

Integrating NEO® Tape Libraries with Dell EMC NetWorker 9.2

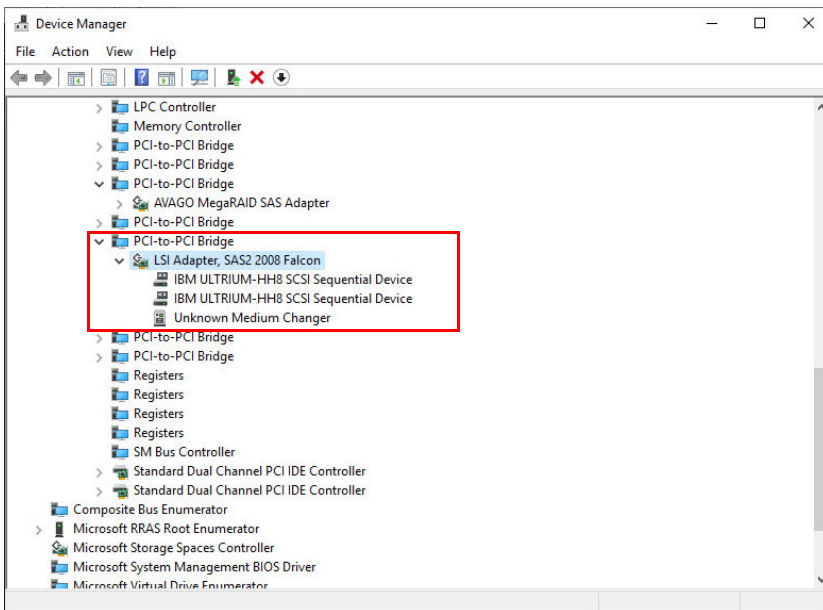


Dell EMC NetWorker 9.2 supports many Overland-Tandberg tape libraries including NEOs StorageLoader (1U), NEOs T24 (2U), NEOxl 40 (3U), and NEOxl 80 (6U).

This guide explains how to configure a NEOxl 80 to work with Dell EMC NetWorker in a Windows-centric environment. This process is the same for the other supported NEO tape libraries (NEO StorageLoader, NEOs T24, and NEOxl 40).



