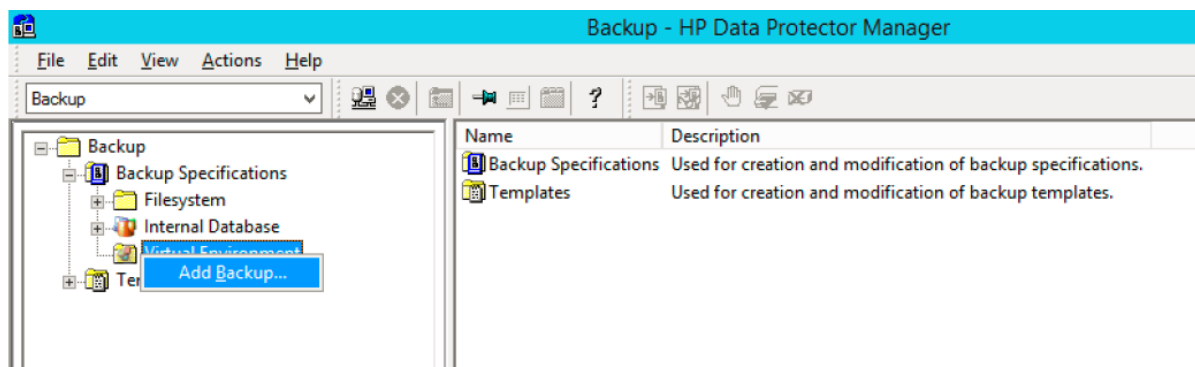
At the bottom of the main pane are buttons for '< Back', 'Next >', 'Finish', and 'Cancel'. The status bar at the bottom shows a list of tasks: 'Backup - New2', 'Barcode Scan', 'Format Medium', and 'Import Client', with 'Import Client' currently selected. The system tray on the right shows the hostname 'gil-bkp01.grant-hits.local'.

## 9. Creating backup specifications

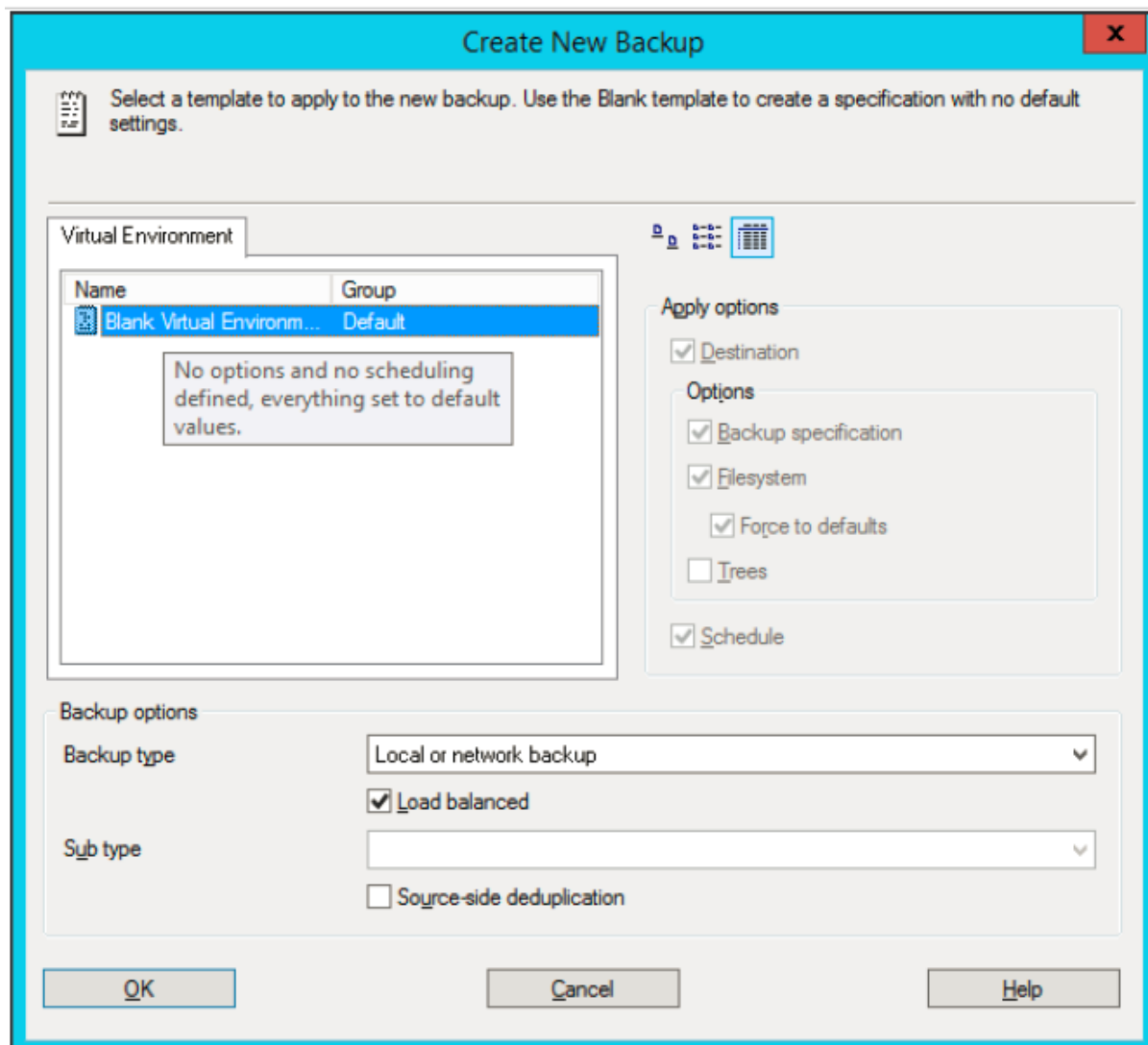
**Step-1:-** In the Context List, click Backup.



**Step-2:-** In the Scoping Pane, expand Backup Specifications, right-click Virtual Environment, and select Add Backup.

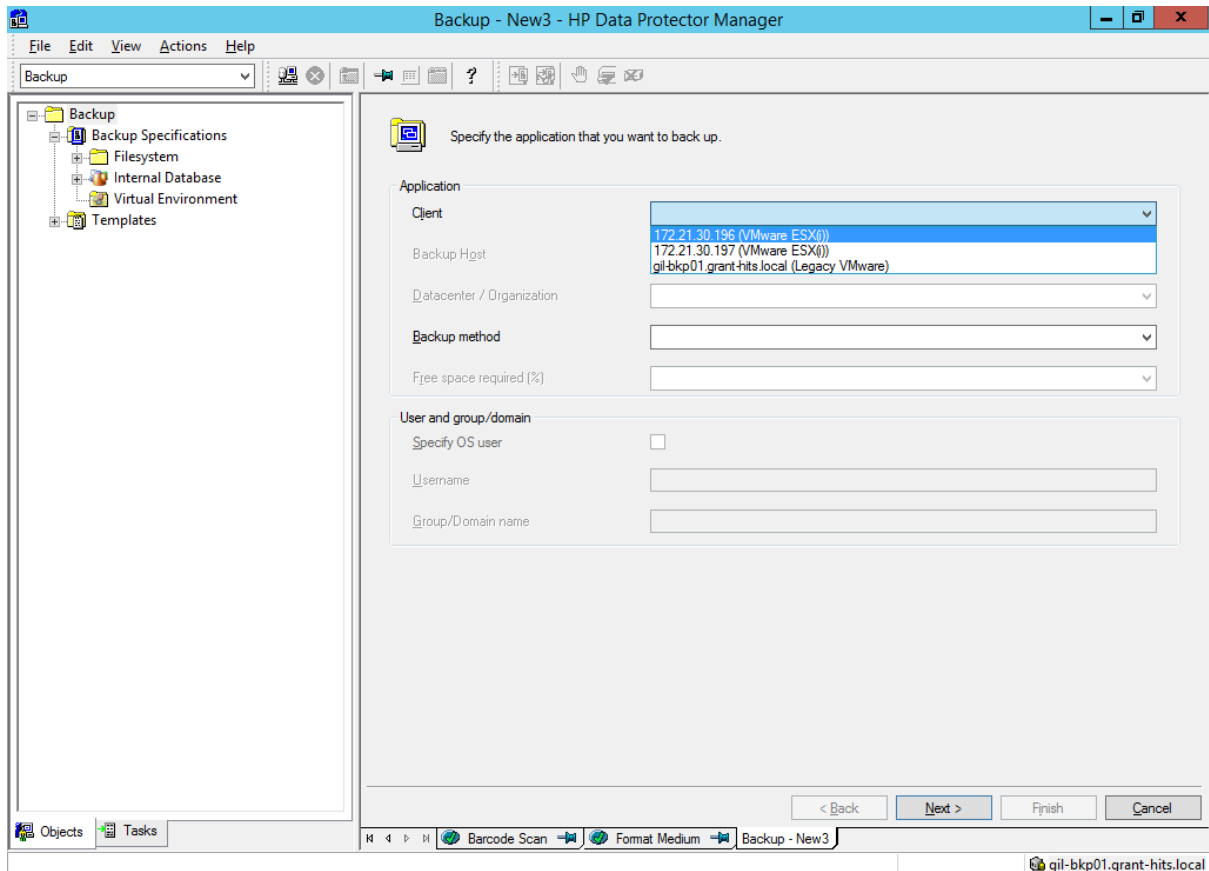


**Step-3:-** In the Create New Backup dialog box, click OK.



#### **Step-4:-** Specify the application to be backed up:

In the Client drop-down list, select a VMware client.

