Setup Guide

DR365V-HA

Veeam-Ready Backup & Disaster Recovery Appliance

2x 2U Backup Controllers

16-bay 3U HA RAID Array

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Chapter-1: Introduction

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1.1 *Introduction*

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

The StoneFly DR365-HA combines high availability with backup and disaster recovery to ensure hyper-availability for enterprise mission-critical workloads. Leverage StoneFly's battle-tested technology and consolidate all of your server and backup systems into one easy to manage, simple-to-use and highly available 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 on the included CD.

StoneFly Resource Library:

https://stonefly.com/resources

The StoneFly SCVM™ Webpage:

https://stonefly.com/hyper-converged/scvm-virtual-storage-appliance

Veeam Backup & Replication User Guide for VMware:

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

Veeam Backup & Replication User Guide for Hyper-V:
https://helpcenter.veeam.com/docs/backup/hyperv/overview.html?ver=95u4

Each StoneFly DR365V-HA comes preconfigured with VMware vSphere or Microsoft Hyper-V hypervisor on each cluster node, a StoneFly SCVM™ Virtual Storage Controller on each cluster node, and Veeam's Backup and Replication Software running on a second VM. Additional Virtual Machines can be installed on the DR365V-HA as needed as long as adequate processing cores and system memory are available to support those VMs. Contact your StoneFly sales representative for details.

StoneFly DR365V-HA is made of three or more parts: Two Hyperconverged StoneFly Storage Concentrator (SC) appliances and one or more StoneFly HA RAID Storage Expansion Arrays.

StoneFly DR365V-HA supports the following backup controller appliances:

- Dual 1U Backup Controller, Quad 12Gb SAS Connection
- Dual 2U Backup Controller, Quad 12Gb SAS Connection
- Dual 1U Backup Controller, Quad 16Gb FC Connection
- Dual 2U Backup Controller, Quad 16Gb FC Connection

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DR365V-HA 2U Backup Controller (with bezel)

The StoneFly DR365V-HA can be configured with the following StoneFly HA RAID Storage Expansion Arrays:

- 12-bay / 2U 12Gb SAS HA RAID Storage Expansion Array (12 x 3.5” SAS drives)
- 16-bay / 3U 12Gb SAS HA RAID Storage Expansion Array (16 x 3.5” SAS drives)
- 24-bay / 4U 12Gb SAS HA RAID Storage Expansion Array (24 x 3.5” SAS drives)
- 24-bay / 2U 12Gb SAS HA RAID Storage Expansion Array (24 x 2.5” SAS drives)

- 12-bay / 2U 16Gb FC HA RAID Storage Expansion Array (12 x 3.5” SAS drives)
- 16-bay / 3U 16Gb FC HA RAID Storage Expansion Array (16 x 3.5” SAS drives)
- 24-bay / 4U 16Gb FC HA RAID Storage Expansion Array (24 x 3.5” SAS drives)
- 24-bay / 2U 16Gb FC HA RAID Storage Expansion Array (24 x 2.5” SAS drives)

StoneFly HA RAID Storage Expansion Arrays can be connected to the following StoneFly HA Expansion Units:

- 12-bay / 2U 12Gb SAS HA Expansion Unit (12 x 3.5” SAS drives)
- 16-bay / 3U 12Gb SAS HA Expansion Unit (16 x 3.5” SAS drives)
- 24-bay / 2U 12Gb SAS HA Expansion Unit (24 x 2.5” SAS drives)
- 60-bay / 4U 12Gb SAS HA Expansion Unit (60 x 3.5” SAS drives – one drawer)
- 60-bay / 4U 12Gb SAS HA Expansion Unit (60 x 3.5” SAS drives – two drawers)

24-bay / 4U 12Gb SAS HA RAID Storage Expansion Array

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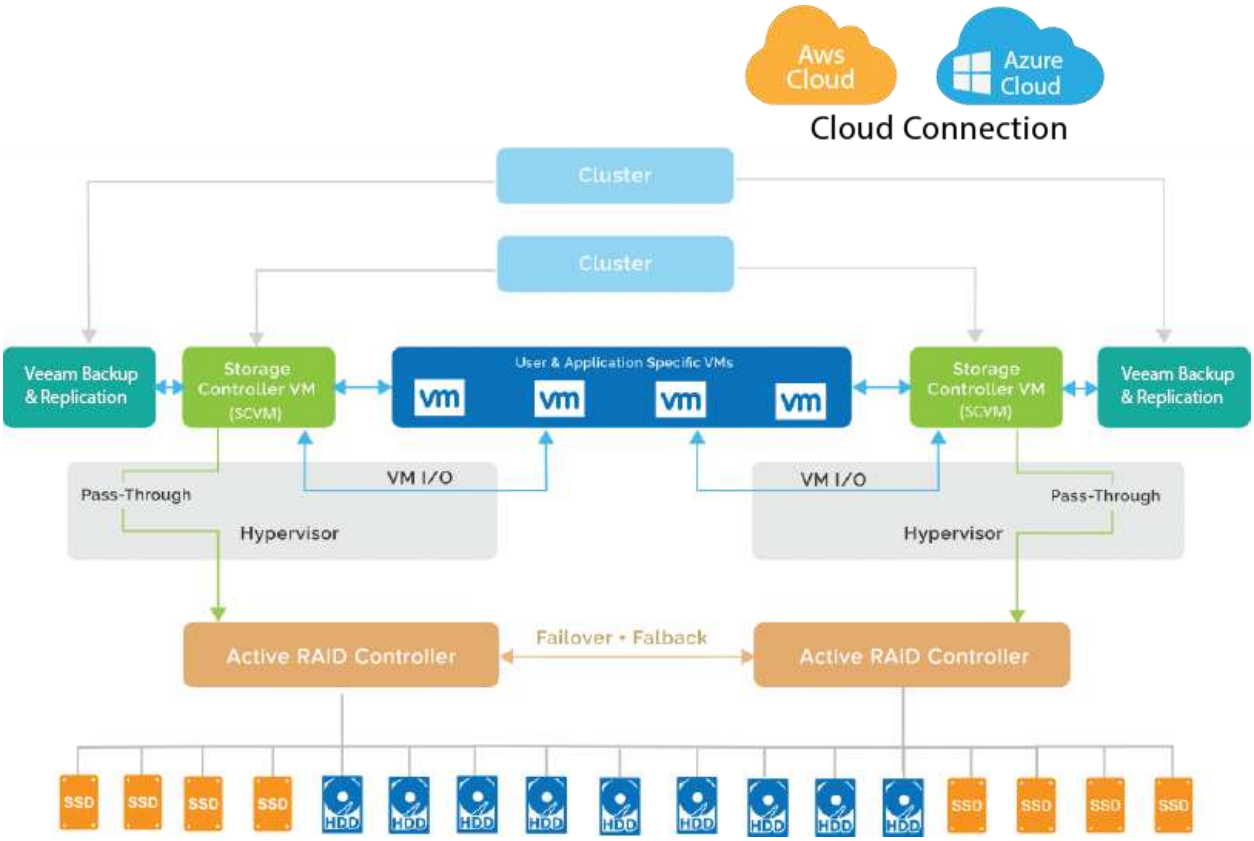
1.1.1 Icons

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

1.1.2 System diagram and description

The figure below is a network interconnection diagram for the StoneFly DR365V-HA appliance. It consists of two StoneFly hyperconverged Storage Concentrator (SC) cluster nodes. The diagram also includes shared a StoneFly HA RAID Storage Expansion Array with dual active-active hardware RAID controllers with failover and failback.



StoneFly DR365V-HA Network Interconnection

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1.1.3 Product Registration

To initiate StoneFly customer service for your product, you must first register the appliance. Send us an email with the following information:

Model Number: _____ _____

Serial Numbers: Your appliance serial numbers start with D500 and are located on the rear of each chassis.

1.1.4 Contacting StoneFly for Help

Please have the following information available when contacting StoneFly technical support for assistance:

Model Number: _____ _____

Serial Number(s): D500 _ _ _ _

Software Version: _____ _____

Initiators: _____ _____

Storage: _____ _____

To contact StoneFly call 510.265.1616 (Select support from the menu). Our technical support is available 24 hours a day and 7 days a week. You can also contact us via email at support@stonefly.com

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Chapter-2: Initial Installation

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2.1 Mounting the Equipment

The DR365V-HA appliance is comprised of at least two StoneFly hyperconverged SCs and one HA RAID Storage Expansion Array. Depending on which model you purchased, the interconnects between the SCs and the HA RAID Storage Expansion Array will be either SAS or FC. The SAS cables connecting the SCs with the HA RAID Storage Expansion Arrays and optional HA Expansion Units are short. When mounting the units, you should make sure that the units are rack mounted close to each other.

The following installation process describes how you can mount two 1U SC appliances and a standard 2U HA RAID Storage Expansion Array.

To ensure proper installation and functionality of the StoneFly appliance, please observe the following warnings:

- Wear an anti-static wristband before and during the installation procedure.
- It is recommended to plug the system into two different power sources (eg. into a power outlet and another into a UPS).
- Ensure the rack which the enclosure will be mounted onto has proper grounding and over-current protection.
- Do not obstruct ventilation openings; provide 20cm of free space at the front and back of the enclosure for air circulation; keep the ambient temperature below 35 degrees Celsius.

2.1.1 *Required Networks and Static IP Addresses*

Following is a list of static IPs & networks required for a DR365V-HA setup (with VMware ESXi).

Networks Required for a DR365V-HA Setup (with VMware ESXi):

- Management Network (1Gbps or 10Gbps)
- Data Network (10Gbps or Higher)

Note: Both of the above listed networks should be separate i.e. they should be on different VLANs and should have different IP Ranges.

List Of Static IPs for a DR365V-HA Setup (with VMware ESXi):

Head-Unit/Compute-Node-1 (Backup Controller):

- Static IP on the Management Network for the IPMI Port
- Static IP on the Management Network for the Management Port
- Static IP on the Data Network for the Data Port

Head-Unit/Compute-Node-2 (Backup Controller):

- Static IP on the Management Network for the IPMI Port
- Static IP on the Management Network for the Management Port
- Static IP on the Data Network for the Data Port

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RAID Array (Shared Storage):

- Static IP on the Management Network for the Management Port

SCVM HA Cluster:

- Static IP on the Management Network for the Cluster iSCSI Management IP Alias (Floating IP)
- Static IP on the Data Network for the Cluster iSCSI Data IP Alias (Floating IP)
- Static IP on the Management Network for the Cluster NAS Management IP Alias (Floating IP)
- Static IP on the Data Network for the Cluster NAS Data IP Alias (Floating IP)

ESXi Failover HA Cluster:

- Static IP on the Management Network (Floating IP)
- Static IP on the Data Network (Floating IP)

High Availability (HA) VMs:

- Static IP on the Management Network for the Veeam Windows VM
- Static IP on the Data Network for the Veeam Windows VM
- Static IP on the Management Network for the File Level Immutable Gateway
- Static IP on the Data Network for the File Level Immutable Gateway

Number of IPs Required on the Management and Data Networks for a DR365V-HA Setup (with VMware ESXi)

- Required Management Network IPs: 10
- Required Data Network IPs: 7

2.1.2 2U Backup Controller Rack Installation Instructions

This section provides information on installing the server into a rack unit with the rack rails provided. There are a variety of rack units on the market, so the assembly procedure may differ slightly. Refer to the installation instructions that came with your rack.

They rack may tilt and fall due to incorrect installation or placed on uneven grounds.

The rack must be placed in a flat surface before you begin to slide the system barebone in for servicing.

1. Pull the inner rail out of the slide rail until it clicks.
2. Detach the inner rail completely from the slide rail by pulling the white tab forward

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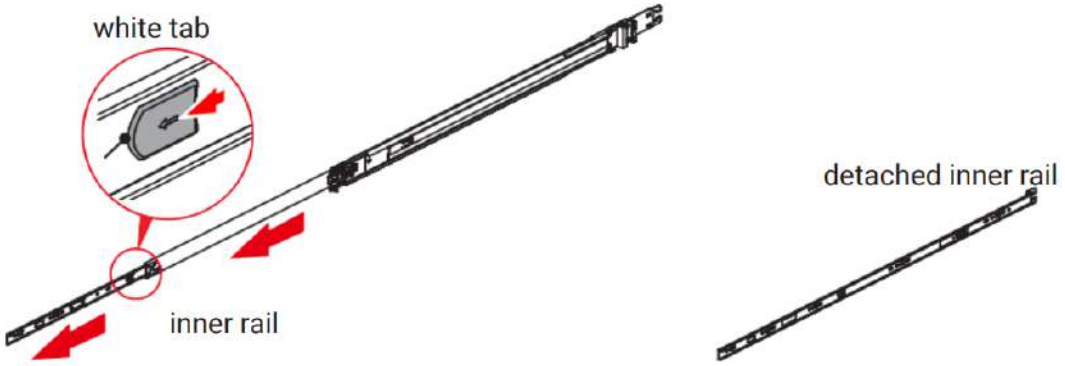

3. After the inner rail is dislodged, adjust the middle rail back to its original position by pushing the tab on the middle rail.

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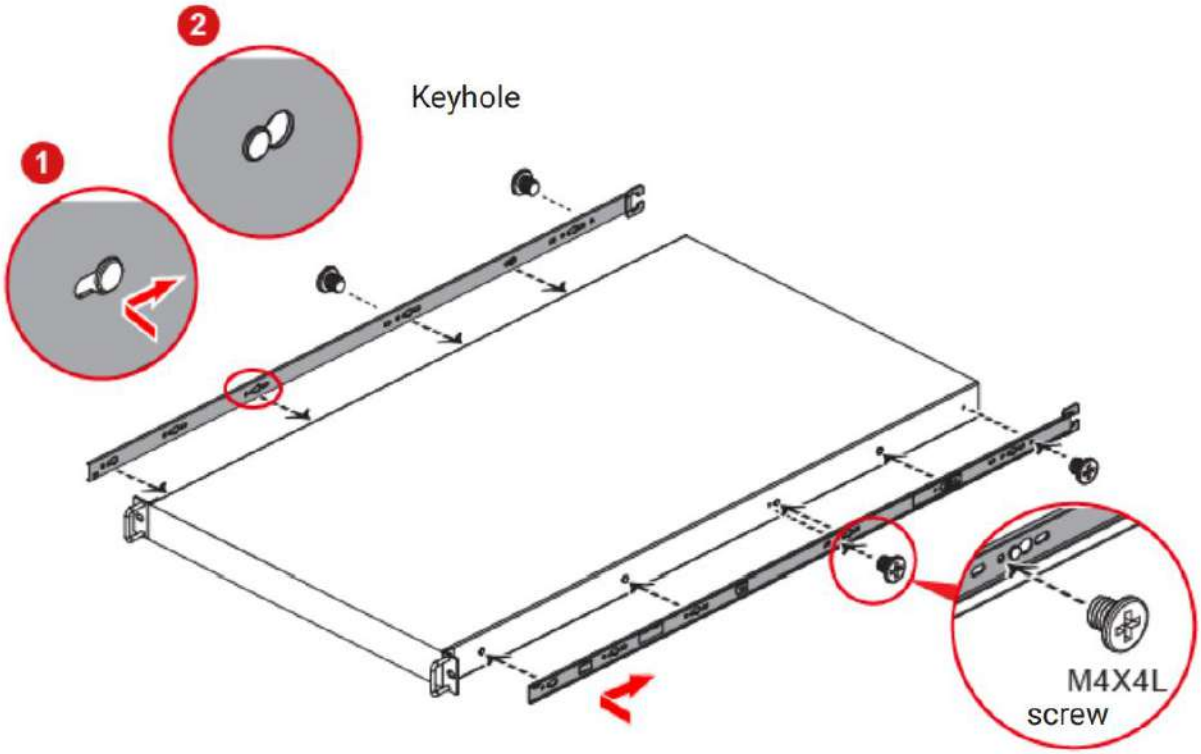
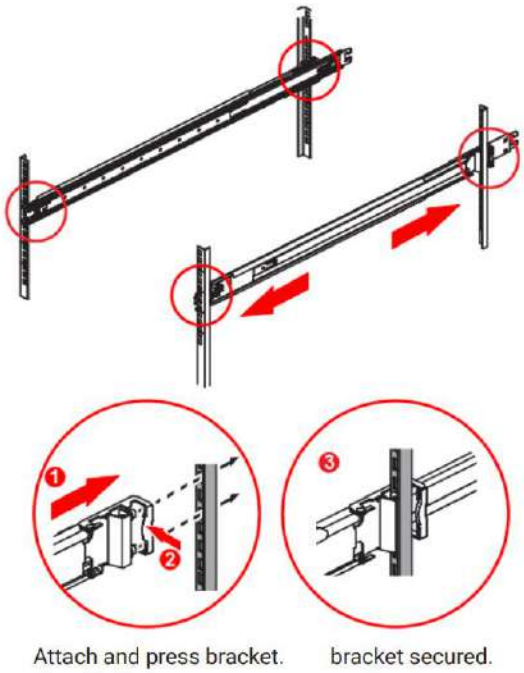
4. Install the inner rail onto the system barebone. Lock the keyholes and secure the screws.



5. Continue installing the outer rail bracket to the mounting frame. Attach the outer rail assembling to the frame and press the bracket to fix the rail onto the frame. Repeat to fully mount the bracket assembly.



6. Pull out the middle channel until the ball bearing retainer is locked forward.

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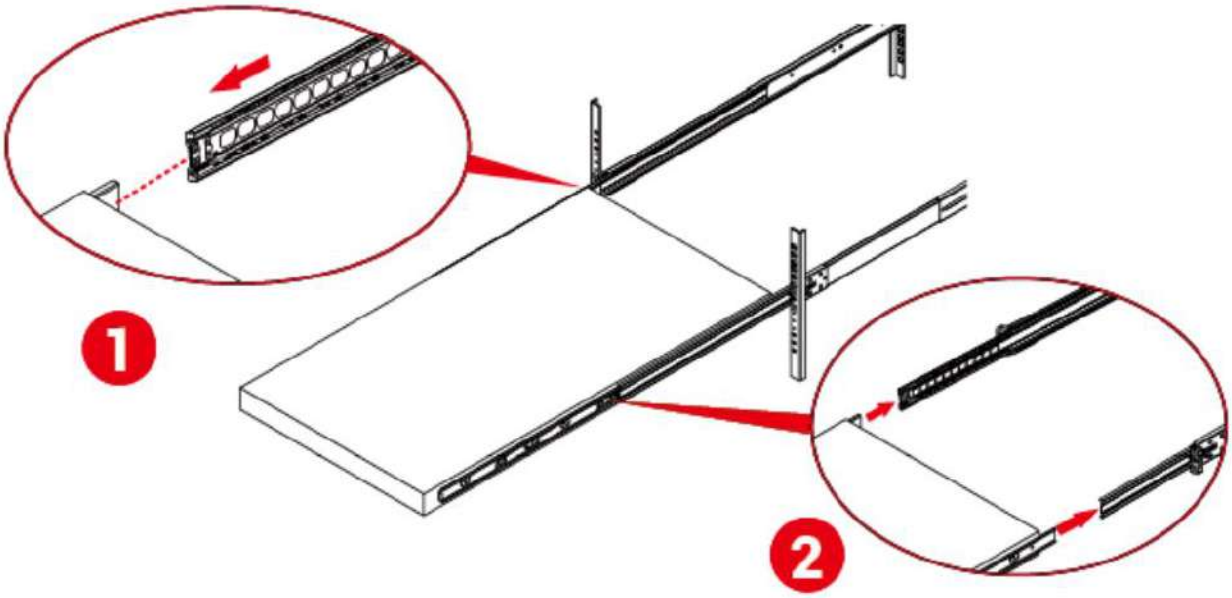
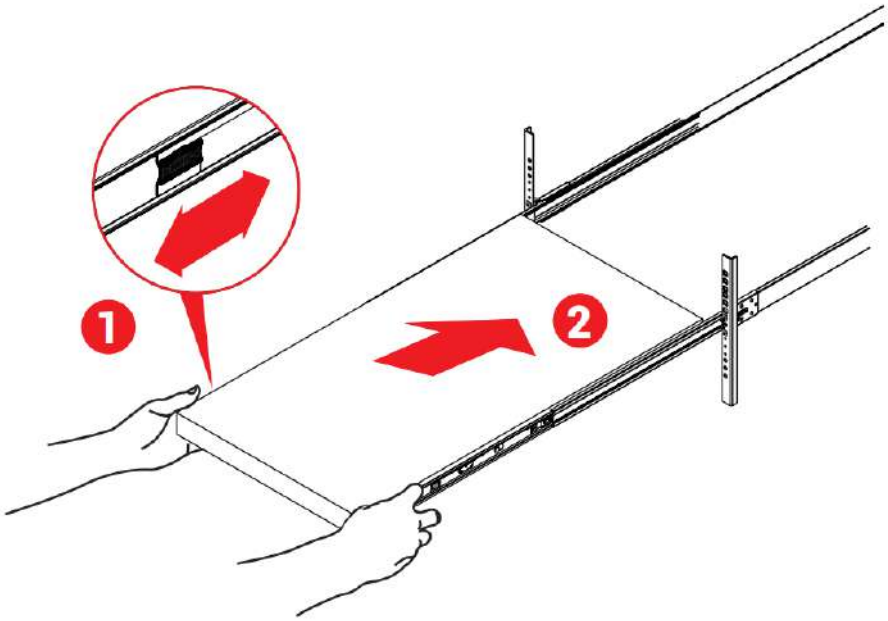


Verify ball bearing retainer is locked forward.

7. Slide the release tab and push barebone into rack. Make sure the barebone is completely installed onto the rack.



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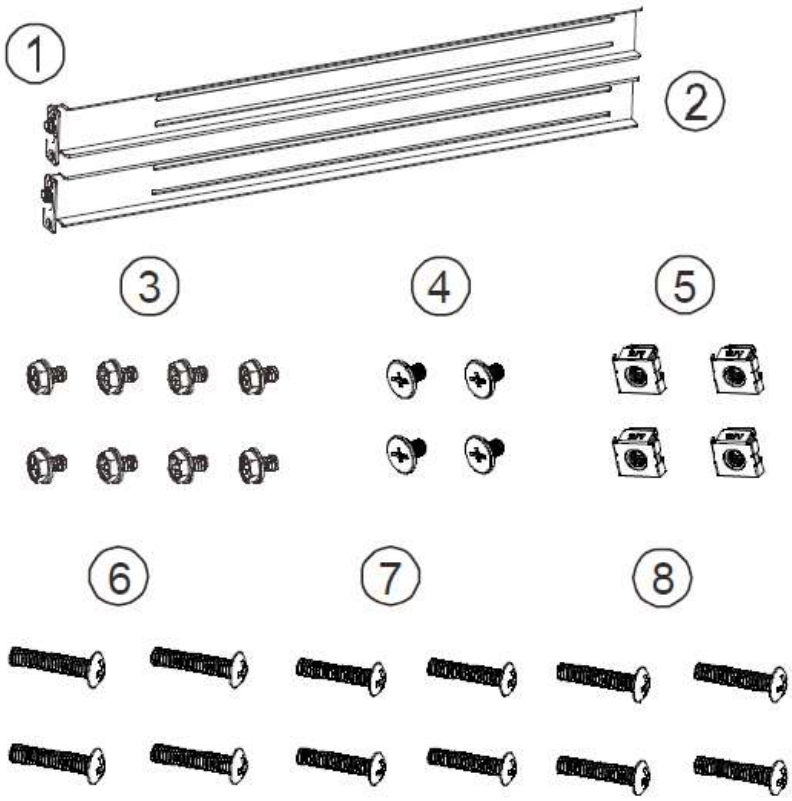
2.1.3 HA RAID Storage Expansion Array / HA Expansion Unit Rack Installation Instructions

Rack Ear Mount Kit

The following table shows all accessories that came with the rack ear mount kit.

