

Application Note

November 2013

Installing and Configuring the SnapSAN vSphere Web Plug-in



Summary

This application note describes how to install the SnapSAN vSphere Web Plug-in and configure a SnapSAN S3000 or S5000 array using the VMware vSphere Web Client.

Required Information, Tools, and Files

Before you begin these procedures, the following information, tools, and files are required.

Prerequisites

Prior to performing these procedures, ensure that you have the following:

- Overland Storage SnapSAN S3000/S5000 Disk Array must be installed and configured. You can get additional technical support from our website at http://support.overlandstorage.com, or by contacting Overland Storage using the information found on the <u>Contact Us</u> page on our web site.
- This document assumes that the storage pool and logical disk have already been created. Additional information on binding a pool and logical disks can be found in the *SnapSAN S3000/S5000 Disk Array User Guide* available at <u>http://docs.overlandstorage.com/snapsan</u>.
- This document assumes that the VMware vCenter Server and vSphere Web Client are already installed and running, and that the reader has a general understanding and familiarity with the VMware ESXi 5.1 environment. Any and all additional information can be attained through the VMware Knowledge Center.
- Your vCenter Server credentials are also part of the requirements and will be used during the installation and configuration of the SnapSAN vSphere Web Plug-in.
- Verify that the following are installed on the server:
 - Java Runtime Environment (JRE)
 - vCenter server and vSphere web client.

Versions

The test environment used for illustration in this document uses the following versions:

- VMware ESXi, 5.1, 799733
- VMware vCenter Server, 5.1, 799733
- VMware vSphere Web Client 5.1.0, Build 786111
- Java JRE version 7 update 40
- Emulex LPe11000
- SnapSAN S5000 software version 082R.007
- SnapSAN S5000 firmware version U22R.007
- Overland SnapSAN vSphere Web Plug-in version 1.1.001

Installing the vSphere Web Plug-in

- 1. From the SnapSAN vSphere Web Plug-in installation package, double-click the installation setup file.
- 2. When the installation wizard is launched, click Next.
- 3. Read and accept terms of the license agreement, and continue.
- 4. Browse the installation location and click Next.
- 5. Provide the Port Numbers (1, 2, 3 and 4) you want to use for the plug-in, and click Next.
- 6. Provide the VMware vCenter Server IP Address and HTTPS port number, and click Next.

7. Provide the **credentials** required to connect to the vCenter Server, and click **Next**. The following command prompt pops up and the plug-in registration for the VMware vCenter Server starts.

NOTE: Do not close this window when it appears.



- 8. Once the plug-in registration completes, when prompted, press any key to continue.
- 9. Click Finish.

Configuring the vSphere Web Plug-in

- Access the URL <u>https://localhost:9443/vsphere-client</u> or navigate to the path Start > All Programs > VMware > vSphere Web Client.
- 2. To login to the vSphere web client, enter your User Name and Password, and click Login.



3. At the **Home** tab, select the **Overland Storage** icon.



- 4. Click Add Disk Array.
- 5. Provide details for the following:
 - IP Address for Connecting
 - User Name
 - Password

IP Address for Connecting	10.20.34.170
User Name	: sysadmin
Password	: ******

- 6. Click Connect.
- 7. Click Save.

Binding a Logical Disk and Assigning it to a Host

- 1. From VMware vSphere Web Client console, navigate to vCenter > Hosts and Clusters.
- 2. Bind a pool on the SnapSAN disk array through the Overland Storage tab.

NOTE: If the required free capacity is already available in a pool on the storage array, then you can skip this step.

3. From the **left** pane of the vSphere Client console, click the **Host** to which LUNs will be assigned.

- 4. From the **right** pane of the vSphere Client console, select the **Overland Storage** tab.
- 5. Right-click the name of the ESXi host server and select All Overland Storage Actions > Logical Disk Bind and Assignment.



6. Select the disk array where a logical disk will be bound, and click Next.

2 Specify The New Logical Disk Disk Array Name Status ProductID Serial Number World Wide Name Number of Physic 3 Select Assignment Target Host SDS500034170 ready SnapSAN 55000 0000000942990012 200001697121F23 4 Confirmation SPS3000SD ready SnapSAN 83000 000000942090022 20000169712241D 5 Processing 6 Completion Fradue Fradue Fradue Fradue 6 Completion Fradue Fradue Fradue Fradue	1 Select Disk Array	Select the disk array where a logical disk will be bound								
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- **7.** At the screen showing the bound pools in the particular disk array selected, provide the following **details**:
 - Select the **Pool**.
 - In the Logical Disk Capacity field, specify the LUN size.
- 8. Select either FC or iSCSI as the Host Interface.

🗸 1 Select Disk Array	Select the pool where a logical disk will be bound								
2 Specify The New Logical Disk	Pool Number	Pool Name	Type	Status	RAID	Free Capacity/GB1	Capacity(GB)	Actual Capa	
3 Select Assignment Target Host	0000b	Vedams	dmamic	ready	RAID1(10	101.7	262.0		
4 Confirmation	00000	rodanio	ajnanno	1000)	1010110	101.1	202.0		
5 Processing									
6 Completion									
	Constitute constituted with								
	Specify the capacity of logical disk								
	Capacity(OB)(1-101) : 28 - OB -								
	Select interface	etween ho	st and disk a	ray					
	Host I/F Type	: FC		<u> </u>					

9. Click Next.

10. Select the **Target Host** and click **Next**.

✔ 1 Select Disk Array	Please select the target host
2 Specify The New Logical Disk	Assign the logical disk to the selected host.
3 Select Assignment Target Host	A second the least of the state of the state of the state of the selected the state
4 Confirmation	 Assign the logical disk to all hosts within the datacenter of the selected host.
5 Processing	Explanation
6 Completion	The following cases, [Assign the logical disk to all hosts within the datacenter of the selected host] cannot be selected. • The interface bypes are different from each host. • The max LUN are different from each host. • The interface of host and disk array is SAS, host(LD Set) has not been created at the disk array.

- 11. Click Set.
- 12. Click Finish.

Verifying the Datastore Details

- 1. From the VMware vSphere Web Client, navigate to vCenter > Hosts and Clusters.
- 2. From right side, navigate to the Manage > Storage Devices and select Rescan.



3. At the scan options screen, click **OK**.



Under Storage Devices, select the datastore to be checked.
 The particular datastore details are displayed under the Device Details section.

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Settings Networking Storage	Alarm Definitions Tags	Permission	s						
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Storage Adapters	17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	Pa -			Q Filter		•		
Storage Devices	Name	Туре	C 1 🛦 🛙	Operat	Hardware	Drive	Transport		
Host Cache Configuration	OVERLAND Fibre Ch	disk	12	Attac	Suppo	No	Fibre 🔺		
	OVERLAND Fibre Ch	disk	15	Attac	Suppo	No	Fibre		
\rightarrow	OVERLAND Fibre Ch	disk	28	Attac	Suppo	No	Fibre		
	OVERLAND Fibre Ch	disk	50	Attac	Suppo	No	Fibre		
	OVERLAND Fibre Ch	disk	50	Dea	Suppo	No	Fibre		
	Local Adaptec Disk (disk	1	Attac	Not su	No	Paral		
	Local Optiarc CD-RO	cdrom	drom Attac Not su No Block						
	Device Details								
	General								
	Name	OVERLAND Fibre Channel Disk (eui.001697121f23000b)							
	Identifier	eui.001	eui.001697121f23000b disk						
	Туре	disk							
	Location	/vmfs/d	evices/di	isks/eui.	.001697121	f23000k	0		
	Capacity	28.00 0	98				•		