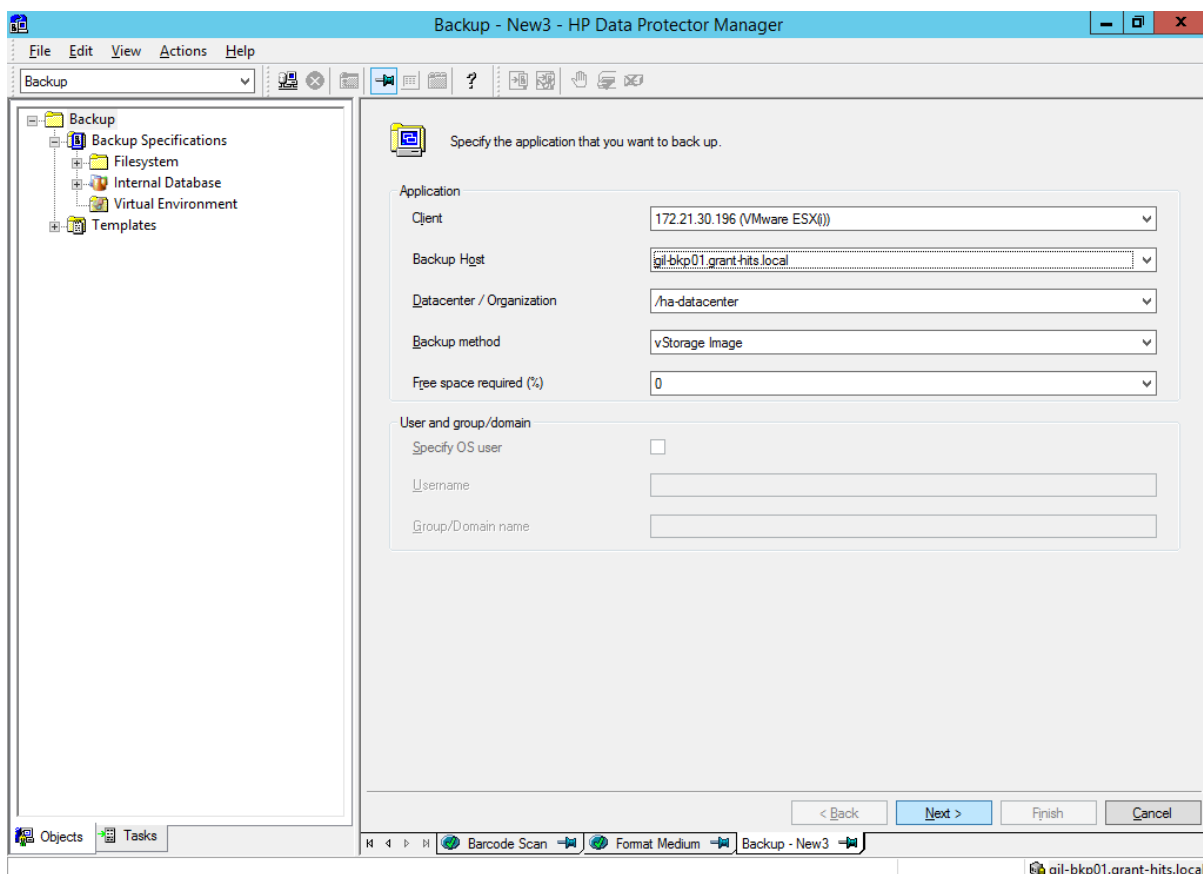


In Backup method, the backup method is displayed:  
vStorage Image for VMware vCenter and VMware ESX(i) clients

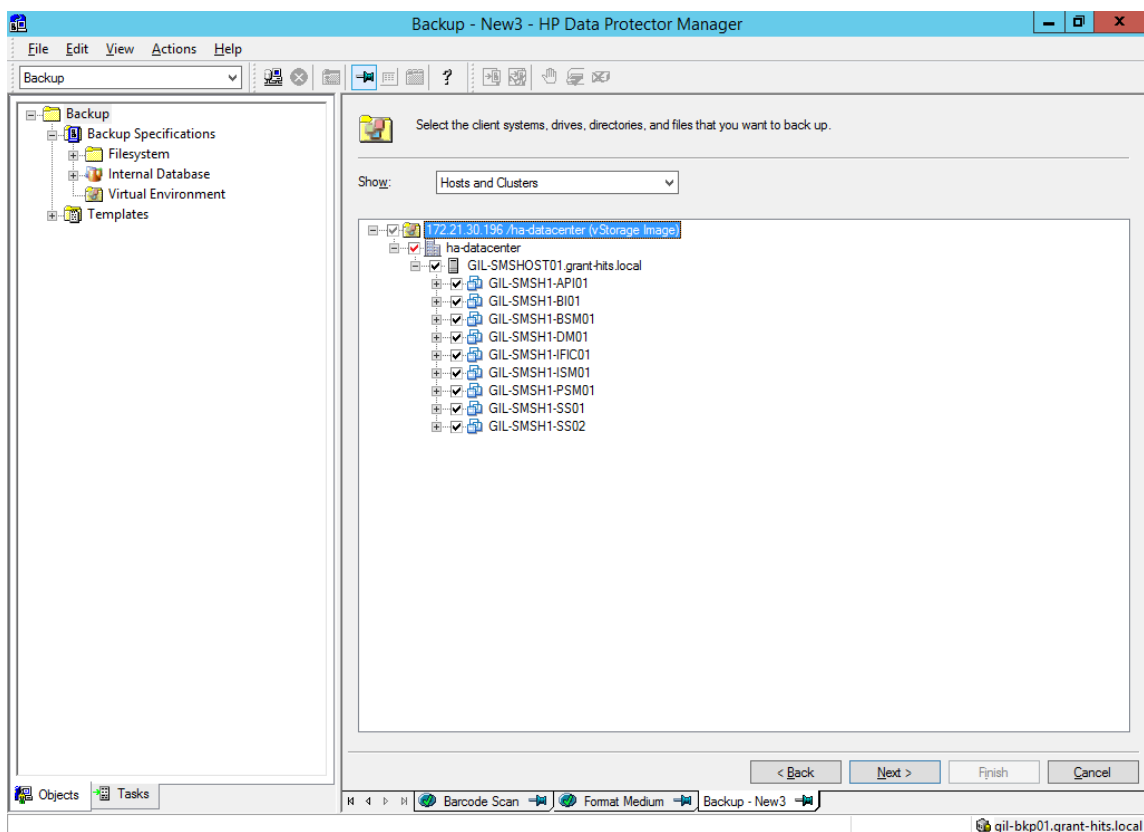
Selecting a VMware vCenter Server client, backup host, and datacentre

