Setup Guide

DR365V

Veeam-Ready Backup & DR Appliance

36-bay 4U Rackmount

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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 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.

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

Each StoneFly DR365V comes preconfigured with VMware vSphere, a StoneFly SCVM™ 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 36-Bay / 4U Model (without front bezel)

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For more information about StoneFly single-node, dual node shared nothing, scale out, disaggregated High Availability (HA) cluster appliances & totally disaggregated appliances; please contact StoneFly technical support.

1.1.1 Icons

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

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Chapter-2: Initial Installation

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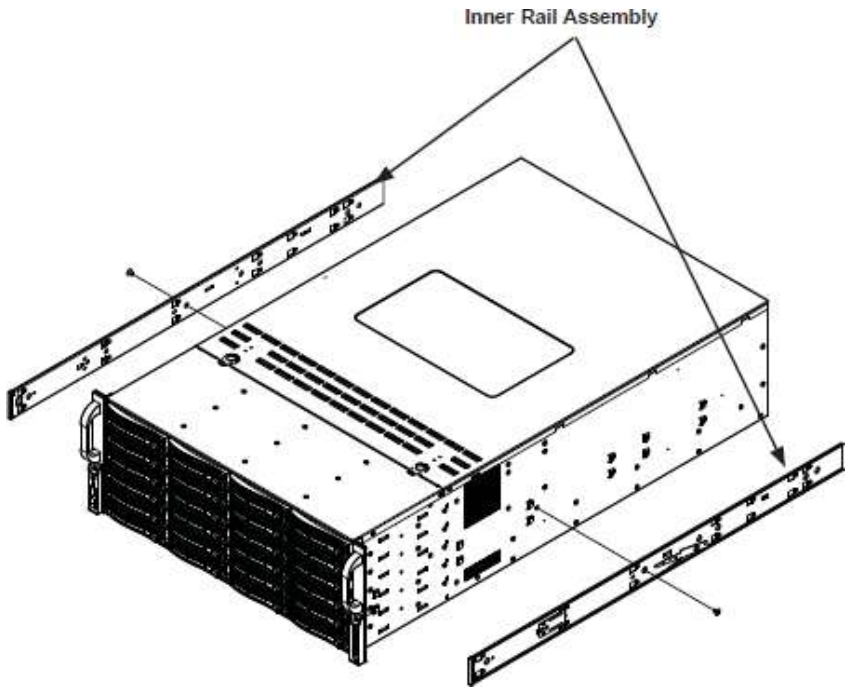
2.1. Rack Installation Instructions

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 26.5" and 36.4" deep.

Identifying the Sections of the Rack Rails

The DR365V appliance package includes one pair of rack rail assemblies in the rack mounting kit. Each assembly consists of an inner rail that secures the appliance with the chassis and an outer rail that is attached directly to the rack. The inner rails are etched with “L” (left side) and “R” (right side) to make them easily distinguishable.



Identifying the Rack Rails

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Locking Tabs

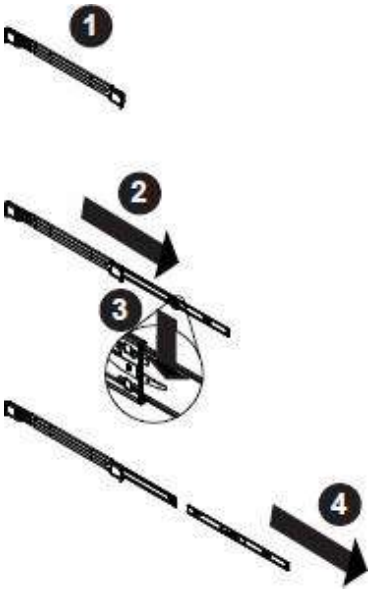
Each inner rail has a locking tab. This tab locks the chassis into place when installed and pushed fully into the rack. These tabs also lock the chassis in place when fully extended from the rack. This prevents the server from coming completely out of the rack when the chassis is pulled out for servicing.