Kit Contents

Item	Description	Quantity
01	Mounting bracket assembly, left-side	1
02	Mounting bracket assembly, right-side	1
03	Hexagon washer screws #6-32mm	8
04	Truss head screws M5 x 9.0mm	4
05	M5 cage nuts	4
06	M5 x 25mm	4
07	M6 x 25mm	4
08	#10-32 x 25.4mm	4



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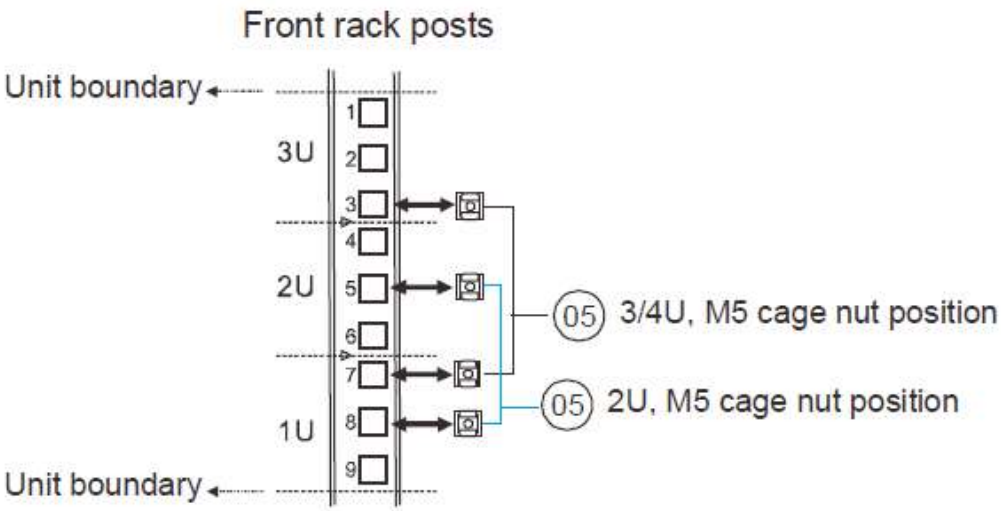
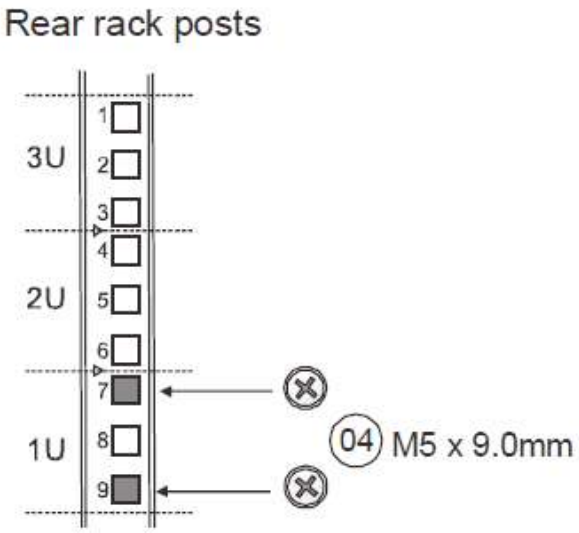
Installation Procedure

The installation begins with determining the installation position and M5 cage nut (9) insertion locations.





Install the fixed rack ear mount to the rear posts and secure them using truss head screws (4).

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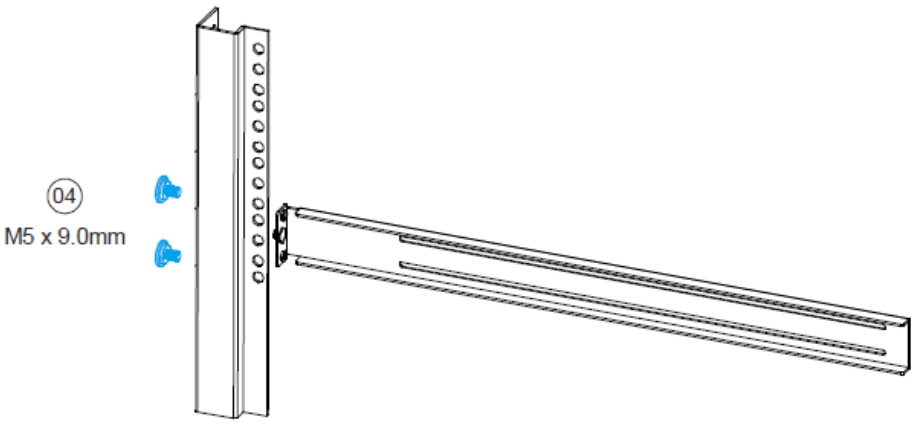
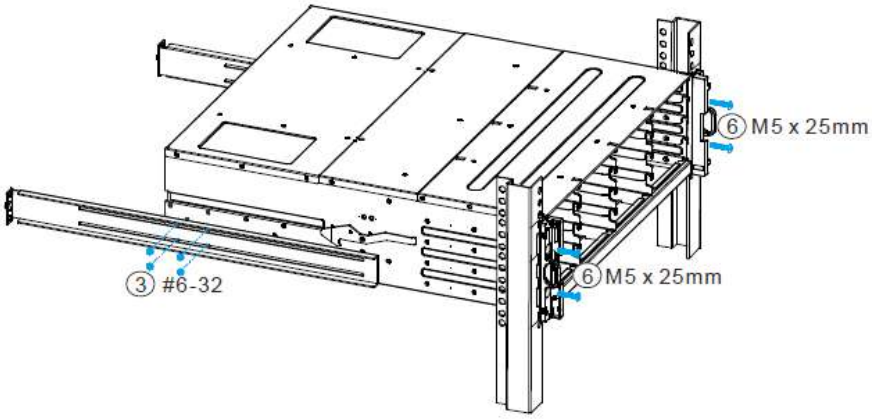


With the assistance of another person holding the enclosure at the installation height, the other person can place four M5 x 25mm (6) at the front of the enclosure and eight #6-32 screws (3), four on each side, to secure the enclosure into the rack.



Front rack post

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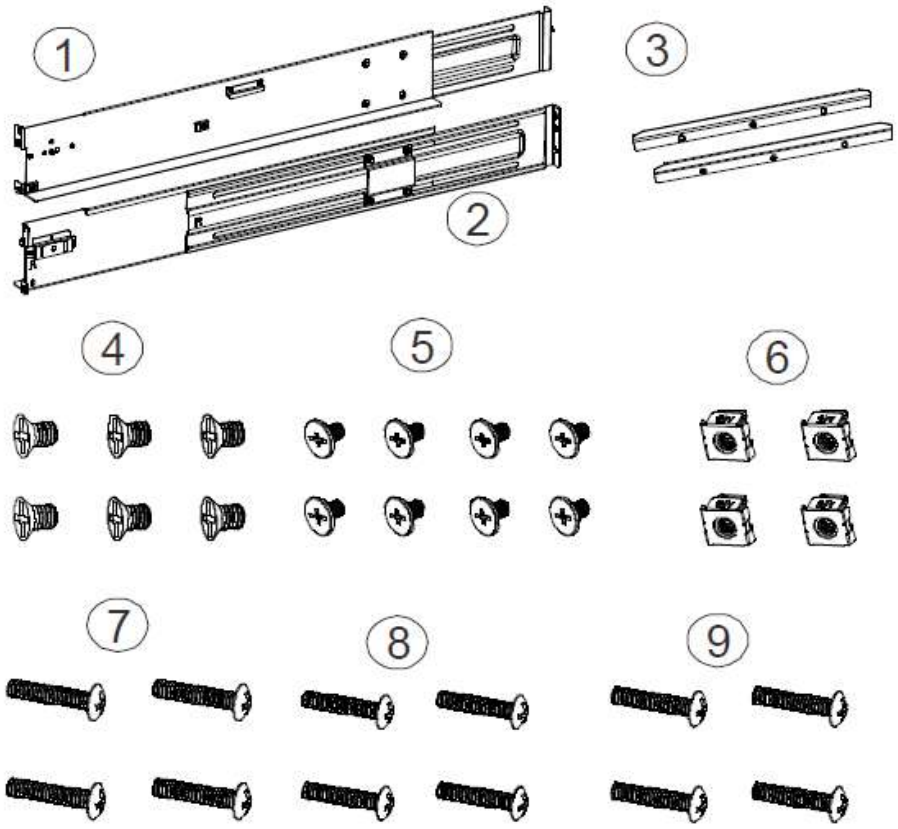
Slide Rail Kit

The following table shows all accessories that came with the slide rail kit.

Kit Contents

Item	Description	Quantity
01	Mounting bracket assembly, left-side	1
02	Mounting bracket assembly, right-side	1
03	Inner glides	2
04	Flathead screws #6-32 L4	6
05	Truss head screws M5 x9.0mm	8
06	M5 cage nuts	4
07	M5 x 25mm	4
08	M6 x 25mm	4
09	#10-32 x 25.4mm	4



The installation begins with determining the installation position (front and rear rack positions) and M5 cage nut (5) insertion location.

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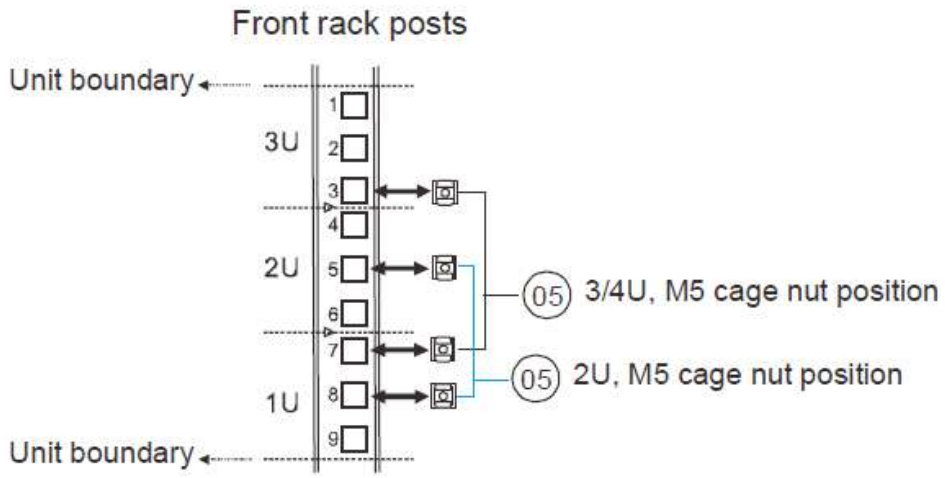
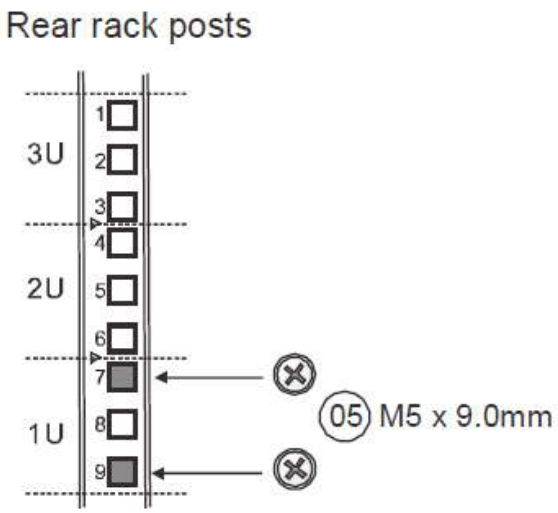
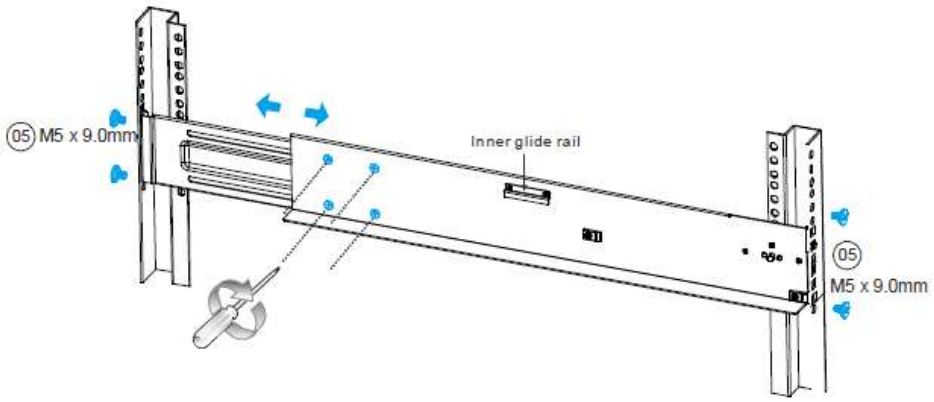




Adjust the length by loosening the four screws on the slide rail. Secure the slide rails to front and rear posts using truss head screws. Tighten the four screws on the slide to fix the length.



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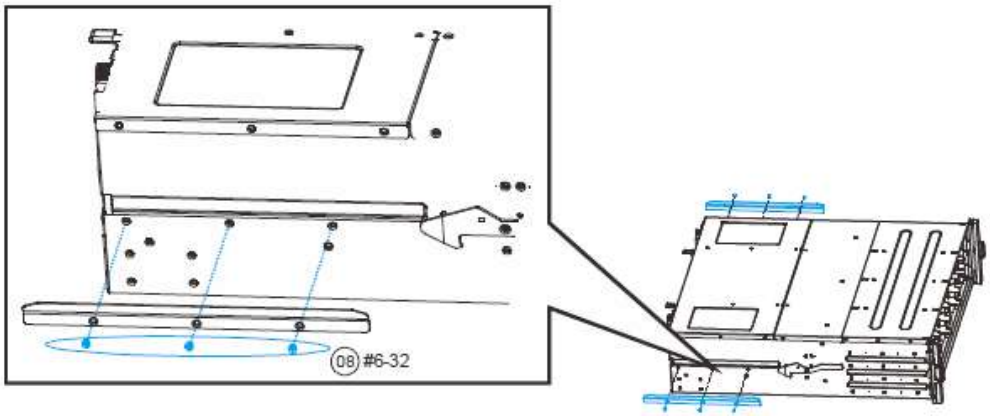
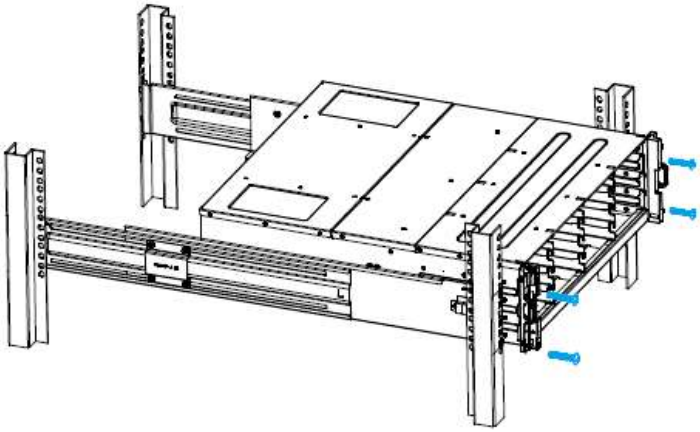
Attach the inner glides to BOTH sides of the enclosure using flathead screws #6-32 (8).



With the assistance of another person, lift and insert the enclosure onto the slide rail. Make sure the inner glides on both sides of the enclosure meets the inner glide rail. Secure the enclosure with M5 or M6 screws from the front.



2.2 Safety Reminders

If you must relocate the enclosure after installation

- Cease all input / output transactions, shut down the system, disconnect all the cables (please refer to the User Manual for details).
- Empty all drive bays (hard drives + hard drive trays) and transport them separately in safe packaging.
- Modules came installed within the enclosure need not be removed.
- Follow the instructions provided in the StoneFly Getting Started Guide.

When the system is in operation

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- Module and drive bays must not be empty! They must have a dummy cover / plate in place to stabilized internal airflow!
- Should a module fail, leave it in its place until you have the replacement item on-hand to take its place.
- Allow at least 18~20cm of clearance space at the rear of the enclosure for ventilation.
- Avoid touching the PCB and gold-finger connections.

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Chapter-3: Cabling Connections & Power Up

3.1 Cabling the Equipment

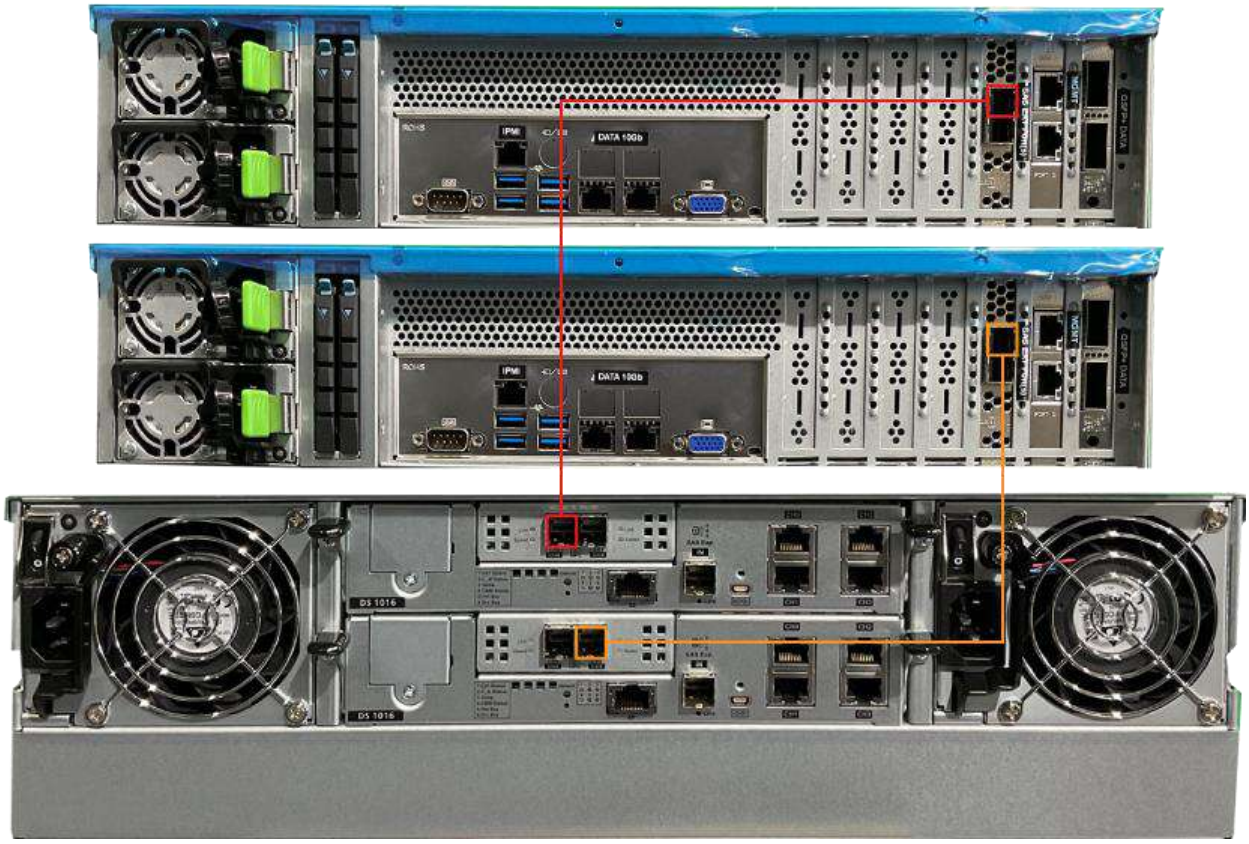
The following description shows the steps for two Storage Concentrators, and one HA RAID Storage Expansion Array. Please make sure that you've securely mounted the appliances in the rack/cabinet before beginning the cabling. It's also important to note that the power is connected AFTER all of the data/network connections have been made.

Spanning Tree Protocol (STP) must be disabled on your network switch when using bonded data ports on the StoneFly DR365V-HA appliance.

Note: Follow the labels for each port as marked on your appliance(s).

SAS Interconnects – Standard Configuration

Connect the two included Mini-SAS HD cables between each SC and the HA RAID Storage Expansion Array, as shown below:



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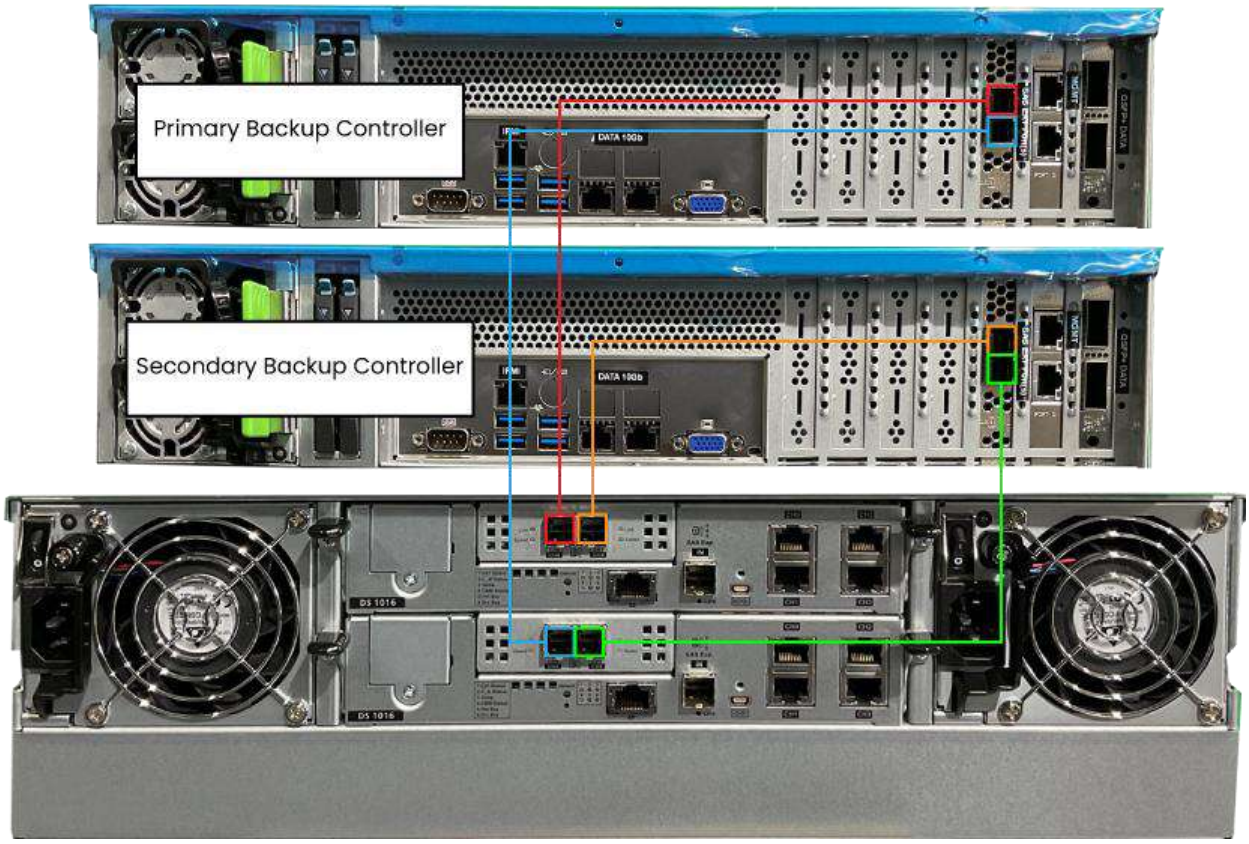
SAS Interconnects - Multipath Connections (Optional Upgrade)

If you have purchased the optional StoneFly Multipathing Kit, then you will be able to connect each SC to both RAID controllers on the HA RAID Storage Expansion Array.