Click Next



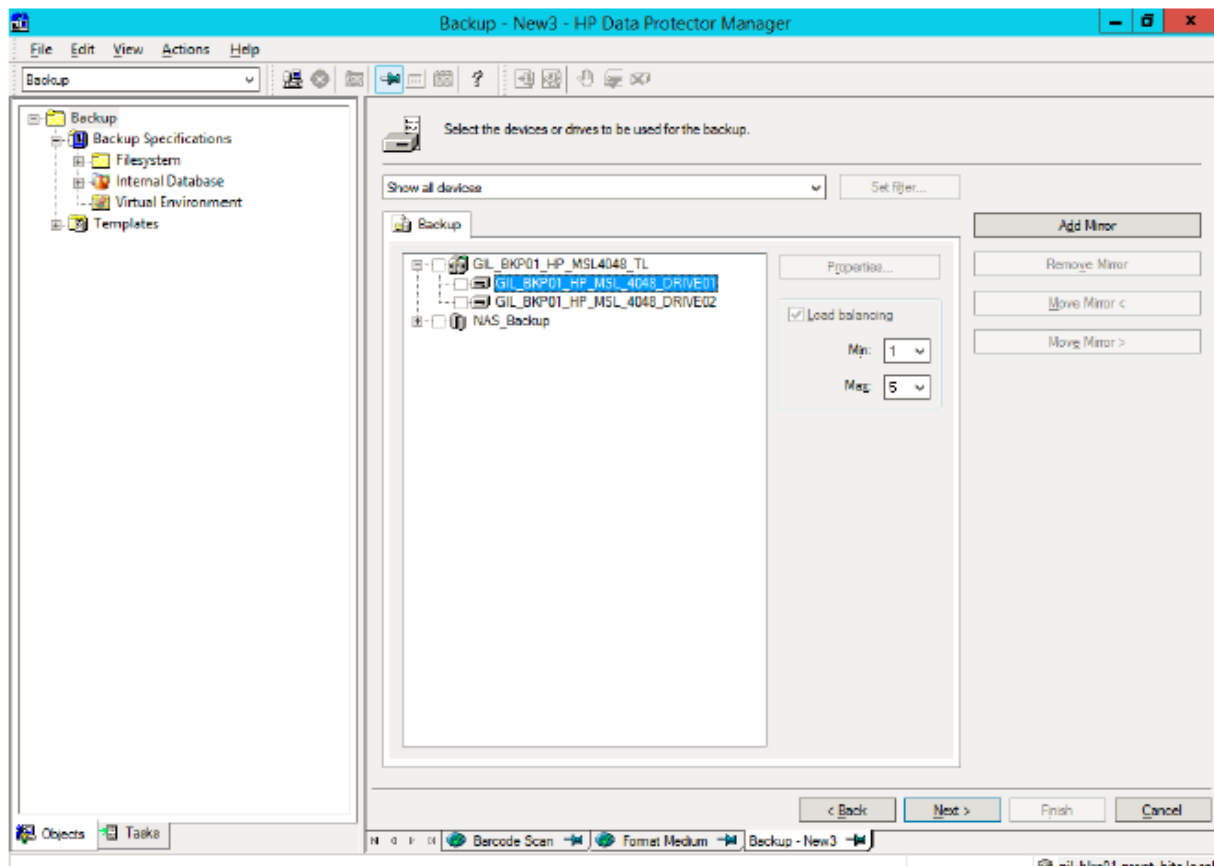


**Step-5:-** Select the objects that you want to back up. In the Show drop-down list, simplify your selection by choosing the Hosts and Clusters or VMs and Templates view. By default, Hosts and Clusters is displayed.

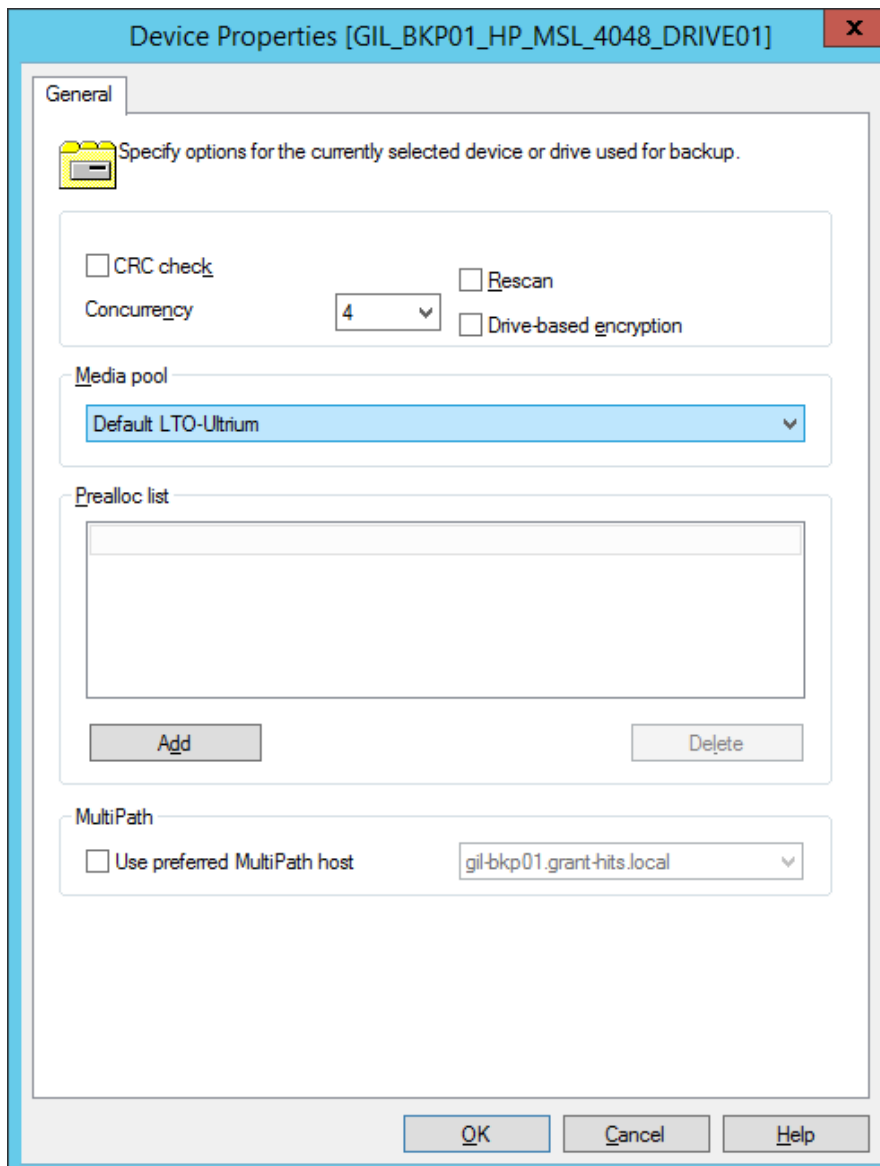


For VMware vCenter and VMware ESX(i) clients: ESX/ESXi Servers systems

## Backup device selection



## Device Properties



**Device Properties [GIL\_BKP01\_HP\_MSL\_4048\_DRIVE01]**

General

Specify options for the currently selected device or drive used for backup.