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

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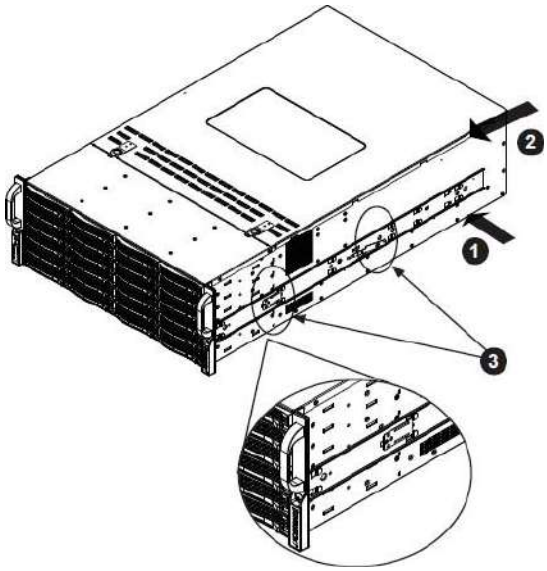
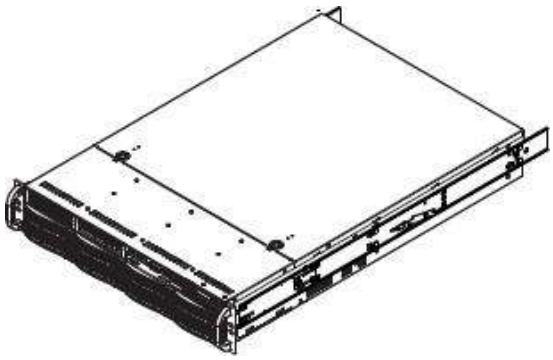
Installing the Inner Rails on the Chassis

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.



Installing the Inner Rails



Inner Rails Installed on the Chassis

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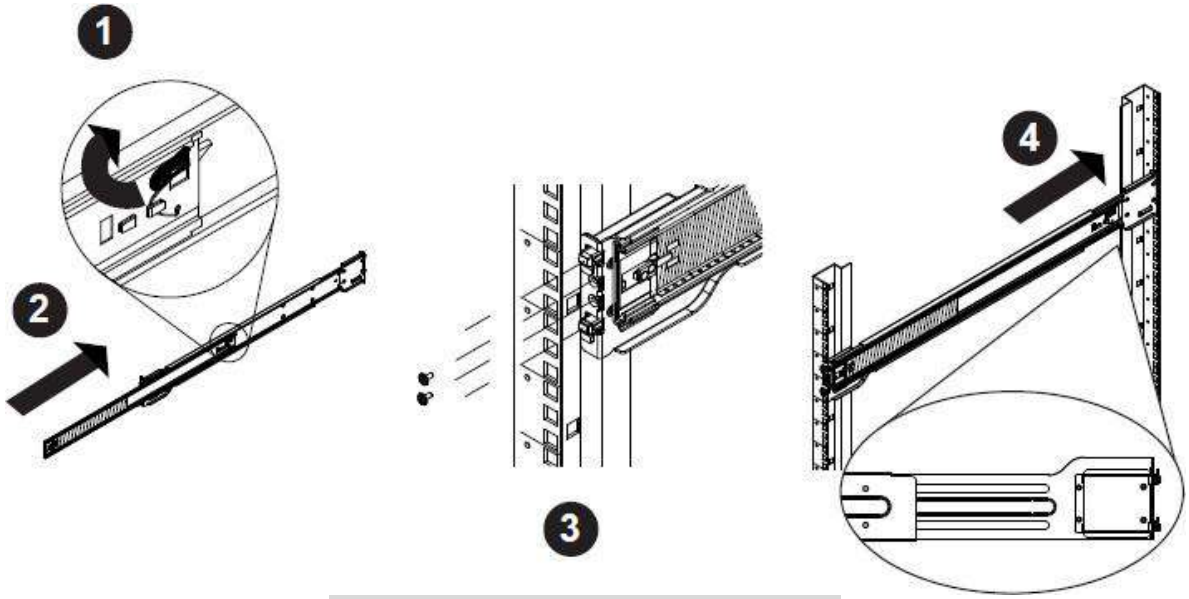
Installing the Outer Rails onto the Rack

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.

