Setup Guide

DR365V - Backup & Disaster Recovery Appliance







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Chapter-1: Introduction

1.1 Introduction

This document is aimed for system administrators who would like to know how to get started with StoneFly DR365V Appliance. It describes initial steps for launching the appliance.

The StoneFly DR365V is the ideal purpose-built hyperconverged infrastructure solution for backup and disaster recovery which also allows you to consolidate all of your server and backup systems into one easy to manage appliance.

This guide gives an overview of the product, rack mounting instructions and initial installation procedure. Information for using the features of the StoneFusion software is found in the Storage Concentrator User Guide.

- <u>StoneFly Resource Library</u>
- <u>The StoneFly SCVMTM Webpage</u>
- Veeam Backup & Replication User Guide for VMware
- Veeam Backup & Replication User Guide for Hyper-V

Each StoneFly DR365V comes preconfigured with VMware vSphere or Microsoft Hyper-V hypervisor, a StoneFly SCVMTM Virtual Storage Controller, and an Enterprise Backup Engine running on a second VM. Additional Virtual Machines can be installed on the DR365V as needed as long as adequate processing cores and system memory are available to support those VMs. Contact your StoneFly sales representative for details.



DR365V-1204 12-Bay / 2U Model

The DR365V comes in five standard configurations:

- 12-bay / 2U model features maximum of 12 x 3.5" SAS drives
- 16-bay / 3U model features maximum of 16 x 3.5" SAS drives
- 24-bay / 2U model features maximum of 24 x 2.5" SAS drives
- 24-bay / 4U model features maximum of 24 x 3.5" SAS drives
- 36-bay / 4U model features maximum of 36 x 3.5" SAS drives

1.1.1 Icons

Icon	Туре	Description
	Note	Special instructions or information
A	Warning	Risk of system damage or a loss of data

Chapter-2: Initial Installation

2.1. Rack Installation Instructions

This section provides information on installing the StoneFly DR365V appliance into a rack or cabinet with the rails provided. There are a variety of rack/cabinet units on the market, which may mean that the assembly procedure will differ slightly. You should also refer to the installation instructions that came with the rack unit you are using.

NOTE: This rail will fit a rack/cabinet between 26" and 33.5" deep.

Identifying the Sections of the Rack Rails

The StoneFly DR365V chassis package includes two rack rail assemblies in the rack mounting kit. Each assembly consists of three sections: an inner rail that secures directly to the chassis, an outer rail that secures to the rack, and a middle rail which extends from the outer rail. These assemblies are specifically designed for the left and right side of the chassis.



Identifying the Outer Rail, Middle Rail and Inner Rail

(Left Rail Assembly Shown)

Releasing the Inner Rail

Each inner rail has a locking latch. This latch prevents the server from coming completely out of the rack when the chassis is pulled out for servicing. To mount the rail onto the chassis, first release the inner rail from the outer rails.

Releasing the Inner Rail from the Outer Rails:

- 1. Pull the inner rail out of the outer rail until it is fully extended as illustrated below.
- 2. Press the locking tab down to release the inner rail.
- 3. Pull the inner rail all the way out.
- 4. Repeat for the other outer rail.



Extending and Releasing the Inner Rail

Installing the Inner Rails on the Chassis

Installing the Inner Rails

- 1. Identify the left and right inner rails. They are labeled.
- 2. Place the inner rail firmly against the side of the chassis, aligning the hooks on the side of the chassis with the holes in the inner rail.
- 3. Slide the inner rail forward toward the front of the chassis until the quick release bracket snaps into place, securing the rail to the chassis.
- 4. Optionally, you can further secure the inner rail to the chassis with a screw.
- 5. Repeat for the other inner rail.



Inner Rails Installed on the Chassis

Installing the Outer Rails onto the Rack

Installing the Outer Rails

- 1. Press upward on the locking tab at the rear end of the middle rail.
- 2. Push the middle rail back into the outer rail.
- 3. Hang the hooks on the front of the outer rail onto the square holes on the front of the rack. If desired, use screws to secure the outer rails to the rack.
- 4. Pull out the rear of the outer rail, adjusting the length until it just fits within the posts of the rack.
- 5. Hang the hooks of the rear section of the outer rail onto the square holes on the rear of the rack. Take care that the proper holes are used so the rails are level. If desired, use screws to secure the rear of the outer rail to the rear of the rack.



Extending and Mounting the Outer Rails



The rack stabilizing mechanism must be in place, or the rack must be bolted to the floor before you slide the unit out for servicing.

Failure to stabilize the rack can cause the rack to tip over. Do not use a two post "telco" type rack.

Sliding the Chassis onto the Rack Rails



Warning: Mounting the system into the rack requires at least two people to support the chassis during installation. Please follow the safety recommendations printed on the rails.

Installing the Chassis into a Rack

- 1. Extend the outer rails as illustrated above.
- 2. Align the inner rails of the chassis with the outer rails on the rack.
- 3. Slide the inner rails into the outer rails, keeping the pressure even on both sides. When the chassis has been pushed completely into the rack, it should click into the locked position.
- 4. Optional screws may be used to hold the front of the chassis to the rack.



Note: The figure above is for illustrative purposes only. Always install servers to the bottom of the rack first.



Caution: Do not pick up the server with the front handles. They are designed to pull the system from a rack only.

2.2. Power Up & Initial Access

These are the steps a user needs to follow in order to start using the StoneFly DR365V Hyperconverged Appliance:

- 1- Connect both power supply modules to a power outlet using the included power cords.
- 2- Connect Ethernet cables to the System Management, Network (iSCSI/NAS), and IPMI ports as shown in the diagram below:

VGA Port	
USB Ports Data Ports	RAID Management Port (Do not connect)
SAS Ext	ension Port Management Port

Back Panel Connections of the DR365V

- 3- If you purchased the appliance with additional network ports, then please connect those as well.
- 4- Connect a monitor to the VGA port.
- 5- Connect a keyboard and a mouse to the USB ports.
- 6- Power up any Expansion Units, then power up the DR365V appliance.

NOTE:

- Serial port is not used by the DR365V appliance.
- SAS Expansion port is only used when connecting StoneFly Expansion Units to the DR365V Appliance for additional storage capacity.
- Do not connect an Ethernet cable to the RAID port.
- There are different configurations for network ports. Make sure to follow the labeling on your system when connecting the Ethernet cables.

2.3. Configuring IPMI KVM

The Intelligent Platform Management Interface (IPMI) KVM configuration allows for **Remote Management** and **Power Control** of the StoneFly DR365V system. This configuration is optional to perform, but recommended.

To configure the IPMI module, connect a keyboard and monitor to the system. Power on the system and press the **Del** key to enter the BIOS setup.

Aptio Setup UH Main Advanced Event Logs	: <mark>ility – Copyright (C) 2019 Amer</mark> : IPMI Security Boot Save & Ex	ican Megatrends, Inc. xit
System Date System Time	[Fri 01/31/2020] [17:09:57]	Set the Date. Use Tab to switch between Date elements.
Supermicro X11DPi-NT BIOS Version Build Date CPLD Version Memory Information Total Memory	3.1 04/26/2019 02.b1.08	
Memory Speed	2400 MT/s	<pre>++: Select Screen 14: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit</pre>
Veneton 9, 20	1975 Convertight (C) 2010 Amonios	an Watataada Taa

Navigate to IPMI tab and go to BMC Network Configurations:

	Main	Ap Advanced	tio Setup Ut Event Logs	ility – Copyright IPMI Security B	(C) 2019 American oot Save & Exit	Megatrends, Inc.
ſ	IPMI F Status	irmware Re Of BMC	vision	1.71 Working		Configure BMC network parameters
•	System BMC Ne	Event Log twork Conf				
						<pre>++: Select Screen 11: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit</pre>
		V	ersion 2.20.	1275. Copyright (C) 2019 American M	egatrends, Inc.