☐ CRC check

Concurrency: 4

☐ Rescan

☐ Drive-based encryption

Media pool: Default LTO-Ultrium

Prealloc list

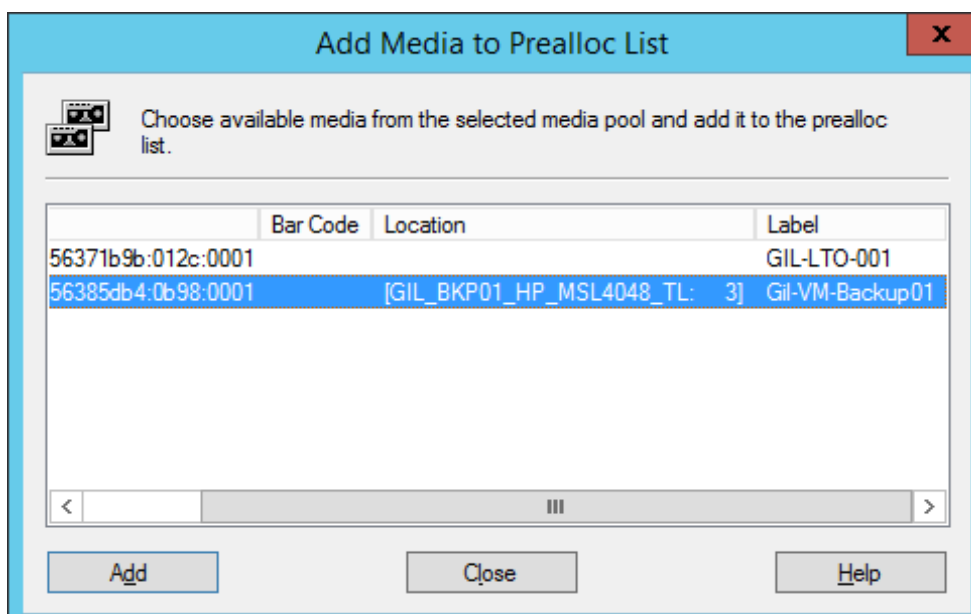
Add Delete

MultiPath

☐ Use preferred MultiPath host: gil-bkp01.grant-hits.local

OK Cancel Help

## Media Selection



**Add Media to Prealloc List**

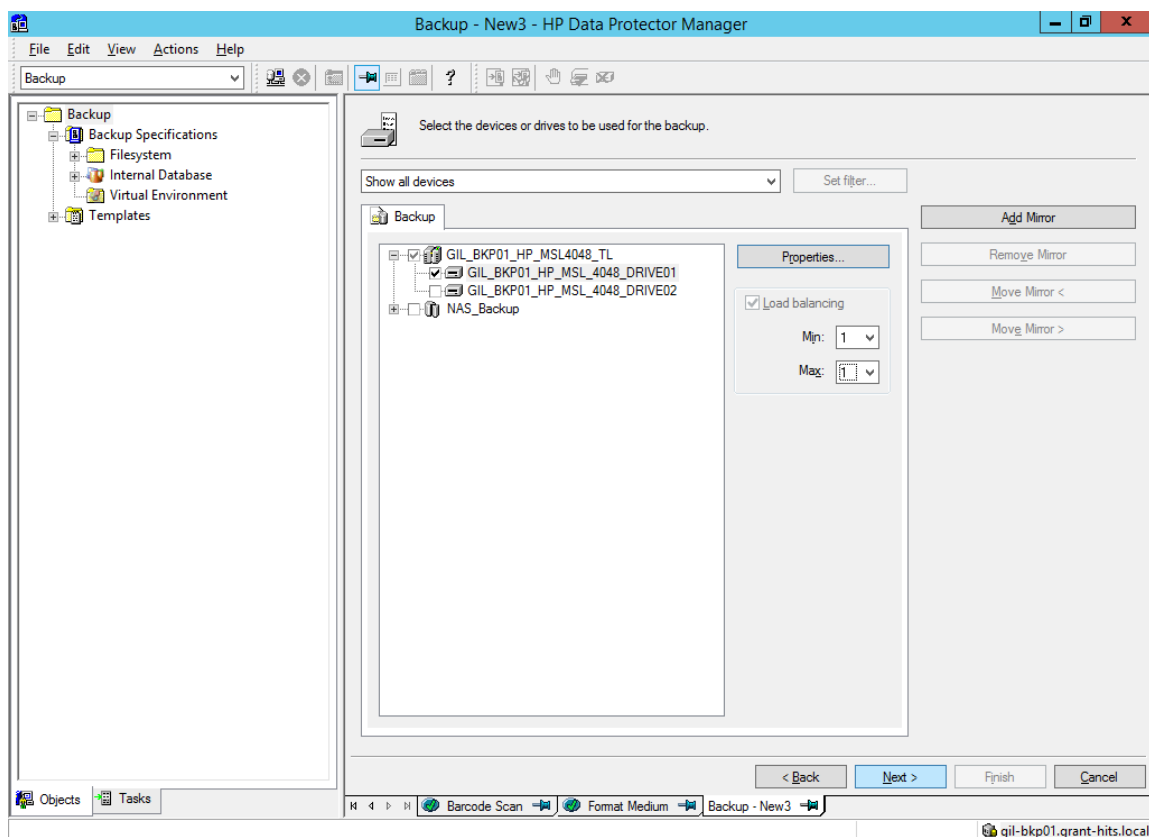
Choose available media from the selected media pool and add it to the prealloc list.

Bar Code	Location	Label
56371b9b:012c:0001		GIL-LTO-001
56385db4:0b98:0001	[GIL_BKP01_HP_MSL4048_TL: 3]	Gil-VM-Backup01

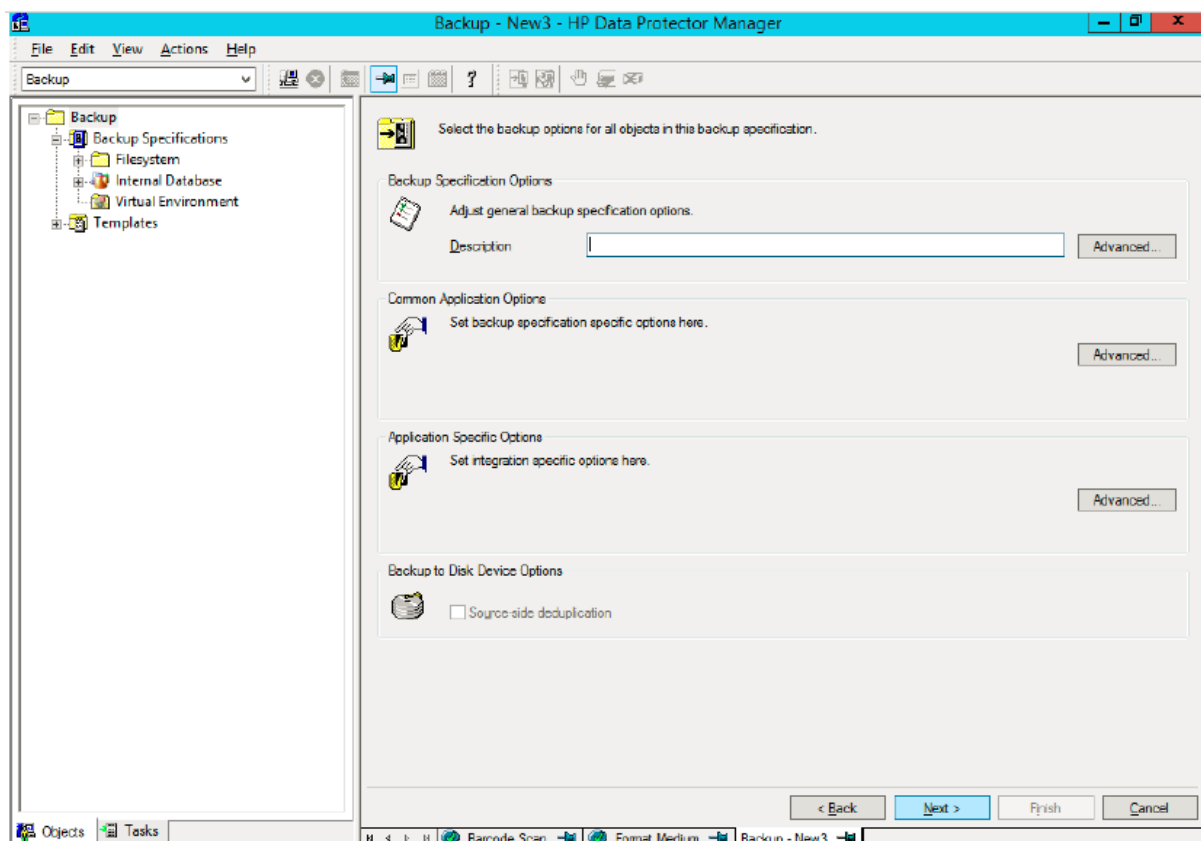
< ||| >

Add Close Help

## Set load balancing



## Backup description and retention set as per environment

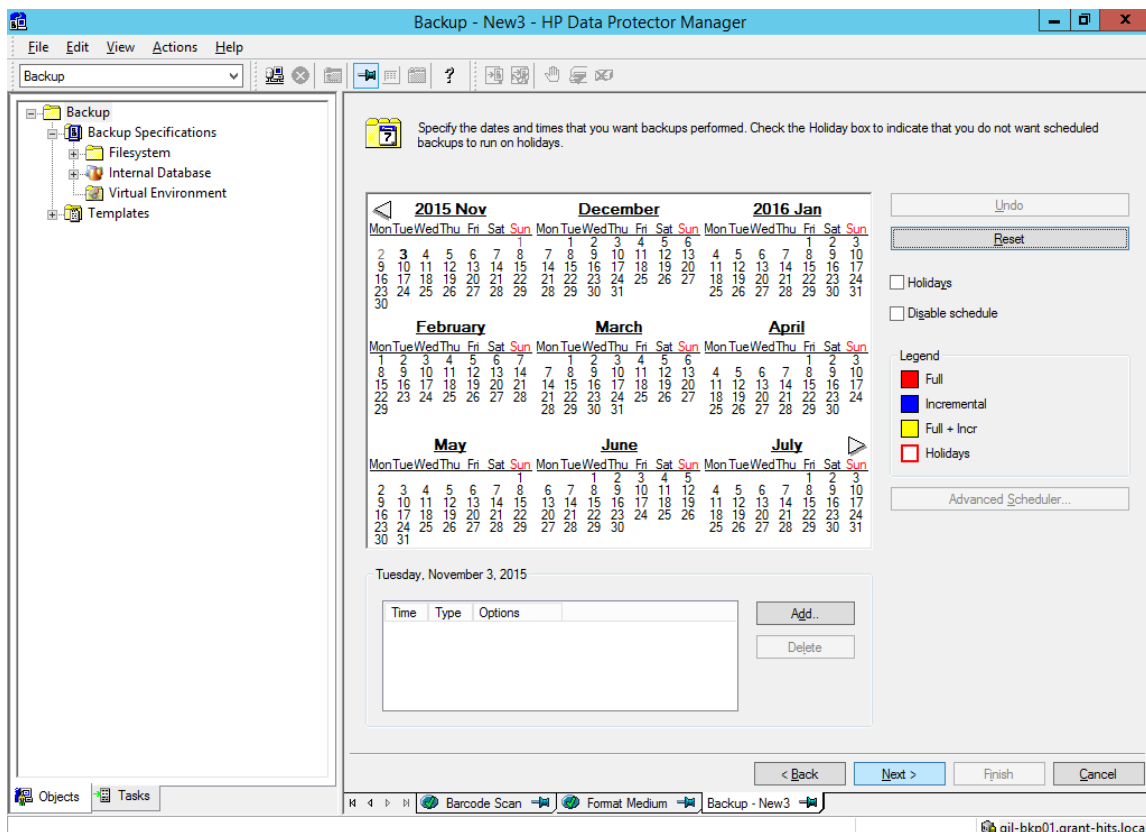


## 10. Scheduling backup sessions

**Step-1:-** In the Schedule property page of the backup specification, select the starting date in the calendar and click Add to open the Schedule Backup dialog box.

**Step-2:-** Under Recurring, select Weekly. Under Time options, select 8:00. Under Recurring options, select Mon, Tue, Wed, Thu, and Fri. See "Scheduling a backup session" on the next page. Under Session options, select Differential from the Backup type drop-down list.