The four Mini-SAS HD cables will be connected between each SC and the HA RAID Storage Expansion Array, as shown below (optional multipathing configuration):



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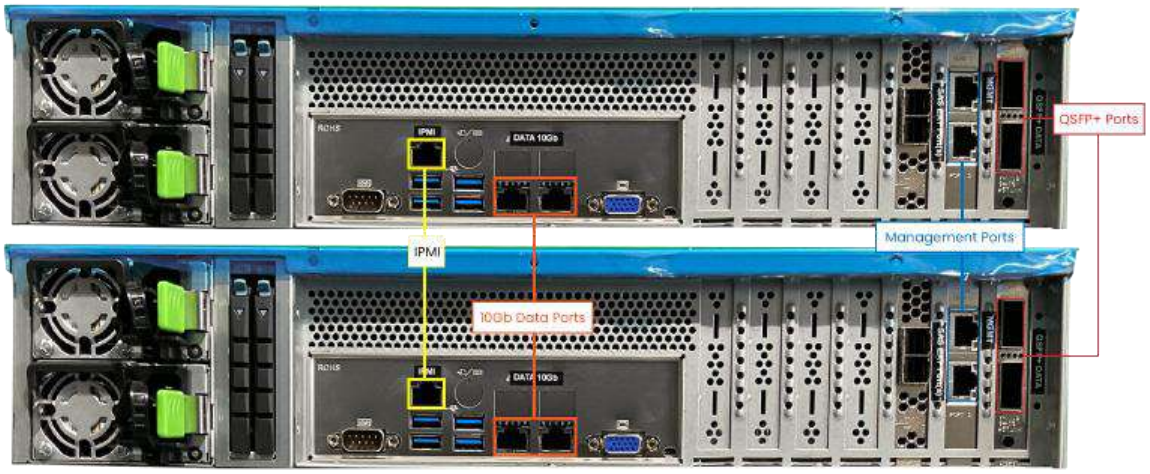
Network Connections

Connect SFP+ cables to the data ports on each SC, and Ethernet cables to each of the Management ports (MGMT) on all three units as shown below. For best practices, split the connections between at least two switches for each type of port.



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Power Connections

Note: Make sure to make all the connections for both SCs as described above before connecting the power cords to the system.

Once you've made all the connections and made sure that there are no loose cords, press the power button to turn on the system.

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Chapter-4: Software Configuration

4.1 HA RAID Storage Expansion Array IP Address Configuration

You can configure the IP address for the HA RAID Storage Expansion Array via either the Serial port or Ethernet port on the rear of the unit.

Serial port: A Y-cable is provided in the package. (NOTE: null modem may be required if you are using a third-party cable).

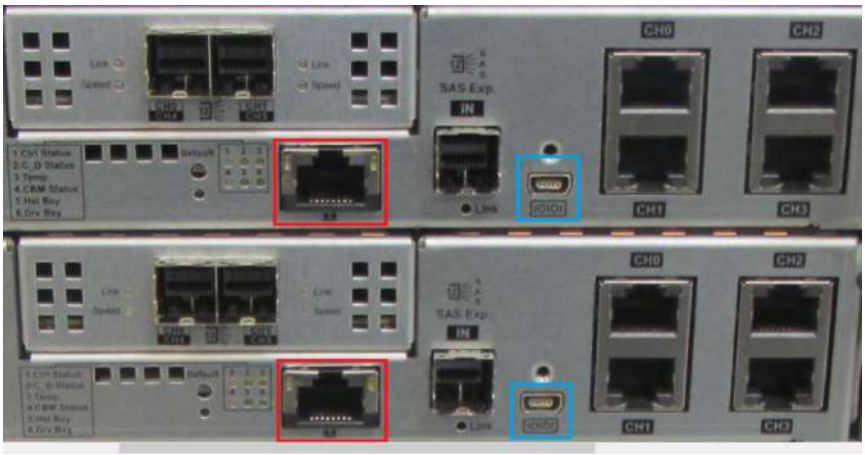
The serial port's defaults are:

Baud Rate	38400
Data Bit	8
Parity	None
Stop Bit	1
Flow Control	Hardware

For TCP/IP connection and firewall configuration with a management station running the storage array's web interface, please refer to storage array web interface online help or User's Manual. If your network environment is not running DHCP server protocols, a default IP address of <10.10.1.1> can be used to access the unit for the first time.

Use the Ethernet management port for management purposes only, i.e., storage array web interface or telnet console. This Ethernet management port is not used for I/O transactions.

Management network ports are boxed in red, serial ports are boxed in blue. This is an example controller, controllers do vary from configuration to configuration.



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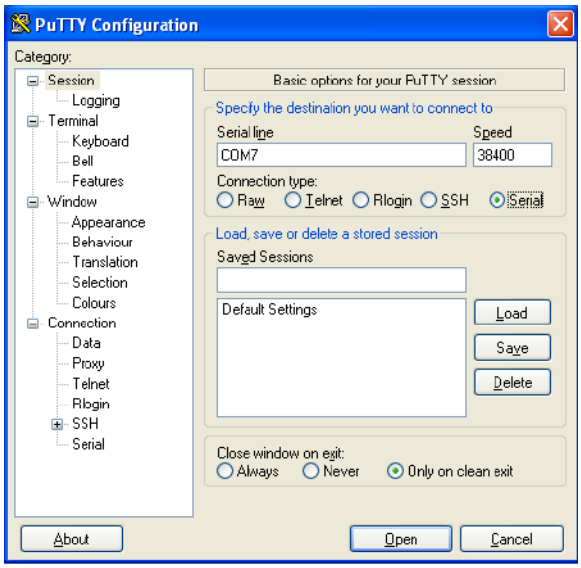
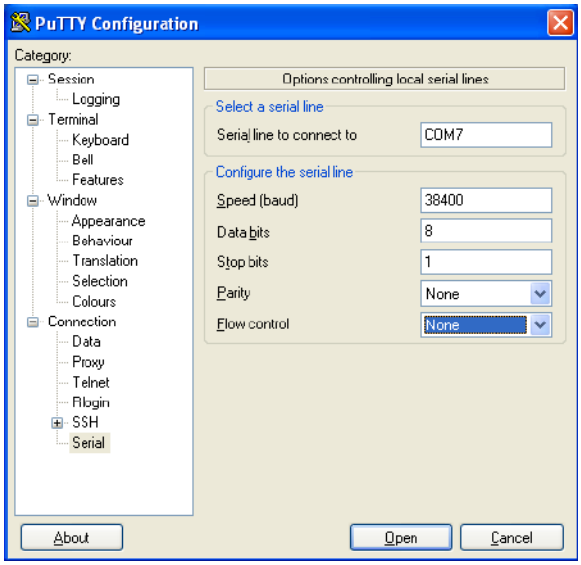
4.1.1 Serial port setup

When setting up via the serial port, enter the settings as shown below:





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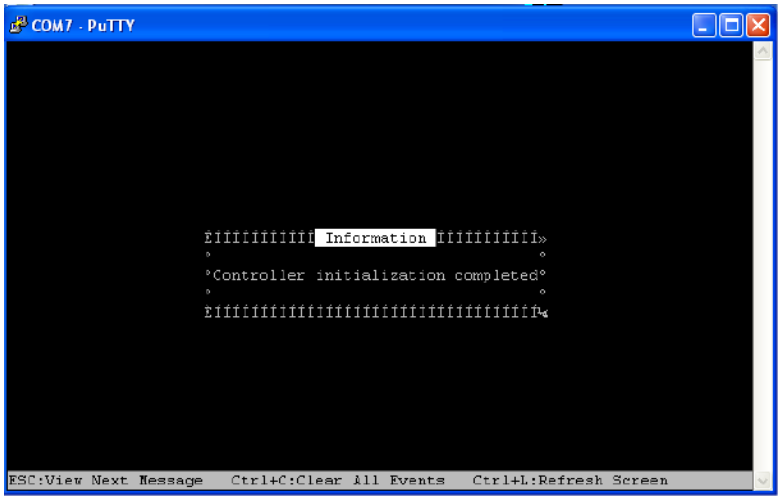
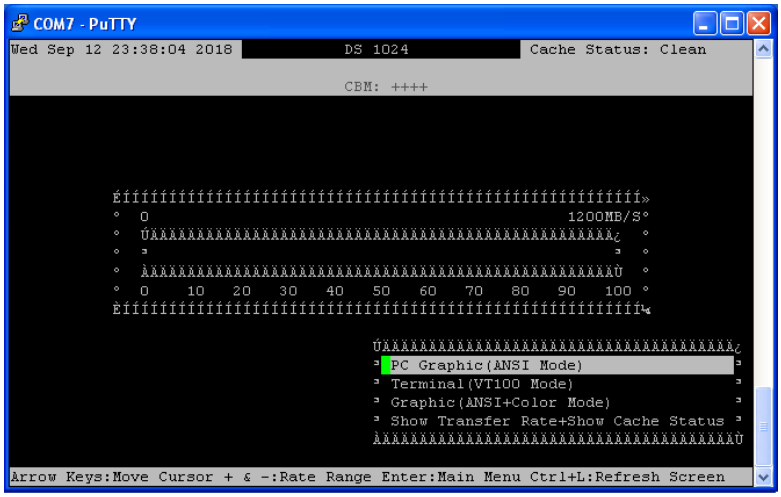


Hit **ESC** to view next screen.



Select **PC Graphic (ANSI Mode)** then hit enter.

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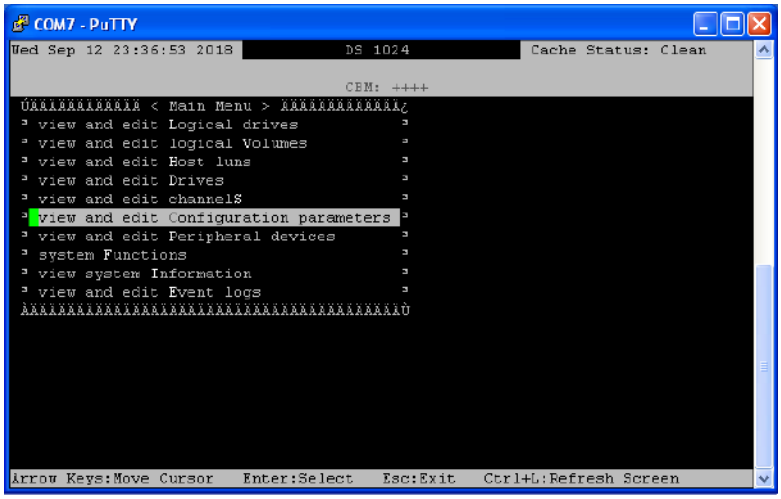
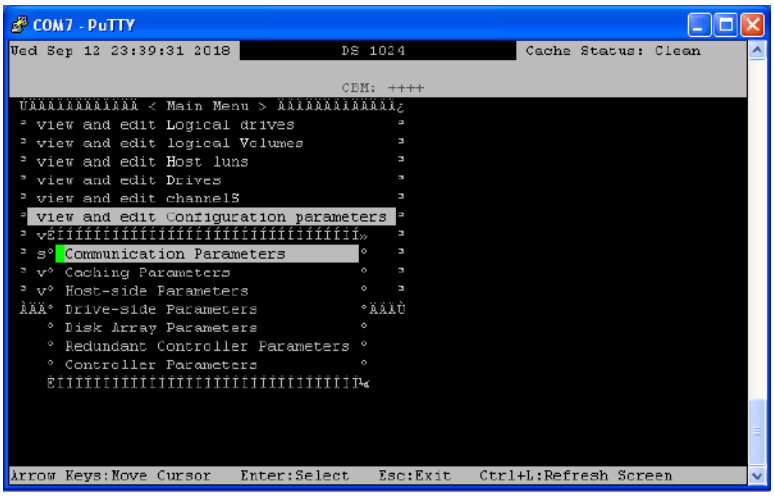


Select **view and edit Configuration parameters** then hit enter.



Select **Communication Parameters** and hit enter.

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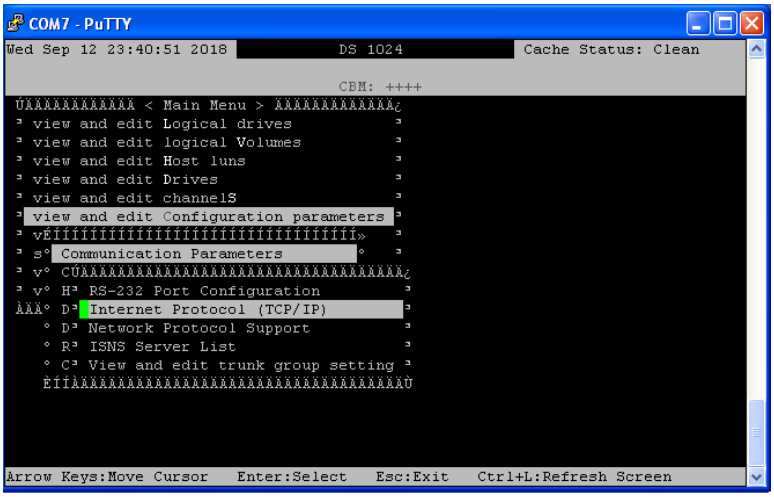
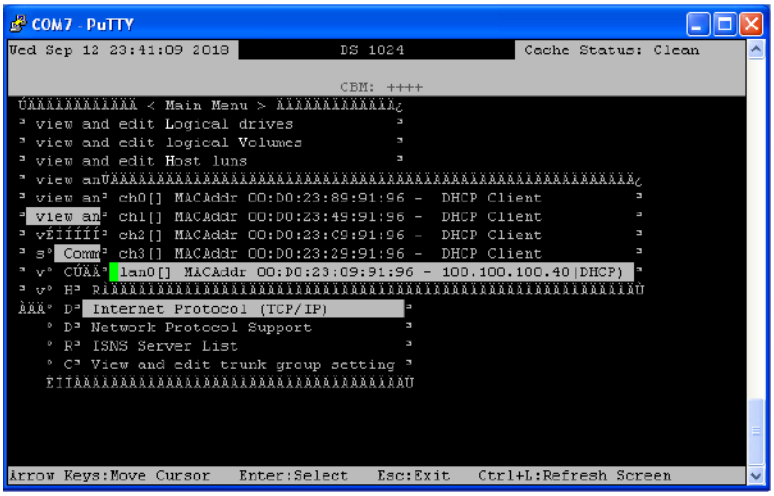


Select **Internet Protocol (TCP/IP)** and hit enter.



Select **lan0** and hit enter, then select **static** and enter the IP address as needed.

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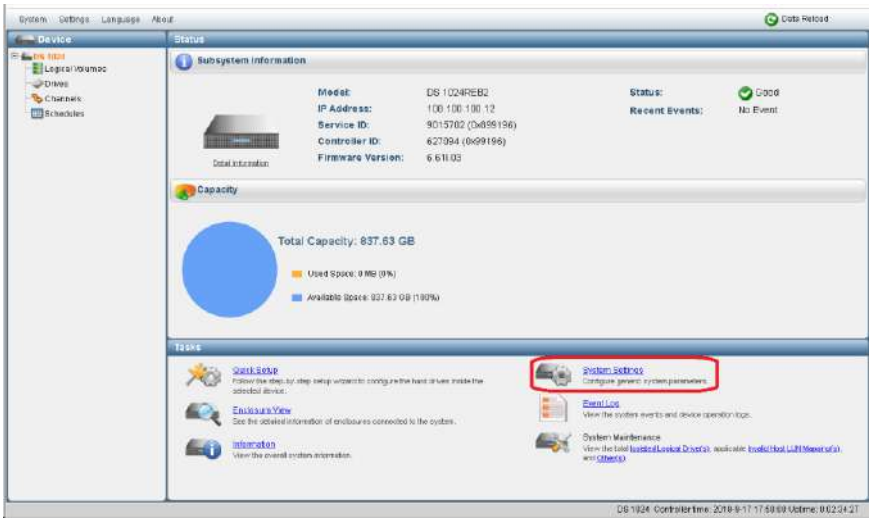
4.1.2 Web GUI IP Address setup

When setting up via the Ethernet port/web GUI, follow the instructions as shown below:

The default Password is blank. Just click on the **Login** button.



Click on **System Settings**.

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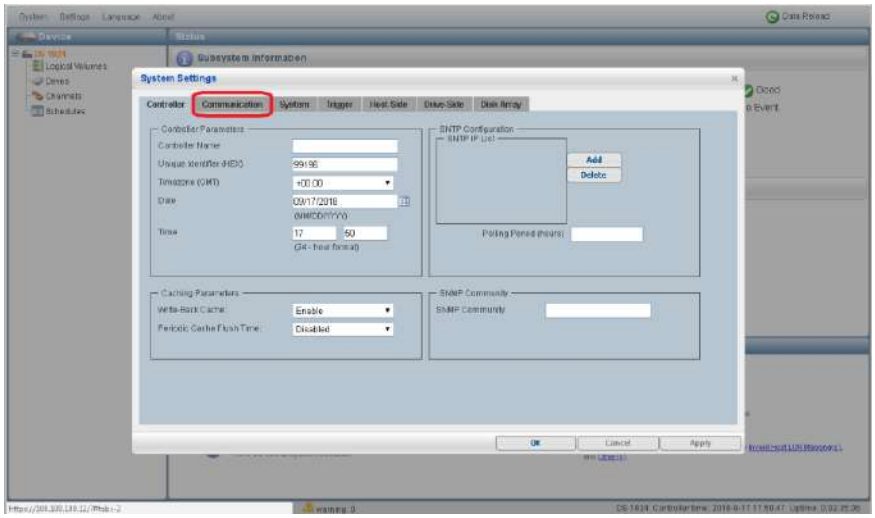
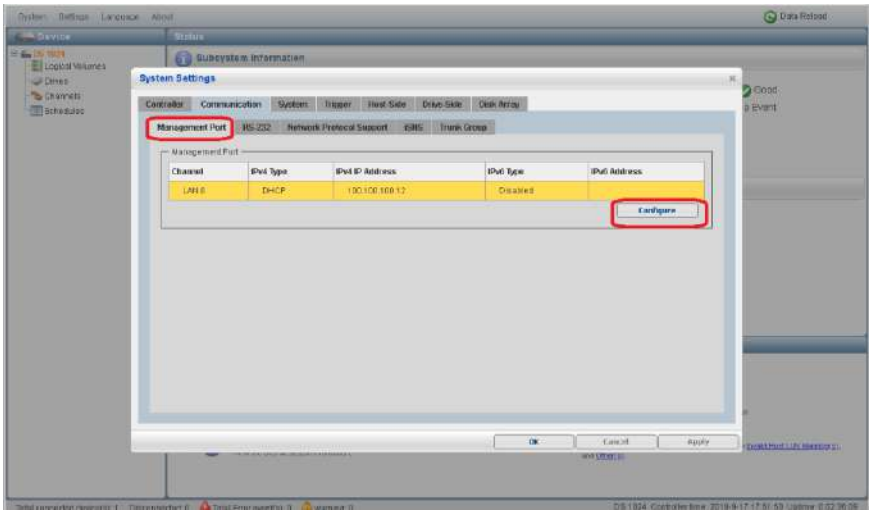


Select **Communication**.



Select **Management Port** then click on the **Configure** button.

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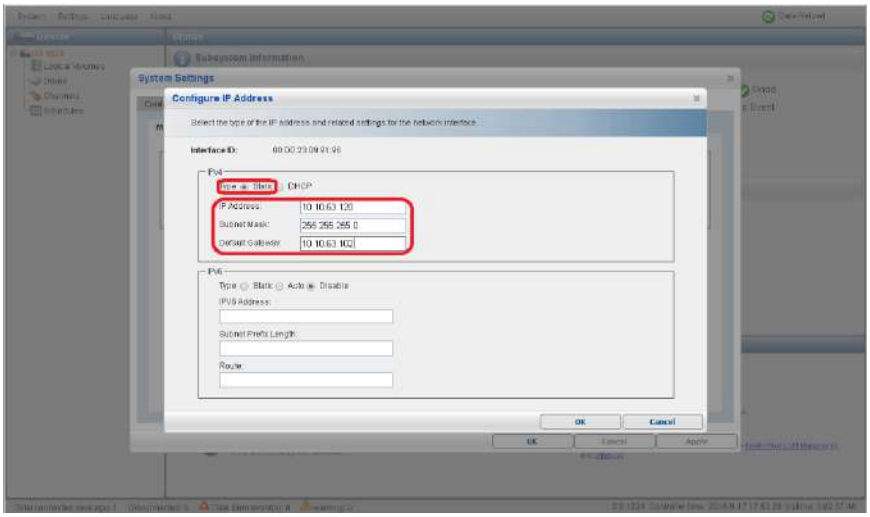

Select **Static** then enter your network information. Click **OK** when completed.

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4.2 Configuring IPMI KVM

The Intelligent Platform Management Interface (IPMI) KVM configuration allows for **Remote Management** and **Power Control** of the StoneFly DR365V-HA 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.

Navigate to **IPMI** tab and go to **BMC Network Configurations**:

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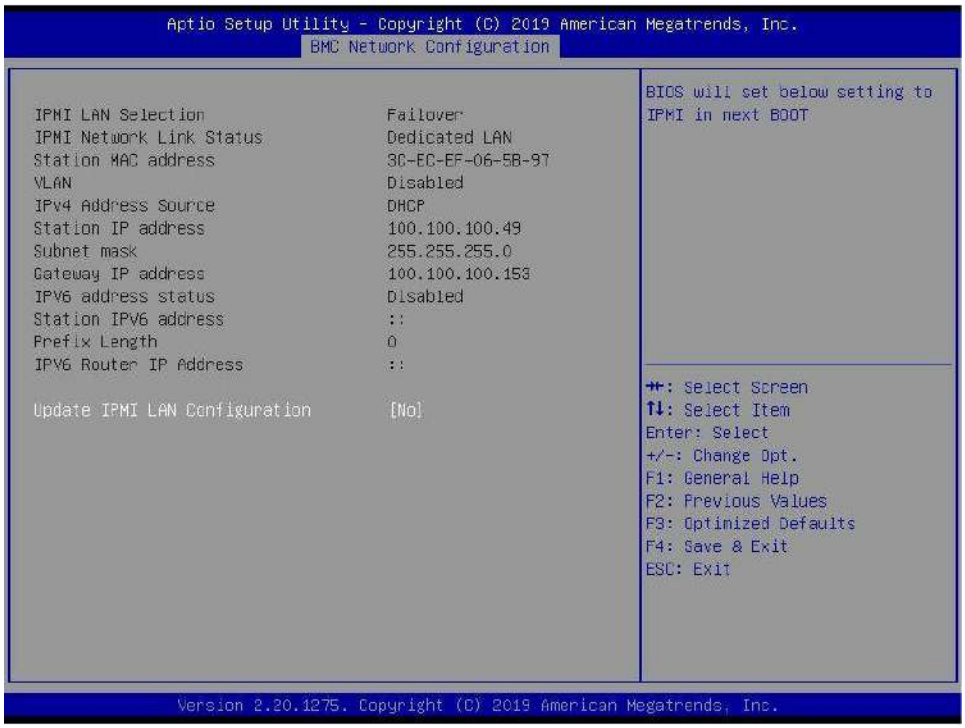
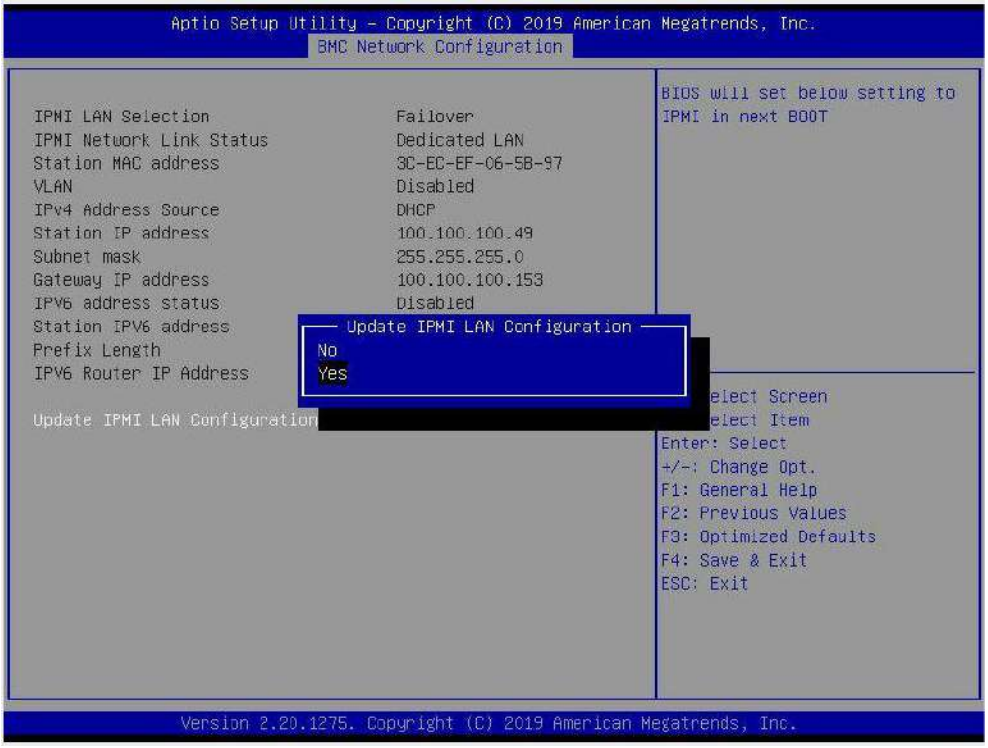
In the **BMC Network Configuration** tab, select **Update IPMI LAN Configuration** and press **Enter**:



When prompted, select **Yes** and press **Enter**.



