

StoneFly Inc.

Setup SCVM Deployment for Guide VMware ESXi

Using OVA Template

vmware[®] ESXi

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1. Introduction

The purpose of this document is to guide user though the steps required to deploy a Storage Concentrator Virtual Machine (SCVM) on VMware ESXi 5.x and 6.x and 7.x system using an .OVA file. OVA is a virtual appliance package file that contains files for distribution of software that runs on a virtual machine. The installation described in this document is for a base SCVM.

2. System Requirements

Following are the prerequisites for installing a new SCVM:

- 1. This document assumes that ESX host is already installed and available for the SCVM to be deployed.
- 2. 8 GB or more of reserved memory for use by the SCVM.
- 3. 4 Core CPU.
- 4. A minimum of 32 GB of storage for loading the StoneFly StoneFusion is required.
- 5. Two virtual networks defined in VMware ESXi server:
 - 5.1. One for the LAN,
 - 5.2. Another for the SAN.

There must be at least one physical interface reserved for each network.

- 6. Additional storage space (internal or external) to be managed by the SCVM.
- 7. SCVM package (SCVM OVA File, documents, and additional files).

Note: Please refer to this link to download the OVA file.

3. SCVM Deployment

For SCVM deployment, there's a need to create a VM using downloaded OVA file. Once it is created, the virtual machine will then be tuned up for installation.

3.1 Create a VM with OVA

- 1. Log in to the VMware ESXi Web Client and go to the VMs tab.
- 2. Click on Create/Register VM

vmware [®] ESXi [®]				
Pte Navigator	localhost.localdomain			
▼ Host Manage	Treate / Register VM]	Power off 🔢 S	uspend 🧲 Refresh 🛔	Actions
Monitor	U. Virtual machine	v Status v	Used space v	Guest OS 🗸 🗸
- 🗗 Virtual Machines 22	Jump Machine Nil	Normal	100.09 GB	Microsoft Windows 10 (64-bit)
• B sc	ASN	Normal	100.09 GB	Microsoft Windows 10 (64-bit)
Mo Create/Register VM	SCVM-VDP	Normal	855.2 GB	CentOS 6 (64-bit)
Mo 🛅 Open in new window	SCVM-CHAP	Normal	166.2 GB	CentOS 6 (64-bit)
Storage 2	O 🗗 Veeam Server	Normal	110.09 GB	Microsoft Windows Server 20
Networking 20	🗅 👔 Veeam Linux Proxy	Normal	12.92 GB	Ubuntu Linux (64-bit)
	O. is SCVM-HA1	Normal	292.09 GB	CentOS 6 (64-bit)
	□ 🍈 SCVM-HA2	Normal	292.09 GB	CentOS 6 (64-bit)
	Quick filters v			
	🕄 Recent tasks			
	Task v Target	∼ Initia	ator ~ Queued	∽ Started

3. Select **Deploy a virtual machine from an OVF or OVA file** option and click on Next

1 New virtual machine - SCVM (ESXi 6.7 virtual machine) 1 Select creation type Select creation type 2 Select OVF and VMDK files How would you like to create a Virtual Machine? 3 Select storage 4 License agreements This option guides you through the process of creating a Create a new virtual machine 5 Deployment options virtual machine from an OVF and VMDK files. 6 Additional settings 7 Ready to complete Register an existing virtual machine **vm**ware[®] Back Next Finish Cancel

4. Specify Name for the virtual machine and click to select files or drag/drop the downloaded OVA file for SCVM

🔁 New virtual machine - SCVM	
✓ 1 Select creation type	Select OVF and VMDK files
2 Select OVF and VMDK files	Select the OVF and VMDK files or OVA for the VM you would like to deploy
3 Select storage	
4 License agreements	Enter a name for the virtual machine.
6 Additional settings	SCVM
7 Ready to complete	Virtual machine names can contain up to 80 characters and they must be unique within each ESXi instance.
	Click to select files or drag/drop
	Back Next Finish Cancel

5. After uploading the OVA file and click **Next**

😚 New virtual machine - SCVM	
1 Select creation type	Select OVF and VMDK files
2 Select OVF and VMDK files	Select the OVF and VMDK files or OVA for the VM you would like to deploy
3 Select storage	
4 License agreements	Enter a name for the virtual machine.
5 Deployment options	SCVM
6 Additional settings	Virtual machine names can contain up to 80 characters and they must be unique within each ESVi instance
r Ready to complexe	× SCVM.ova
vm ware	
	Back Next Finish Cancel