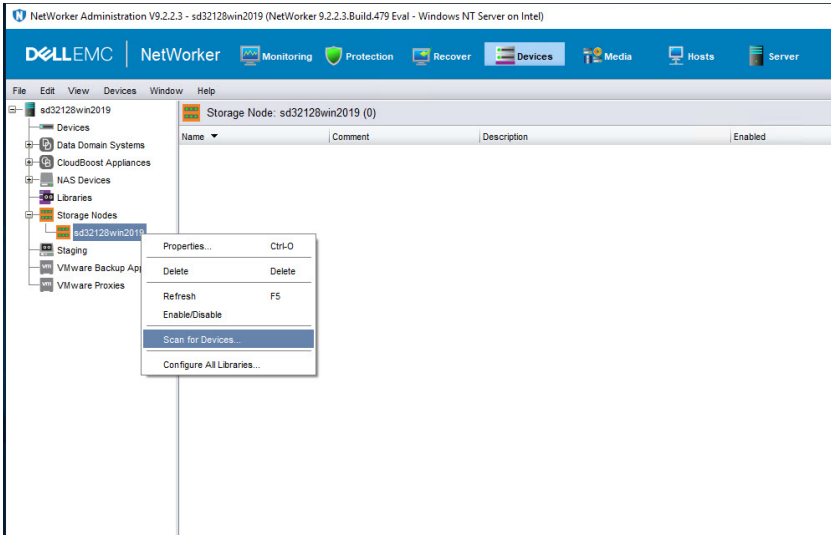
Integrate NEOxl 80 with NetWorker 9.2



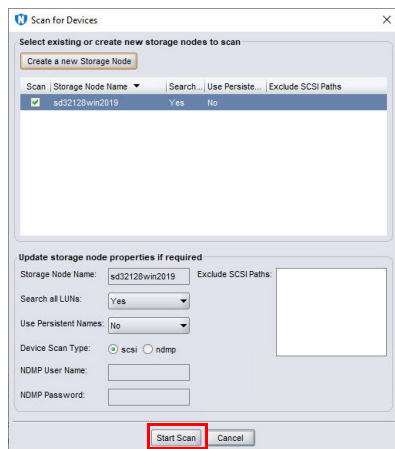
1. Open **Windows Device Manager** and verify all devices are displayed. In this example, a NEOxl 80 and two LTO-8 drives are shown. The IBM LTO tape device drivers are required on a Windows platform.

```
Administrator: Command Prompt
C:\Users\Administrator>
C:\Users\Administrator>inquire -l
-l flag found: searching all LUNs, which may take over 10 minutes per adapter
for some fibre channel adapters. Please be patient.
scsidev@0.7.0:IBM ULTRIUM-HHB K4K1|Tape, \\.\Tape0
S/N: 11C27E7065
ATNN=IBM ULTRIUM-HHB 11C27E7065
WNN=5000E111C27E7065
WPN=5000E111C27E7066
WZN=5000E111C27E7065
PORT=00000001
Can Encrypt & Decrypt
scsidev@0.8.0:IBM ULTRIUM-HHB K4K1|Tape, \\.\Tape1
S/N: 11C27E705B
ATNN=IBM ULTRIUM-HHB 11C27E705B
WNN=5000E111C27E705B
WPN=5000E111C27E705C
WZN=5000E111C27E705B
PORT=00000001
SCSI check getting encryption info
scsidev@0.8.1:BDT MULTISTAK 1.20|Autochanger (Jukebox),
S/N: DES6400114_LL01
ATNN=BDT MULTISTAK DES6400114_LL01
WNN=5000E111C27E705E
scsidev@5.0.0:SMC
|Disk, \\.\PhysicalDrive0
S/N: 000ec01907d1101e25001d4a03000403
WNN=60030480034A1D00251E18D10719C0EE
scsidev@5.64.0: RAID DummyDevice 0001|Unknown Device Type,
1 Disk, 2 Tape, 1 Autochanger (Jukebox), 1 Unknown Device Type, Total: 5
C:\Users\Administrator>
```

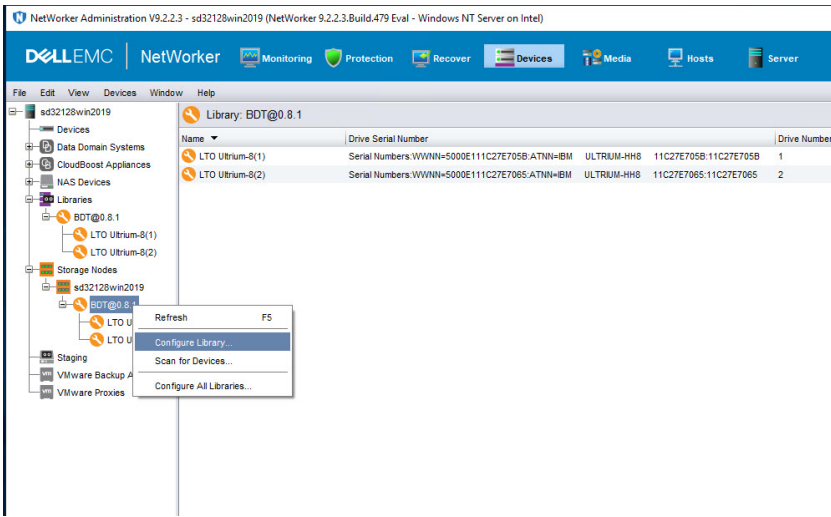
2. Display the NEO tape drives and library using a command utility. From a command prompt issue “inquire –l” command.



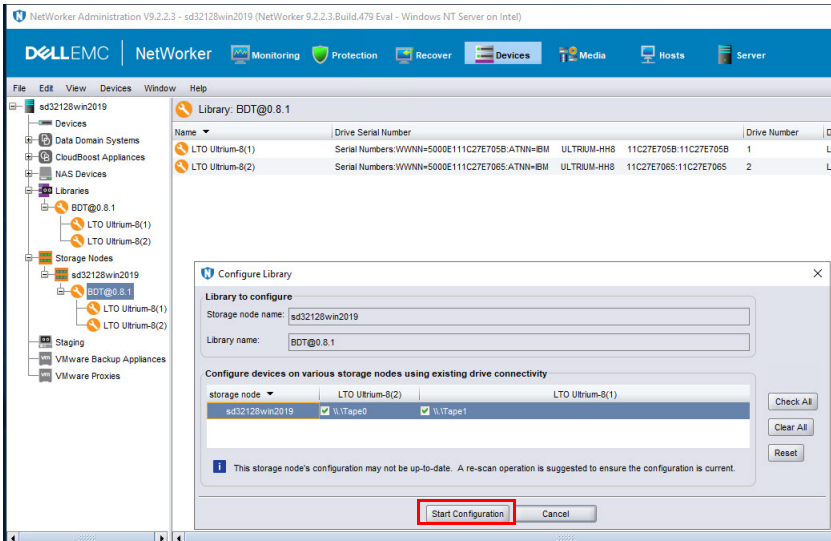
3. Use the following steps in NetWorker Administration to scan the tape library and drives.
a. Click the **Devices** option.
b. Navigate to **Storage Node**, right-click the server, and select **Scan for Devices**.