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

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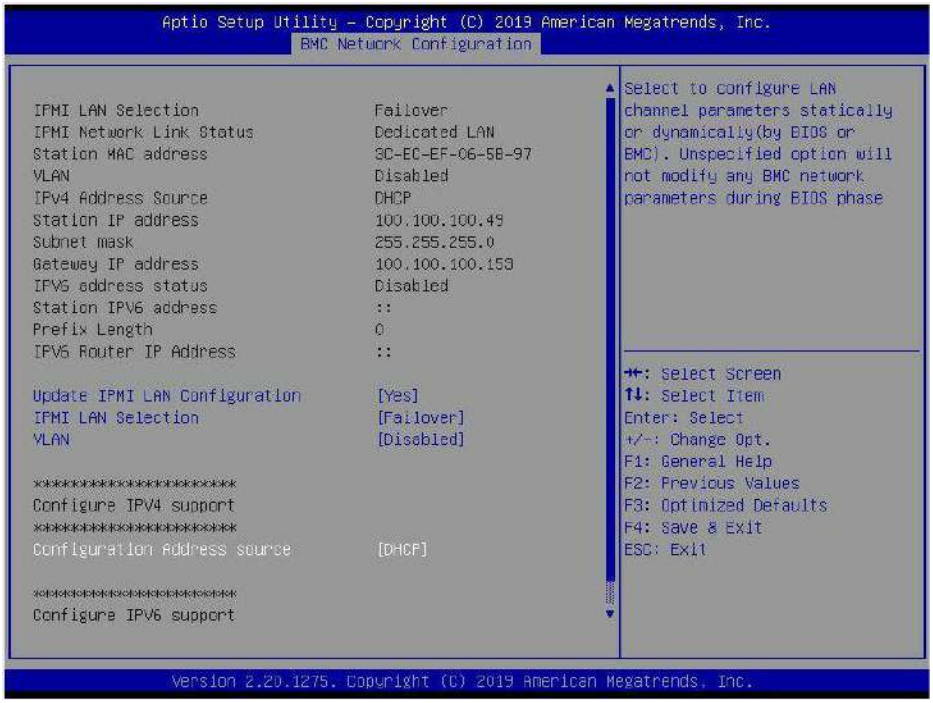
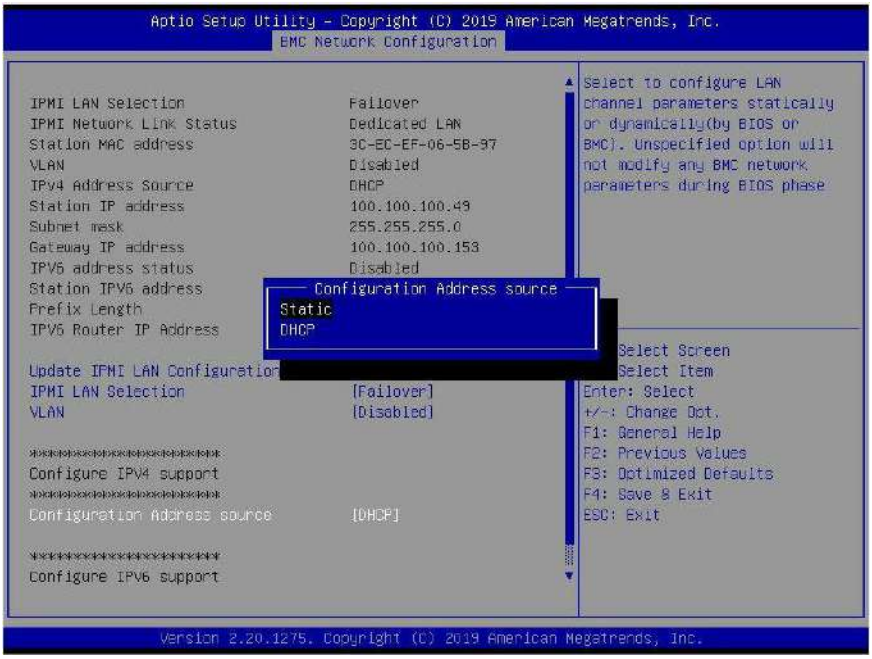


From the prompt, select **Static** and press **Enter:**



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

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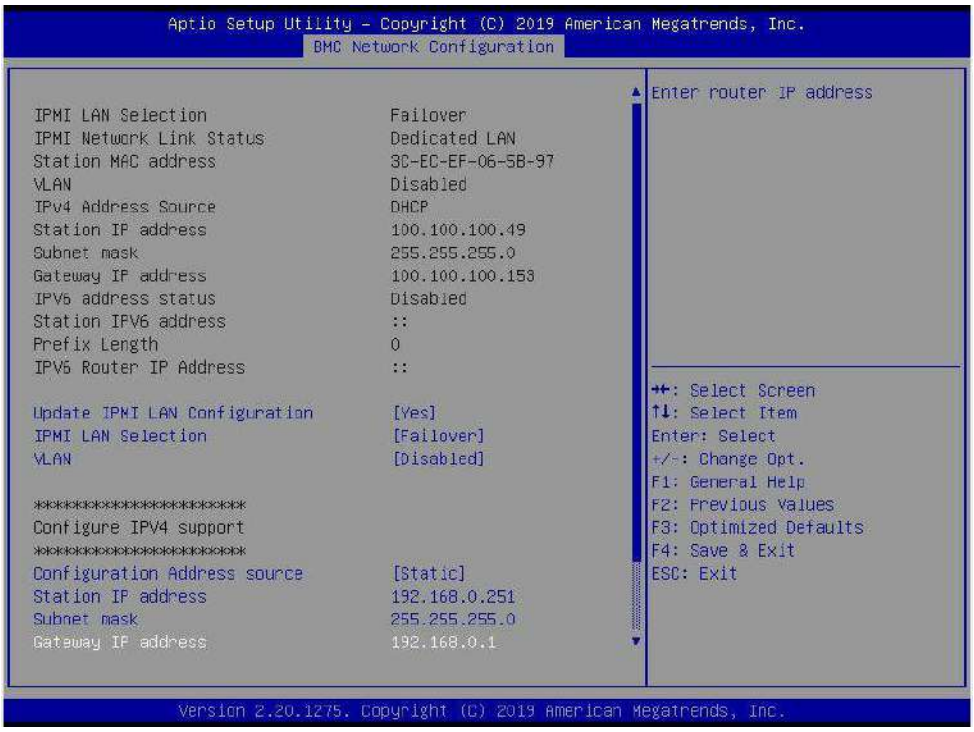


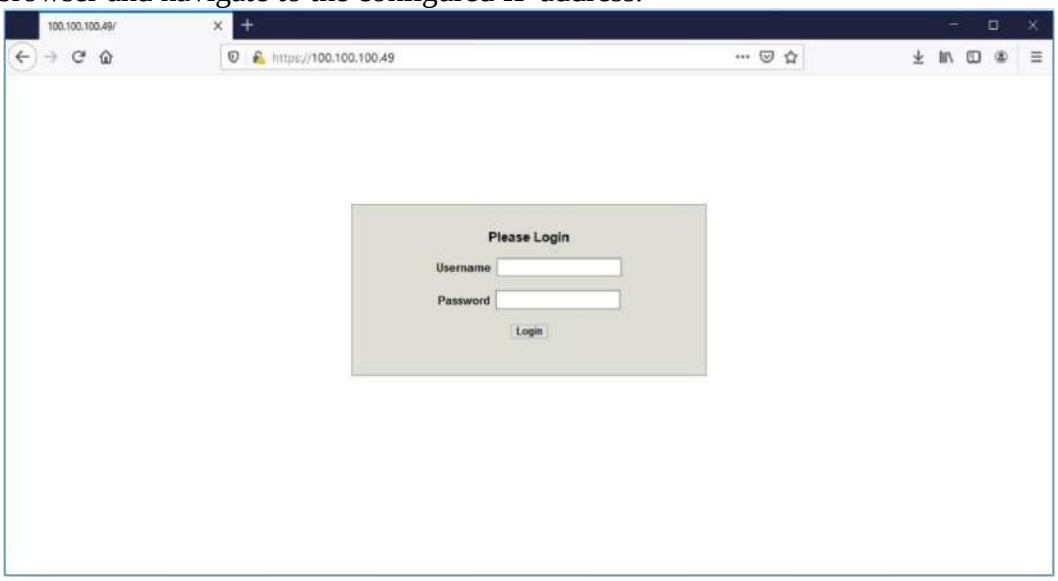
When entering addresses, please note:

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



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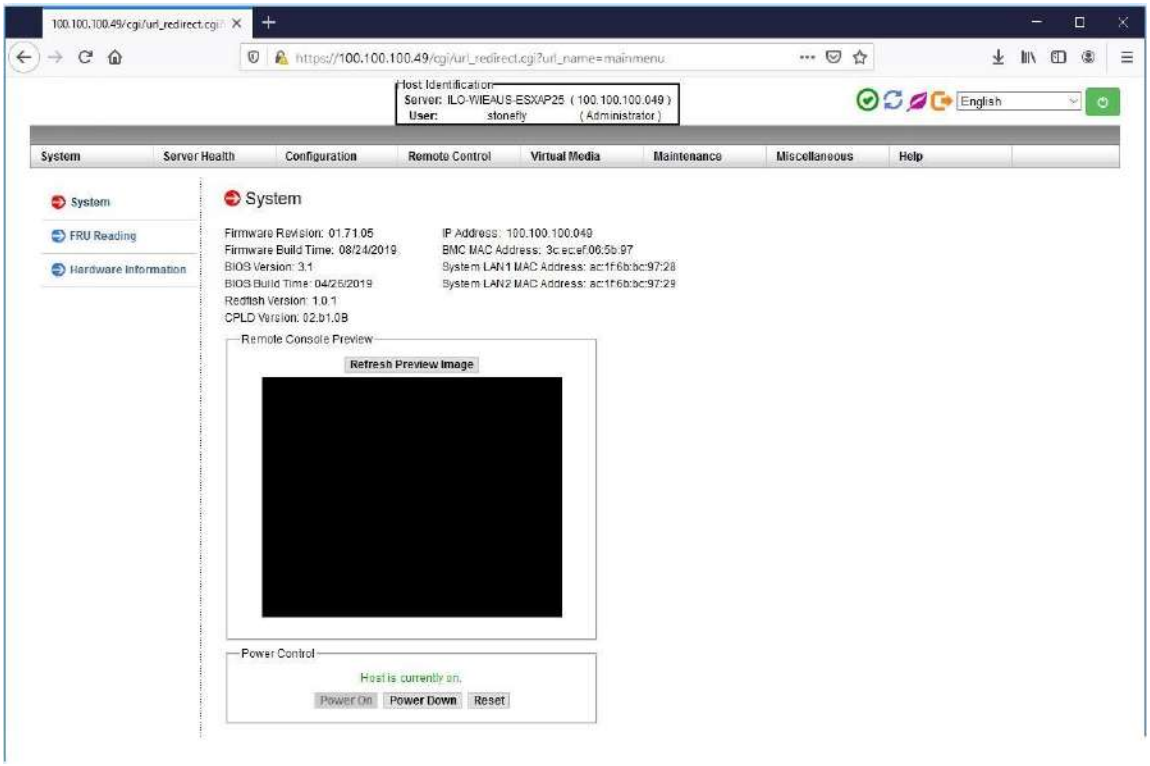
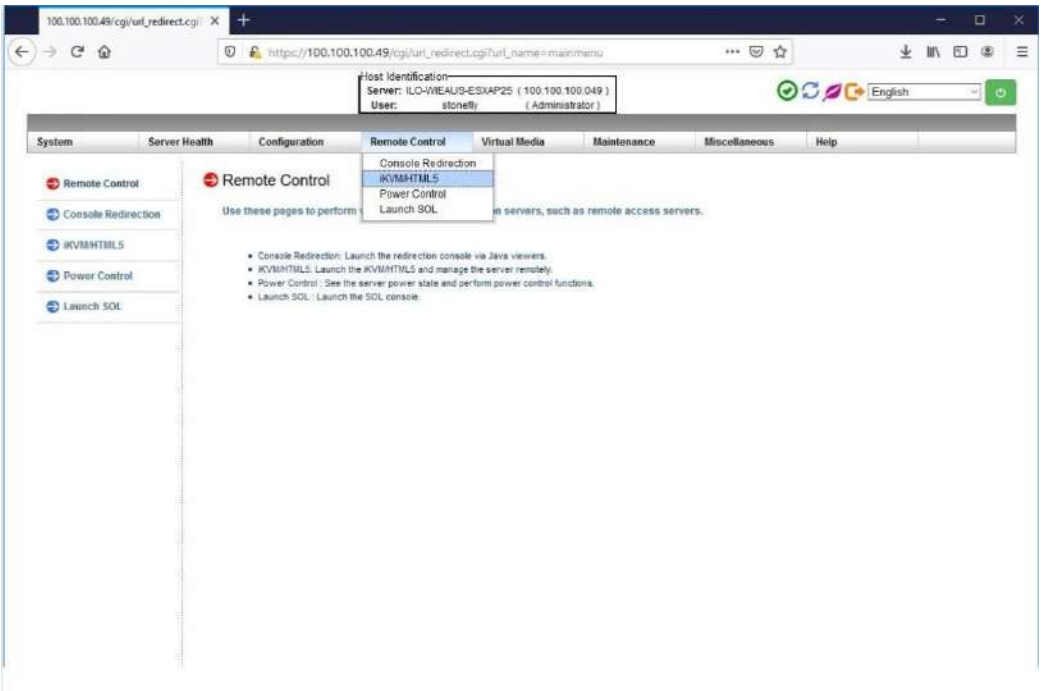
Enter the following information in the login screen:

- Username: stonefly
- Password: Stonefly1



Navigate to **Remote Control** tab and select **iKVM/HTML5**:



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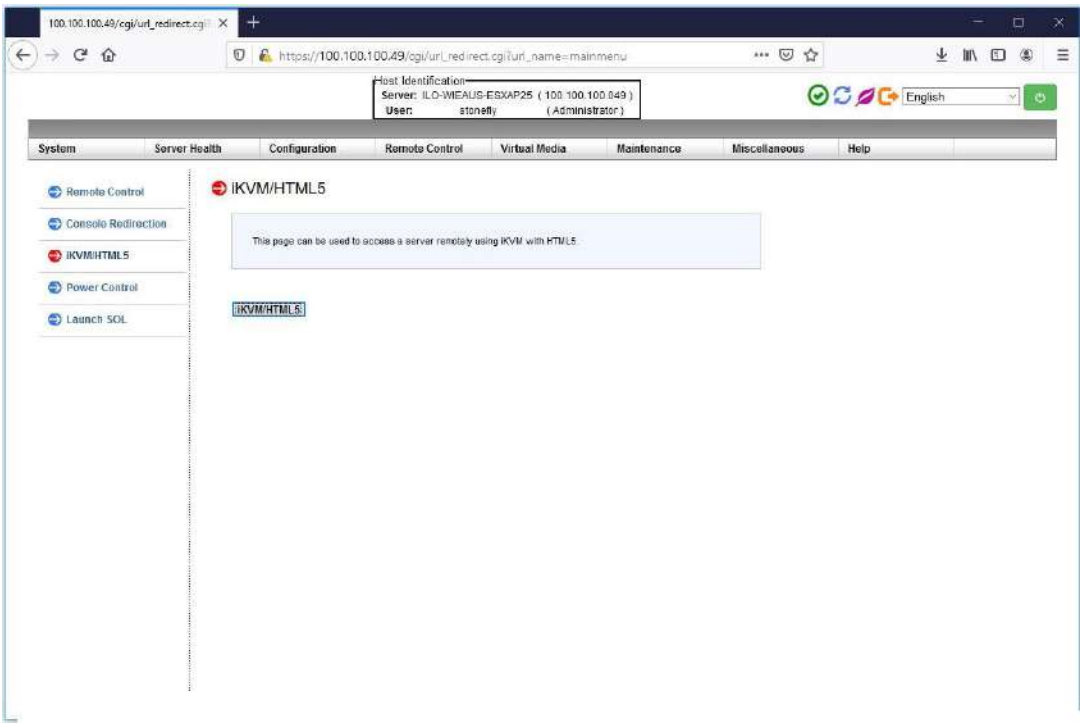
Click on **iKVM/HTML5** to launch remote console:



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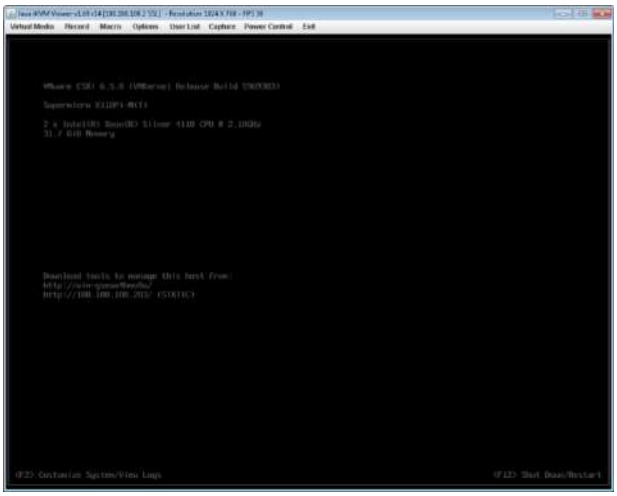
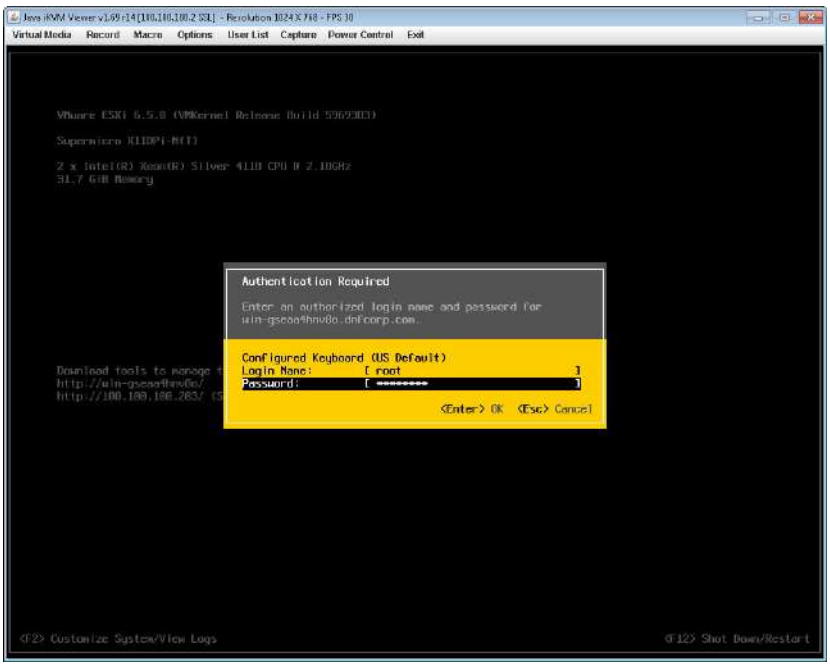
4.3 VMware Management Network Configuration

This section describes configuration of the ESXi Management Network. *IP Addresses* and *Hostnames* used in this section are for example only. Refer to section 4.5 for Hyper-V Management Network Configuration.

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





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:

- Log in Name: root
- Password: Stonefly1!

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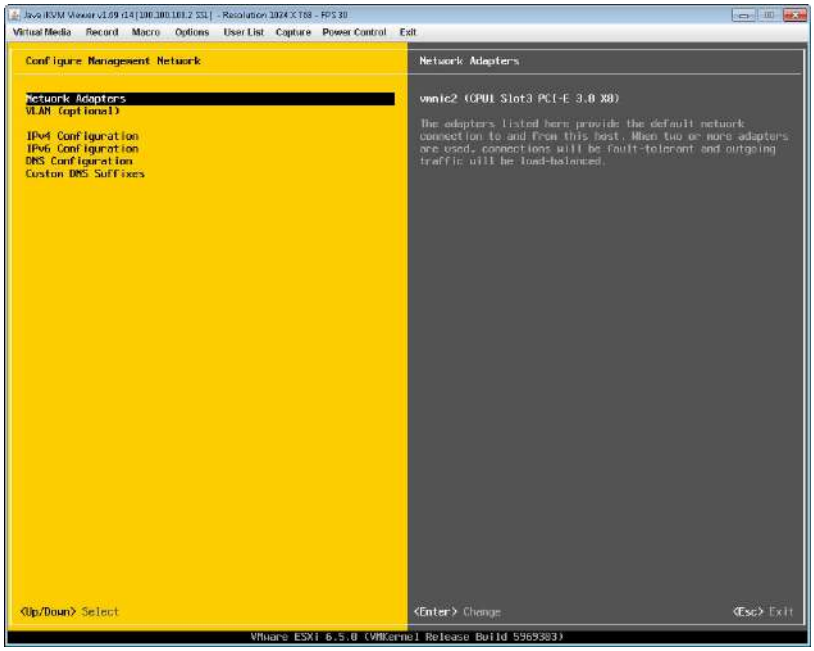
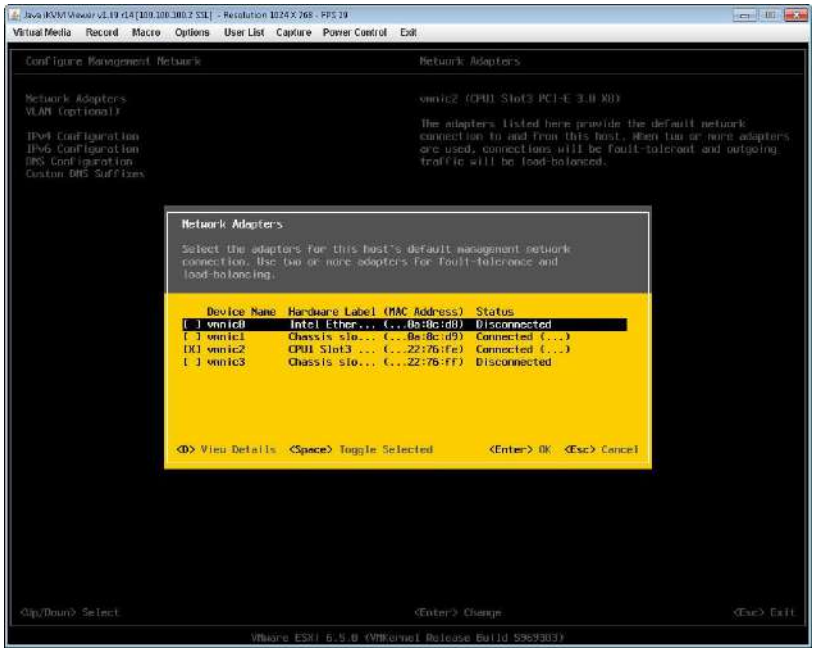


Select **Network Adapters** and press the "Enter" key.