In the BMC Network Configuration tab, select Update IPMI LAN Configuration and press Enter:

Aptio Setup Utility – Copyright (C) 2019 American Megatrends, Inc. BMC Network Configuration							
IPMI LAN Selection IPMI Network Link Status Station MAC address VLAN IPV4 Address Source Station IP address Subnet mask Gateway IP address IPV6 address status Station IPV6 address Prefix Length IPV6 Router IP Address Update IPMI LAN Configuration	Failover Dedicated LAN 3C-EC-EF-06-5B-97 Disabled DHCP 100.100.100.49 255.255.255.0 100.100.100.153 Disabled :: 0 :: [NO]	BIDS will set below setting to IPMI in next BOOT					
Version 2 20 12	75 Conuright (C) 2019 America	n Megatrends Inc					

When prompted, select Yes and press Enter.

Aptio Setup Utility – Copyright (C) 2019 American Megatrends, Inc. BMC Network Configuration							
IPMI LAN Selection IPMI Network Link Status Station MAC address VLAN IPv4 Address Source Station IP address Subnet mask Gateway IP address IPv6 address status Station IPv6 address Prefix Length IPv6 Router IP Address Update IPMI LAN Configuration	Failover Dedicated LAN 3C-EC-EF-06-5B-97 Disabled DHCP 100.100.100.49 255.255.255.0 100.100.100.153 Disabled Update IPMI LAN Configuratio Yes	D BIOS will set below setting to IPMI in next BOOT elect Screen elect Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit					
Version 2.20	.1275. Copyright (C) 2019 America	an Megatrends, Inc.					

From the additional list of options, select Configuration Address Source and press Enter:

Aptio Setup Utility – Copyright (C) 2019 American Megatrends, Inc. BMC Network Configuration								
IPMI LAN Selection IPMI Network Link Status Station MAC address VLAN IPV4 Address Source Station IP address Subnet mask Gateway IP address IPV6 address status Station IPV6 address Prefix Length	Failover Dedicated LAN 3C-EC-EF-06-5B-97 Disabled DHCP 100.100.100.49 255.255.255.0 100.100.100.153 Disabled :: 0	 Select to configure LAN channel parameters statically or dynamically(by BIOS or BMC). Unspecified option will not modify any BMC network parameters during BIOS phase 						
IPV6 Router IP Address Update IPMI LAN Configuration IPMI LAN Selection VLAN ************************************	:: [Yes] [Failover] [Disabled] [DHCP]	<pre>++: Select Screen 11: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit</pre>						

From the prompt, select Static and press Enter:

Aptio Setup Utility – Copyright (C) 2019 American Megatrends, Inc. BMC Network Configuration							
IPMI LAN Selection IPMI Network Link Status Station MAC address VLAN IPv4 Address Source Station IP address Subnet mask Gateway IP address IPV6 address status Station IPv6 address Prefix Length	Failover Dedicated LAN 3C-EC-EF-06-5B-97 Disabled DHCP 100.100.100.49 255.255.255.0 100.100.100.153 Disabled — Configuration Address sour atic	 Select to configure LAN channel parameters statically or dynamically(by BIOS or BMC). Unspecified option will not modify any BMC network parameters during BIOS phase 					
IPV6 Router IP Address OH Update IPMI LAN Configuration IPMI LAN Selection	(Failover)	Select Screen Select Item Enter: Select					
VLAN жананананананананананананан Configure IPV4 support жананананананананананана	[Disabled]	+/-: Change Upt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit F60: Exit					
configuration Houress Source жакажажажажажажа Configure IPV6 support	(UHLF)	CSU- EXIL					
Version 2.20.127	5. Copyright (C) 2019 Americ	can Megatrends, Inc.					

Enter the Static IP Address, Subnet Mask and Gateway IP Address.

Aptio Setup Utilit BMC	y – Copyright (C) 2019 Amer Network Configuration	rican Megatrends, Inc.
IPMI LAN Selection IPMI Network Link Status Station MAC address VLAN IPv4 Address Source Station IP address Subnet mask Gateway IP address IPV6 address Status Station IPV6 address Prefix Length IPV6 Router IP Address	Failover Dedicated LAN 3C-EC-EF-06-5B-97 Disabled DHCP 100.100.100.49 255.255.255.0 100.100.100.153 Disabled :: 0 ::	Enter router IP address ++: Select Screen ++: Select Screen
IPMI LAN Selection VLAN ************************************	[Failover] [Disabled] [Static] 192.168.0.251 255.255.255.0 192.168.0.1	Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit

When entering addresses, please note:

- 1. IP Address Must be on the same subnet as DR365V's Management port
- 2. IP Subnet Mask Same as DR365V's Management port
- 3. Default Gateway Same as DR365V's Management port

Press the "ESC" key to exit. Navigate to the Exit tab and select Save Changes and Exit.

Note: The system will require power to be removed before IPMI IP Address will take effect.

Accessing the IPMI Interface

Start a browser and navigate to the configured IP address.

100.100.49/	× +				-	0	נ	×
← → ♂ ŵ	🛛 🔒 https://100.10	0.100.49	… ⊠ ☆	$\overline{\mathbf{A}}$	111		۲	≡
		Please Login Usemame Password Login						

Enter the following information in the login screen:

- Username: stonefly
- Password: Stonefly1



Navigate to Remote Control tab and select iKVM/HTML5:



Click on iKVM/HTML5 to launch remote console:

	100.100.100.49/cgi/u	url_redirect.cgii ×	+					2	-		×
(\	→ C' û		0 🔒 https://100.100	Host Identification Server: ILO-WIEAUS User: ston	t.cgi?url_name=mai -ESXAP25 (100.100.1 efly (Adminis	nmenu 100.049) itrator)	© ☆	⊻ C ≠ English	lii\ 🗊	ھ ی ا	=
	System	Server Health	Configuration	Remote Control	Virtual Media	Maintenance	Miscellaneous	Help	_	_	
	Remote Control	ı \ominus	iKVM/HTML5								
	Console Redire	ection	This page can be used to	access a popular romataku w	New WORL with HTMLE						
	ikvm/html5		This page can be used to	access a server remotely us	sing in the wall firm Lo.						
	Power Control										
	Launch SOL		IKVM/HTML5								



(For VMware Hypervisor)



(For Hyper-V Hypervisor)

The system user console screen will appear.

2.4. VMware Management Network Configuration

This section describes configuration of the ESXi Management Network. *IP Addresses* and *Hostnames* used in this section are for example only. Refer to Section 2.6 for Hyper-V Management Network Configuration.

Connect to System console. Attach a keyboard and monitor or use system IPMI KVM.



Intel(R) Xeon(R) Silver 41 31.7 GiB Memory		
	Authentication Required	
	Enter an authorized login name and password for win-d34s9gi15r6.dnfcorp.com.	
To manage this host go to: http://win-d3455gi15m6/ http://100.100.100.50/ CDH	Configured Keyboard (US Default) Login Name: L root 1 Password: L *********** Center> DK Configured Keyboard (US Default) 1 Password: L root 1 Center> DK Configured Keyboard (US Default) Login Name: L root 1 Password: L root 1 Center> Configured Keyboard (US Default) Center> Center> Center	
<p2> Custonize System/View Logs</p2>		<f12≻ down="" restart<="" shut="" td=""></f12≻>

Press the F2 key to customize system. Then enter Login Name and Password and hit the Enter key to continue. The default Login information is as follows:

- Login: root
- Password: Stonefly1!



Select Network Adapters and press the Enter key.