6. **Select Storage** from available datastore

🔁 New virtual machine - SCVM							
 1 Select creation type 2 Select OVF and VMDK files 3 Select storage 4 License agreements 5 Deployment options 6 Additional settings 7 Ready to complete 	tion type and VMDK files age greements nt options settings complete Select a datastore for the virtual machine's configuration files and all of its' virtual disk						
	Name ~	Capacity 🗸	Free 🗸	Туре 🗸	Thin pro 🗸	Access	~
	datastore1	550.75 GB	25.54 GB	VMFS6	Supported	Single	
	datastore2	2.73 TB	35.5 GB	VMFS6	Supported	Single	
						2 it	ems
vm ware							
			Ba	ack Ne	Finis	h C	ancel

7. The order of NIC is very important. Use NIC1: VM Management Network for management network and NIC2: Data Network for data network

8. Select Thick Provision radio button and Click on Next to continue

 1 Select creation type 2 Select OVF and VMDK files 3 Select storage 4 Deployment options 5 Ready to complete 	Deployment options Select deployment options Network mappings Disk provisioning	VM Management BO-1-MGMT	t Network							
 2 Select OVF and VMDK files 3 Select storage 4 Deployment options 5 Ready to complete 	Select deployment options	VM Management BO-1-MGMT	t Network							
 3 Select storage 4 Deployment options 5 Ready to complete 	Network mappings	VM Managemen	t Network			t OVF and VMDK files Select deployment options				
4 Deployment options 5 Ready to complete	Network mappings	VM Managemen BO-1-MGMT	t Network							
	Disk gravisioning	BO-1-MGMT	VM Management Network							
	Diakoravisionian		BO-1-MGMT ~							
	Disk provisioning	Data Network	Data Netw	ork_10.1.1.x		~				
	Diale provinianing									
	Disk provisioning	O Thin O Thick								
	Power on automatically									
Maro										
				Deals	Neut	Et inde het	Canad			
9. Verify the se	ettings and hit Finish			Back	Next	Finish	Cancel			
 9. Verify the se New virtual machine - SCVM 1 Select creation type 	ettings and hit Finish Ready to complete			Back	Next	Finish	Cancel			
 9. Verify the set New virtual machine - SCVM 1 Select creation type 2 Select OVF and VMDK files 	ettings and hit Finish Ready to complete Review your settings selection bef	fore finishing the wizard		Back	Next	Finish	Cancel			
 9. Verify the set New virtual machine - SCVM 1 Select creation type 2 Select OVF and VMDK files 3 Select storage 4 Deployment options 	ettings and hit Finish Ready to complete Review your settings selection bef	fore finishing the wizard		Back	Next	Finish	Cancel			
 9. Verify the set New virtual machine - SCVM 1 Select creation type 2 Select OVF and VMDK files 3 Select storage 4 Deployment options 5 Ready to complete 	ettings and hit Finish Ready to complete Review your settings selection bef Product	fore finishing the wizard		Back	Next	Finish	Cancel			
 9. Verify the set New virtual machine - SCVM 1 Select creation type 2 Select OVF and VMDK files 3 Select storage 4 Deployment options 5 Ready to complete 	Ettings and hit Finish Ready to complete Review your settings selection bef Product VM Name	fore finishing the wizard SCVM SCVM		Back	Next	Finish	Cancel			
 9. Verify the set New virtual machine - SCVM 1 Select creation type 2 Select OVF and VMDK files 3 Select storage 4 Deployment options 5 Ready to complete 	ettings and hit Finish Ready to complete Review your settings selection bef Product VM Name Files	fore finishing the wizard SCVM SCVM SCVM-disk1.vmd	lk	Back	Next	Finish	Cancel			
 9. Verify the set New virtual machine - SCVM 1 Select creation type 2 Select OVF and VMDK files 3 Select storage 4 Deployment options 5 Ready to complete 	ettings and hit Finish Ready to complete Review your settings selection bef Product VM Name Files Datastore	fore finishing the wizard SCVM SCVM SCVM-disk1.vmd datastore2	lk	Back	Next	Finish	Cancel			
 9. Verify the set New virtual machine - SCVM 1 Select creation type 2 Select OVF and VMDK files 3 Select storage 4 Deployment options 5 Ready to complete 	ettings and hit Finish Ready to complete Review your settings selection bef Product VM Name Files Datastore Provisioning type	fore finishing the wizard SCVM SCVM SCVM SCVM-disk1.vmd datastore2 Thick	lk	Back	Next	Finish	Cancel			
 9. Verify the set New virtual machine - SCVM 1 Select creation type 2 Select OVF and VMDK files 3 Select storage 4 Deployment options 5 Ready to complete 	ettings and hit Finish Ready to complete Review your settings selection bef Product VM Name Files Datastore Provisioning type Network mappings	fore finishing the wizard SCVM SCVM SCVM-disk1.vmd datastore2 Thick VM Management	lk Network: E	Back 30-1-MGMT,D	Next	Finish Data Network_	0.1.1.x			