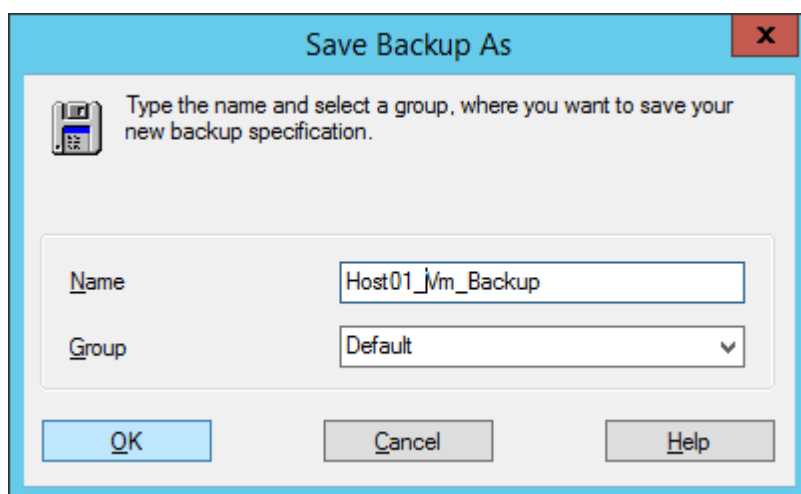
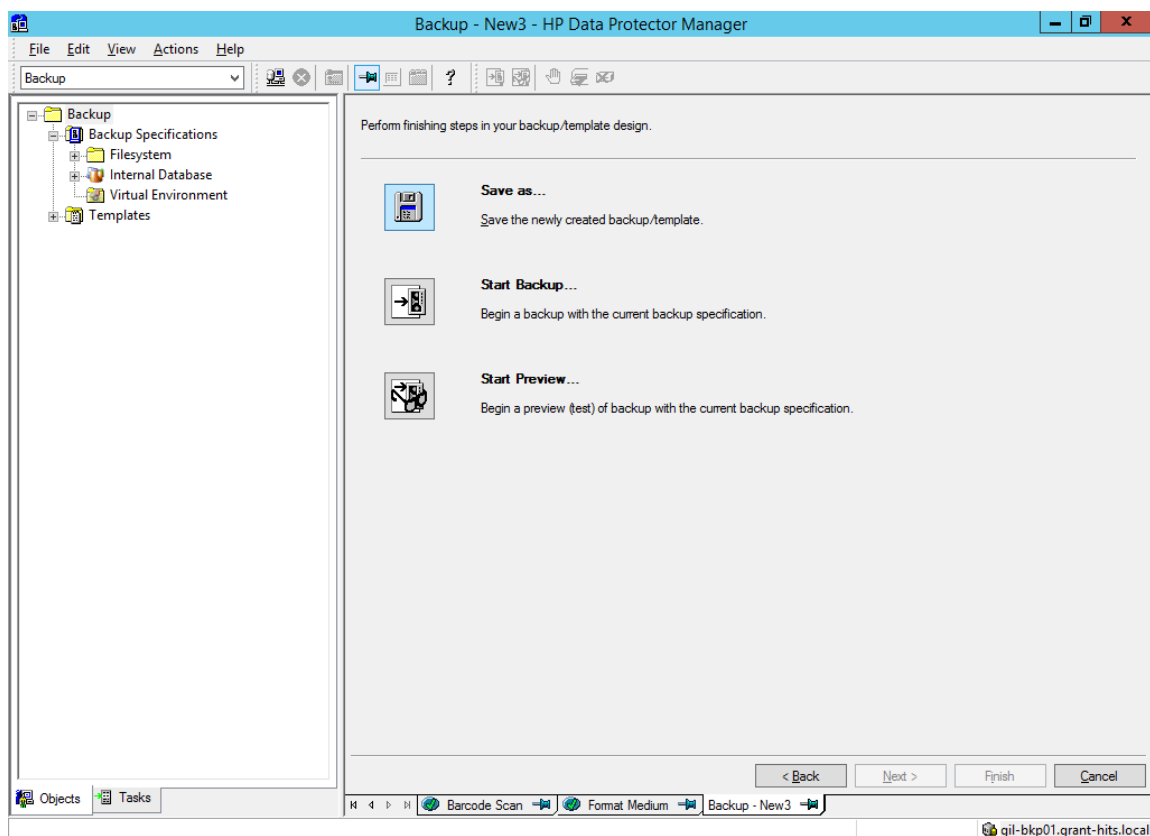
Click OK.