Configure Management Network	Network Adapters
Configure Management Network Network Adapters VLAM (optional) IPv4 Configuration IPv6 Configuration DMS Configuration Custon DMS Suffixes	Network Adapters vunic3 (Chassis slot 3: function 1) The adapters listed here provide the default network connection to and from this host. When two or more adapters are used, connections will be fault-tolerant and outgoing traffic will be load-balanced.
≺Uр/Down> Select УМыаге ESXi 6.7.8 (УМКего	<pre></pre>

Select the **vmnic** to use for the management network for ESXi and press the **Enter** key. Press the **Esc** key when changes are complete.



Select IPv4 Configuration, then hit the Enter key.

Configure Management Network	IPv4 Configuration
Configure Renagement Network Network Adopters VLAN (optional) IPv4 Configuration DNS Configuration Custow DNS Suffixes	Automatic IPv4 Address: 100.100.100.50 Subnet Mask: 255.255.255.6 Default Gateway: 100.100.100.153 This host can obtain an IPv4 address and other networking parameters automatically if your network includes a DHCP server. IF not, ask your network administrator for the appropriate settings.
(Up/Down> Select	(Enter) Change (Esc) Exit
VMware ESXi 6.7.0 (VMKern	el Release Build 15160138)

Select **Set static IPV4 address and network configuration**. Enter the IP Addresses as needed, then hit the **Esc** key to return.

Configure Management N			
Network Adopters VLAN (optional) IPv4 Configuration IPv6 Configuration DNS Configuration Custon DNS Suffixes		Automatic IVv4 Address: 100.100.100.50 Submet Mask: 255.255.0 Default Gateway: 100.100.100.153 This host can obtain an IPv4 address and other parameters automatically if your network inclu server. If not, ask your network administrator appropriate settings.	networking des a DHCP for the
	IPv4 Configuration This host can obtain network setting includes a DHCP server. If it does n specified: () Disable IPv4 configuration for m () Use dynamic IPv4 address and netw IPv4 Address Subnet Mask Default Gateway (Up/Down) Select (Space) Mark Select	epp opriore settings is automatically if your network ot, the following settings must be anagement network work configuration (100.100.100.50) (100.100.100.53) ed	
ላሀp/Doun> Select		⟨Enter⟩ Change	
	VMware ESXI 6.7.0 (VMKern	el Kelegze Build 12100138)	

Select IPv6 Configuration, then hit the Enter key.

Configure Management Network	IPv6 Configuration
Configure Management Network Network Adapters VLAN (optional) IP-4 Configuration IP-4 Configuration ONS Configuration Custon DNS Suffixes	IPv6 Configuration IPv6 is disabled. This host can be configured to support IPv6. A restart of the host will be required to enable or disable IPv6.
לעף/סטאה> Select עאטמרי ESXi 6.7.8 (VMKern	(Enter> Change <= Esc> Exit el Release Build 15160138)

On the following screen, select **Disable IPv6 (restart required)**, then press the **Esc** key.



Select **DNS Configuration**, then press the **Enter** key.

Configure Management Network	DNS Configuration
Network Adopters VLAN (optional) IPv4 Configuration IPv6 Configuration DAS Configuration Custom DNS Suffixes	Automatic Primary DNS Server: 100.100.151 Alternate DNS Server: 100.100.155 Hostname win-d34s9gilSr6 If this host is configured using DHCP. DNS server addresses
	and other DMS parameters can be obtained automatically. If not, ask your network administrator for the appropriate settings.
<pre>KUp/Down> Select</pre>	<pre>(Enter> Change</pre>
VMware ESXi 6.7.0 (VMKern	el Release Build 15160138)

Enter information for DNS server and hostname as needed then hit the ESC key to return.



Select Custom DNS Suffixes, then hit the Enter key.



Enter DNS Suffixes as needed, then hit the ESC key to return.



Select **Restart Management Network** to complete configuration of settings. Hit the **ESC** key to log out.



2.5. Steps to Configure SCVM Management Port (VMware)

Launch a browser and navigate to https://<Configured IP address>. Enter Username and Password, then click on the Log in button.

(←) ↔ @	🖸 🔒 https://100.100.50/ul/#/login	😇 🕁	± In ⊡ ∞ ≡
Vm	ware'		
VIII			
liner name			
Password	vmware esxi"		
Open the VMware Ho			

The default login information is as follows:

Username: root

Password: Stonefly1!

1. You will see a screen like the one shown below:

← → ♂ ŵ	0 🔒 https://100.100.100.	50/ui/#/host							🖂 🕁		¥ III/		Ξ
vmware: Esxi		All							rost@100.100.100.50	I Help ▼ 1	Q Search		•
To Nevigator	win.d34s9gi15r6.dntcorp.com	No											
Itest Marage Montor ·	Of Cetri Canter Server 10 Crash-Ringuptar VN 10 B Shad down Cet Relocal Cet Relocal Cet Relocal Cet Relocal Winn 224-8 gait Set 4. Information 2 8 Update 3 (and the set of cet relocated to any cleant Server) Cet Relocal Cet Relocal Cet Relocal Vinne 4 00 days 4 00 days Cet Relocal Cet Relocal Cet Relocal								OB 41 GB		FREE CAPACITY: FREE CAPACITY CAPACITY	16.7 GHz 1% 16.8 GHz 22.01 GB 30% 31.07 GB 30.09 GB 28% 409.8 GB	^
🗉 Storage	- Hardware				- Configurati	ion							
Networking	Manufacturer	Supermicro			Image profi	le	ES38-6.7.0-2019	1204001-standard (VII	ware, Inc.)				
	Model	X11DPi-N(T)			vSphere HA	state	Not configured						
	> 🖬 CPU	8 CPUs x Intel(R) Xeon(R) Silver 4110 CPU @ 2.10G	Hz		► vMotion								
	Memory	31.67 GB			* System Information								
	Resistent Memory	0.8	Date/time on host Finday, January 31, 2020, 18:06:23 UTC							_			
	> 🏊 Virtual flash	0 B used, 0 B capacity	0 B used, 0 B capacity					Monday, January 27, 2020, 13:45:02 UTC					
	👻 😥 Networking			Assettag Default string							_		
	Hostname	win-d34s9gi15r6.dnfcorp.com			Serial num!	ber	123456789						
	IP addresses	1. vmk0: 100.100.100.50			BIOS versio	0	3.1a						
	DNS servers	1. 100.100.100.151 2. 100.100.100.155			BIOS releas	e date	Tuesday, Octob	er 15, 2019, 17:00:00 -0	,2019, 17:00:00 -0700			٦	
	Default gateway	100.100.100.153			+ Performan	ce summary last ho	ır						
	IPv6 enabled	No							Consu	med host CPU			
	Host adapters	4			100				Conse	imed host memo	ry		
	Networks	Name		VMs	100						30	0	
		Q VM Data Network		2	8 80						25	onsun	~
	😨 Recent tasks											-	5
	Task	~ Tarpet	 Initiator 	~ Queued		 Started 	~ 1	Result 🔺		~ Com	pleted v		~
	Update Options	vin d34s8gi15r6 driforrp.com	root	01/31/2020 1	0.00.33	01/31/2020 10:08	23	Completed aucresofully		01/31	2020 10:06:33		

The screenshot above shows one SCVM is already installed. If you want to access the user interface for that particular SCVM, click on that SCVM first and then click on the **Console** Tab. You will see a screen like the one shown below:

€ → ୯ û		0 🔒 https://100.100.100.50/ul/#	/host/vms/1								··· 🖂 🕁	± kn ⊡ ⊛ ≡					
vmware: ESXi			1								root@100.100.100.50 + Help +	Q Gearchi •					
- 🖫 Navigator	- 3	SCVIII Console Monitor > Powe	ron 🝙 Shute	lown 🔲 Suspend 🧔 Restart	🖌 Edit 🛛 📿 Refi	esh 🖨 Ach	2015										
Hanage Hontor • (5) Vinata Machines • (5) Vinata Machines Hontor Bontor More Vita • (2) Storage • (2) Henvorking	2		C	SCVM Civel 05 Constituty V/Ivere Teas CP/8 Hempy Host name	Cent05.6 (64-84) E59.67 votaal machine Yes 4 5 GE SC-100-100-204					Lon-suph	d-manalada (mana)	60 MH2 45 MH2 8.06 GB 5106A0E 32.08 GB					
		* General Information						* Hardware	Configuration								
		* 😟 Networking						 III OPU 		4 vCPUs							
		Hostname	SC-100-100-1	00-204				M Memor		6 GB							
		IP addresses	1 100 100 10	234				> 🔠 Hard di	sk1	32 GB							
			2.10.1.1.204					USB co	ntrollier	USB 2.0							
		+ 💼 Vitware Tools	Vitware Tools	version is compliant.				> Mill Networ	k adapter 1	VM Management Network (Connected	1						
		+ Storage	1 disk					HI Netvor	k adapter 2	VM Data Network (Connected)							
		Notes				1	Erfil notes	> 🔳 Video d	ard	08							
								> S CO/DVI	0 drive 1	Ramoto ATAPI							
		* Performance summary last hour						In PCI de	ice 0	ARC-1883 8/12/16/24 Port PCIe 3.0 to	SASISATA 12Gb RAID Controller						
				Consi	umed host CPU	Ready		> Juil Others		Additional Hardware							
							100 2 80				8	CINI	Resource Consur	Consumption med host CPU	48 MHz		
	1	Recent tasks															
	Та	ak	~	Target	 Initiator 	~	Queued		 Started 	 Result . 	~ Cot	mpleted + ~					
	Up	date Options		win-d34s9gi15r6.dnfoorp.com	toot		01/31/2020 10	05:33	01/31/2020 10:05:3	d Ompleted sussessful	V 01/3	1/2020 10:05:33					

Steps to use the pre-installed SCVM:

1. The SCVM management network interface is preconfigured with the default IP address of 192.168.0.254. This must be changed to a valid address for your LAN network. Login to the SC Service console using the VMware Virtual Console for the SCVM by doing the following:

- a. Press Enter to display the login prompt.
- b. At the User ID prompt type console and hit Enter.
- c. At the password prompt type **coni100o** and hit **Enter**. Note that the User ID and password are case sensitive.

nost/vms/1		··· 🖂 🏠	± ⊪\ ED \$
		reet@100.100.100.50 + Help	👻 🔍 Search
17: 192.168.8.254 Version: 8.8.3.13	C Actors C		CPU
To for messages, with r22 for login, t the console Service Rhem is in use, at (c) 2002-2019, All Rights Reserved.			48 MHz MEMORY ME
		Par-villagen og Nakilation av Kristading	32.00 GB
	- Hardware Configuration		
	> CPU	4 vCPUs	
	Memory	1 GB	
	> I Hard disk 1	22.08	
	USB controller	USB 2.0	
	ININ Network adapter 1	VM Management Network (Connected)	
	INN Network adapter 2	VM Data Network (Connected)	
	> 🐺 Video card	08	
	CD/DVD drive 1	Remote ATAP1	
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2. Using the SC Service menu, configure the management network by selecting option 2, for 2 – Network.

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The default settings are shown below. Adjust settings as needed then save the changes.

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vmware: Esxi*				root@100.100.50 🛩 Help	- I Q Search -
Hariyador 21 I Host Manapa Manapa Monifor I Weeken Server Vender V Weeken Server Monifor Monifor Monifor I Storage 1 Monorham 2	SVM Syntem Name: SC-198-198-198-294 IP: 188.198.198.294 Version: 8.8.3.13 Storage Concentrator Service-NetLaark - Version: Concentrator Service-NetLaark - Venagement IP: 188.198.198.198.293 - Nanagement IP: 188.198.198.293 - Nanagement IP: 188.198.198.293 - Nanagement IP: 188.198.198.295 - Primary IPS Server (198.198.198.195) - Seconders Uber NetC (198.198.195) - Seconders Uber NetC (198.198.195) - Seconders Uber NetC (198.198.195) - Seconders - Seconders - Seconders - Seconders	a a a su O Anna O			45 MHz 46 MHz 8.06 GB
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Adjusted settings are shown below. Enter \mathbf{q} at the command prompt to exit back to the service menu. Enter \mathbf{q} again to exit out of the user console service.

Note: the browser access to the SCVM Management GUI is blocked while the **SC Service** menu is active. Also note that there can be a short delay before the SCVM GUI becomes available.

2.6. Hyper-V Management Network Configuration

This section describes configuration of the Hyper-V Management Network. *IP Addresses* and *Hostnames* used in this section are for example only. Refer to Section 2.4 for VMware Management Network Configuration.

Connect to System console. Attach a keyboard and monitor or use system IPMI KVM.



Launch the console, press **CTRL** + **ALT** + **DELETE** and enter the following credentials:

Username: administrator

Password: Stonefly1

Go to the **Control Panel** and select **Network and Internet** and then **Network and Sharing Center**.



Click on Change adapter settings from the left menu.

🍰 Java iKVI	M View	er v1.69 r.	4 [100.100.]	100.3 S	SL] - Re	solution	1024×7	768 - FPS	30	_	_					_		_			×
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-	م	([])	e	-	-													탄 4	12:09 4/26/	PM 2019	2

Right click on the appropriate management port and select properties. This will open the **Management Network Properties** window:



Left click on Internet Protocol Version 4 (TCP/IPv4) and then click Properties:

🔮 Netwo	rk Connections				- 🗆				
$\leftarrow \rightarrow$	🔹 🛧 😰 « Network and Inter	5 V	Search Network Connections	٩					
Qroanize		1	79			(
Metur	anagement Network Properties	×	X8 Port 2		Management Network				
INGLANC	olking Shanng		99 10 Gigabit Dual Por.	. *	Intel(R) Ethernet Connection X	722			
	Internet Protocol Version 4 (TCP/I	Pv4) Properties	×						
-	General								
Th E	You can get IP settings assigned a this capability. Otherwise, you nee for the appropriate IP settings.	utomatically if your network ed to ask your network admir	supports istrator						
	Obtain an IP address automa	itically							
E	IP address:	100 . 100 . 100 . 25							
	Subnet mask:	255 . 255 . 255 . 0							
	Default gateway:	100 . 100 . 100 . 153	5.						
- 0	Obtain DNS server address a	utomatically							
	• Use the following DNS server	addresses:							
	Preferred DNS server:	100 . 100 . 100 . 152	1			6			
	Alternate DNS server:								
	Ualidate settings upon exit	Adv	anced						
4 items						8==			

Assign static IP and DNS server addresses. Once you've assigned the values, click on OK.

Make sure to disable **Internet Protocol Version 6** from the **Management Network Properties** window by unchecking the box next to it.

Vetwork Connections	- 8
A structure of the s	Search Network Connections
Management Network Properties X8 Port 2	Management Network
Networking Sharing # network	dnfcorp.com
P9 10 Gigabit Dua Connect using:	al Por Intel(R) Ethernet Connection X722.
Intel(R) Ethemet Connection X722 for 10GBASE-T	
Configure	
This connection uses the following items:	
Glient for Microsoft Networks	
The and Printer Sharing for Microsoft Networks	
Internet Protocol Version 4 (TCP/IPv4)	
Microsoft Network Adapter Multiplexor Protocol	
Microsoft LLDP Protocol Driver	
Internet Protocol Version 6 (TCP/IPv6)	
< >>	
Install Uninstall Properties	
Description	
TCP/IP version 6. The latest version of the internet protocol that provides communication across diverse interconnected networks.	
UK Cancel	

After disabling IPv6, click OK. This completes the network configuration process.