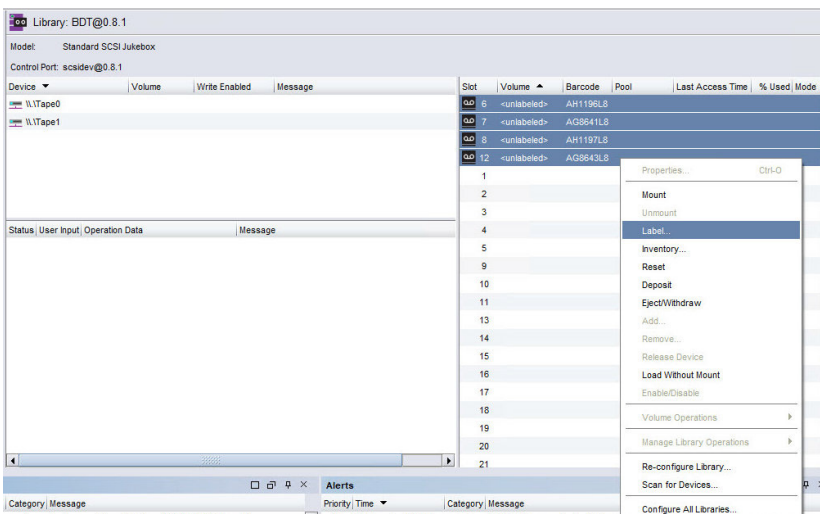
c. At the Scan for Devices window, click **Start Scan**.



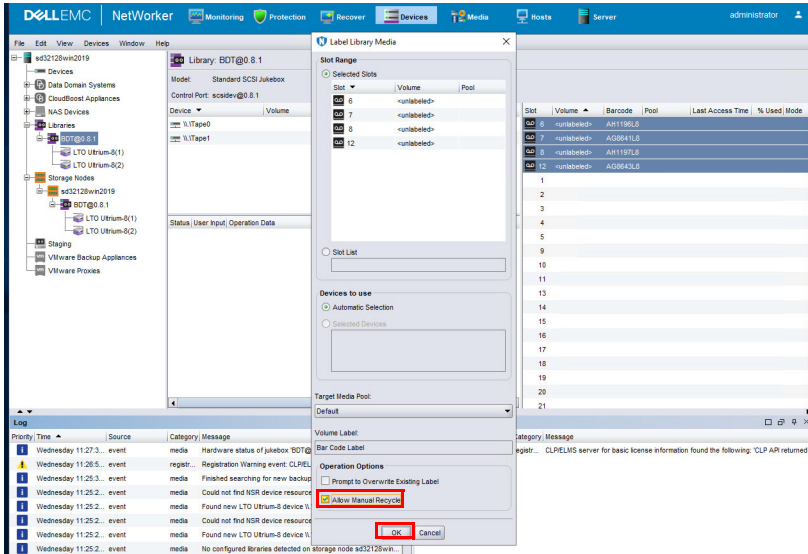
4. Use the following steps in NetWorker Administration to configure the discovered tape library and drives.
 - a. Click the **Devices** option.
 - b. Navigate to **Storage Nodes** and right-click the library.
 - c. Select **Configure Library** from the drop-down.



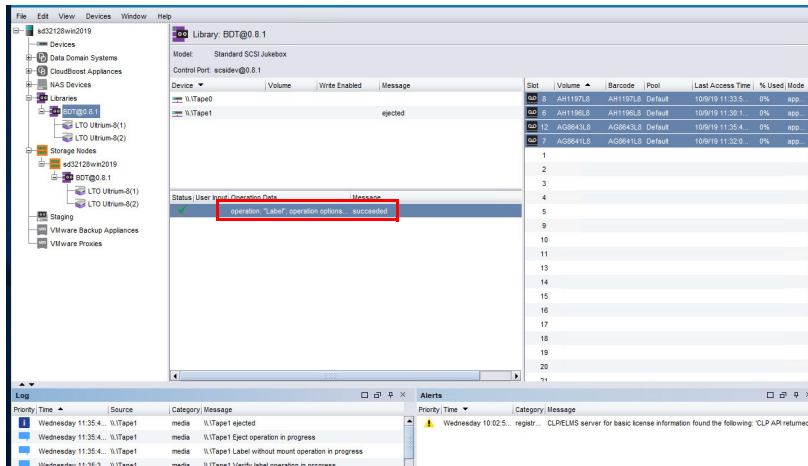
- d. Verify the tape drive boxes are checked and then click **Start Configuration**.



- e. Select all the medias discovered, right-click the group, and select **Label**.



f. When the Label Library Media dialog box appears, enable **Allow Manual Recycle** and click **OK** to start the label process.



A status message shows succeeded when all tapes are labeled. Additional parameters are displayed for the labeled media.