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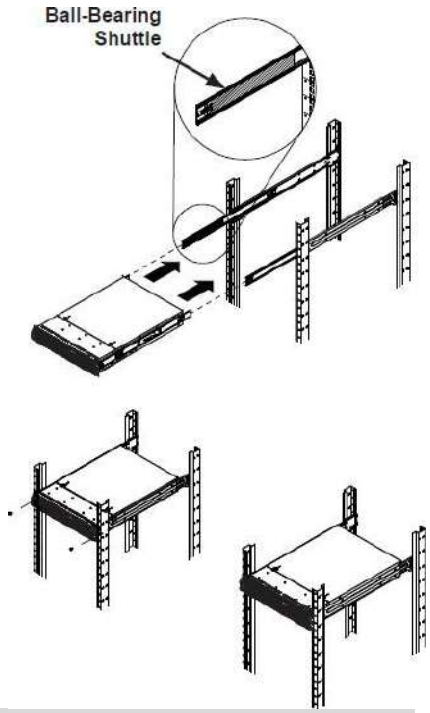
Sliding the Chassis onto the Rack Rails

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.



Installing the Chassis into a 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.

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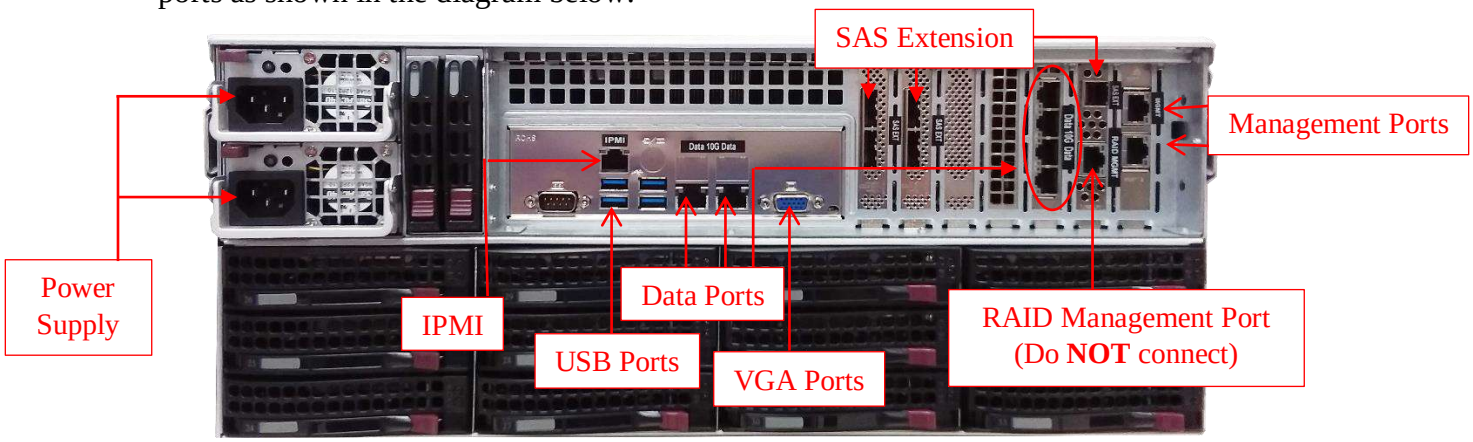
2.2. Power Up & Initial Access

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:



Back Panel Connections of the DR365V 36-bay

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.

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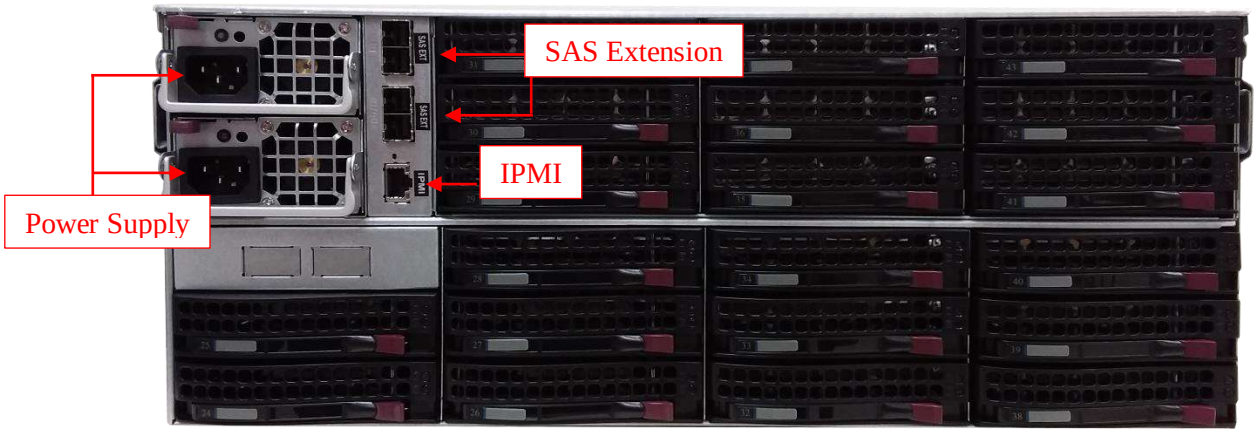
JBOD Connections



Back Panel Connections of the 36-bay JBOD

Connect the JBOD to the DR365V appliance using SAS Extension ports and then connect power supplies.