10. Wait for the Virtual Machine Deployment. This will take few minutes

3.2 Edit VM Settings for SCVM

Edit settings - SCVM (ESXi 6.7 virtual machine)

1. Right click on the deployed Virtual Machine and select Edit Settings option

Navigator	localhost.localdomain		
 Host Manage Monitor Virtual Machines 22 SCVM-OVA-T1 Mon SCVM SCV SCV Power SCV SCV SCV SCV Guest OS Manage Support Support Support SCV Support Suport Support Supp	Get vCenter Server) 10 Calhost.loc Version: State: Uptime:	reate/Register VM 📷 Shut down 💽 Reboot C Refresh 🏠 / :aldomain 6.7.0 Update 3 (Build 14320388) Normal (not connected to any vCenter Server) 170 days	Actions
AMS Autostart	•		
P Lab-	patibility are		- Con
► SCV C Export	icturer	Dell Inc.	Imag
More 😥 Export With Image	25	PowerEdge R720xd	vSph
Storage	U	12 CPUs x Intel(R) Xeon(R) CPU E5-2667 0 @ 2.90GHz	▶ vMot
Edit settings	mory	127.96 GB	
Rermise Edit the s	ettings for this virtual machine	0 B	* Syst
Dit notes	isks		
🔊 Rename		✓ Target ✓ Initiator ✓ Queue	ed

- 2. Click on **Memory** and adjust for a base system (If needed) and select **Reserve all guest memory.** Systems using encryption require minimum of 8 GB. Systems using deduplication require a larger memory size. This setting can be changed at any time as needed.
- 3. Click on **CPUs** and select number of CPU's to use. Number of CPU's will have an effect on performance. This can be monitored and changed later. **4 CPU's** are recommended for a base system. This can be set using Number of virtual sockets and Number of cores per socket: fields.

Virtual Hardware VM Ontions		
Add hard disk	dapter 🗧 Add other device	
► 📮 CPU	4 ~ ()	
Memory	8192 MB ~	
▶ 🔜 Hard disk 1	32 GB ~	8
SCSI Controller 0	VMware Paravirtual	\otimes
SATA Controller 0		0
🖶 USB controller 1	USB 2.0 ~	0
Network Adapter 1	VM Management Network	\otimes
Ima Network Adapter 2	Data Network_10.1.1.x	\otimes
CD/DVD Drive 1		0
	Save	Cancel

🔁 Edit settings - SCVM (ESXi 6.7 virtual	machine)		
Virtual Hardware VM Options			1
Add hard disk 🔳 Add network add	apter 🛛 📒 Add other device		
New standard hard disk Rew standard hard disk Exist	4 ~ i		
New persistent memory disk	8192 MB ~		
New raw disk	32 GB ~		0
SCSI Controller 0	VMware Paravirtual	~	0
SATA Controller 0			٢
🖶 USB controller 1		~	\odot
Metwork Adapter 1	VM Management Network	Connect	\otimes
Network Adapter 2	Data Network_10.1.1.x	Connect	\otimes
▶ 💿 CD/DVD Drive 1	Last device		
		Save	Cancel

4. Add hard disk to create a new virtual disk and click Next

5. Specify the disk size and set **Disk Provisioning** to **Thick Provision lazily zeroed** for particular datastore in **Location** and hit **Save**

SCVM uses the first 64KB of any disk added. Make sure to add this to the required space when creating a new disk. In this example 100.1GB disk will be created. This allows for 100GB of usable disk plus the overhead. Set Disk Provisioning to Thick Provision lazily zeroed and click on **Browse** to select the datastore to use. In this example the selected data store is datastore2. Click on Next to **Save**

	100 GB ~	8
Maximum Size	350.05 GB	
Location	[datastore2] SCVM-OVA	Prowse
Disk Provisioning	 Thin provisioned Thick provisioned, lazily zeroed Thick provisioned, eagerly zeroed 	
Shares	Normal ~ 1000 ~	
Limit - IOPs	Unlimited	
Controller location	SCSI controller 0 v SCSI (0:0)	~
Disk mode	Dependent ~	
Sharing	None	
	Disk sharing is only possible with eagerly zeroed, thick pr	ovisioned disks.