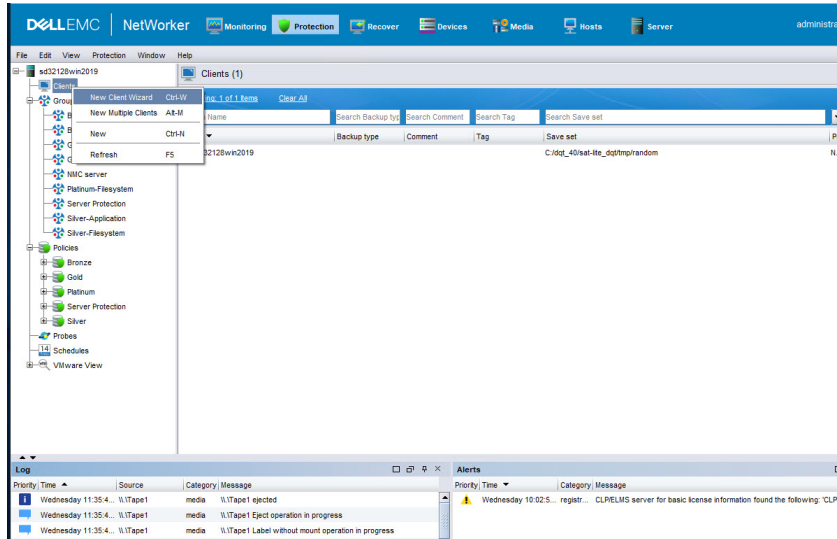
```

C:\Users\Administrator>nsrjb -v
Setting verbosity level to '1'
1: BDT@0.8.1 [enabled]
There is only one enabled and configured jukebox: BDT@0.8.1
Jukebox BDT@0.8.1: (Ready to accept commands)
slot volume used pool barcode volume id recyclable
1:
2:
3:
4:
5:
6: AH11961.8 0% Default AH11961.8 18964721 manually
7: AG86411.8 0% Default AG86411.8 4288554916 manually
8: AH11971.8 0% Default AH11971.8 4271777889 manually
9:
10:
11:
12: AG86431.8 0% Default AG86431.8 4255000701 manually
13:
14:
15:
16:
17:
18:
19:
20:
21:
22:
23:
24:
25:
26:
27:
28:

4 registered volume(s), 4 volumes are less than 80% full.
48 TB estimated capacity, 48 TB remaining (0% full)
Default slot range(s) are 1-27

Device 1 (\\.\Tape1) slot :
Device 2 (\\.\Tape0) slot :
C:\Users\Administrator>
    
```

g. Alternatively, using the **“nsrjb -v”** command can also list the status of the library and media.



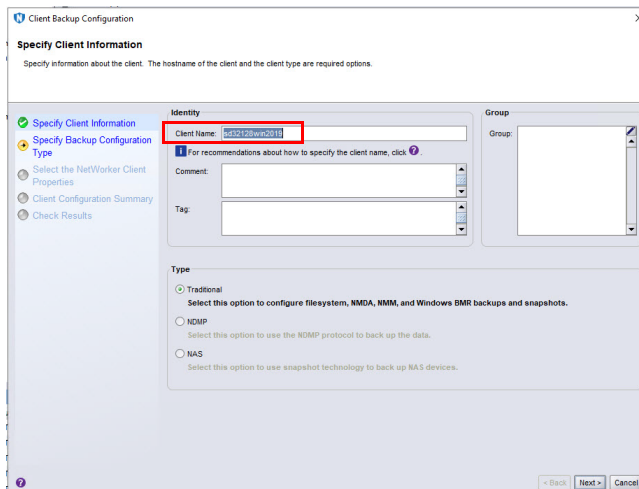
5. Use the next steps to configure a client for backup.

As we have done in our example, the client for backup can be the NetWorker server.

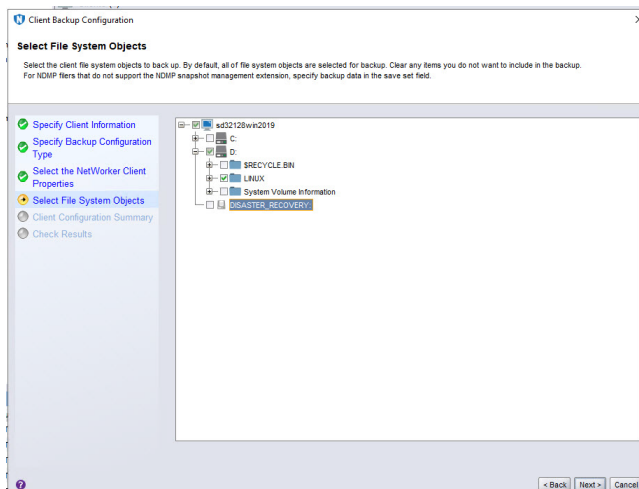
a. Click the **Protection** option and right-click **Clients**.

b. Select **New Client Wizard**.