2.7. Steps to Configure SCVM Management Port (Hyper-V)

In order to configure the SCVM Management port for Hyper-V, you need to access Hyper-V manager, you can do that from the **Server Manager** window. To access the **Server Manager** on your Hyper-V, click on the Windows Tab and then click on **Server Manager**, as shown below:



In the Server Manager dashboard, click on Tools and select Hyper-V Manager.



This will open the Hyper-V Manager with SCVM on it.

yper-V Manager	Waturd Machines						Actions				
DESKTOP-OSUG8BQ	Name	Date	CDUUIsses	Assigned Memory	Hatiana Status		DESKTOP-OSUG8BQ				
	SCVM	State	CPU Usage	Assigned Memory	optime status		Quick Create				
	Conr	ect					New				
	Settin	igs					🕼 Import Virtual Machine				
	Start						Hyper-V Settings				
	Chec	kpoint					Virtual Switch Manager				
	Mov						Virtual SAN Manager				
	Expo	t					🚄 Edit Disk				
	Rena	me					Inspect Disk				
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	checkpoints					U	SCVM_6.0.3.10				
	SCVM_8.0.3.10						Settings				
		astada 3	/12/2010 6-45-25	AM	Chustered: No		G Start				
	Co	nfiguration Version: 8	1.3		clustered. No		B Checkpoint				
	Ge	neration: 1					Move				
	No	tes: I	lone				Export				
							E Rename				

Right click on **SCVM**, and select **Connect** to access the user interface of the Virtual Machine. This will show a window like this:



Steps to use the pre-installed SCVM:

1. The SCVM management network interface is preconfigured with the default IP address of 192.168.0.254. This must be changed to a valid address for your LAN network. Login to the **SC Service** console using the Hyper-V "Virtual Console" for the SCVM by doing the following:

- a. Press Enter to display the login prompt.
- b. At the User ID prompt type **console** and hit **Enter**.
- c. At the password prompt type **coni100o** and hit **Enter**. Note that the User ID and password are case sensitive.

2. Using the SC Service menu, configure the management network by selecting option 2, for 2 -Network.



The default settings are shown below. Adjust settings as needed then save the changes.



Adjusted settings are shown below. Enter \mathbf{q} at the command prompt to exit back to the service menu. Enter \mathbf{q} again to exit out of the user console service.

Note: the browser access to the SCVM Management GUI is blocked while the **SC Service** menu is active. Also note that there can be a short delay before the SCVM GUI becomes available.

2.8 KVM Management Network Configuration

This section describes the configuration of the KVM management network. *IP Addresses and Hostnames* used in this section are for example only.

Connect to the system console and attach a keyboard and monitor or use system IPMI KVM (if supported).

To access the settings, enter the following credentials:

Login: root Password: Stonefly1!



Once connected, type **nmtui** and press **Enter**.



This will open the **NetworkManager TUI** window with three options. Select **Edit a Connection** from the three and press **Enter**.



From the list of Ethernet connections, select the respective management NIC port from the list, then select **Edit** from the right hand pane and press **Enter**.



In the Edit Connection window, go to the Addressess option, select Add and press Enter to type in the pre-configured IP address.

Edit Connection	
Prefile rem marginal	
Device enp96s8f8 (AC:1F:6B:BB:44:2E)	
- ETHERNET	<show></show>
 IPv4 CDMFIGURATION (Automatic) Addresses (Addresse) Gataway DNS servers (Add) Search domains (Add) Fonting (No custom roates) (Adit) I) Never use this metawark for default roate [] Ignore automatically obtained notes [] Ignore automatically obtained IMS parameters [] Ignore automatically obtained IMS parameters [] Bequire IPv4 addressing for this connection 	(Hide)
= IPv6 CONFIGURATION (Automatic)	<show></show>
[] Automatically connect [X] Ausilable to all users	
to number of all users	(Cancel) (PV)

After adding the IP address, select **Ok** and press **Enter** to close the **Edit connection** window.

This will complete the KVM management network configuration.



2.9 Steps to Configure SCVM Management Port (KVM)

To configure the SCVM management port, use the **Open Virtualization Manager** (oVirt) access the SCVM console by clicking on **SCVM** from the list.

= oVirt open vi	IRTUALIZATION MANAGER												я 🂊	≡* 4 * 6	- 1-
Dashboard	Compute > Virtual Machines		11.110									1000			
💼 Compute 🔿	Vins:		× n	a a		N	lew Edit	Remove	▶ Run × [Suspend	Shutdown v	C Reboot	insole v Mig	rate Create Snap	-3 < >
篇 Network >	Name	Comment Host	IP Addresses 100.100.100.219 f.	FQDN kvmengine.sg.com	Cluster Default	Data Center Default	Memory	CPU	Netwo	k Graphics 0% SPICE + V.	Status Up	Uptime 5 days	Description Hosted engin	e VM	
🗃 Storage >	SOM	SCVM kvmsg WinServer kvmsg	172.17.42.1 192.1 100.100.100.70 fe	SC-100-100-100-2.	Default Default	Default Default		814	1%	0H SPICE + V	_ Uρ _ Uρ	5 days 57 min	SCVM WinServer		
Administration >															
▶ Events															

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Conput of the Head-Hearface: Disk for parked application. Contractor: Head-Hearface: Disk for Parket Application. Contractor: Head-Hearfac	👘 Dashboard	Compute > Virtual Machines > SCVM	-		Edit Remove Plan v	5, Suspend Shutdown × CReboot	Consoler - Create Snallshot Migrate
Interim Cold Determine Data Munop Data Munop Data Munop Data Munop Data Munop Data Munop Mathematic Image: Image	📋 Compute >	General Network Interfaces Disks	Snapshots Applications	Containers Host Devices Vm Devices	Affinity Groups Affinity Labels	Guest Info Permissions Errata	Events
Image: Image	∰ Network →	Name: Description: Template: Descator System:	SCVM SCVM Bank Red Hat Enterorise Linux 6.4 ad4	Defined Memory: Physical Memory Guaranteed Guest OS Memory Free/Cached/Buffered Number of CPU Cares:	16384 MB 16384 MB 1390 / 60 / 587 MB 434(1)]	Origin: Sun Dr: Custom Properties: Cluster Compatibility Version:	aVirt kving Configured 4.3
A Addebuokin 2 Image Law Material Muturing 1 PORe 10.100 Muturing 2000 Muturing 1 PORe 10.100 Muturing 2000 Muturi	🗐 Storage >	BIDS Type: Graphics protocol: Video Tuno	Default SPICE + VNC DVL	Guest CPU Count: Guest CPU Type: Hinthy Austability	4 Skylake Server, #spec.ctrl, #ssbd, #md-cle. Na	VMID:	d6f332cc-29154abb-b212-78aabcf5a485
pe cores	Administration >	Priority: Optimized for:	Law Server	Number of Monitors: USB Policy: Created By:	1 Disabled admin	FQDN: Hardware Clock Time Offset	SC-100-100-250 example.com Eto/GMT
	₱ Events						

Click on the Console button in the top right corner; this will open a Save As window.