Note: The JBOD has to be turned-on **BEFORE** the DR365V appliance.

Power-On Procedure

Be sure to adhere to the following instructions when turning on the DR365V:

- Verify that all the SAS, network, and power cables are properly connected.
- Power-on the JBOD(s).
- Wait for the drives on the JBOD(s) to finish initialization – this may take 10 to 20 minutes depending on the number of drives.
- Power-on the DR365V appliance.

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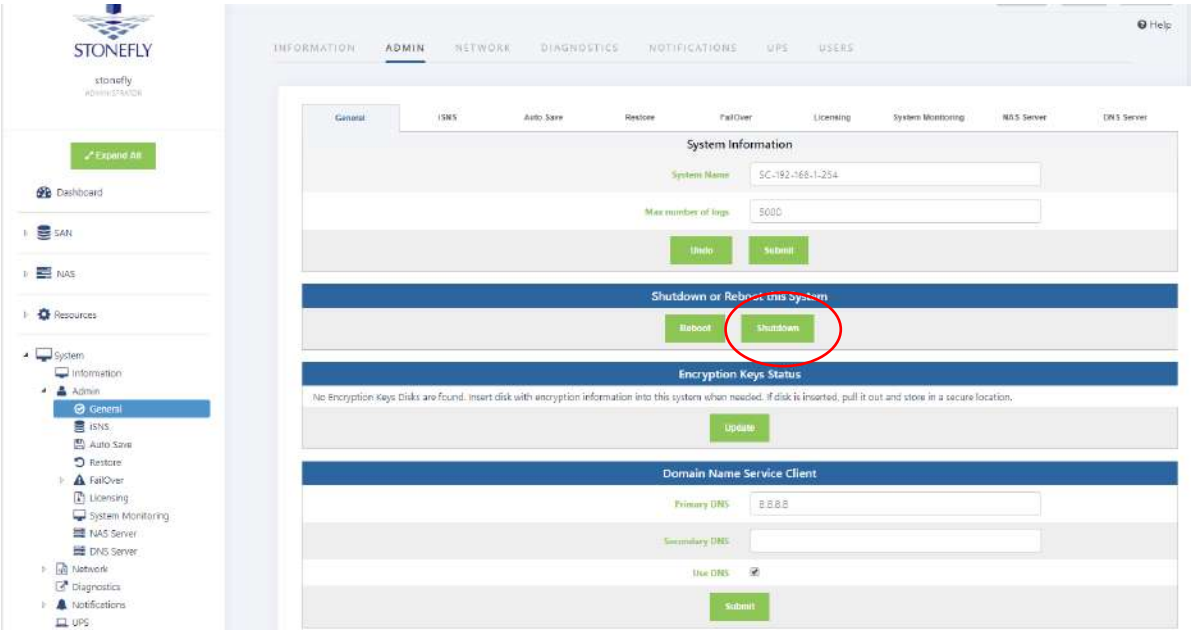
Power-Off Procedure

Note: Before turning-off the appliance, make sure that all tasks are completed.

In order to shutdown the DR365V appliance, login to SCVM and then go to **Admin** > **General.**



Click **Shutdown.**

Once the DR365V appliance is shutdown, you can turn off the JBOD(s).

Note: Be sure to turn off the DR365V first, and then the JBOD(s).

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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.