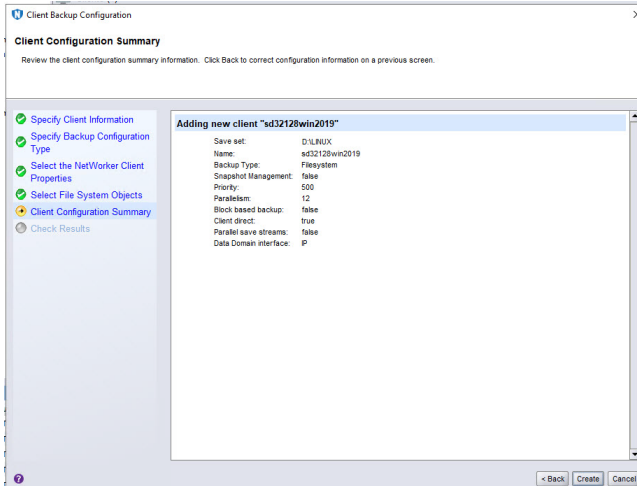
The Client Backup Configuration wizard opens.



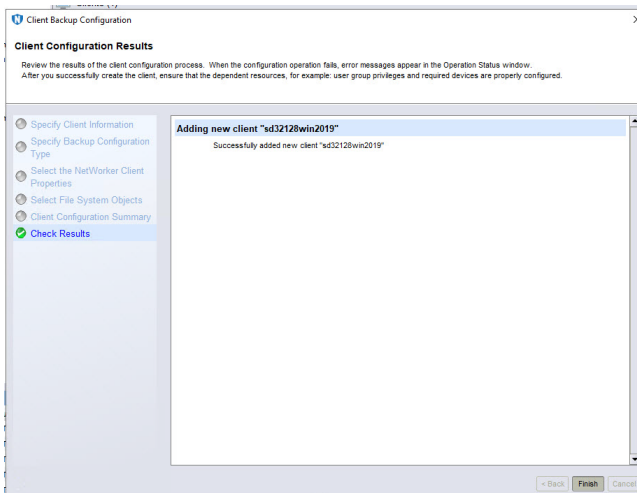
c. Enter the client or host name for backup and click **Next**.



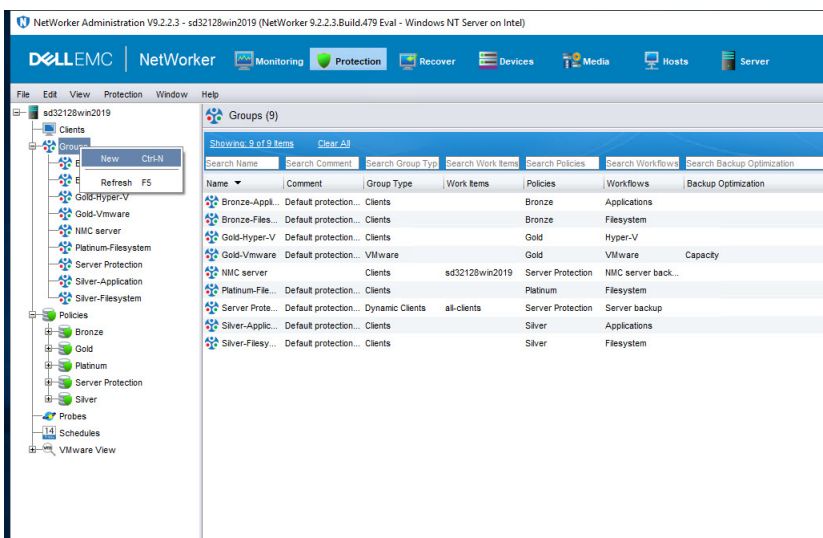
d. Select the source for backup and click **Next**, then click **Create**.



e. Verify the configuration and click **Create**.



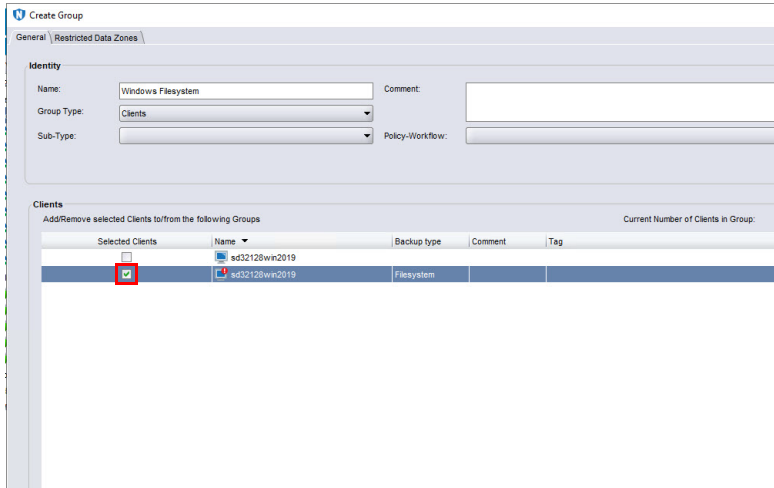
f. Click **Finish** to exit the wizard.



