

# SANCopy from VNX to XtremIO

Zone the VNX SANCopy ports to the XtremIO ports.

Perform the masking on the XtremIO to present the XtremIO target LUN to the VNX.

Get the LUN number used for the target from the initiator group. In the lab we used 10.

The screenshot displays the XtremIO Storage Management Application interface. The top navigation bar includes icons for various functions and the EMC XtremIO logo. The left sidebar shows a tree view of system components: Volumes (1 total), Consistency Groups (0 total), Snapshot Sets (0 total), Initiator Groups (1 total), Initiators (2 total), and Schedulers (0 total). The 'Initiator Groups' section is selected.

The main content area shows the 'Initiator Group' configuration for 'sanCopyIG'. It includes a table with the following data:

Name	Number of Mapped Volumes	Number of Connections	Tags
sanCopyIG	1	4	

Below this table, there is a 'Mapping' tab with a sub-table showing the mapping of volumes to initiator groups:

Volumes / Initiator Groups	sanCopyIG
SanCopy-Target	10

A blue arrow points from the text 'In the lab we used 10.' to the value '10' in the 'SanCopy-Target' row of the mapping table.

The bottom status bar indicates 'xtremio-svt-005 - Active', the current time 'XMS: Nov 5, 2015 3:28:54 PM IST', the local time 'Local: Nov 5, 2015 11:36:30 AM EST', the user 'admin', and a 'Logout' button.

Now you need to know what XtremIO ports the VNX SP ports are zoned to. In the below screen shot you can see that SPA port 1 is connected to brick X1 X1-SC1 FC 2 and X1 X1-SC2 FC 2

The screenshot displays the XtremIO Storage Management Application interface. The top navigation bar includes icons for Home, Storage, Initiators, Alerts, Health, and Help, along with the EMC² XtremIO logo. The main content area is divided into two sections: 'Initiator' and 'Targets'.

**Initiator Section:**

Name	Initiator Group	Operating System	Port Type	Port Address	Number of Connected Targets
SanCopyA1	sanCopyIG	Windows	FC	50:06:01:61:36:e0:15:ba	2
sanCopyB1	sanCopyIG	Windows	FC	50:06:01:69:36:e0:15:ba	2

**Targets Section:**

Initiator Group to Targets Connections	Total Initiators	Total Connections	FC 1	FC 2	iSCSI 1	iSCSI 2
sanCopyIG	2	4				
SanCopyA1 (50:06:01:61:36:e0:15:ba)		2				
Xtremio-svt-005		2				
X1		2				
X1-SC1		1				
X1-SC2		1				
X2		0				
X2-SC1		0				
X2-SC2		0				

Blue arrows from the text above point to specific elements in the interface:

- One arrow points to the 'Port Address' column header in the Initiator table.
- Two arrows point to the 'X1-SC1' and 'X1-SC2' entries under the 'X1' target in the Targets table.
- One arrow points to the 'FC 2' column header in the Targets table.

The bottom status bar shows 'xtremio-svt-005 - Active', system time 'XMS: Nov 5, 2015 3:35:01 PM IST' and 'Local: Nov 5, 2015 11:42:37 AM EST', user 'admin', and a 'Logout' button.

If you go to the view page of the GUI and hover over the port you can get the port WWN.

The screenshot displays the XtremIO Storage Management Application interface. The top navigation bar includes icons for monitoring, storage, configuration, alerts, and help, along with the EMC² XtremIO logo. The main content area is divided into two sections: 'Cluster' on the left and 'X-Brick' on the right. The 'Cluster' section shows the cluster name 'xtremio-svt-005' and its PSNT Serial Number 'APM00143630144', accompanied by a server rack image. The 'X-Brick' section displays a detailed view of the X1 brick, with components labeled X1-BBU, X1-SC2, X1-DAE, and X1-SC1. A tooltip is visible over the X1-SC1 component, providing the following information:

- Information
- X1-SC1-fc2
- Port State :Up
- Port address :51:4f0c:53:ae:07:89:01

The bottom status bar indicates the cluster is 'Active', shows the time in IST and EST, and provides a user login 'admin' with a 'Logout' button.

You can also run “show-targets” to get the port WWNs.