**Step-3:-** Repeat Step 1 and Step 2 to schedule differential backups at 13:00 and 18:00.

**Step-4:-** Click Apply to save the changes.

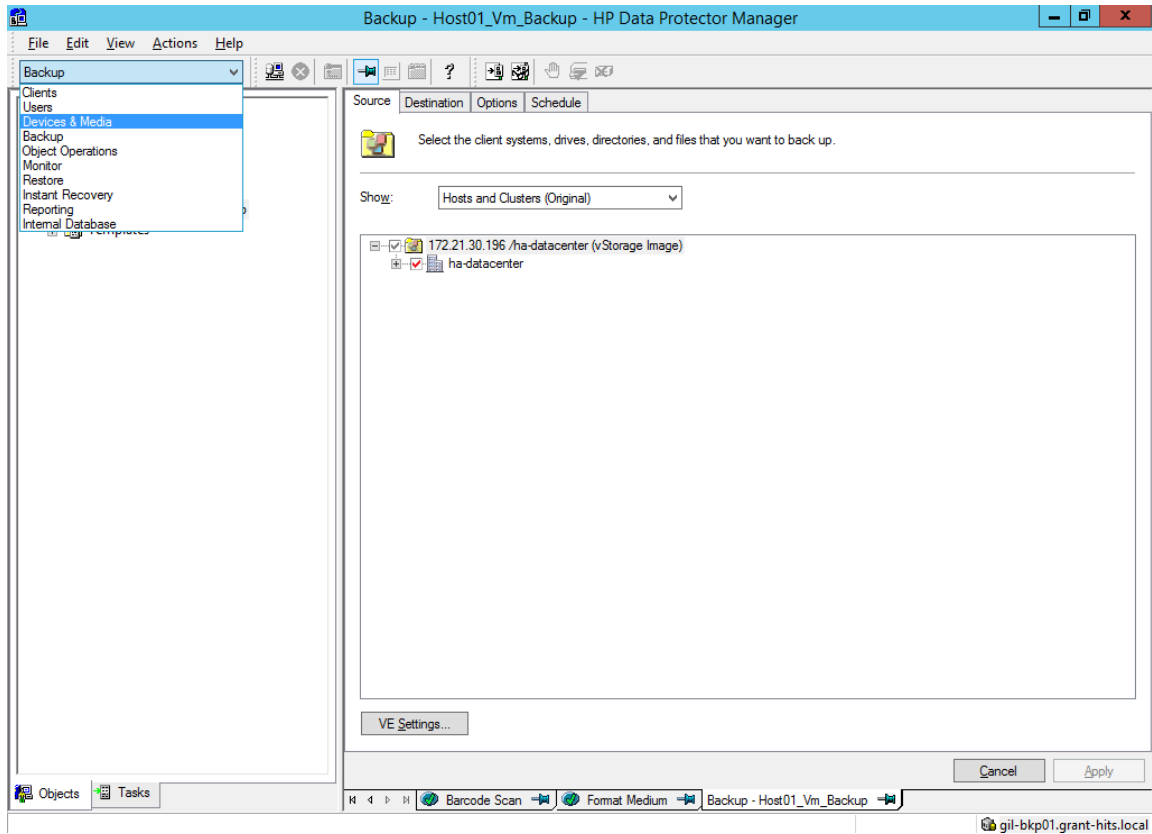




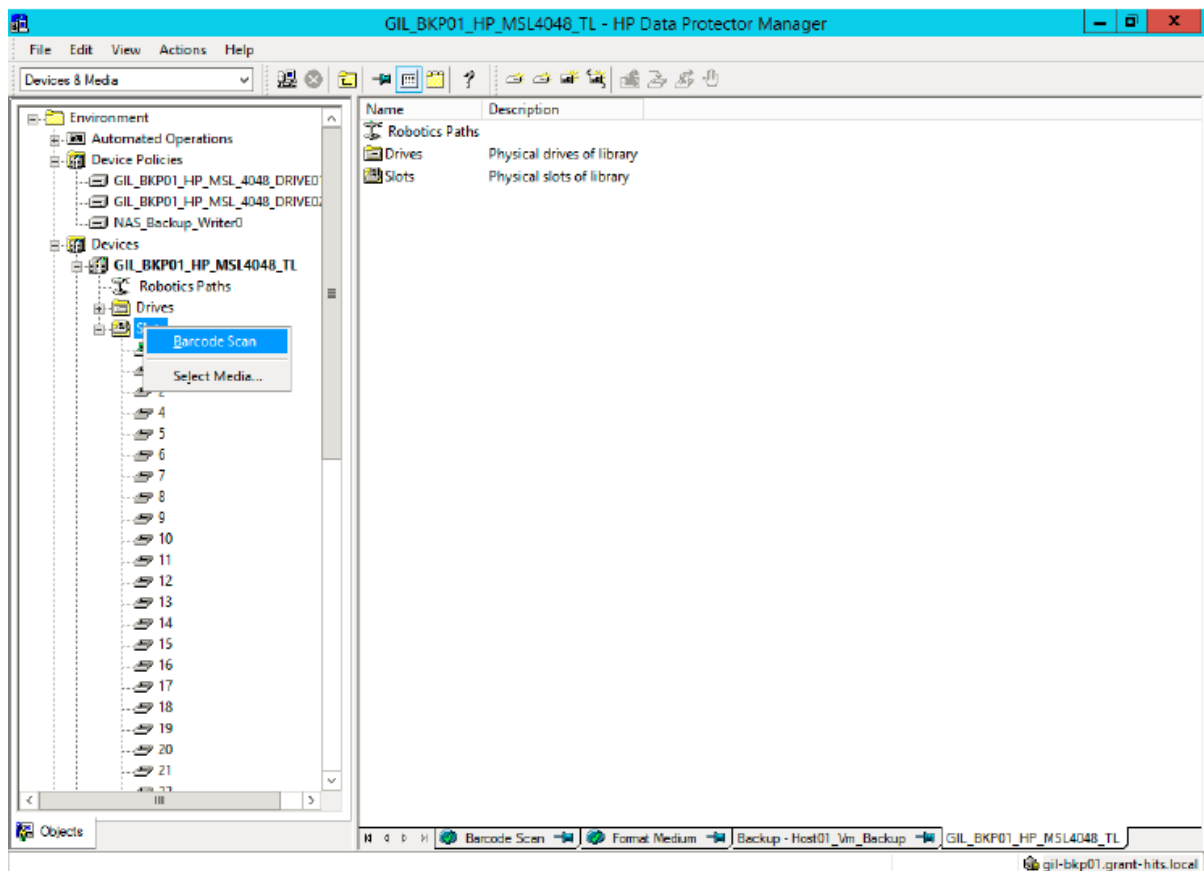
## 11. Media check in check out process

Run a barcode scan

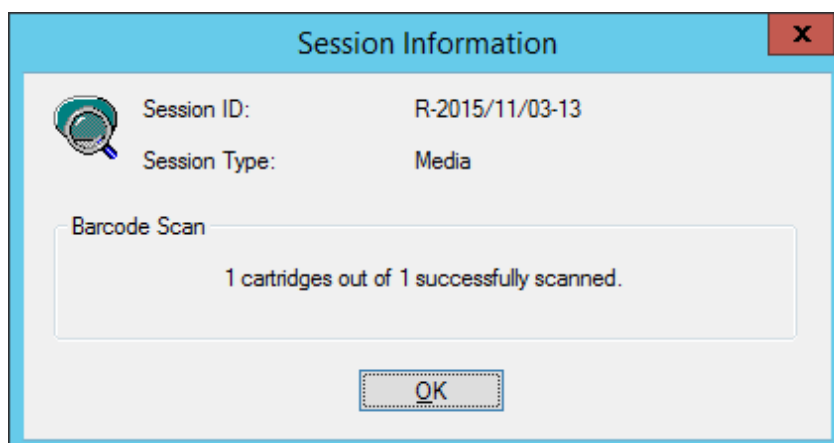
**Step-1:-** Select Devices & Media from the context drop down list



**Step-2:-** In the scoping pane, click on Devices then right-click on the desired library listed in the results area and choose Barcode Scan. The scan will start immediately.



**Step-3:-** Once the barcode scan operation completes, verify that the listed media have the expected barcode labels. If the expected barcode labels were discovered, move on to the next step. If the expected barcode labels were not discovered, verify the library has Barcode reader support enabled by right-clicking on the library and choosing Properties; then selecting the Control tab

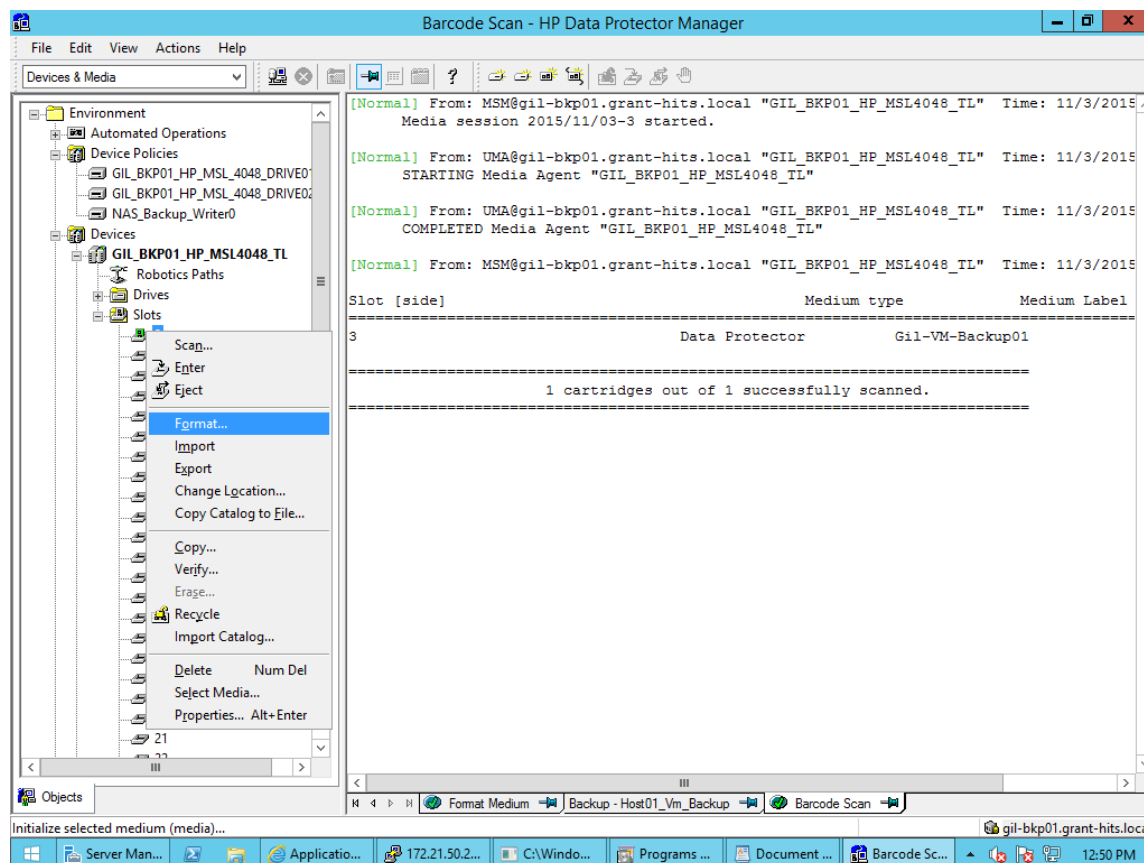


## 12. Format the media

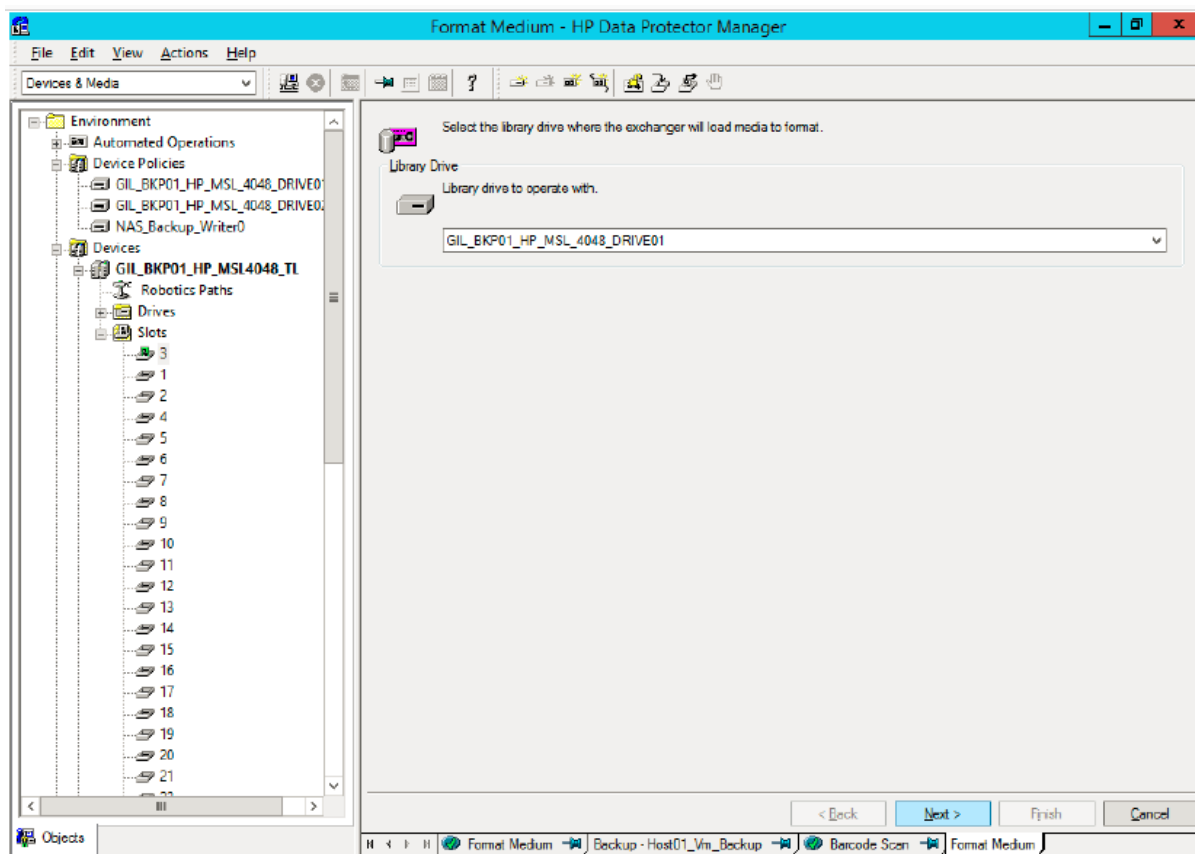
**Step-1:-** From the context drop down list, select Devices & Media