C Save As			0 11
Computer + Local Diak (C) + Temp	• 4 Search Temp P	P	A :
Organize 🕶 New folder	a • 0	a.	-
Image: Second		R 🗣 🏛 & O	• 4 •
R Desktop			
Car Literaries		Im Devices Affinity Groups Affinity Labels Guest Info Permissions Errata Events	
		16384.M0 Organ oVint 16384.M0 Run Dni 16394.M0 Run Dni 1000 Configured 1000 CONTROL Configured Configured Configured	
File name: Save as type: [VirtUnewer connection file (".vv)	*	A (4.11) Cluster Compatbility Version: 4.3 4 A MD: MMD: MS22cc 2911 4abb 6212-78aabdr6a	s485
Hide Folders	Save Cancel	10 FOR SC100.100.100.250.exemple.com 1 PODe SC100.100.100.250.exemple.com Duabled Hardware Evol Time Offset	
<u>/* toros</u>			

Type in a filename and download the SCVM **SC Service Menu** utility. Note: this process repeats each time you need to access the SCVM **SC Service Menu**.

=	oVirt	OPEN VIR	TUALIZATIO	ON MANAGER		1	10	~	R & 20 A° 0- 1-
			Comput	SCVM1-Remote Viewer File View Send key Help		Edit	Remove Ron ×	G Suspend Shutdown - Ct	Reboot Console - Create Snapshot Migrate 1
	Comput		Gener	StoneFly Storage Concentrator System Name: SC-100-100-100-250 IP: 100.100.100. Browse to <u>INTERCENTION CONCENT</u> for the Graphica Do the CPT memory of the Starburger of the Graphica	258 Version: 8.8.4.18 vices	s Afflinity Group	s Affinity Labels	Guest Info Permissions E	irrata Events
			Nan Des Terr	The GUI will be disabled while the Console Servic Powered by StoneFly - Copyright (c) 2002-2019. Al SC-100-100-100-250 login:	e Menu is in use. I Rights Reserved.	16384 MB 16384 MB 13960 / 60 / 5 274-1-11	187 MB	Origin: Run Dr: Custom Properties: Custom Properties:	oVet Kvinsg Configured 4-3
			BID: Gra Vide			4 Skylake-Serve No	er, i spec-ceri, i ssbd, i mó c	VM ID: lear	d6f332cc-2911-4abb-b212-78aabc/6a485
			Prio Opti			1 Disabled admin		FQDN: Hardware Clock Time Diffset	SC 100-100-250 example.com Etc/GMT

Login to the SC Service console:

- a. At the login prompt type **console** and hit **Enter**.
- b. At the password prompt type **coni100o** and hit **Enter**. Note that the User ID and password are case sensitive.

2. Using the SC Service menu, configure the management network by selecting option 2, for 2 -Network.



The default settings are shown below. Adjust settings as needed then save the changes.



Adjusted settings are shown below. Enter \mathbf{q} at the command prompt to exit back to the service menu. Enter \mathbf{q} again to exit out of the user console service.

Note: the browser access to the SCVM Management GUI is blocked while the **SC Service** menu is active. Also note that there can be a short delay before the SCVM GUI becomes available.

2.10 Configuring the SCVM

Note: The process of SCVM configuration is the same for Hyper-V and VMware hypervisors. Launch a browser then navigate to https://<configured IP address>.

		STON	NEFLY		
	Username				
	Password				
		La	gin		
		Lice	nsing		
System Name SC-192-168-100-33		System UUIE 564D9DAC-C) 0C9-8B8C-B12C-	80F5BA2E4D12	Vendor Serial Number 00:0C:29:2E:4D:12
Licensed Feature Name				License Key	
StoneFusion Base OS		SC-192-168-10	00-33	Subscr #1 - 369 day	/s left
		SC-192-168-10	0-33		
		SC-192-168-10	00-33	U-XXXJ6-GQP5A-X	2TQS-XALO2-369-001
		Undo	Submit		
		License /	Activation		
		Product Key	xxxxxx-xxxxxx	xx-xxxxxxx-xxxxxxx-xxxxxxx-	α

DR365V Login Screen

- 1. In the User ID field type: admin
- 2. In the Password field type: M@n4g1ng
- 3. Click Submit. The Home Page screen will appear.
- 4. Click System.
- 5. Click Admin.
- 6. Click Auto Save. The Auto Save screen will appear.

STONEFLY	INFORMATION ADM	IN NETWO	DRK DIAGNOS	TICS NOTIFIC	ATIONS UPS	USERS			0
ADMINISTRATOR	General	ISNS	Auto Save	Restore	FailOver	Licensing	System Monitoring	NAS Server	DNS Server
₽ [®] Expand All				Auto Sa	ave to Remote FTP	Server			
Darbhoard					Enable	Auto Save to Rem	note FTP Server		
Damboard					IP Address				
SAN									
					User Name				
NAS					Password				
Resources									
					Directory .				
System				Ter	Passiv	e			
Information				114	Non P	assive			
General					Status N/A				
SNS ISNS				Auto	o Save to Local De	vice			
Auto Save					🕑 Enab	le Auto Save to Lo	ocal Device		
FailOver									
Licensing					Device USB Fla	sh Disk		•	
NAS Server					Status N/A				
DNS Server					Submit / Backup				
Network Disconstice						— Васки	p ror opgrade and Shu	uown	
Notifications				Copyright© 2002-	2018 StoneFly, Inc. A	II Rights Reserved			
UPS									
Users Users									

DR365V System Auto Save Screen

- 7. Select method(s) of saving the database. A USB Flash drive must be inserted into the USB port prior to Enabling. Checkmark Enable Auto Save to Local Device and select USB Flash Disk from the dropdown menu. Click Submit. For Auto Save to Remote FTP Server create a directory for each Storage Concentrator. Fill in the IP Address, User Name, Password and directory. Select Passive or Non Passive and click Submit. Both methods can be used, but at least one should be configured to ensure recovery if needed.
- 8. Navigate to Admin > General. The system admin screen will appear.



DR365V System Admin Screen

- 9. Enter a system name for the *DR365V*.
- 10. Enter the number of log records for the database in the Max number of logs field.



The default number of log records is 2000, which is sufficient for most installations.

- 11. Click Submit.
- 12. Navigate to **Network > Data Port**. The Local iSCSI Data Port Settings screen will appear with the current system (factory) settings. Most fields are blank.

STONEFLY	INFORMATION ADMIN NETWORK DIAGNOSTICS NOTIFICATIONS UPS USERS	⊘ Help
ADMINISTRATOR	Local ISCSI Date Port Management Port Routing	
₽ Expand All	Local iSCSI Data Port Settings	
Dashboard	Use Jumbo Frames	
	Local Host ISCSI Listening Port 3260	
Þ 🛢 SAN	Local Host GbE IP Address	
Þ 📰 NAS	Net Mask 255.255.255.0	
Resources	Advanced: Network/Broadcast	
System	Undo Submt	
Admin Admin	Network Interfaces	
T Data Port	Id Port IP Address / Network MAC Address Lnk Cur Speed Dupl Type Max Speed	Stats
Management Port	1 00:0c:29:55:ad:9b Down e1000 1Gb/s	Stats
Diagnostics Notifications	Ping Address	
U UPS Users	Ping Address Count 5	Ping
▷ 📄 Reports		
	Copyright© 2002-2018 StoneFly. Inc. All Rights Reserved.	

DR365V Local iSCSI Data Port Settings Screen

- 13. Enter the **IP Address** for the Local iSCSI Data Port.
- 14. Enter the **NetMask** setting for the Local iSCSI Data Port.
- 15. Click Submit.
- 16. Click **OK** to continue when the confirmation dialog box appears. The *DR365V* automatically configures the Network and Broadcast settings based on the IP address and Netmask settings. Click on the **Advanced: Network/Broadcast** link to view or modify the Network and Broadcast settings. For more information, see "Chapter 2: Administrative Interface" in the Storage Concentrator User's Guide.
- 17. Review the status of all SAN Network Interfaces to select which ports will be used. It is not necessary to select all available ports. All ports selected must have cables attached to them to maintain the proper cluster configuration and operation. The **Id** button is used to flash the link light on a specific port. Select a port by clicking on the box in the **Bond** column. Changes are not enforced until the next reboot. At first power up a default

configuration is presented. Changing the default settings requires a reboot of the Storage Concentrator. Navigate to the **System > Admin > General** screen and click on **Reboot**. If no changes are desired continue to the next step to configure the Management Port.