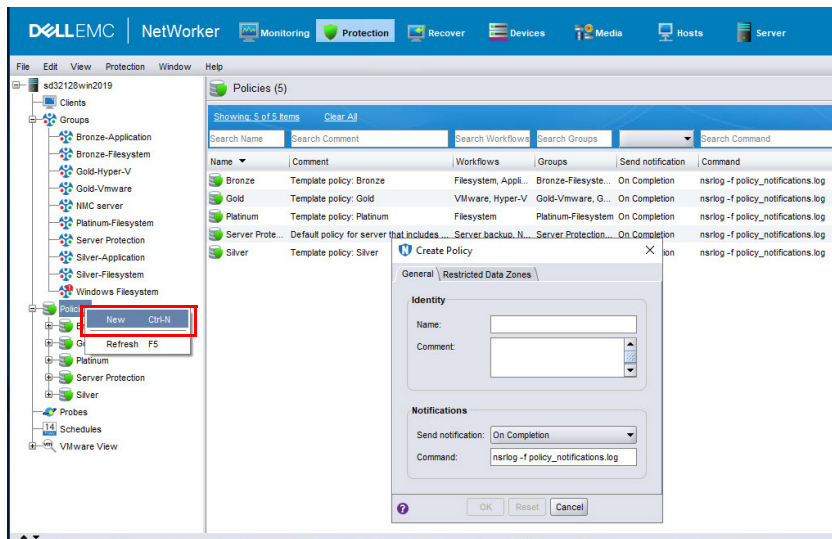
6. Use the next steps to configure a **Group** for backup.

a. Click the **Protection** option.

b. Right-click **Groups** and select **New**.



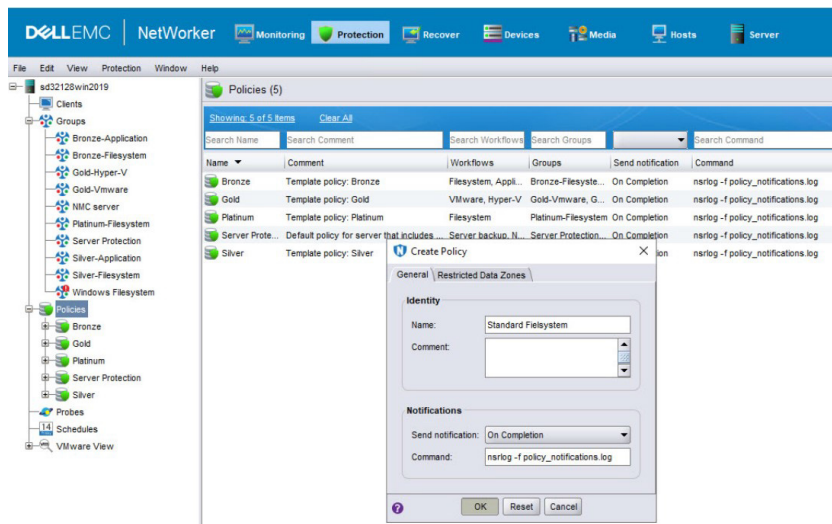
c. Check to enable the client under the **Selected Clients** and click **OK**.



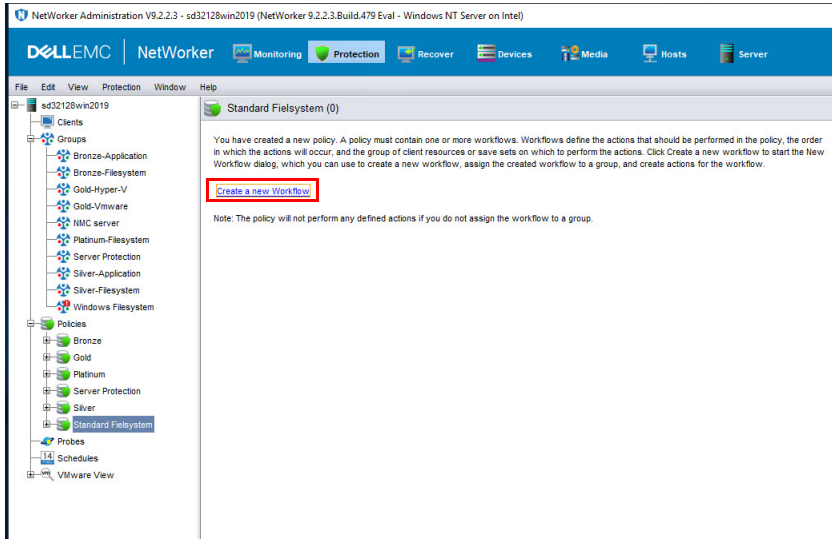
7. Use the next steps to configure a **Group** for backup.

a. Click the **Protection** option.