6. Select SCSI Controller with Disk mode as Independent

7. Review the setting and **Save** the changes.

_				
Fdit settings -	SCVM (ESX	i 6 7 virtual	machine)	

Linit - IOF 3	Unlimited ~	
Controller location	SCSI controller 0 v SCSI (0:0)	~
Disk mode	Independent - persistent 🗸 🗸	
Sharing	None 🗸	
	i Disk sharing is only possible with eagerly zeroed, thick pr	ovisioned disks.
SCSI Controller 0	VMware Paravirtual ~	\otimes
SCSI Bus Sharing	None	
SATA Controller 0		8
	USB 2.0	
USB controller 1		0
USB controller 1	BO-1-MGMT V	ionnect 📀

8. Power on the newly created virtual machine

9. Launch the console for VM

10. Wait for the system to complete the booting process and login into the user console

1980e 0908:0b:00.0: (unregistered net_device): reg 1980e 0908:0b:00.0: eth0: (PCI Express:2.5GT/s:Wid 1980e 0908:0b:00.0: eth0: Intel(R) PRO/1000 Network 1980e 0908:0b:00.0: eth0: MAC: 3, PHY: 8, PBA No: C Mware vmxnet3 virtual NIC driver - version 1.4.9.0 mmxnet3 0908:13:00.0: # of Tx queues : 4, # of Rx qu mxnet3 0800:13:00.0: PCI INT $A \rightarrow$ GSI 16 (level, A mxnet3 0800:13:00.0: eth1: NIC Link is Up 10000 Mby Bringing up loopback interface: 1980e eth0 NIC Link is Up 10000 Mby Bringing up interface eth0: e1800e 0808:0b:00.0: e 1980e: eth0 NIC Link is Up 1000 Mbys Full Duplex, J Determining if ip address 100.100.160 is already Bringing up interface eth1: NIC Link is Up 10000 Mby Bringing up interface eth1: Vmxnet3 0800:13:00.0: c 1980e: eth0 NIC Link is Up 1000 Mbys Full Duplex, J Determining if ip address 100.100.160 is already Bringing up interface eth1: NIC Link is Up 10000 Mby Bringing up interface eth1: NIC Link is Up 10000 Mby Bringing up interface eth1: Vmxnet3 0800:13:00.0: c	istered PHC clock th x1) 00:0c:29:d4:20:99 k Connection 000000-000 -k-NAPI ueues : 4 ow) -> IRQ 16 ps [OK] th0: changing MTU from 1500 to 1492 Flow Control: None y in use for device eth0 [OK] eth1: intr type 3, mode 0, 5 vectors allocated ps use for device eth1
	L UK J
npet1: lost 5 rtc interrupts	
Starting system message bus: Unknown username "gdm"	in message bus configuration file
	L UK J
Starting cups:	L UK J
Tounting filesystems:	
Starting acpi daemon:	
Starting HAL daemon:	
Starting soft_watchdog: Software Watchdog Timer: 0.1	07 initialized. soft_noboot=0 soft_margin=300 sec
soft_panic=1 (nowayout= 0)	
Starting nscd:	L UK J
starting ansmasq:	
Starting Kdump:	L UK J
Starting meelog daemon	F 01 1
Starting ssna:	
Starting Xineta:	
Starting have yea:	L UK J
starting the sitma processes:	

11. To begin with the user service menu login with userID as console and password as coni100o

Wed W/ Sep 2022 05:20:37 PT PUT SYSTEM: 50-192-100-0-254 at 192.100.0.254 is running.
StoneFly Storage Concentrator System Name: SC-192-168-0-254 IP: 192.168.0.254 Version: 0.0.4.22 Browse to http://192.168.0.255 for the Graphical User Interface. In the CRT console, use (Alt-Fl) for messages, (Alt-F2) for login. The GUI will be disabled while the Console Service Menu is in use. Powered by StoneFly - Copyright (c) 2002-2022. All Rights Reserved.
StoneFlu Storage Concentrator
Sustem Name: SC-192-168-8-254 IP: 192.168.8.254 Version: 8.8.4.22
Browse to http://192.168.0.254 for the Graphical User Interface.
In the UKT console, use (Alt-rl) for messages, (Alt-r/2) for login.
Powered by StonePily - Copyright (c) 2082-2022. All Rights Reserved.
3C-192-168-0-254 login:

12. Enter **2** to configure the **Network**

System Name: SC-192-168-0-254 IP: 192.168.0.254 Version: 8.0.4.22
Storage Concentrator
Service
g- Logout
2

13.Configure the network settings. After saving the settings by **s**, enter **q** at the command prompt to exit back to the service menu.