18. Click on Management Port. The Management Port Settings screen will appear.

STONEELY	INFORMATION ADM	IN NETW	ORK DIAG	NOSTICS NOTIFIC	ATIONS	UPS US	ERS			⊘ Help
			_							
ADMINISTRATOR	Local iSCSI Data Port	Management	Port F	Routing						
✓ ^a Expand All					Default Ga	ateway				
2 Dashboard				Defau	ft Gateway	192.168.1.1				
▶ S SAN				Man	agement P	ort Settings				
					Use DHCP [
NAS					IP Address	192.168.1.254				
Resources					Net Mask	255.255.255.0				
4 📮 System					A	dvanced: Networ	k/Broadcast			
Information ▲ Admin Metwork					Undo	Submit				
▼ Data Port Management Port				Ĭ	Network In	terfaces				
Routing	Id	Port	IP Address	MAC Address	Link	Cur Speed	Duplex	Туре	Max Speed	Stats
Diagnostics A Notifications UPS	id	0	192.168.1.254	00:0c:29:55:ad:91	Up	1Gb/s	Full	e1000	1Gb/s	Stats
Users					Ping Add	dress				
▷ 📄 Reports	Ping Address					Count 5			•	Ping

DR365V Management Port Settings Screen

- 19. Enter the **Default Gateway** setting.
- 20. Enter the **IP** Address for the Management port.
- 21. Enter the **NetMask** setting for the Management port. It is not necessary to select a Management Port as on the Local iSCSI Port screen. There is only one port assigned for this purpose.

The *DR365V* automatically configures the Network and Broadcast settings based on the IP address and Netmask settings. Click on the **Advanced: Network/Broadcast** link to view or modify the Network and Broadcast settings. For more information refer to "Chapter 2: Administrative Interface" in the Storage Concentrator User's Guide.



Changing the IP address of the Management port will cause your browser to lose its connection to the *DR365V*. To access the *DR365V*, set your browser's URL to point to the new IP address.

22. Click Submit. The following popups will appear.



Depending on the speed of your browser connection, you may not see this screen. Your changes will still take effect, however you will need to manually set your browser's URL to point to the new IP address.

192.168.100.81 says:	×
Automatically calculated values: Network = 192.168.100.0 Broadcast = 192.168.100.255 If other values are required, please use the advanced feature.	
ок]
192.168.100.81 says:	×
The Management LAN and iSCSI SAN IP addresses are on the same network. This is not recommended. iSCSI SAN traffic should normally be kept off of the LAN. The SAN should be a small, secure, and self contained network with SAN specific high speed network interfaces. Allowing iSCSI traffic to flow on the LAN may impact performance of, and destabilize both the LAN and SAN. There are cases (e.g. no true LAN network exists) where this configuration can make sense. Note that SC Failover Clusters are currently not supported in this network configuration. Do you wish to continue? OK Cancel	
192.168.100.81 says:	×
This changes access to the system. Are you sure you want to continue?	
If so, please give the system a few moments to complete the update before trying to re-access the system.	
The new address to access the system is at https://192.168.100.81	
OK Cancel]

System Management LAN Port Change Screen

- 23. Click on **OK** on each popup screen to continue.
- 24. Click on the new IP address to confirm the change to the Management Port setting.

Setting up Routing

To access a host on other networks, routing information to those networks must be configured in the System Management Network Routing screen. A route must be added if the host has a network setting that is different from the one listed in the iSCSI Host LAN Port Settings screen.

For example, if the *DR365V* network setting is 26.34.128.50 and the host network setting is 106.39.212.6, a route to the host must be configured.

To configure the routing information, use the steps that follow:

1. Navigate to **System > Network > Routing**. The Routing screen will appear.

CTONICCIV	INFORMATION ADMIN NETW		NOTIFICATIONS UPS US			🛛 Hel
stonefly ADMINISTRATOR				- 1. 4		
₂ª Expand All	Local ISCSI Data Port Management P	ont Routing	Current Route Settings			
B Dashboard	Route	Network	Net Mask	Gateway	Device	Add / Delete
	1	192.168. 1. 0	255.255.255.0	×	LAN	N/A
SAN	2	default	0.0.0.0	192.168.1.1	LAN	N/A
NAS	Add New Route				SAN	🗌 Add
Resources			Undo Submit			
System			Ping Address			
Information Admin Admin	Ping Address		Count 5		×	Ping
V Data Port Management Port Management Port Mouting O Diagnostics Votifications UPS UPS		Copyright© 200	2-2018 StoneFly, Inc. All Rights Reserved			

DR365V System Management Network Routing Screen

- 2. In the Add New Route fields, enter the Network, Netmask, and Gateway settings for the new route.
- 3. Click the **Add** check box.
- 4. Click Submit.
- 5. Navigate to Admin > General. The System Admin screen will appear. The DR365V must be rebooted for the new routing settings to be recognized.
- 6. Click **Reboot**.

Confirming Setup

To confirm that the *DR365V* is configured properly, do the following:

1. Launch your web browser. In the URL address field, type the IP address you set up for the Management LAN port during the configuration process. Be sure to include https:// in the address.

The browser will display an alert regarding the security certificate for the site. This occurs because the IP address for the DR365V was changed from the factory default to one appropriate for your network.

- 2. Follow the screen prompts to accept the certificate. The number of screens will vary depending on which browser you are using. When the security certificate is accepted, the *DR365V* administrative interface login screen will appear.
- 3. Click on **System** and then **Network** to confirm the network settings.
- 4. Click on **Data Port** and confirm the settings.
- 5. Click on **Management Port** and confirm the settings.
- 6. Click on **Routing** and confirm the settings.

2.11 Configuring the Veeam Management VM



The Windows VM that will be used for Veeam Management cannot exist until the initial cluster is configured and a datastore provided. Your StoneFly engineer will walk you through the process.

Once you've configured the IPMI, SCVM, VMware, and cluster, you can create the Windows server VM that will run the Veeam Backup & Replication management software on the DR365V-HA appliance. Your StoneFly engineer will walk you through the process during initial setup. Once the Windows VM is created, you must perform the following three step process:

- Setting a static IP address on the Veeam Management VM.
- Enabling RDP (Remote Desktop Protocol) on the Veeam Management VM.
- Accessing the Veeam Management VM using RDP.

2.11.1 Assigning a Static IP Address to the Veeam Management VM

Log into the Veeam Management Virtual Machine (VM) using **VMware remote console** and click on the **Start** button. Open the **Control Panel** from the taskbar.



In the Control Panel, click on View Network Status and tasks under the Network and Internet applet.



Find and click on Change Adapter Settings in the menu on the left.

Control Panel Home V	View your basic network information and set up connections					
Vi Change adapter settings	ew your active networks					
Change advanced sharing settings	Network Public network	Access type: Internet Connections: I Ethernet				
C	hange your networking settings					
	Set up a new connection or network Set up a broadband, dial-up, or VPN connection	on; or set up a router or access point.				
	Troubleshoot problems Diagnose and repair network problems, or get	t troubleshooting information.				

In the window that appears, right-click on your network connection and click on Properties.



This should open the Ethernet Properties window.

Remove the checkmark for Internet Protocol Version 6 (TCP/IPv6) to disable it.

Ethernet Properties	>
Networking	
Connect using:	
Intel(R) PRO/1000 MT Network Connection	
Configure.	
This connection uses the following items:	
	< >
Description Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.	