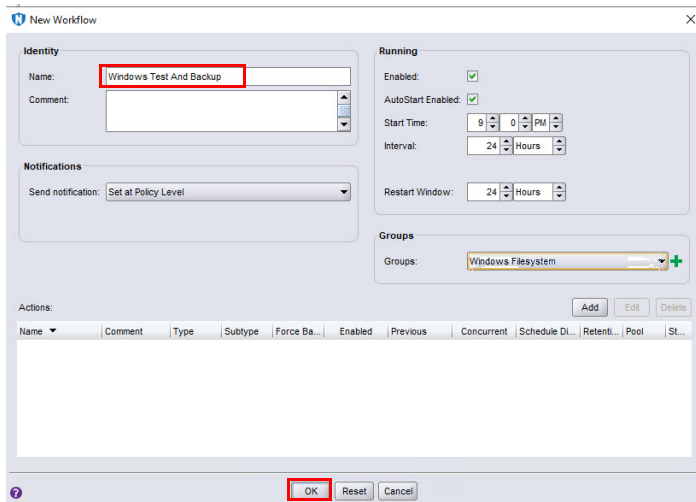
b. Right-click **Policies** and select **New**.



c. In the Create Policy dialog box, provide a name for the Policy and click **OK**.



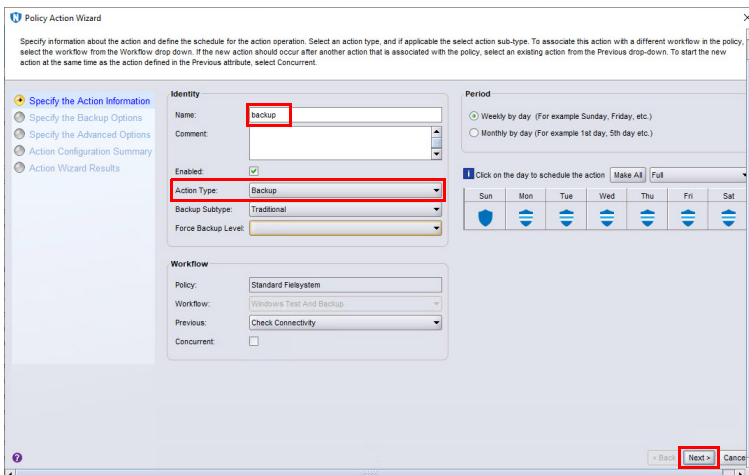
d. Under **Policies**, select **Standard Filesystem**, and click the **Create a new workflow** option.



e. Provide a name for the new Workflow and click **OK**.

f. Use the **defaults** for the rest of the Workflow configuration.

g. Click **Configure** when the option appears.

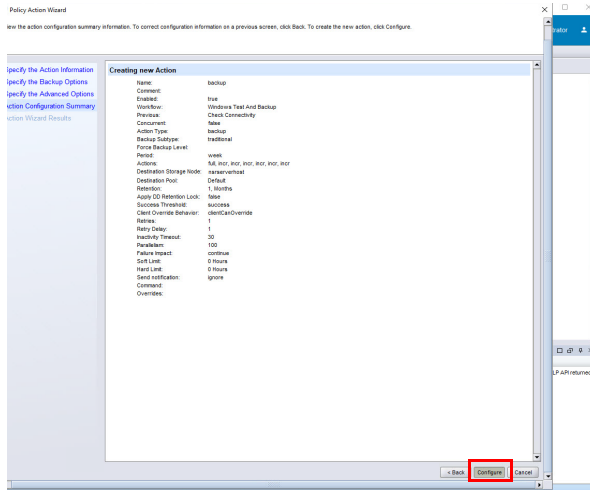


h. Provide a name for the action.

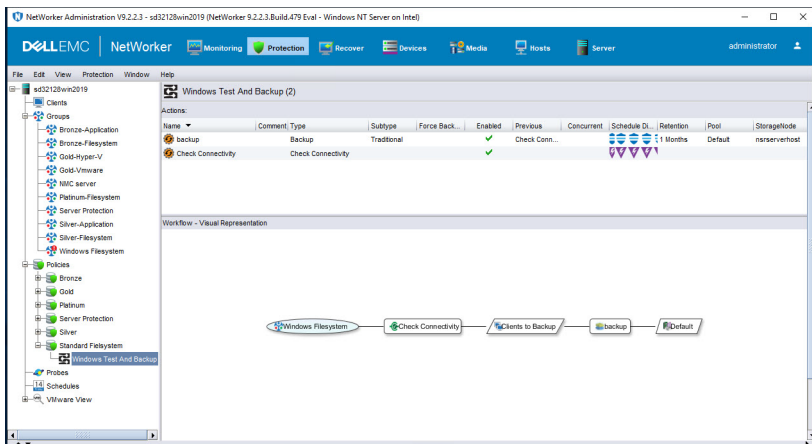
In this example, we are using "backup".

i. Click the Action Type drop-down list and select the **Backup** option.