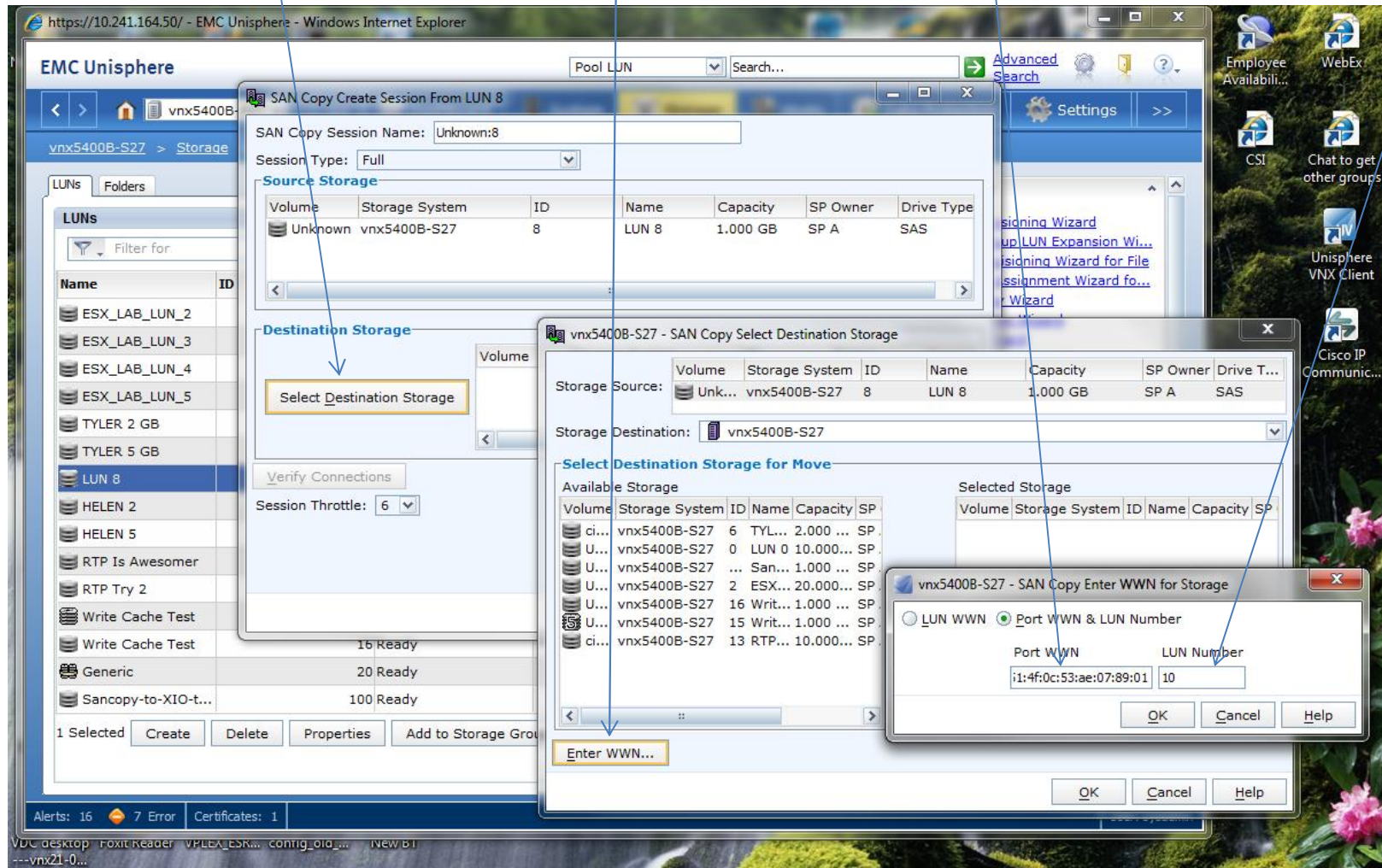
```
xmcli (tech)> show-targets
```

Name	Index	Cluster-Name	Index	Port-Type	Port-Address	Mac-Addr	Port-Speed	Port-State	Health-
Level	Storage-Controller-Name	Index	TG-Name	Index	MTU	Jumbo-Frames	Certainty-State	Relative-Id	
X1-SC1-fc1	1	xtremio-svt-005	1	fc	51:4f:0c:53:ae:07:89:00	8GFC	up	level_1_clear	X1-
SC1	1	Default	1	1500	False	ok	1		
X1-SC1-fc2	2	xtremio-svt-005	1	fc	51:4f:0c:53:ae:07:89:01	8GFC	up	level_1_clear	X1-
SC1	1	Default	1	1500	False	ok	2		

Once you have this info you can create the session VIA the GUI or CLI on the VNX.

In the GUI right click on the source LUN and choose create SANCopy session.

Choose “Select Destination Storage” and then “Enter WWN...” Add the XtremIO “port WWN” that SPA is connected to and the “LUN Number” from the initiator group in XtremIO.





Click all OKs until you get to the main screen and Highlight the “destination storage” and click “Verify Connections”

The screenshot displays the EMC Unisphere web interface in a Windows Internet Explorer browser window. The main window shows the 'SAN Copy Create Session From LUN 8' wizard. The 'Source Storage' section lists a volume 'Unknown' on 'vnx5400B-S27' with ID '8' and name 'LUN 8'. The 'Destination Storage' section is currently empty, with a 'Select Destination Storage' button. The 'Verify Connections' button is highlighted, and a message box is displayed stating 'All the logical units are accessible.'.

**Source Storage Table:**

Volume	Storage System	ID	Name	Capacity	SP Owner	Drive Type
Unknown	vnx5400B-S27	8	LUN 8	1.000 GB	SP A	SAS

**Destination Storage Table:**

Volume	Storage System	ID	Name	Capacity
Unknown	Unknown	51:4f:0c:5...	10	Unknown

**Verify Connections**

Session Throttle: 6

**Message: SAN Copy Create Session From LUN 8**

All the logical units are accessible.

OK

As you can see above the destination is accessible.

From CLI:

```
C:\>naviseccli -h <SPA IP Address> -user sysadmin -password sysadmin -scope 0 sancopy -create -name LUN8 -srclun <SPA IP Address> 8 -destportWWN 51:4f:0c:53:ae:07:89:05 10
```

Make sure that the destination subsystem is running core software that supports SAN Copy on thin luns. Else any Thin LUN used as the destination may become fully allocated.

Make sure that all destination LUNs are not less than the source LUN in size.

Do you want to create a copy descriptor now? (y/n) y

```
C:\>
```