**Step-2:-** In the scoping pane, expand Devices then expand the desired library. Click on Slots.

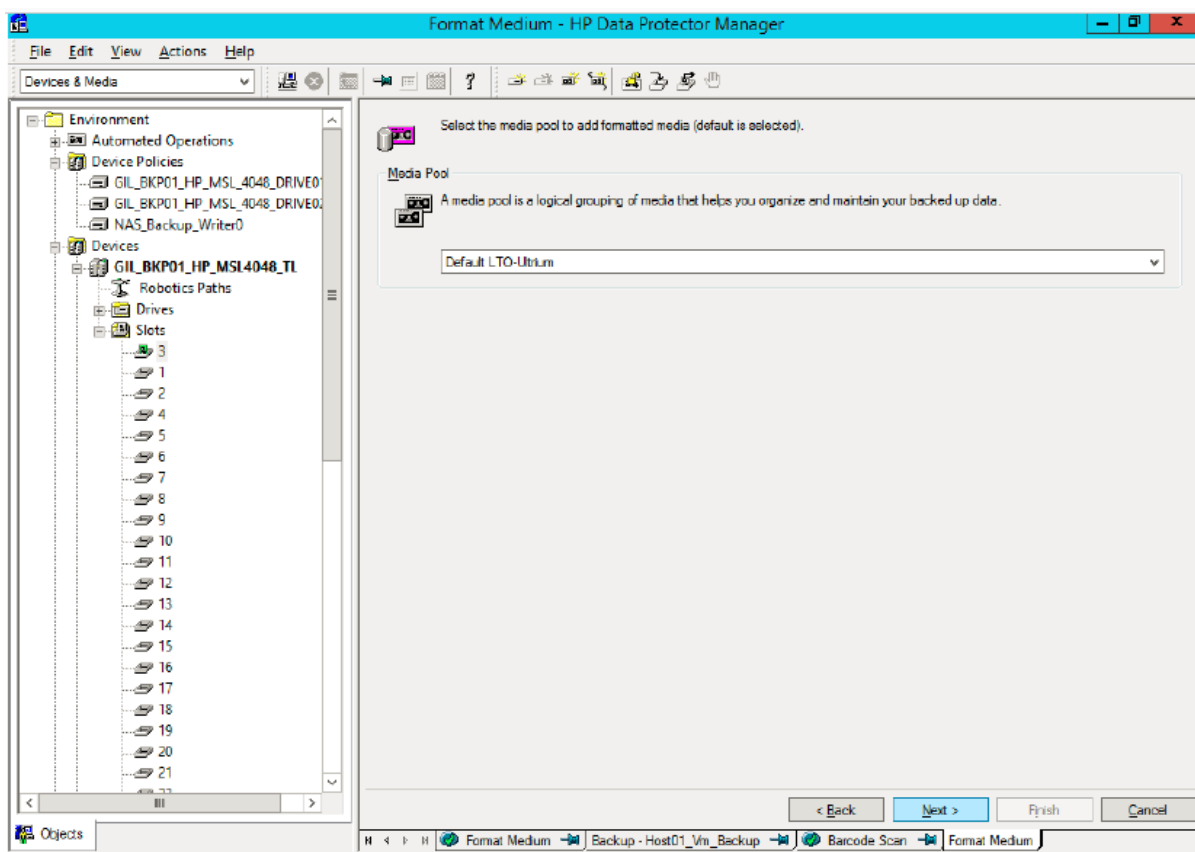
**Step-3:-** In the results area, highlight all slots containing media to be formatted and right-click. Select Format.



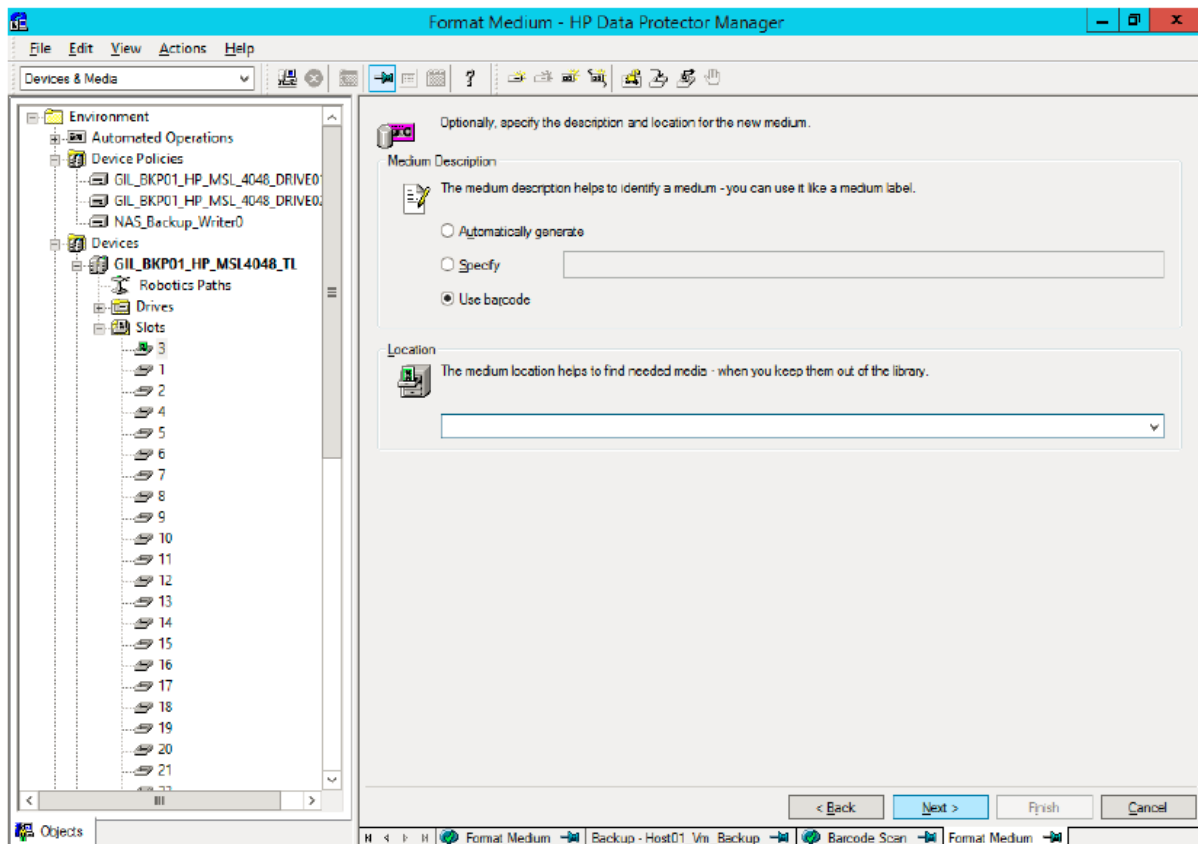
**Step-4:-** Specify the library drive to be used to format the media. Click Next to continue.