System Name: SC-192-168-0-254 IP: 192.168.0.254 Version: 8.0.4.22
Storage Concentrator
Service->Network
1- Default Gateway (192.168.0.254 -> 100.100.100.153) 2- Management IP Address (192.168.0.254 -> 100.100.100.160) 3- Management Netmask (255.255.255.0) 4- Management Network (192.168.0.0 -> 100.100.100.0) 5- Management Broadcast (192.168.0.255 -> 100.100.100.255) 6- Management Use DHCP (No) 7- Primary DNS Server (-> 100.100.151) 8- Secondary DNS Server () s- Save Changes
q- Back to Service

14. After saving the network configuration, the configured IP will appear as



4. SCVM Configuration

Open the SCVM's Management IP on a Web Browser and if the product isn't licenced, here you'll find the System UUID please copy this string and share with the <u>support team</u>, the team will generate the trial license for you and send it back to you accordingly.

▲ Not secure https://100.100.100.160/Std	neFly/bin/login.pl			
		STONEFLY		
	Your StoneFusion Base OS	evaluation period has expired. Please renew	your license.	
		Licensing		
	System Name	System UUID	Vendor Serial Number	
	SC-100-100-160	B9234D56-E880-6FB4-4E4D- DEE72A2EE9BB	00:0C:29:2E:E9:BB	
	Licensed Feature Name	License Key		
	StoneFusion Base OS	SC-100-100-160 No License SC-100-100-100-160 [SC-100-100-100-160 [Undo Submit		
		License Activation		
	System Name SC-100-100-100-160	System B9234D56-E880-6FB4-4	UUID E4D-DEE72A2EE9BB	
	Product Key	rate		
	System Tin	ne: Fri 02 Sep 2022 01:16:37 AM PDT		

1. If licensed, please login to using username as admin with M@n4g1ng as password

← → C ▲ Not secure https://100.100.100.160/StoneF	ly/bin/login.pl		Ŕ
	STO	NEFLY	
	Username		
	Password	ogin	
	License	Activation	
	System Name SC-100-100-160	System UUID C1324D56-DD27-2215-155C-E335A1D42099	
	Product Key		
	System Time: Thu 08 Se	ep 2022 03:36:29 PM PDT	



2. After successful login, SCVM dashboard will appear as first screen

- 3. The default User ID's are stonefly for **administrative users** and demo for**observer**. The default passwords should be changed on first login to secure the system.
 - 3.1 To change the passwords navigate to System > User > Detail > Select User and enter the new password and click on Submit. This should be performed for both default User IDs
 - 3.2 To add new user client on the **Add User** tab and specify the username along with password

C	Not secure https://100.100.1	00.160/StoneFly/bin/u	sers.pl?modify_id=1				Q 🖻 ☆	o 🛪 🛛
	•					GOOD Suppor	t 💿 Logout	alo
	STONEFLY	Information		Det	tai	Add User		μĻ
	SC-100-100-100-160	Admin		Use	ars .			
		Network		C-l+11				
		Diagnostics		301001 0501				
	√ [#] Expand All	Notifications		Edit User	r admin			
	Dashboard	UPS		Log In	admin			
	san	Users		Administration Level	Administrative (All) "Observer"			
	NAS			Password				
	Resources			Confirm Password Disable API				
	System		Use	Two Factor Authentication	•			
	- Information				mk			
	🕼 Network							
	Notifications							
	Users							

				STATU	S: GOOD Support 🖑 Logout
STONERLY					• Help
	Information	Summary	Dete	ail	Add User
SC-100-100-100-160	Admin		Add U	Jser	
	Network		1		
	Diagnostics		Log in		
	Notifications		Administration Level	Administrative (All)	
				CDServer	
Dashboard	UPS		Password		
SAN	Users		Confirm Password		
			Subr	mit	
NAS					
Rosources			owered by StoneFly - Copyright(© 2002-2022. All Rights Res	
System					
- Information					
🐣 Admin >					
Network					
1 Notifications					
D UPS					
😁 Users					

- 4. To configure network;
 - 4.1. Navigate to System -> Network-> Local iSCSI Data Port page.
 - 4.2. Enter the Local Host GbE IP Address and click on Submit.