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

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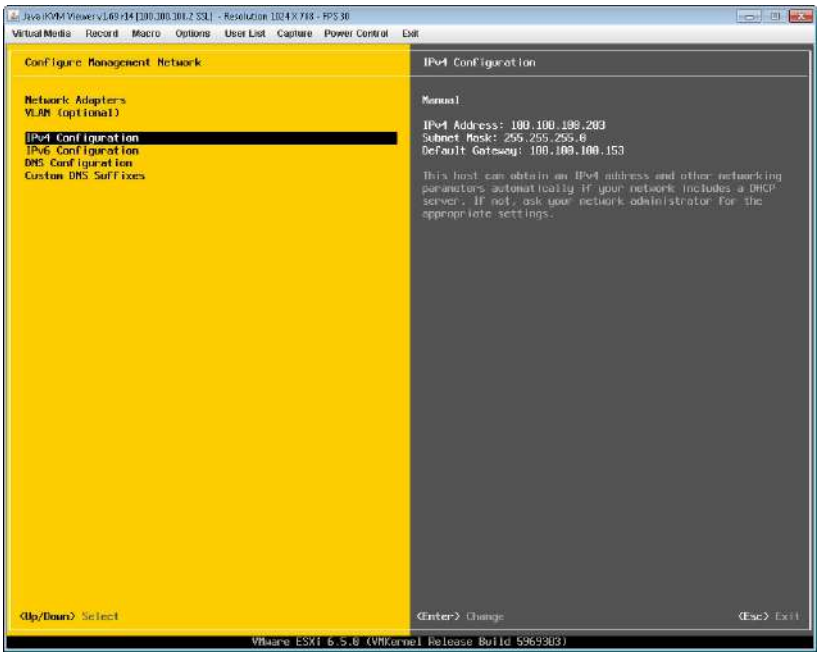
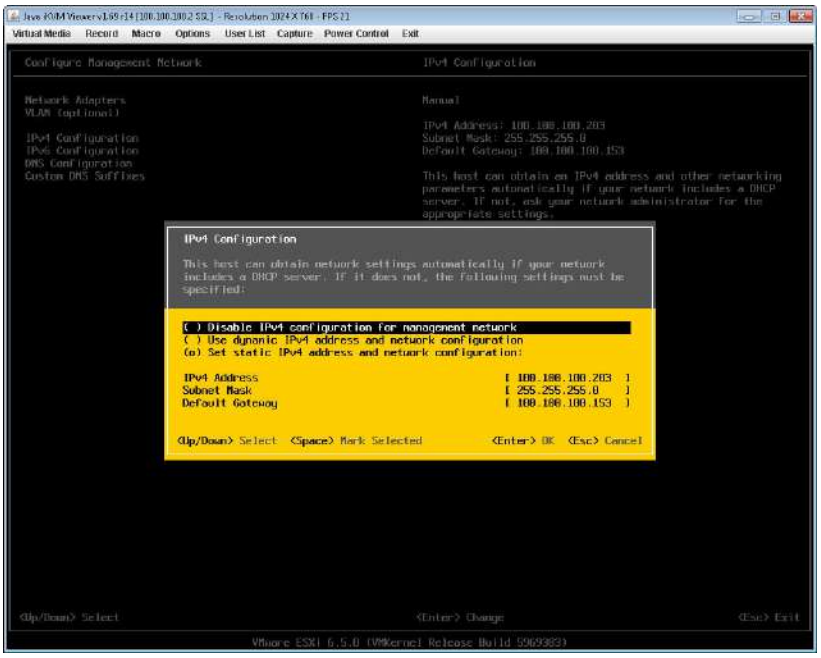


Select **IPv4 Configuration**, then hit the "Enter" key.



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

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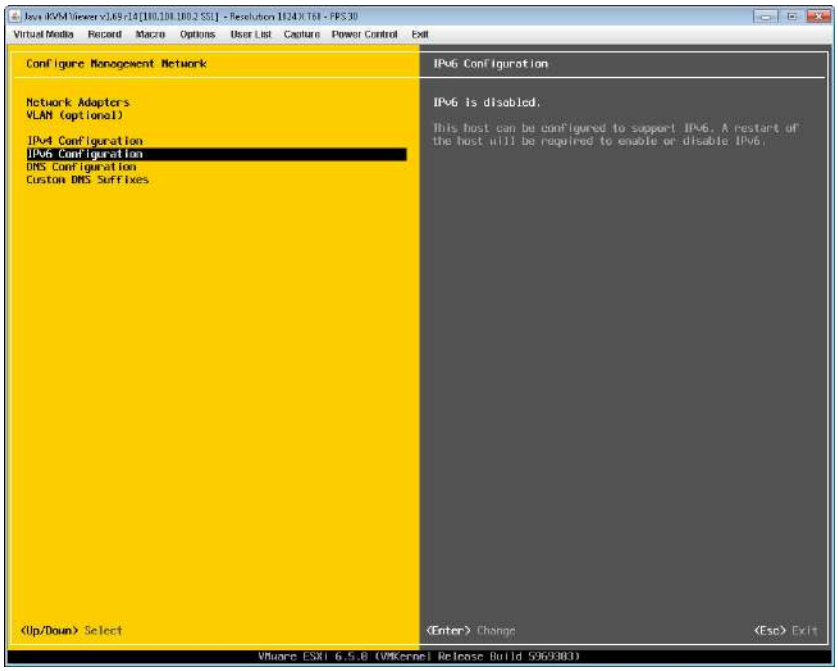
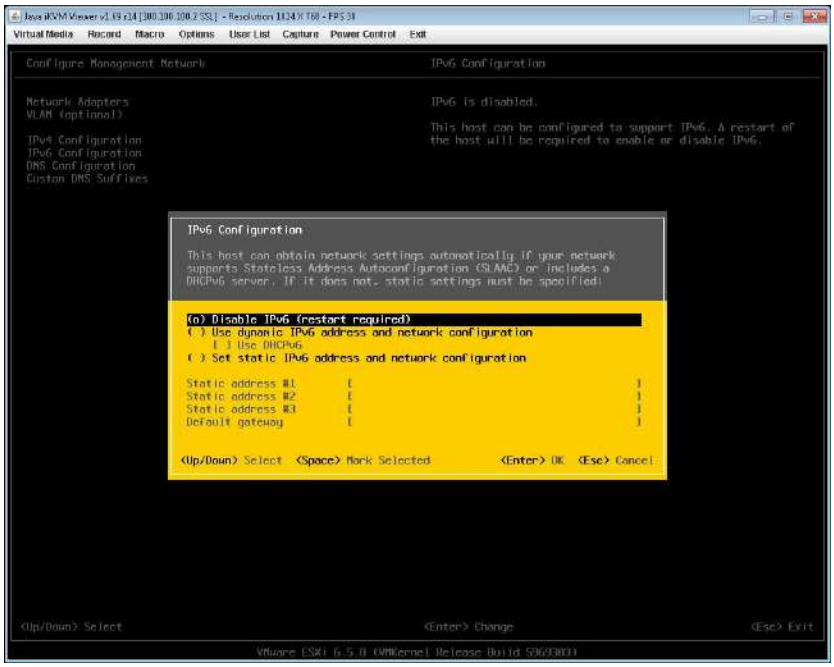


Select **IPv6 Configuration**, then hit the "Enter" key.



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

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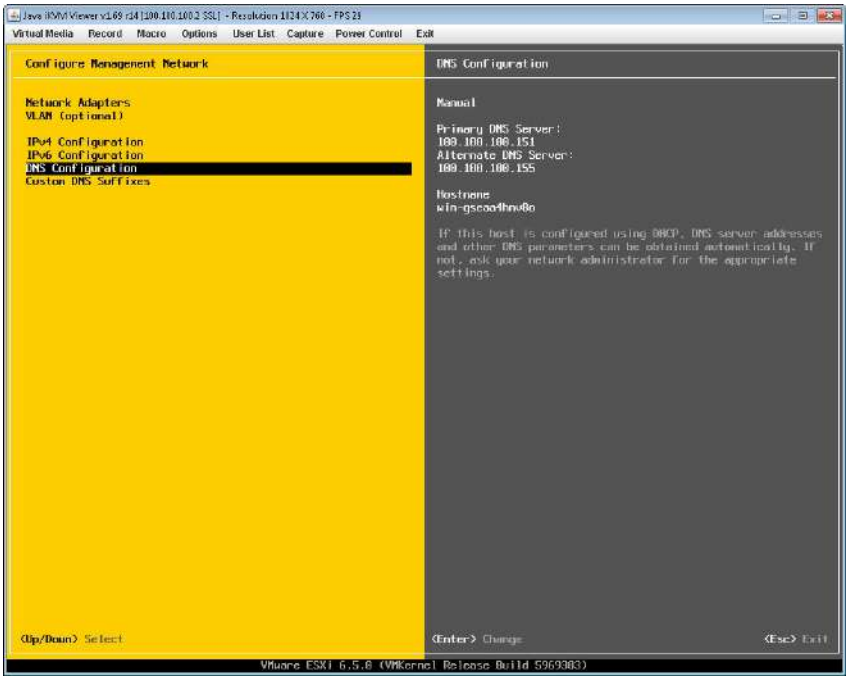
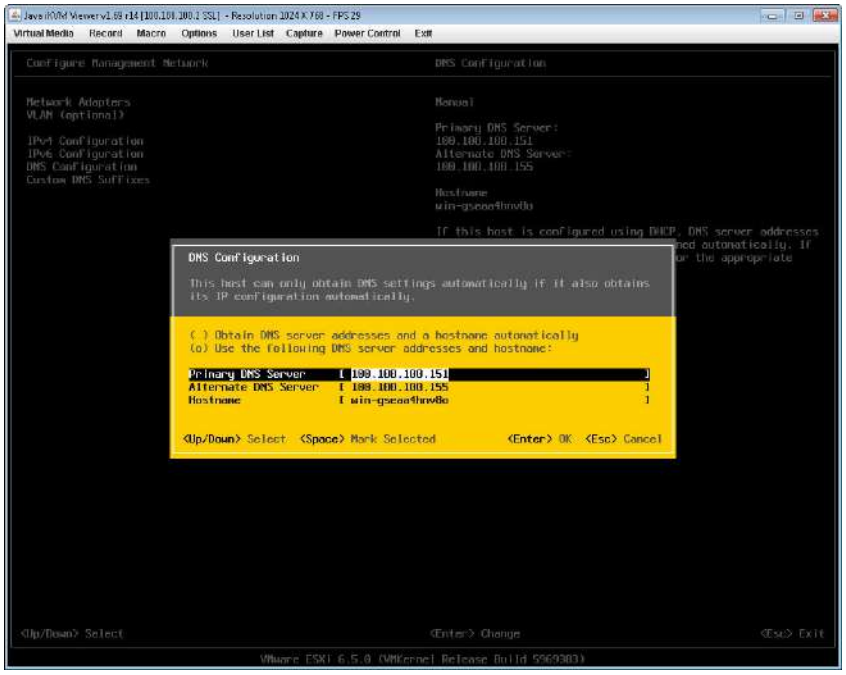


Select **DNS Configuration**, then press the “Enter” key.



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

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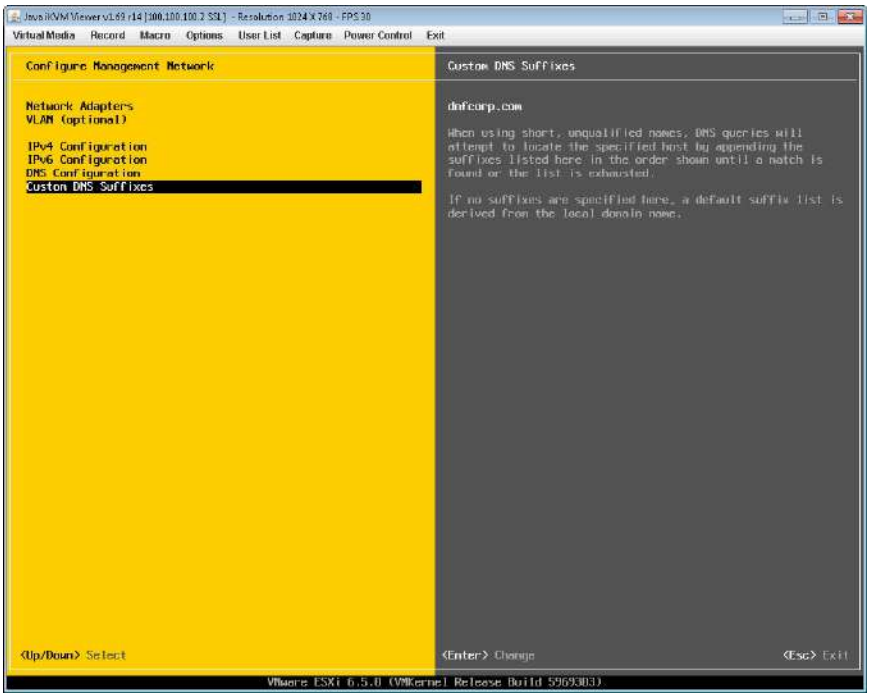
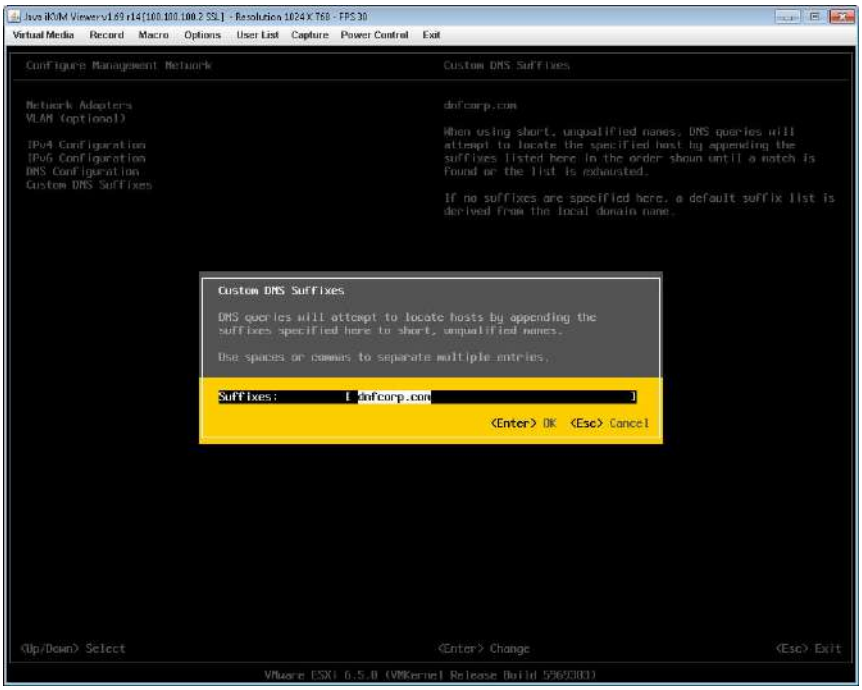


Select **Custom DNS Suffixes**, then hit the **ESC** key to return.



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

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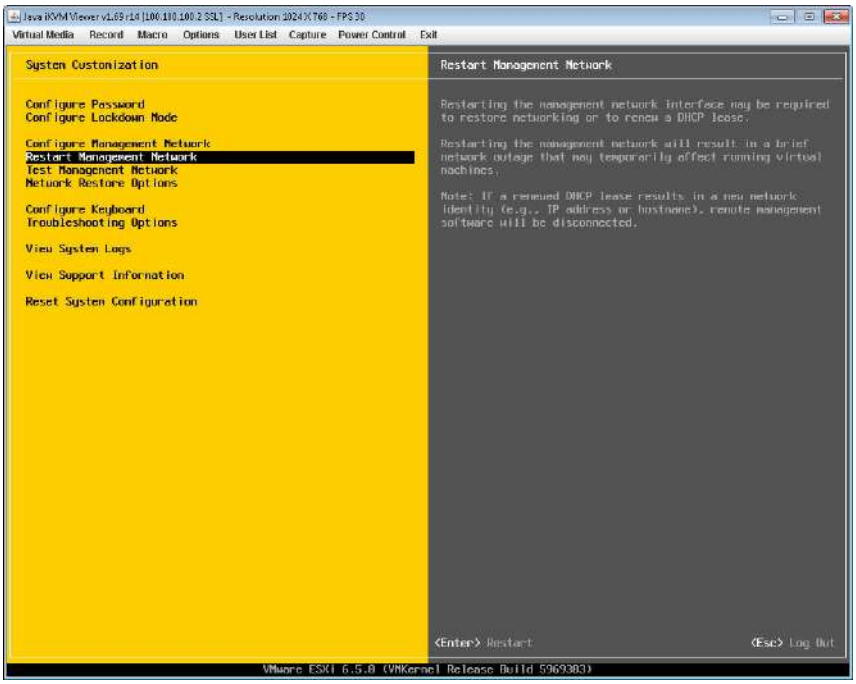

Select **Restart Management Network** to complete configuration of settings. Hit the “ESC” key to log out.

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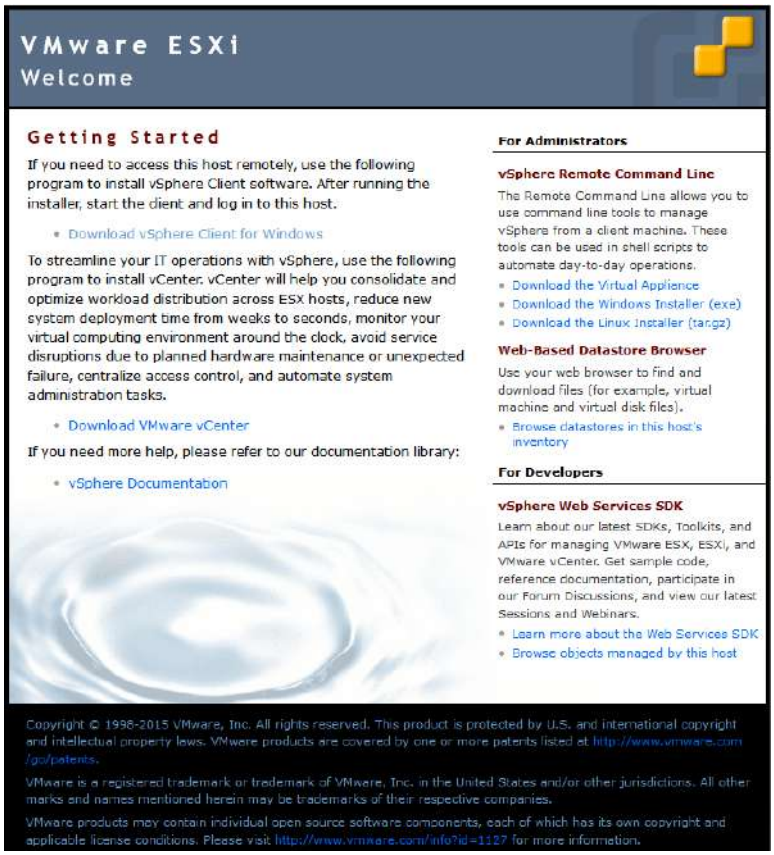
4.4 Steps to Configure SCVM Management Port (VMware)

You will need to configure a computer located on the same subnet as the StoneFly DR365V-HA appliance to allow it to remotely manage the StoneFly DR365V-HA. Open a web browser on the remote system and in the address bar type in the IP address set in previous section "http://DR365V_IP_ADDRESS" and press the **Enter** key. You will see a screen like the one shown below:



Click on the **Download vSphere Client** link. This will guide you to download and install the vSphere Client which will allow you to access your StoneFly DR365V-HA via its VMware ESXi hypervisor.

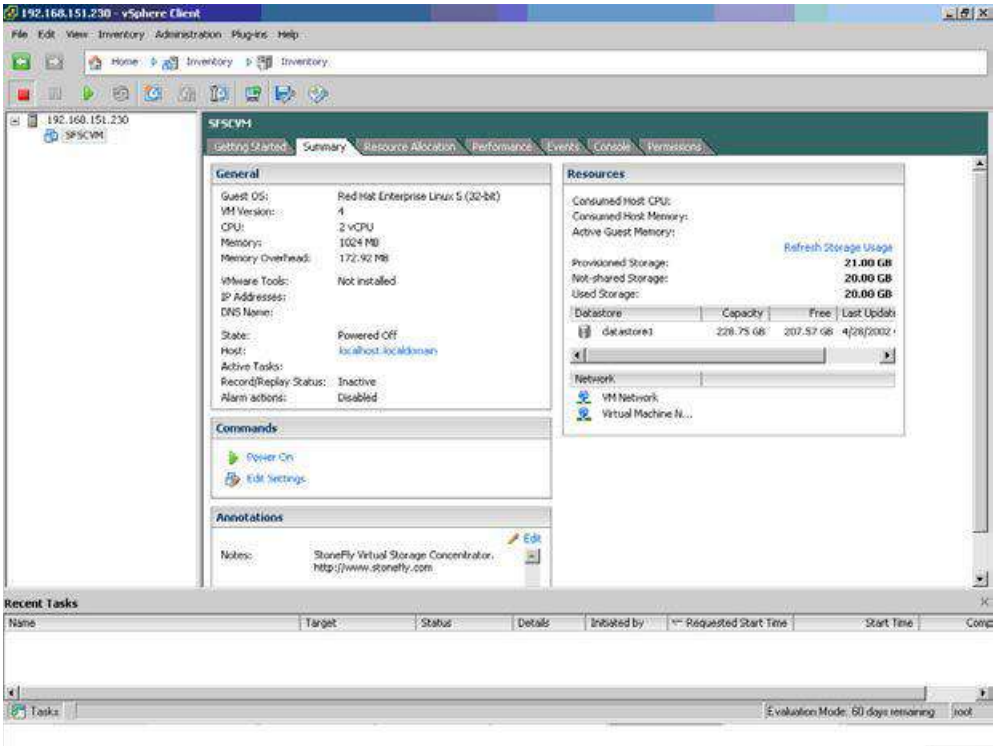
After the VMware vSphere Client is installed, it will create an icon on your desktop. Double-click on the "vSphere Client icon" to launch the Client. Use the same credentials to log in to the system:

IP address / Name: *<IP address you configured for the DR365V-HA>*

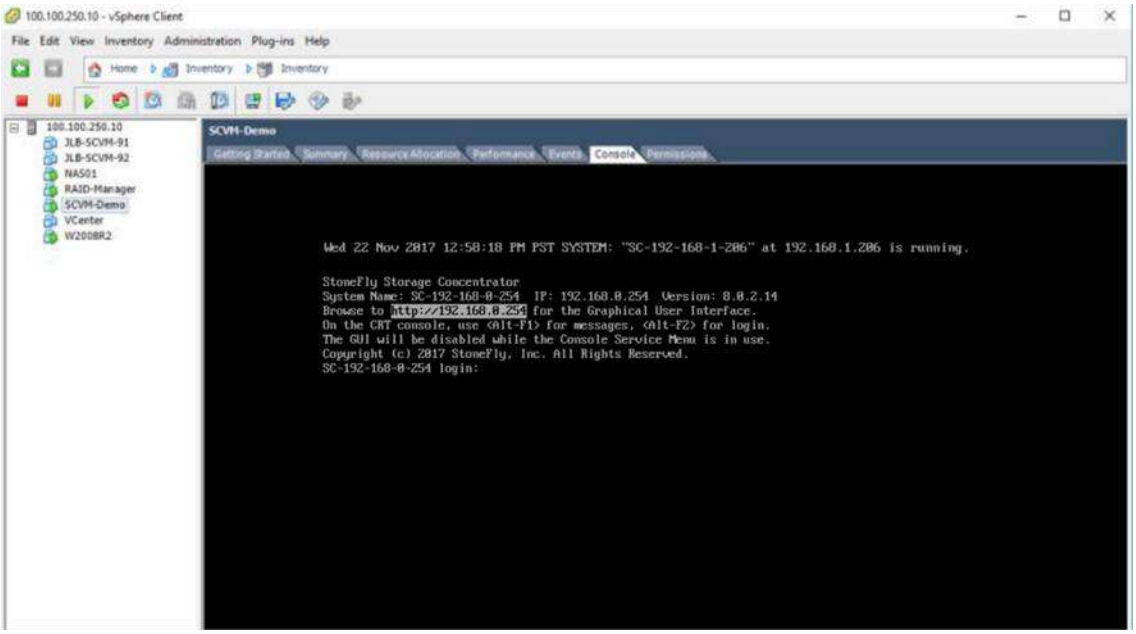
Username: root

Password: Stonefly1!