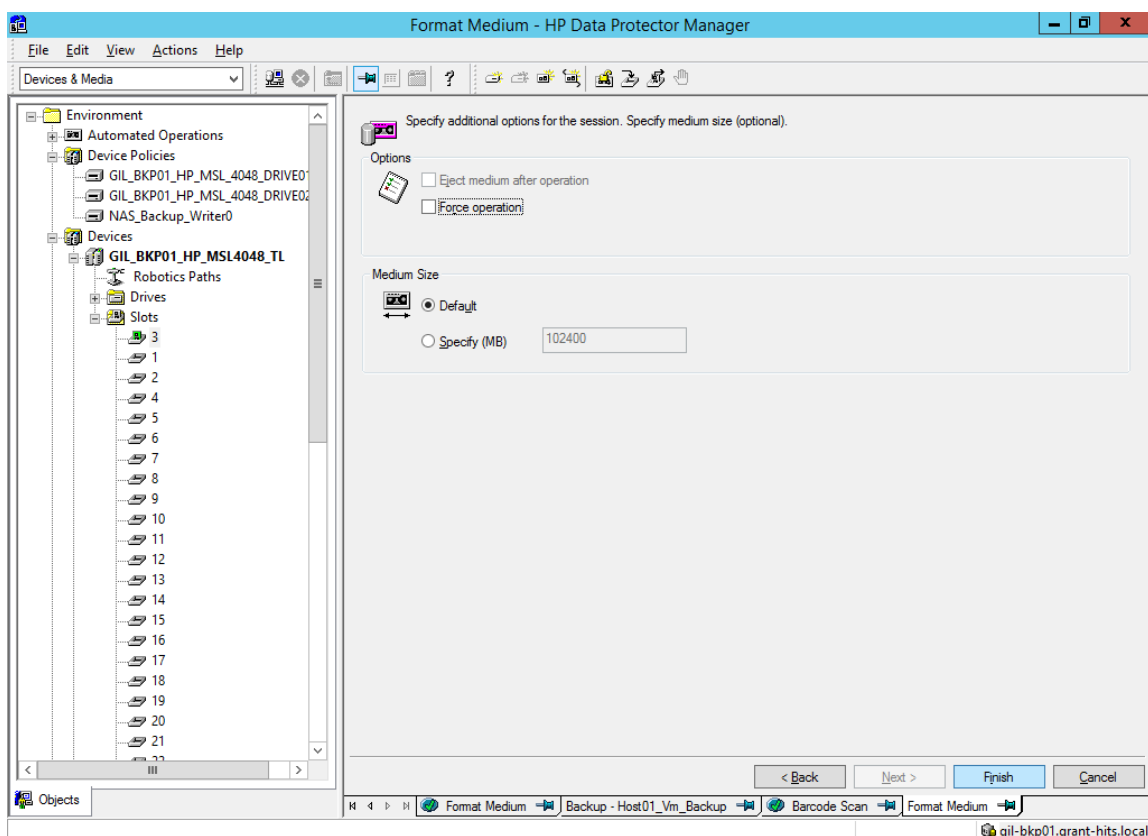
**Step-5:-** Specify the media pool the formatted media should be added to. Click Next to continue

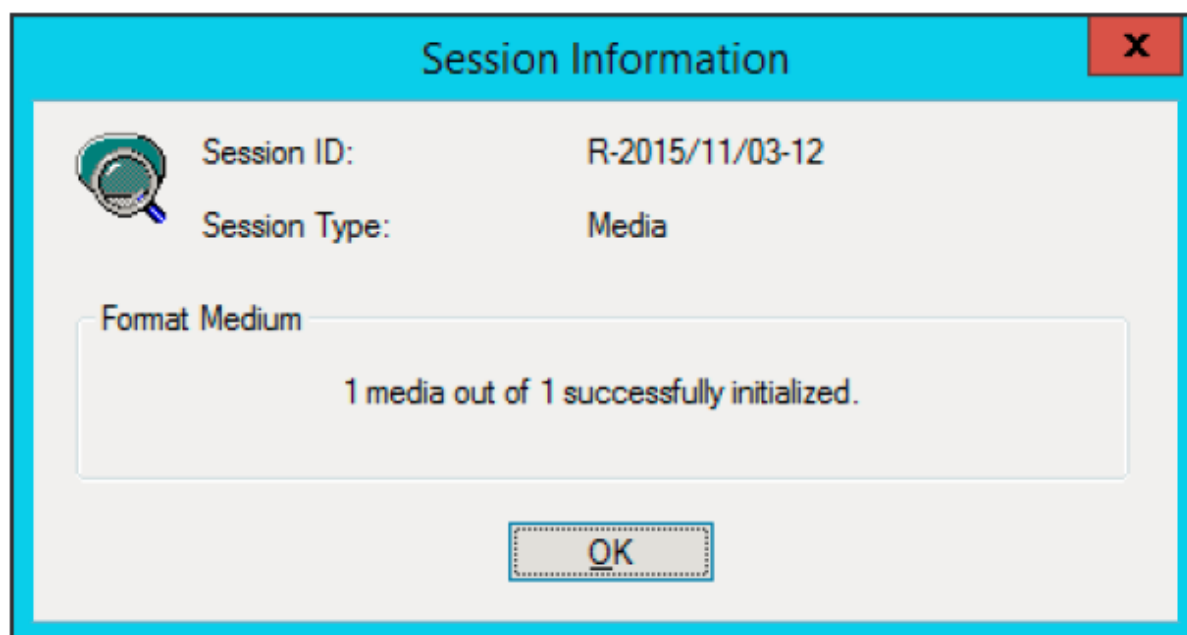
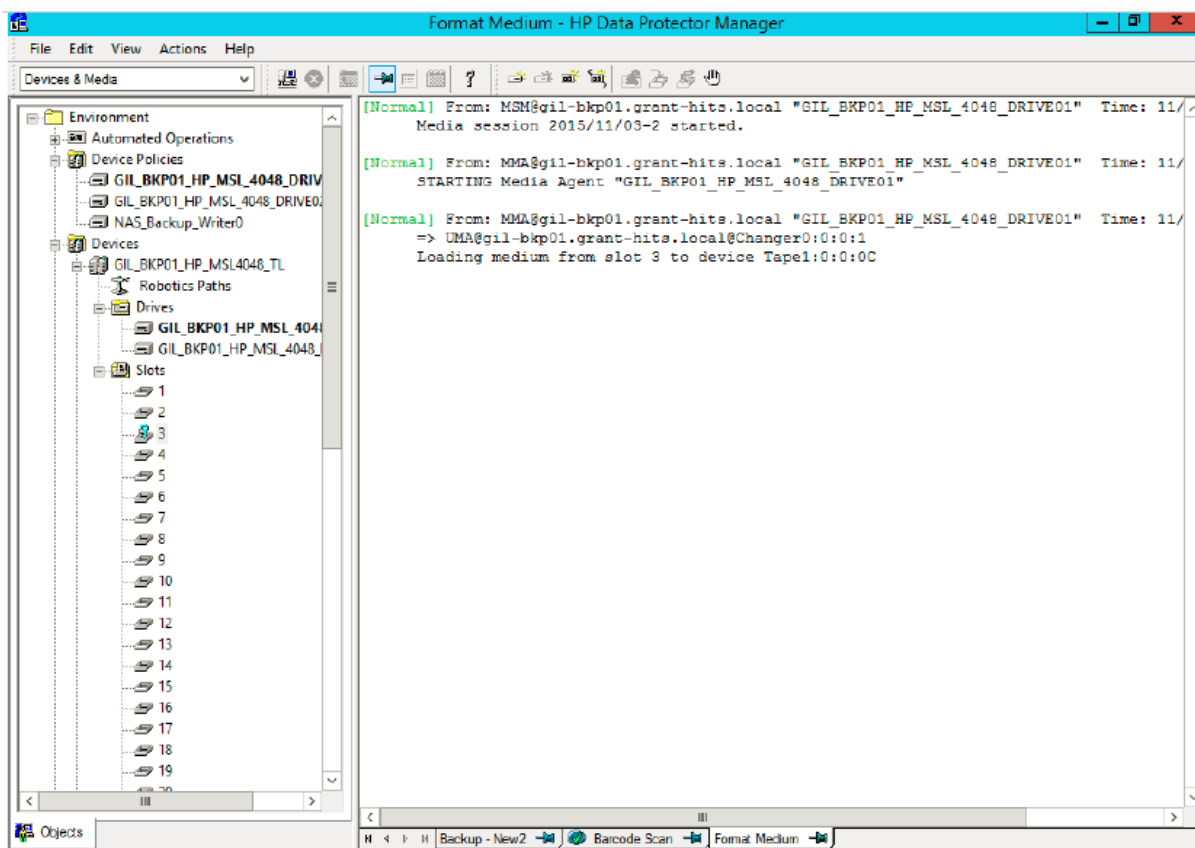


**Step-6:-** The media description can be automatically generated, Specify or can Use barcode during the formatting. For this guide, the media barcode was used. Click Next to continue



**Step-7:-** Under the additional options, select the box Force operation if the media was previously used and/or does not contain data that needs to be retained. Click on Finish to initiate the media format and exit the wizard.





### 13. Document Acceptance;

The parties, in signing this acceptance, have agreed the above mentioned deliverables & scope of work. This signoff is required prior to any Services being carried out onsite.

Insight and Customer have caused this SOW to be signed and delivered by their duly authorized representatives.

Grant Investrade Ltd.		Insight Business Machines Pvt Ltd	
Name	Seal & Signature	Name	Seal & Signature
Vinyak S		Darshan C	
Vijay K		Kamlesh S	

### 14. Annexure;

NA