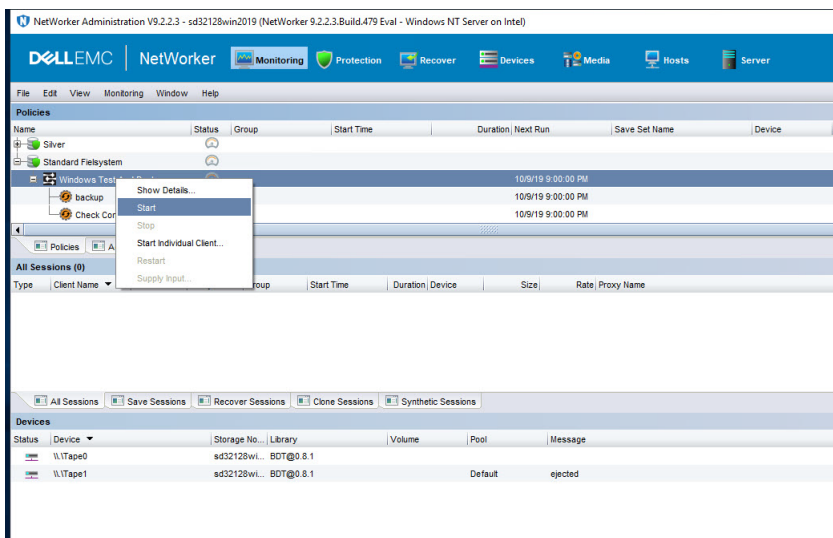
j. Click **Next** to continue the wizard.



k. When the Configuration Summary appears, click **Configure**.

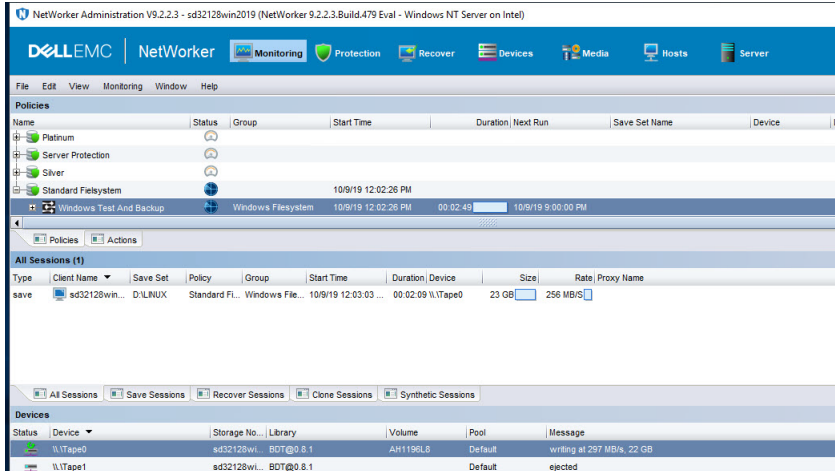


Under the new policy, a new workflow with the backup activity has been created.

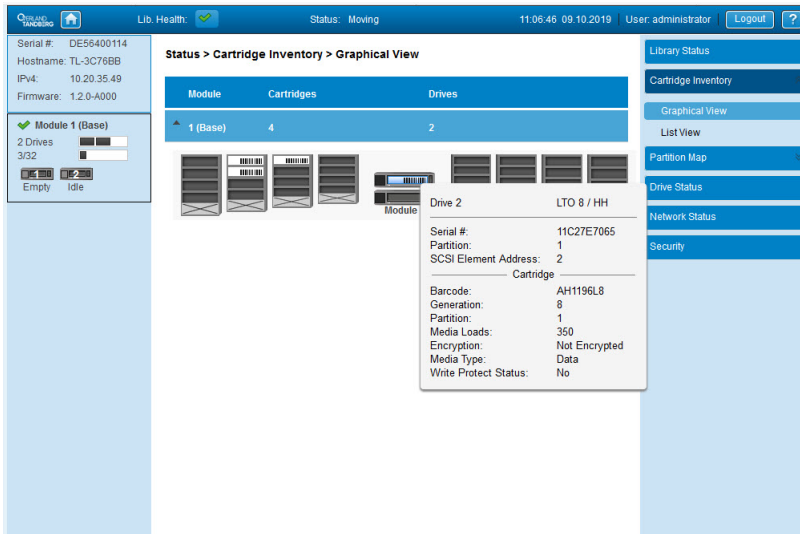


8. Use the next steps to start a backup using the newly created **Client Group | Policy | Workflow**.

- a. Click the **Monitoring** option.
- b. Right-click the **backup workflow** and select **Start**.



A detailed status report appears.



The status of the library can be seen using the NEO RMI.