Select Internet Protocol Version 4 (TCP/IPv4) by left-clicking it once and then click on Properties.

	Microsoft Hyper	-V Network Adapter	г	
			C	onfigure
This co	onnection uses t	the following items:		
V .	Client for Mic	rosoft Networks		^
V 🖉	File and Print	er Sharing for Micro	soft Network	s
V 🖉	QoS Packet	Scheduler		
	Internet Proto	col Version 4 (TCP.	/IPv4)	
	Link-Layer To	pology Discovery N	Mapper I/O D	Driver
	Microsoft Net	work Adapter Multip	plexor Protoc	ol
	🛓 Microsoft LLE)P Protocol Driver		~
<				>
	Install	Uninstall	Pr	roperties
	della a			
Desc	mpuon			
- Desc Trar	nption Ismission Contro	Protocol/Internet	Protocol. The	e default

Select Use the following IP address and assign a custom IP address to this server, the Network Mask, Default Gateway, and the DNS IP address.

Internet Protocol Version 4 (TCP/IPv4)	Properties	×
General		
You can get IP settings assigned autom this capability. Otherwise, you need to for the appropriate IP settings.	natically if your network supports ask your network administrator	
Obtain an IP address automatical	у	
• Use the following IP address:		
IP address:	192.168.1.2	
Subnet mask:	255.255.255.0	
Default gateway:	192.168.1.1	
Obtain DNS server address autom	atically	
• Use the following DNS server addr	resses:	
Preferred DNS server:	8.8.8.8	
Alternate DNS server:	8.8.4.4	
Validate settings upon exit	Advanced	
	OK Cance	ł

2.11.2 Enabling RDP on the Veeam Management VM

Open the Server Manager on the Windows VM. By default, the Server Manager should open when you log in to the GUI. You can also select it from the taskbar.

In the **Server Manager** window, click **Local Server** in the left pane. This may take several minutes to open the desired window.

Once the window opens, you should see that the Remote Desktop (RDP) is disabled.

🚡 Server Manager			- 🗆 X
Server Ma	anager • Local Sei	rver - 🕫 I	Manage Iools View Help
🗰 Dashboard	PROPERTIES For WIN-LV2BNP3L9VO		TASKS 💌
Local Server All Servers File and Storage Services	Computer name Workgroup	WIN-LV2BNP3L9VO WORKSROUP	Last installed updates Windows Update Last checked for updates
	Windows Firewall Remote management Remote Desktop NIC Teaming Ethernet0	Public: On Enabled Disabled Disabled IPv4 address assigned by DHCP, IPv6 enabled	Windows Defender Windows Error Reporting Customer Experience Improvement Pro IE Enhanced Security Configuration Time zone Product ID
	Operating system version Hardware information	Microsoft Windows Server 2016 Technical Preview 4 VMware, Inc. VMware Virtual Platform	Processors Installed memory (RAM)

Click on **Disabled**, this should open the **System Properties** window. Left-click on the **Remote** tab and check the **Allow remote connections to this computer** option.

Also uncheck the Allow connections only from computers running Remote Desktop with Network Level Authentication (recommended).

System Propertie	es					×
Computer Name	Hardware	Advanced	System P	rotection	Remote	•
Remote Assist	ance					
Allow <u>R</u> em	ote Assistan	ce connectio	ns to this c	omputer		
				Ad	vanced.	
Remote Deskt	top					
Choose an op	tion, and the	n specify who	can conn	iect.		
O <u>D</u> on't allow	v remote con	nections to th	nis compute	er		
Allow remo	te connectio	ns to this cor	nputer			
Allow co Deskto	onnections o p with <u>N</u> etwo	nlyfrom com ork Level Auth	puters runn nentication	ing Remot (recomme	te inded)	
Help me choo	<u>se</u>			<u>S</u> ele	ect Users	š
·		OK		Cancel		<u>A</u> pply

When you select the **Allow remote connections to this computer** option, a warning message should appear, as shown in the image below. Select **OK** to proceed.

Remote D	Desktop Connection	×
<u>^</u>	Remote Desktop Firewall exception will be enabled You chose to enable Remote Desktop Connection for all network connections on this computer.	
	To enable it for selected network connections, open Windows Firewall with Advanced Security	
	ОК	

You can now create specific user groups with permissions to connect to the server via Remote Desktop. To do so, click on **Select Users** and type in the relevant credentials of the users.

After you've enabled **Remote Desktop**, the **Server Manager** might still display **Disabled**. Refresh the window and wait a few minutes, it should change to **Enabled**.

2.11.3 Accessing Windows Server hosting Veeam

On any Windows machine, search **Remote Desktop Connection** in the taskbar and click on **Remote Desktop Connection**. This should open a window like this:

•	Remote Desktop Connection 📃 🗖 🗙
	Remote Desktop Connection
Computer: User name:	Example: computer.fabrikam.com
The compute name.	er name field is blank. Enter a full remote computer
Show C	Options Connect Help

In the **Computer** text field, type in the IP address you specified in Section 2.8.1 for the IP address of Veeam Management VM and click **Connect.**

The system should prompt you for a username and password. Type in the credentials you created in the last section and click **OK** to start the RDP session.

Windows Security		×
Enter your cre These credentials	edentials will be used to connect to 192.168.1.146.	
8	Jser name Password omain:	
🗌 Rememb	er my credentials	
	OK Cance	I

Once the RDP connection is established, you should be able to access the Veeam management software by double-clicking the **Veeam Backup & Replication** icon.

ycle Bin			
	Veeam Backu	ID & Replication 9.5	
	Veeam Backu Type in a backup server and user credentials to locathost	name or IP address, backup service port number, connect with.	
	Veeam Backu Type in a backup server and user credentials to localhost DeskTOP-OSUG882()+	p & Replication 9.5	
	Veeam Backu Type in a backup server and user credentials to localhost DeskTOP-OSUG882()+ Password	name or IP address, backup service port number, connect with.	
	Veeam Backu Type in a backup server and user credentials to localhost DesktOP-OSUG880()h Password V Use Windows sessio	name or IP address, backup service port number, connect with.	

Additional Configuration and System Management

For additional information regarding the configuration and use of the StoneFly Storage Concentrator Virtual Machine, please consult the StoneFly Storage Concentrator User Guide from the included documents CD.

For additional information regarding the configuration and use of the Veeam Backup & Replication software, please consult the Backup, Replication and Data Recovery User Guide from the included documents CD or follow the link below:

https://helpcenter.veeam.com/docs/backup/vsphere/overview.html?ver=95u4

For additional information regarding the configuration and use of the VMware vSphere Hypervisor, please consult the VMware website.

Technical Support

For further support, please call technical support at 1-510-265-1616 option 3. Or send email to technical support at <u>Support@StoneFly.com</u>.

Chapter-3: Troubleshooting

Refer to the following table for helpful hints on solving some of the most common problems. If you cannot find a resolution to your problem here, contact StoneFly. Call (510) 265 1616 and select support from the menu.

Problem	Possible cause	Solution
The DR365V administrative interface is not accessible from the computer.	The computer is not on the network.	Ensure that the computer is running a supported browser and is on the same network or subnet as the DR365V.
	An incorrect IP address was typed in the address line of the browser.	 Try the following: Verify and retype the IP address in the browser. Make sure the IP address begins with https. The IP address does not begin with http.
	Incorrect network settings were entered during installation.	For the correct settings, see "VMware Management Network Configuration".
	The network cable is not properly connected to the computer or the USO.	 Try the following: Check all network cable connections. Make sure the network cable is not damaged.



Eden Landing Road, Hayward, CA 94545, USA. (510) 265 1616 support@stonefly.com