You will see a screen like the one shown below:



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:



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Steps to enable the StoneFly SCVM:

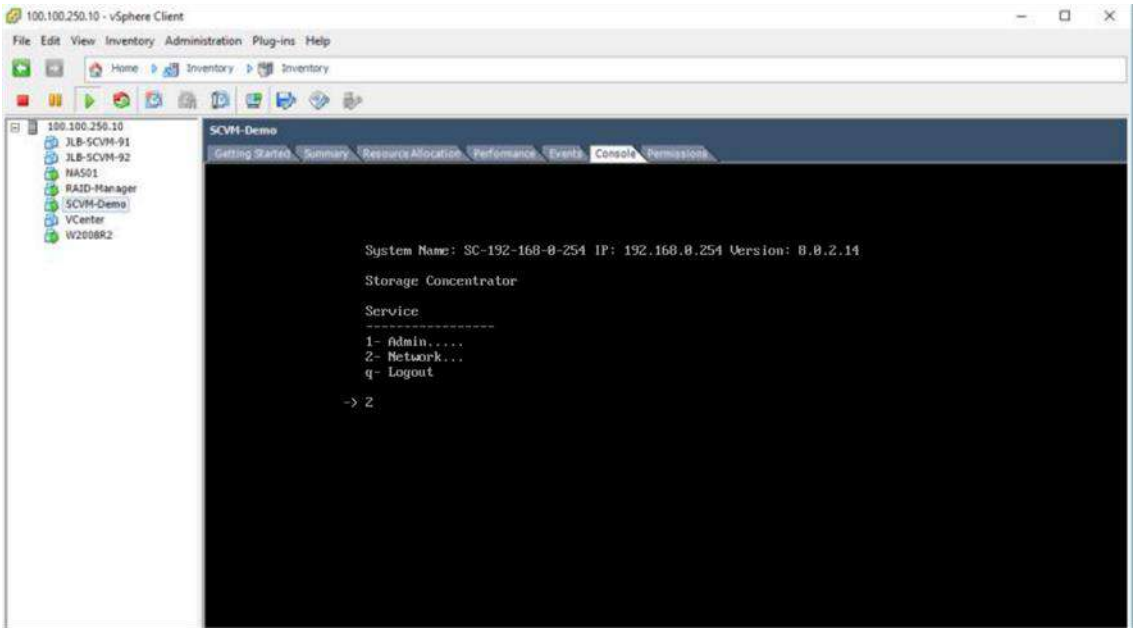
The SCVM management network interface is preconfigured with the default IP address of 192.168.0.254. This must be changed to a valid address for your LAN network. Login to the "SC Service" console using the VMware "Virtual Console" for the SCVM by doing the following:

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.

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.

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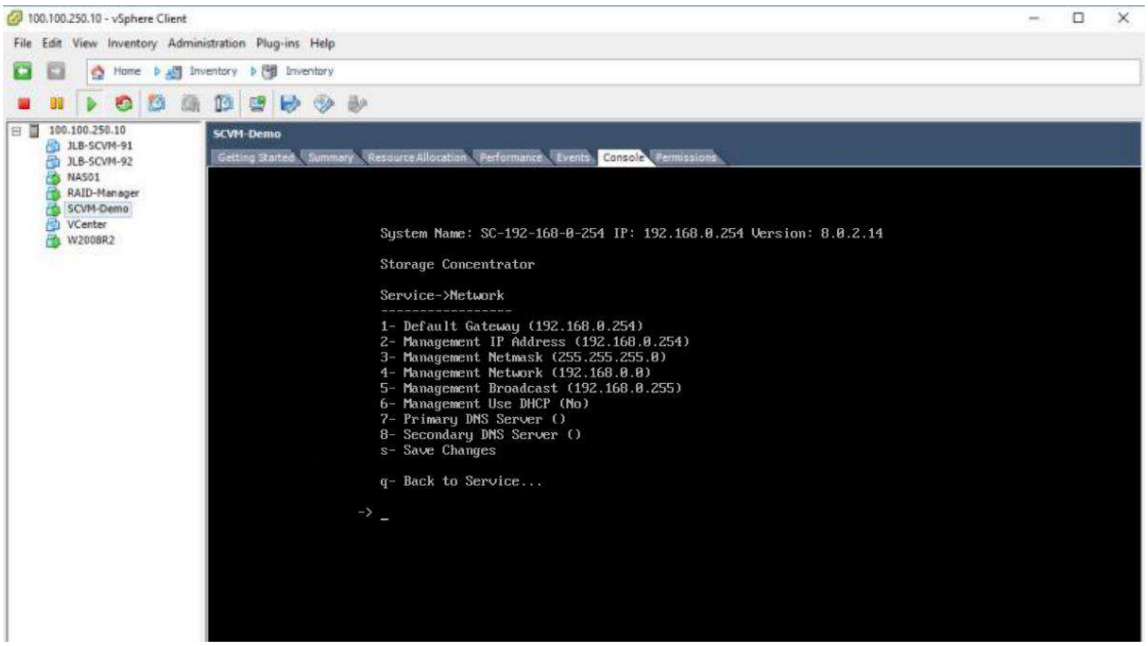
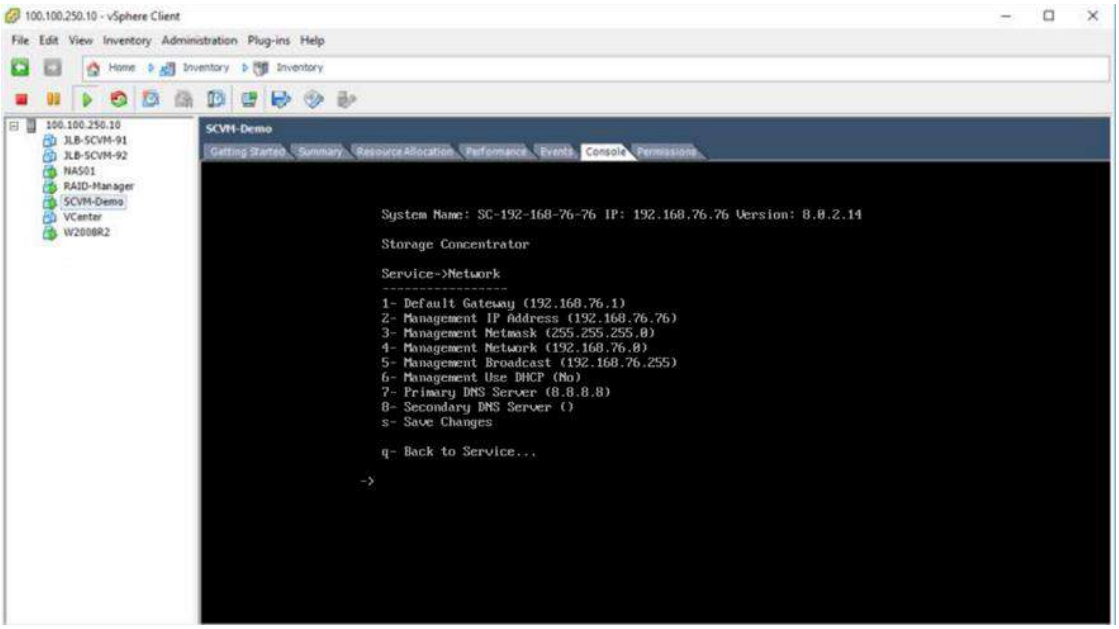


Adjusted settings are shown below. Enter **q** at the command prompt to exit back to the service menu. Enter **q** again to exit out of the user console service.



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.

At this point, it should be possible to log into the SCVM Management GUI by browsing to the management IP address that you have configured. Next step is to configure the SAN data network settings.

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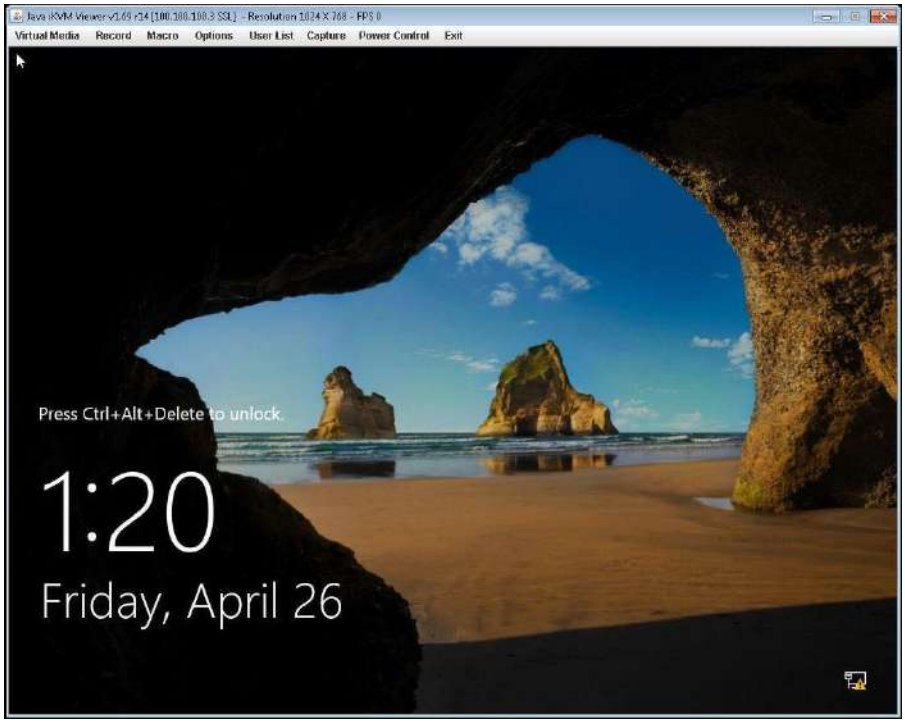
4.5 Hyper-V Management Network Configuration

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**.

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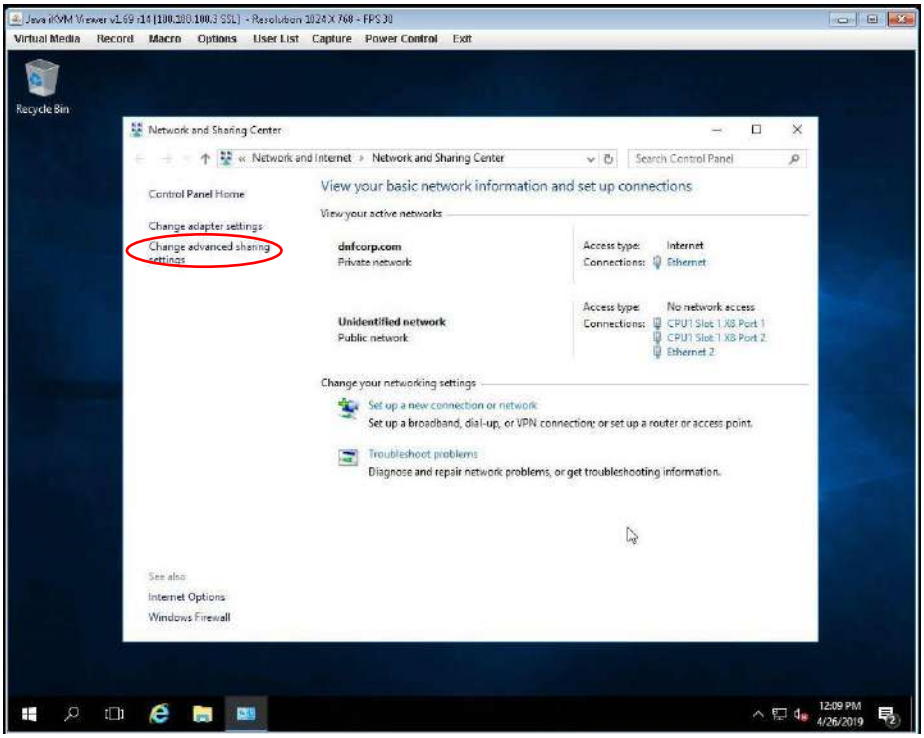
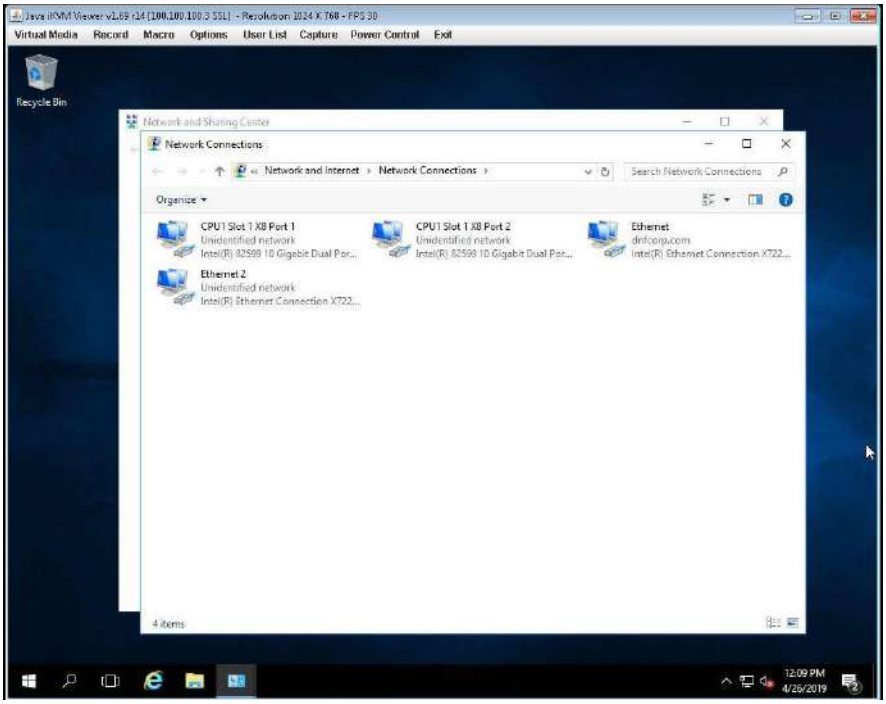


Click on **Change adapter settings** from the left menu.



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

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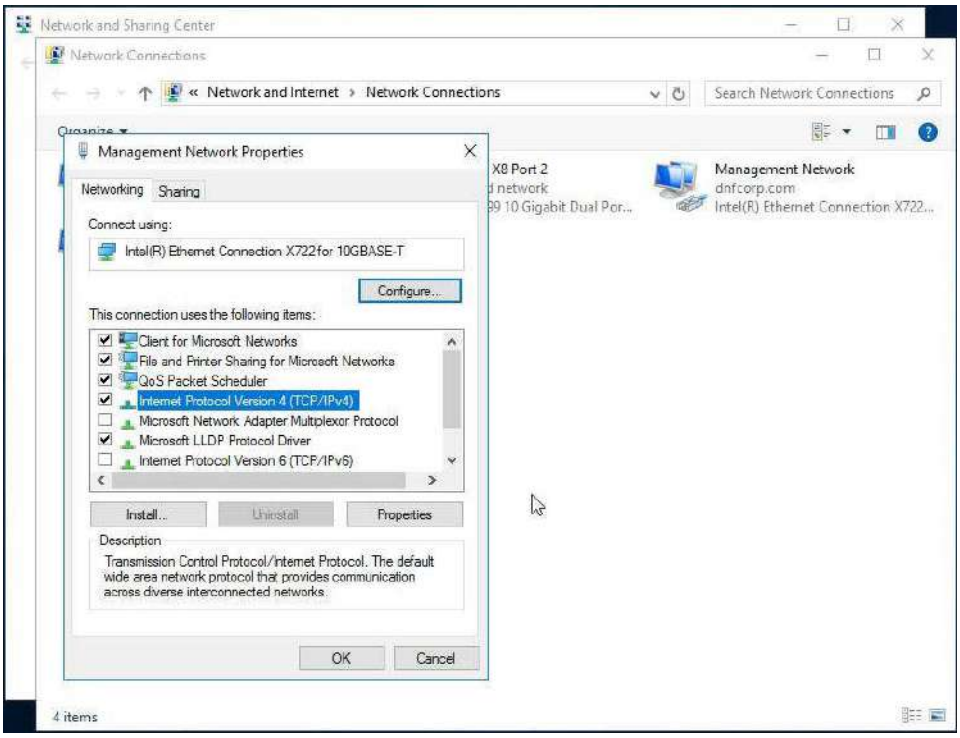
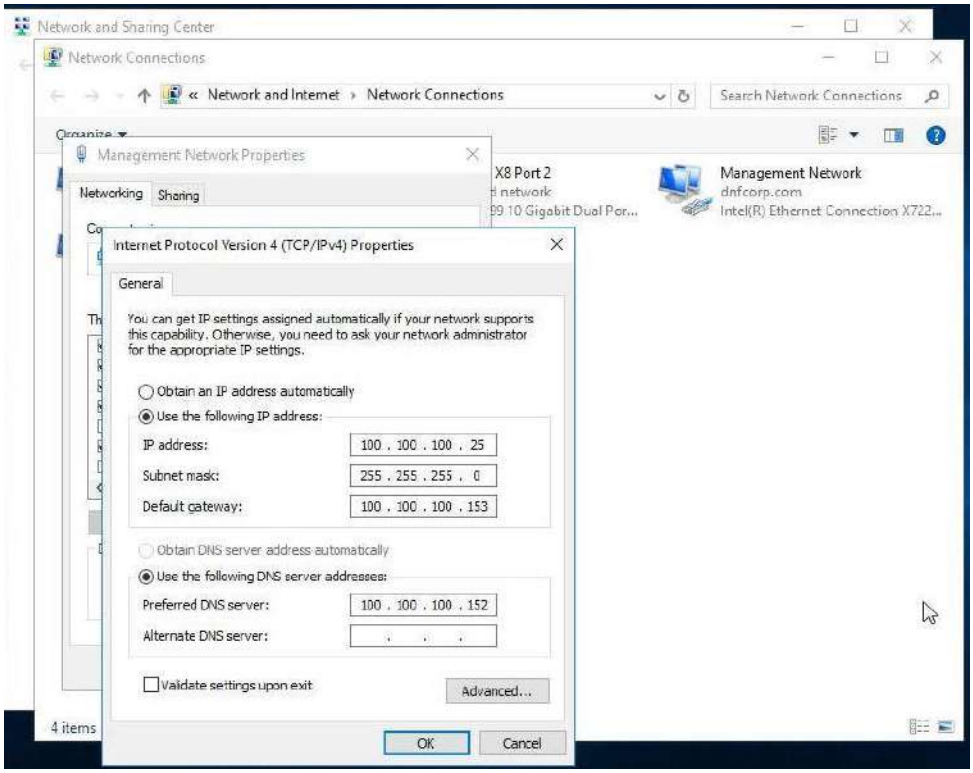


Left click on **Internet Protocol Version 4 (TCP/IPv4)** and then click **Properties:**



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

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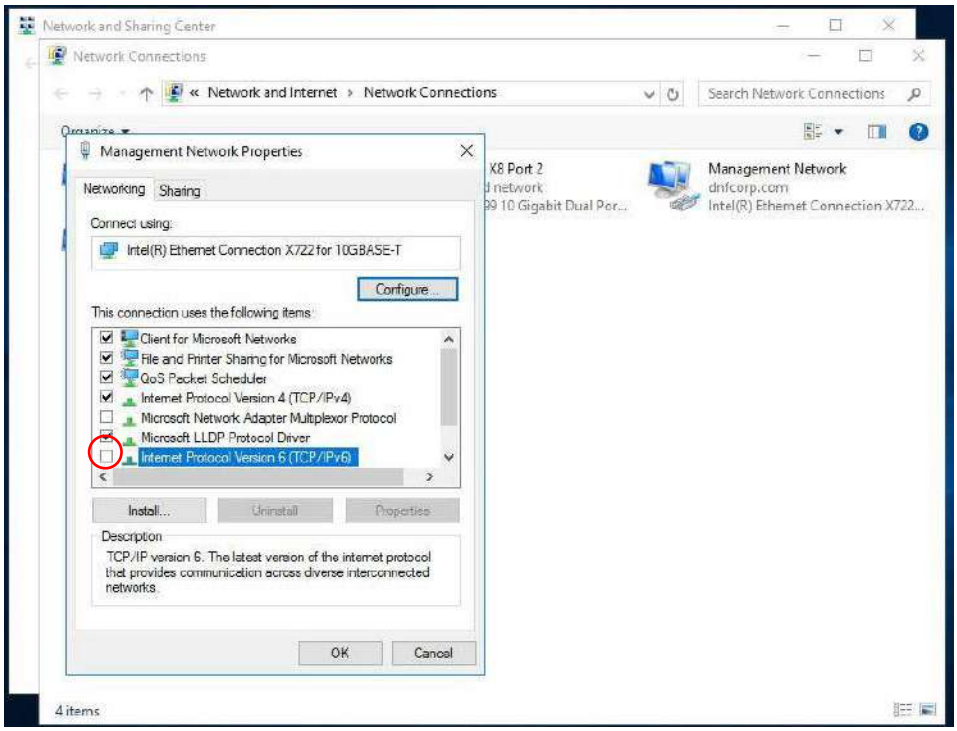
Make sure to disable **Internet Protocol Version 6** from the **Management Network Properties** window by unchecking the box next to it.