\rightarrow (3	A Not secure https://100.100.	100.160/StoneFly/bin/	ff_network.pl?	mode=gl	be							0 ₽ ₽	© 🛪
		•							នា	TATUS :	GOOD	Support	() Logout	
		STONEFLY											1 C	lelp
			Information	De	ıta Part	Management	t Port Rou	uting		Pre-reloc	ation Check	Post-re	location Setup	
		SC-100-100-100-160	Admin				Data Por	t Setting	•					
			Network				Use Jumbo Frames	•						
			Diagnostics				iSCSI Listening Port	3260						
		₽ [®] Expand All	Notifications				IP Address	10.1.1.2	00					
		Dashboard	UPS											
			Users				Net Mask	255.2	55.255.0					
		SAN						Advanc	ced: Network/Bi	roadcast				
		NAS					Undo	Sub	mat)					
							Network	interface	•					
		Resources			Port	IP Address / Network	MAC Address	Link	Cur Speed	Dupl	Туре	Max Speed	Stats	
		System											State	
							Ping A	ddress						
		Admin		Pina Addres	•				Count				Y Ping	
		Network												
		T Data Port					Perf Network T	hroughp	ut Test					
		Management Port		Server				Version	[a	а,		Convor		
		Pre-relocation Check												
		Post-rejocation Setup												

Note: It is recommended to have data network segregated from the management network.

Data Port						
		Data Port Settings				
	Use Ju	mbo Frames 📕				
	100.100.100.160 says	C				
	(?)	9 1	ct Network/I	Broadcast		
Id Net	work changes will be applied. All h uld be logged out during any networ ification.	ost sessions k	C ur Speed 10Gb/s		Type vmxnet3	Max Sp 10Gb
Ping Address	Ok Cancel		Count	5		
Server		t Version	Test		Direction	To Server

5. Review the popups and click on **Ok**.



- Navigate to Resources -> Summary page. A list of available resources will be displayed.
- 7. The use type must be set before a resource can be used. Use Type include:
 - 7.1. Managed is the most common, this allows for iSCSI and NAS

volume creation plus Advanced Features based upon licensing.

7.2. **Pass Thru** is only used when migrating existing data into a Stone-Fly volume and should only be used temporarily.

7.3. **Flash Cache** is only used when higher speed storage is available to cache write operation for a slower speed resource.

7.4. **NAS Managed** can only be used to create NAS volumes and cannot be split into multiple volumes.

In most cases the use type of **Managed** should be selected. Select the same and click hit **Submit** button.

Kesources	Ime	igo Namo		Path	Total Space (GiB)	Used (GiB)	Free (GiB)	
Create Rath Cache Flash Cache Configuration Greate Chiject Storage System 2		VMware	Virtual disk	202	100			
information Admin Diagnostics Notifications	BTX			Discov	r)			
ing ups Usars	RE	SOURCE SUMMARY A	S OF THU 08 SEP 2022 04:1	0:13 PM PDT		Search:		
Reports		Use Туре 🔹	Resource Name	: Path : Ty	Total pe Size (GiB)	Available * Size * (GiB)	Status Delete	
		None Pass Thru Managed NAS Managed Flash Cache Dedup Index	<u>SC-100-100-100-160 scsi2:</u> LUN_0	<mark>921:</mark> 2:0: 1:0 4			Active	

The configuration is completed at this point. iSCSI or NAS volumes can now be created as needed.

5. Other Available Features

The Storage Concentrator User Guide is available to discover more features available. Some of the available features are listed below:

High availability Cluster

This feature allows for the creation of an Active-Active Cluster of 2 SCVM's. This allows for maintenance on 1 system while the other remains active for host utilization.

Scale Out

This feature allows for expanding NAS volumes while distributing workloads between multiple Storage Concentrators. Scale Out node can be created across SCVM and physical hardware. <u>iSCSI</u>

iSCSI volumes can have snapshots, sync mirroring, Async replication, thin volumes, encryption and deduplicated volumes.

<u>NAS</u>

NAS volumes can be configured with snapshots.



StoneFly Inc.



SCVM Deployment

www.iscsi.com www.stonefly.com

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