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

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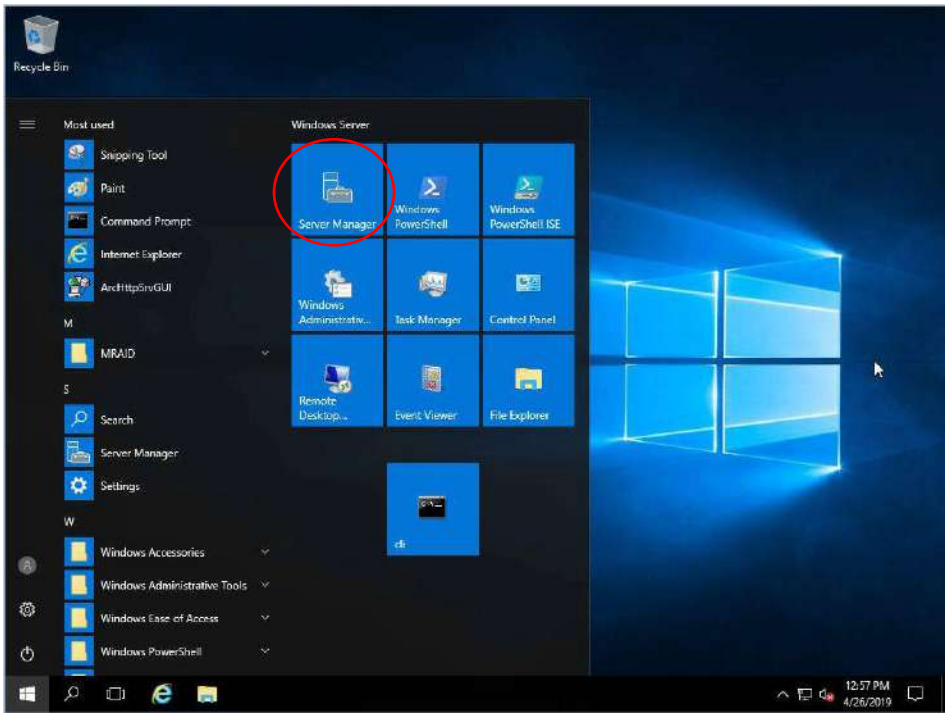
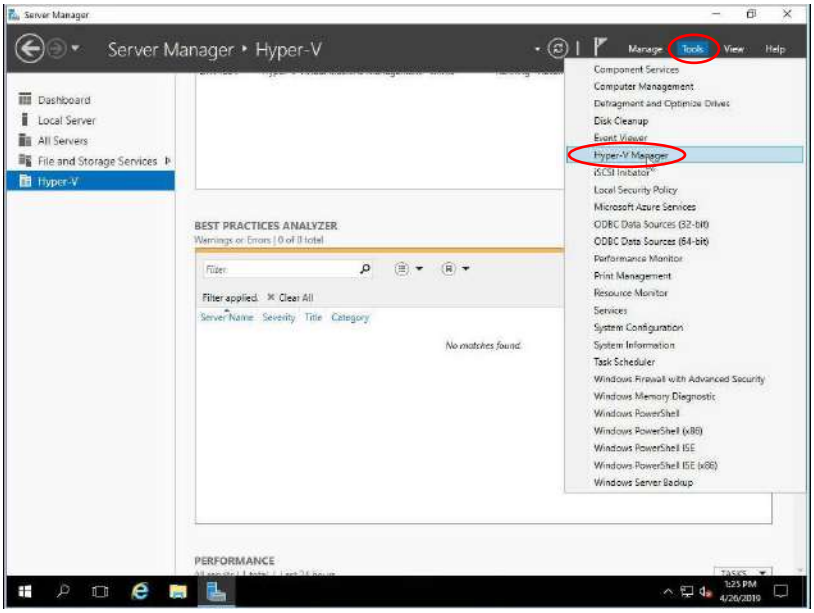
4.6 Steps to Configure SCVM Management Port (Hyper-V)

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.

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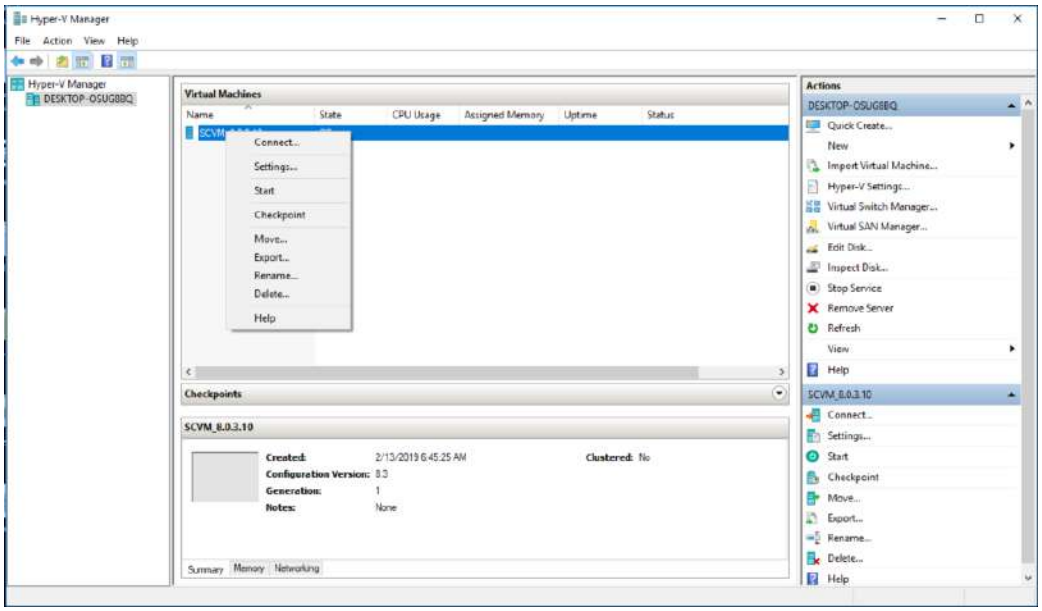
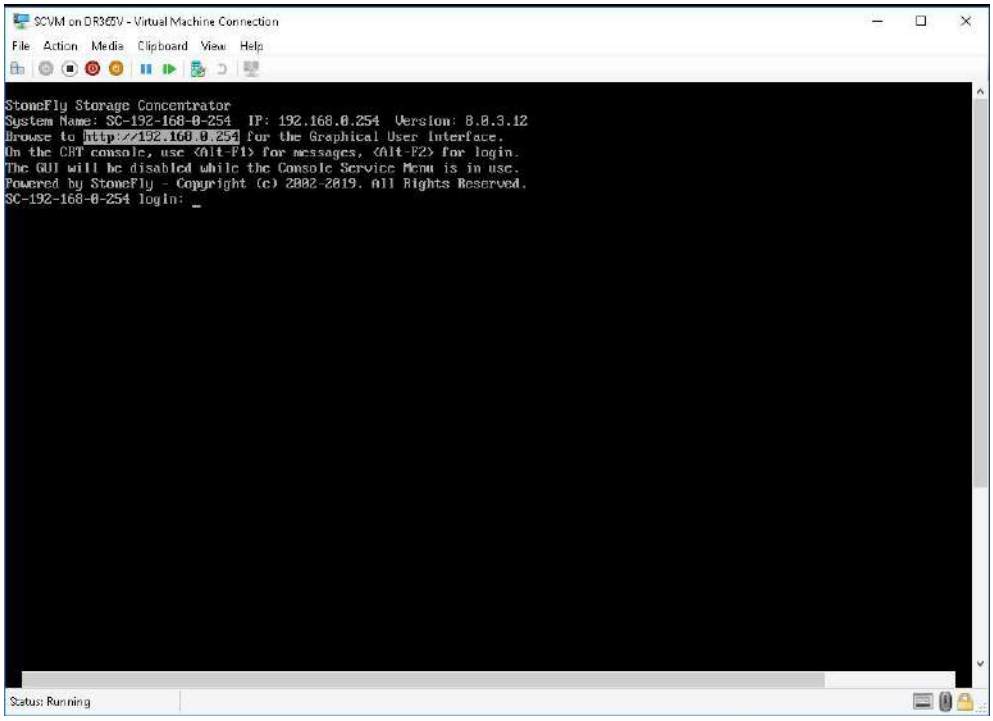


Right click on **SCVM,** and select **Connect** to access the user interface of the Virtual Machine. This will show a window like this:



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.

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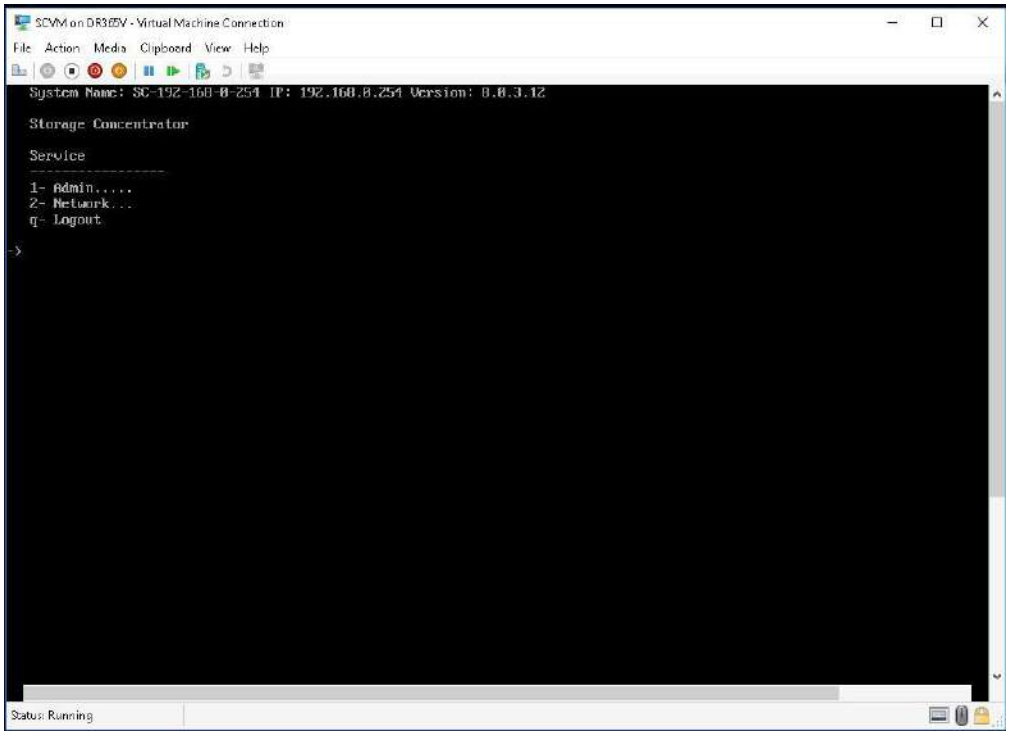
b. At the User ID prompt type **console** and hit **Enter**.

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.

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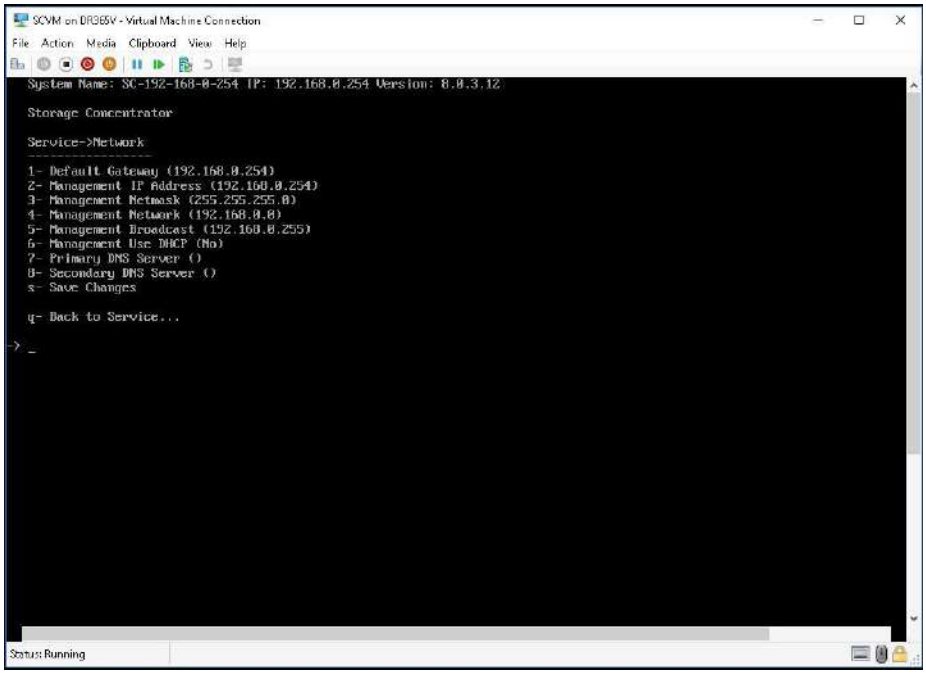

Adjusted settings are shown below. Enter **q** at the command prompt to exit back to the service menu. Enter **q** again to exit out of the user console service.

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.

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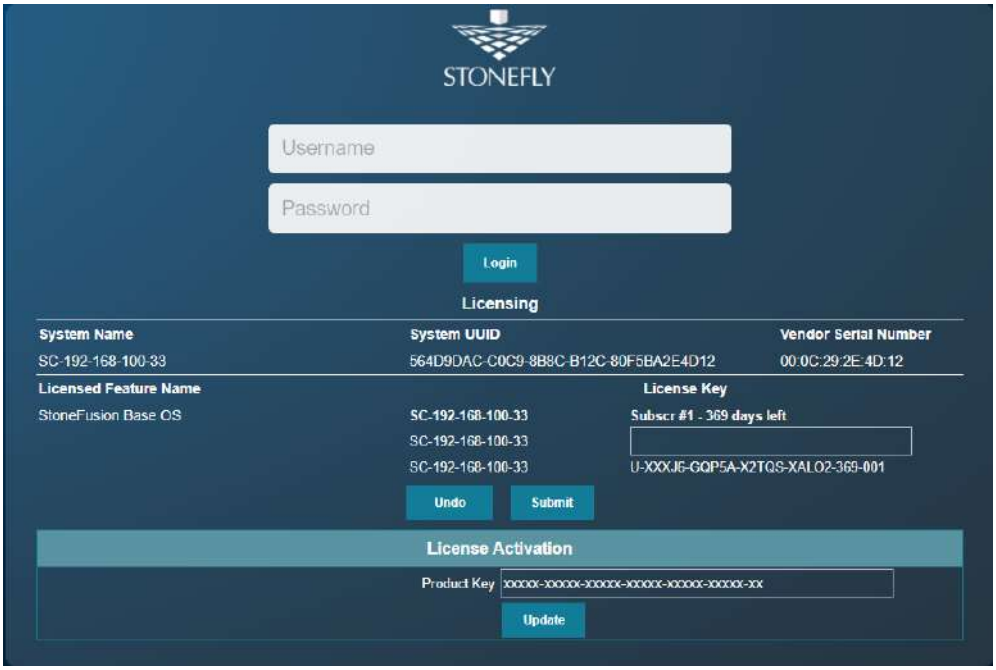
4.7 Configuring the SCVM

Launch a browser then navigate to https://<configured IP address>.



DR365V-HA Login Screen

In the User ID field type: **admin**

In the Password field type: **M@n4g1ng**

Click **Submit**. The Home Page screen will appear.

Click **System**.

Click **Admin**.

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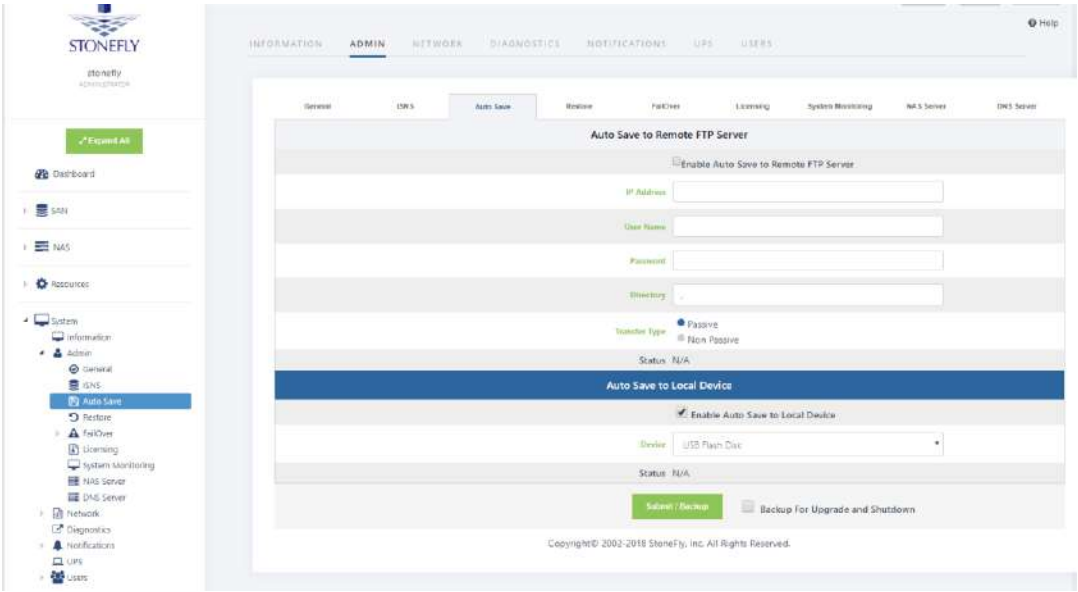
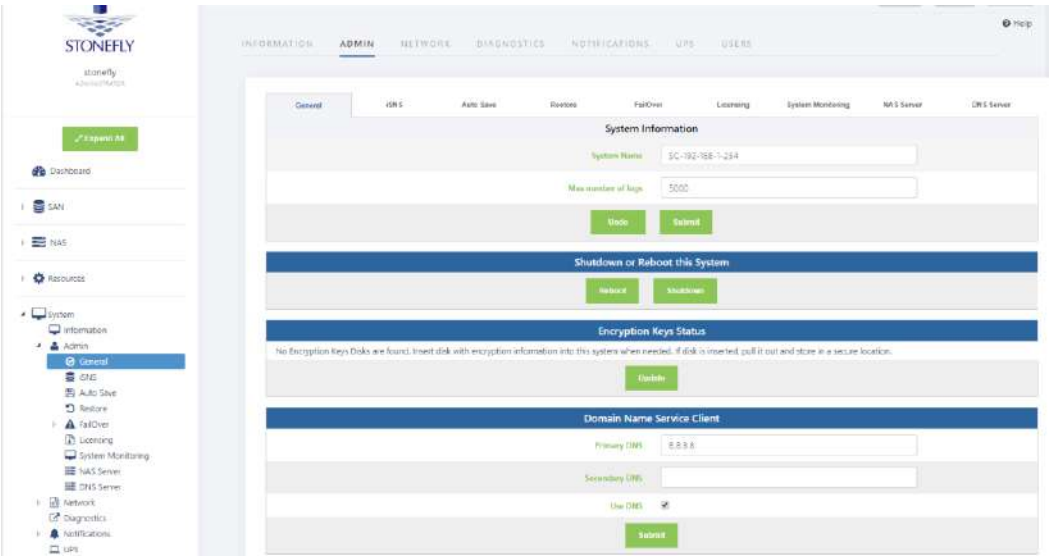
Click **Auto Save**. The Auto Save screen will appear.



DR365V-HA System Auto Save Screen

Select the 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.

Navigate to **Admin > General**. The system admin screen will appear.



DR365V-HA System Admin Screen

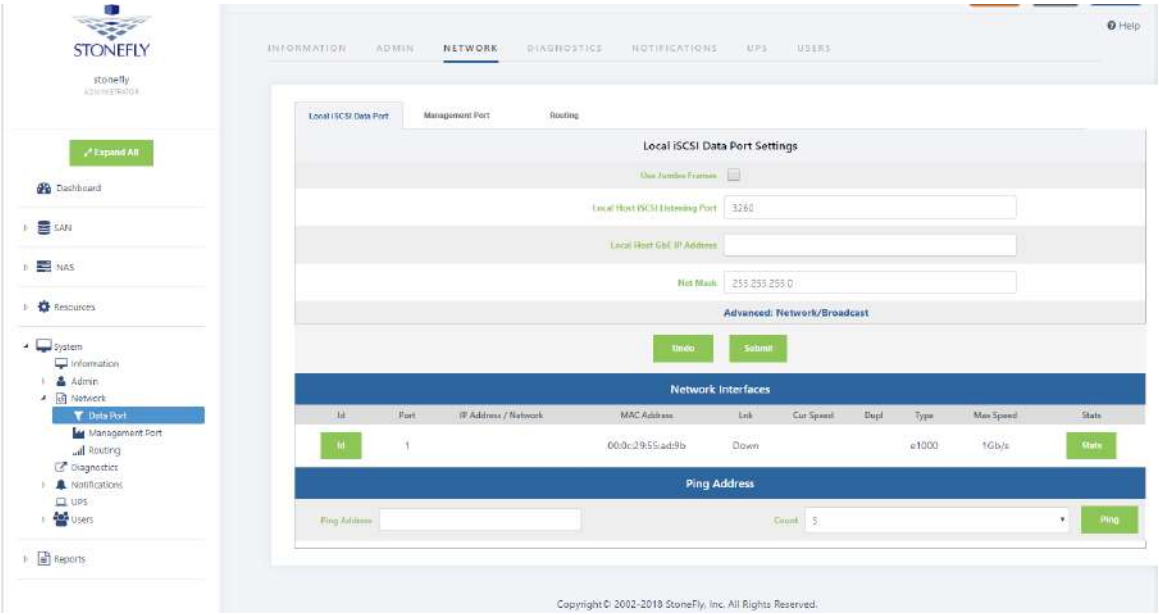
Enter a system name for the *DR365V-HA*.

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.

Click **Submit**.

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



DR365V-HA Local iSCSI Data Port Settings Screen

Enter the **IP Address** for the Local iSCSI Data Port.

Enter the **NetMask** setting for the Local iSCSI Data Port.

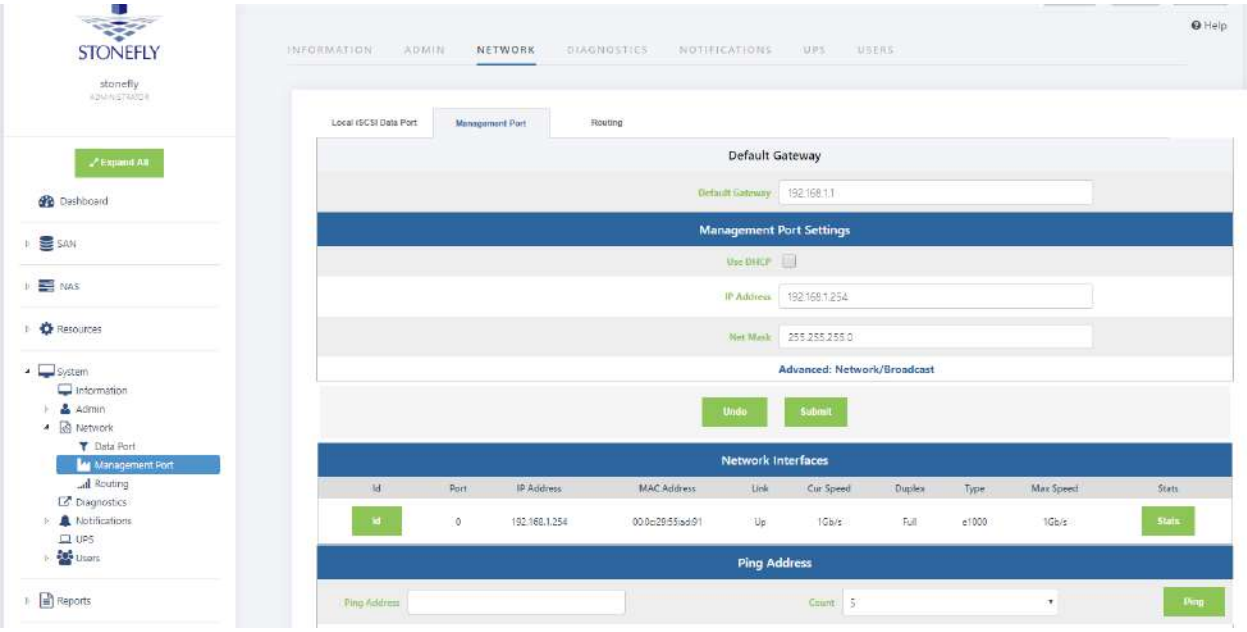
Click **Submit**.

Click **OK** to continue when the confirmation dialog box appears. The *DR365V-HA* 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.

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.

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



DR365V-HA Management Port Settings Screen

Enter the **Default Gateway** setting.

Enter the **IP Address** for the Management port.

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-HA* 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

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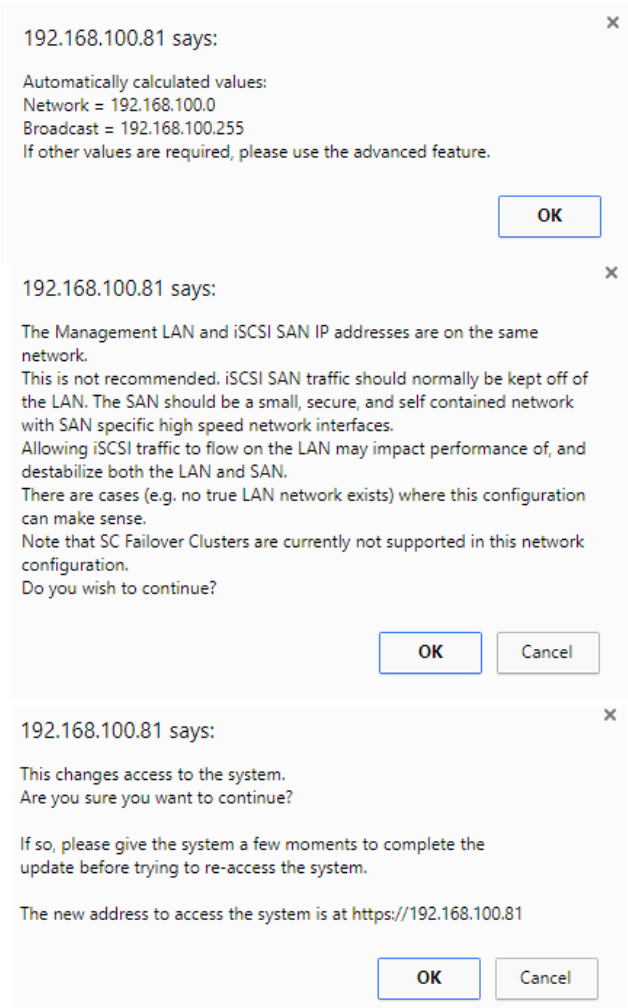
lose its connection to the *DR365V-HA*. To access the *DR365V-HA*, set your browser's URL to point to the new IP address.

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.



System Management LAN Port Change screen

Click on **OK** on each popup screen to continue.

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Click on the new IP address to confirm the change to the Management Port setting.

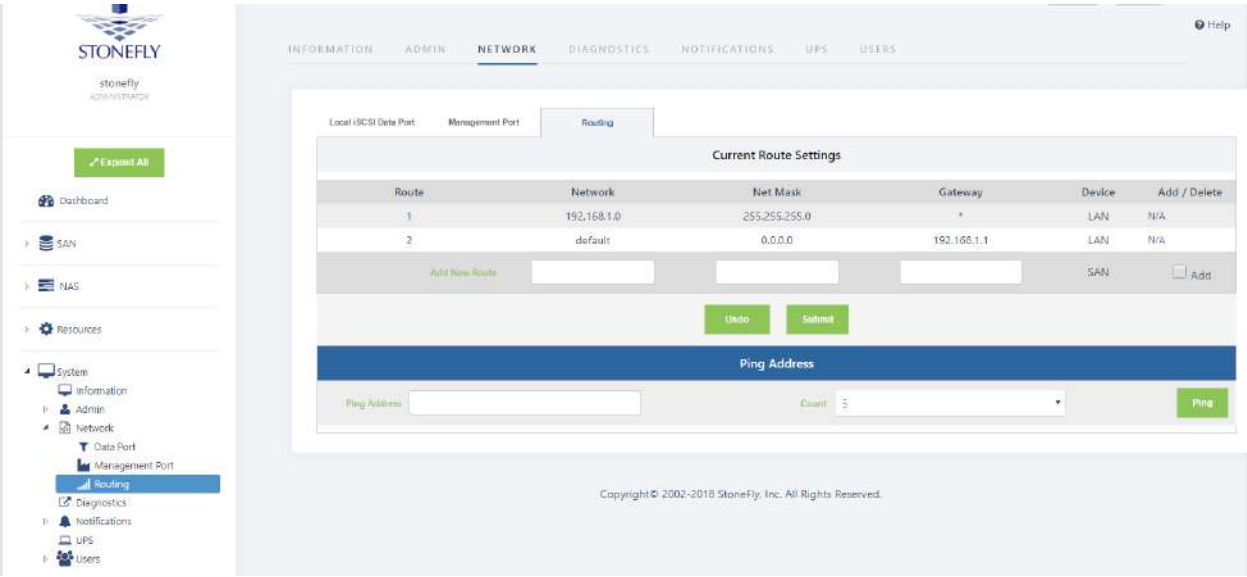
Setting up Routing

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-HA* 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.



DR365V-HA System Management Network Routing screen

In the **Add New Route** fields, enter the **Network**, **Netmask**, and **Gateway** settings for the new route.

Click the **Add** check box.

Click **Submit**.

Navigate to **Admin > General**. The System Admin screen will appear. The *DR365V* must be

rebooted for the new routing settings to be recognized.

Click **Reboot**.

Confirming Setup

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

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-HA* was changed from the factory default to one appropriate for your network.

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-HA* administrative interface login screen will appear.

Click on **System** and then **Network** to confirm the network settings.

Click on **Data Port** and confirm the settings.

Click on **Management Port** and confirm the settings.

Click on **Routing** and confirm the settings.

Now that you have completed all of the steps on the Primary Storage Concentrator, return to Section 4.2 on page 36 and repeat all of the same steps on the Secondary Storage Concentrator.

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4.8 Configuring the Veeam Management VM

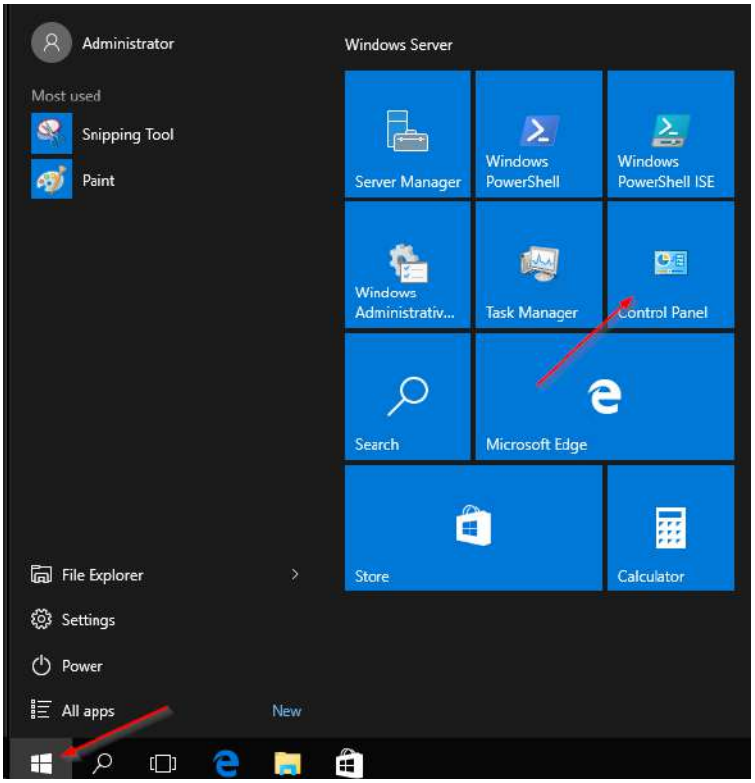
The Windows VM that will be used for Veeam Management cannot exist until the initial cluster is configured and a datastore provided. Your StoneFly engineer will walk you through the process.

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.

4.8.1 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.



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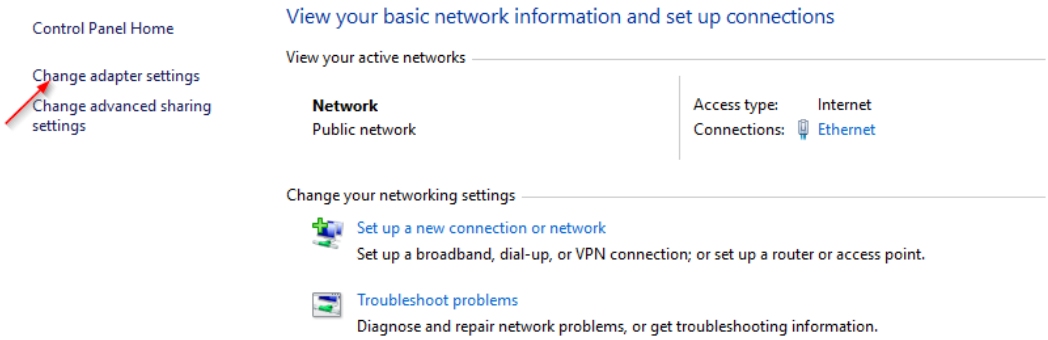
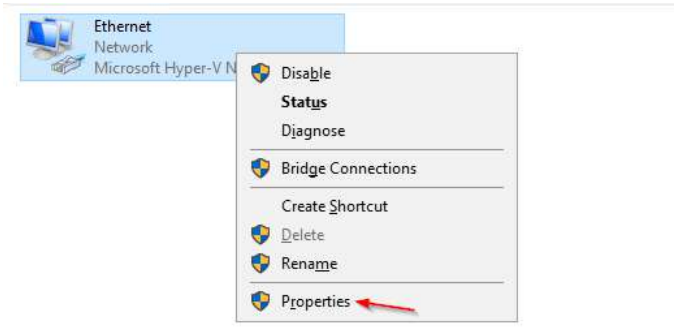
In the **Control Panel**, click on **View Network Status and tasks** under the **Network and Internet** applet.

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



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



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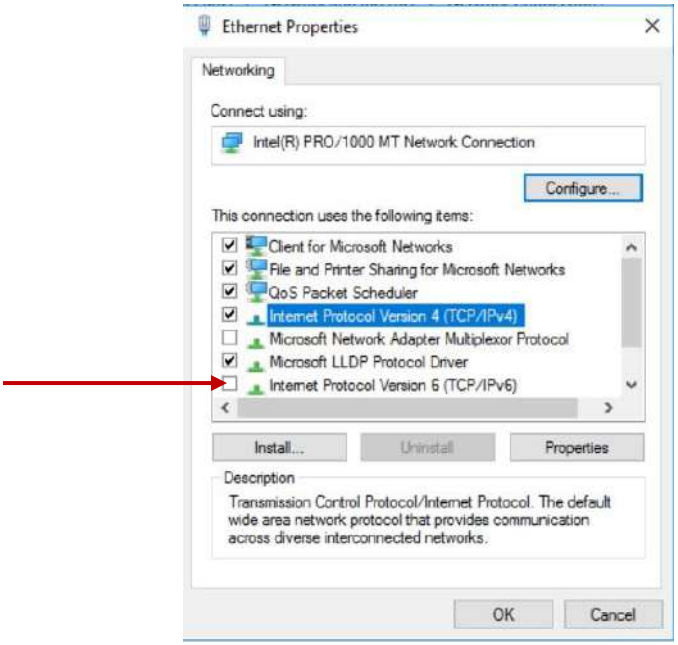
This should open the **Ethernet Properties** window.

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



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

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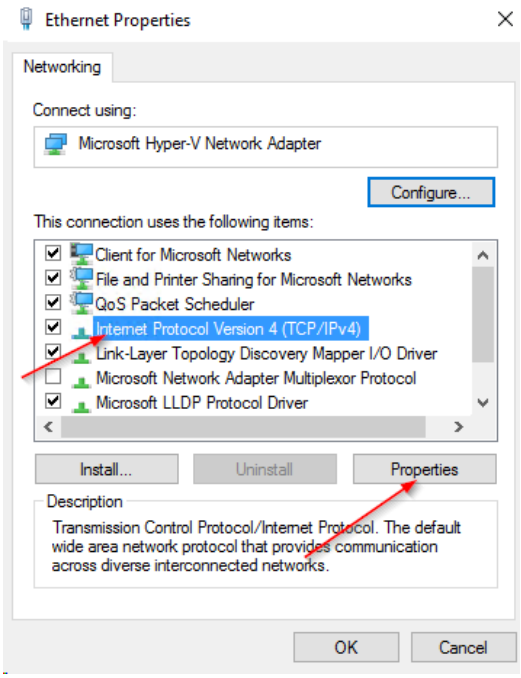
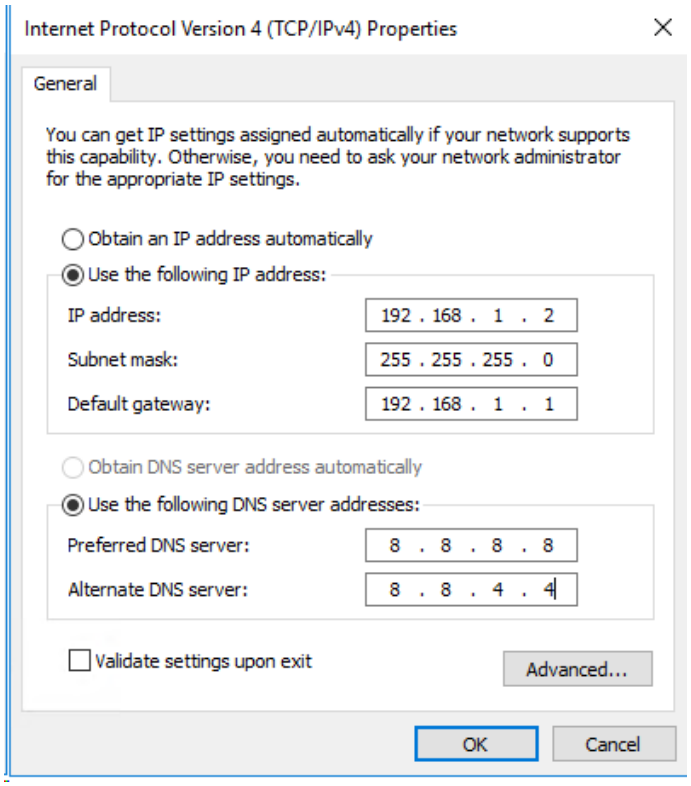


Select **Use the following IP address** and assign a custom IP address to this server, the Network Mask, Default Gateway, and the DNS IP address.



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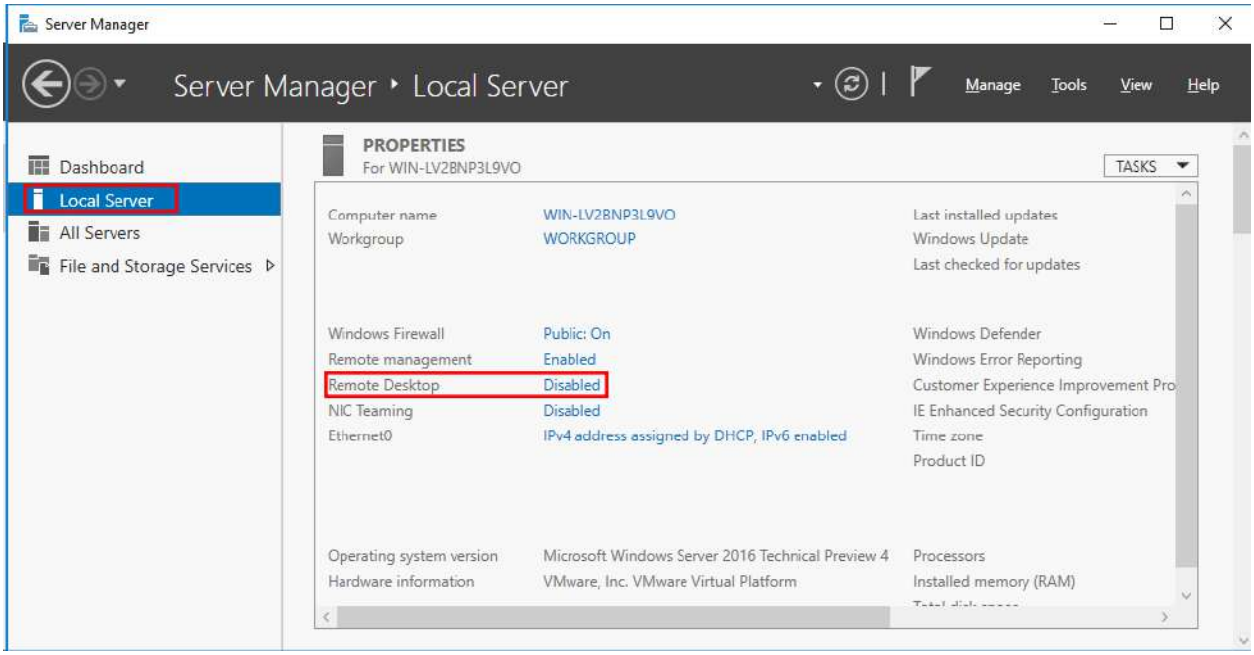
4.8.2 Enabling RDP on the Veeam Management VM

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.



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.

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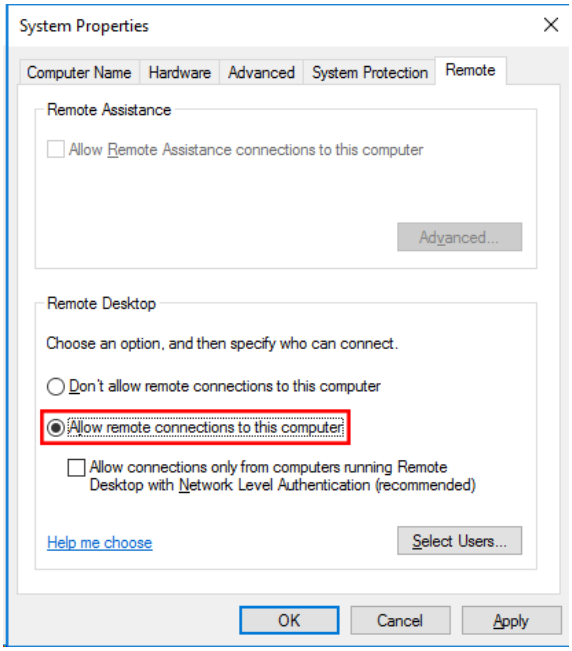
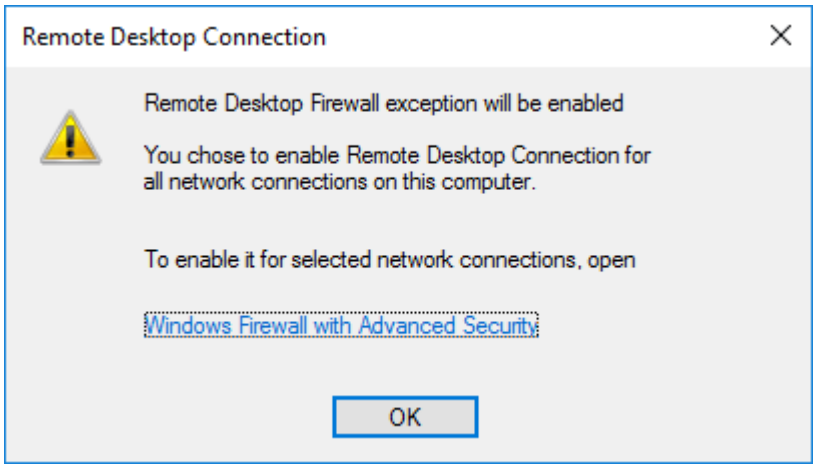
Also uncheck the **Allow connections only from computers running Remote Desktop with Network Level Authentication (recommended)**.



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.



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.**

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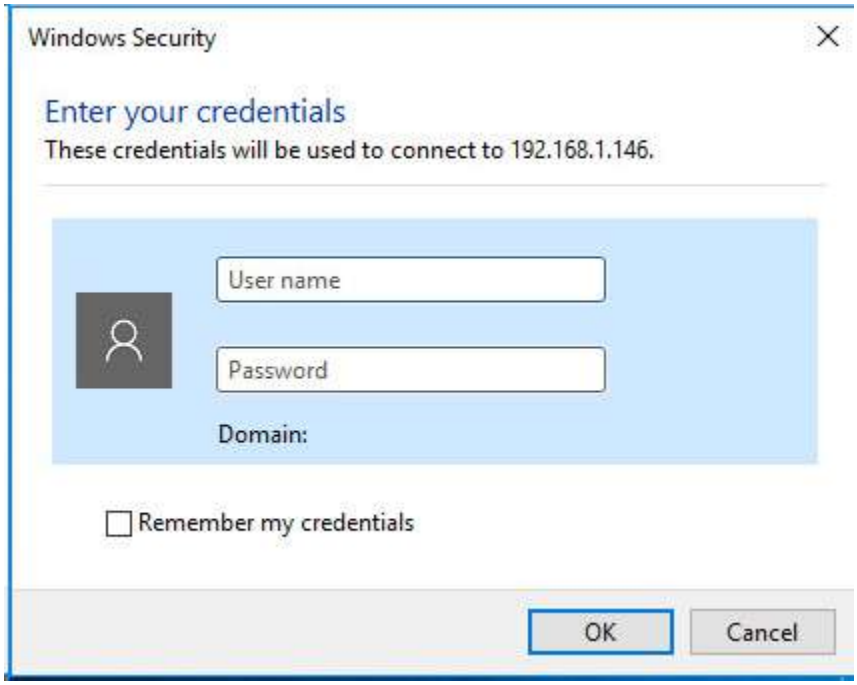
4.8.3 Accessing Windows Server hosting Veeam

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

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.



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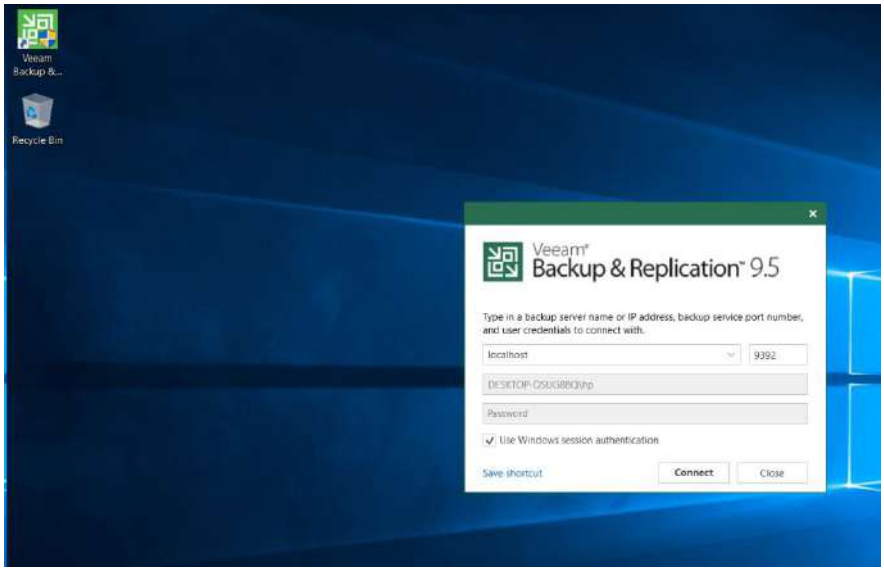
Once the RDP connection is established, you should be able to access the Veeam management software by double-clicking the **Veeam Backup & Replication** icon.



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 Support@StoneFly.com.

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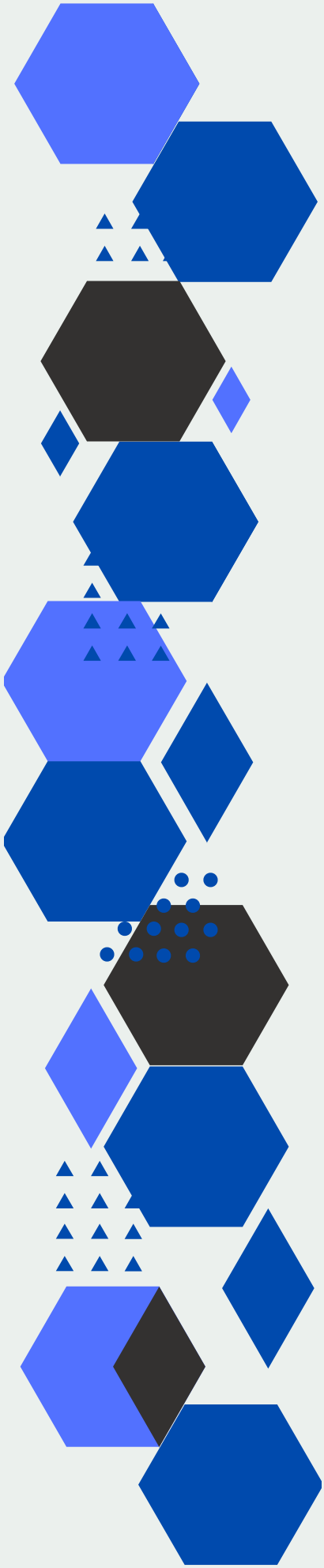

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