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

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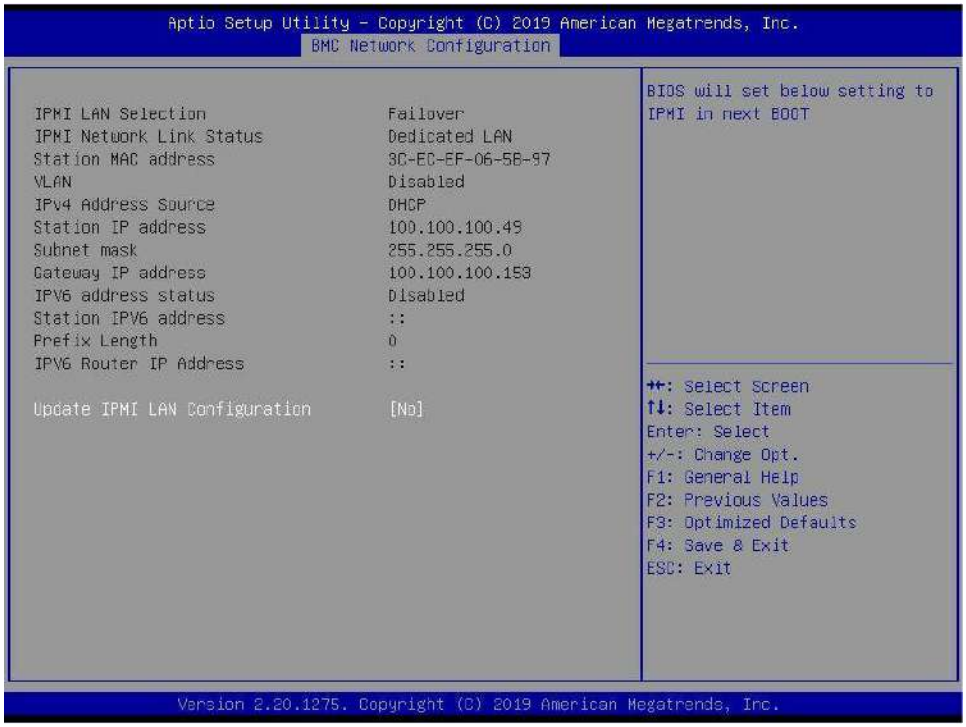
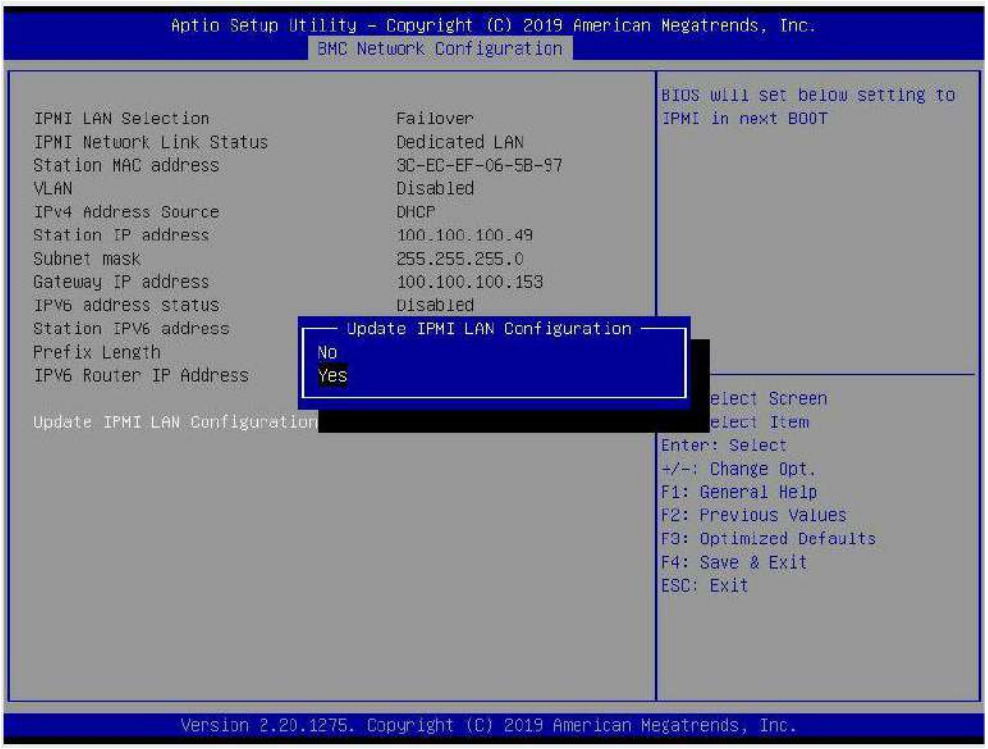
In the **BMC Network Configuration** tab, select **Update IPMI LAN Configuration** and press **Enter**:



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



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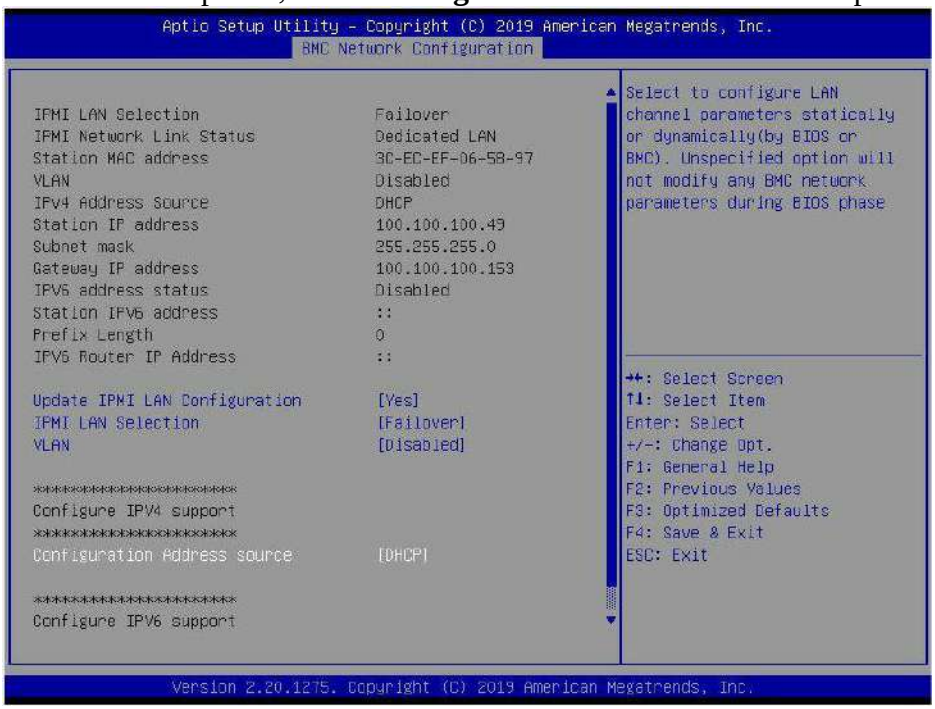
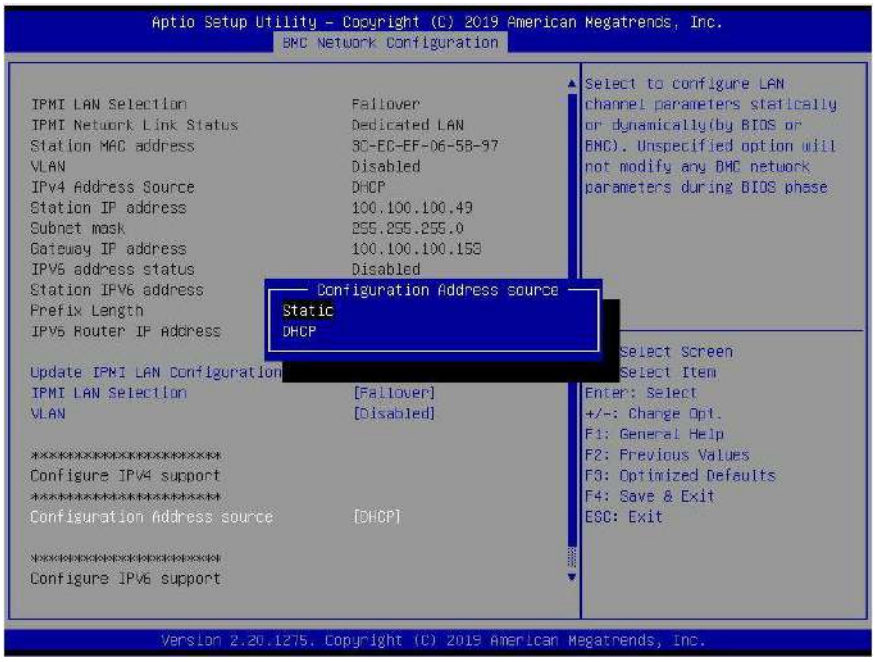
From the additional list of options, select **Configuration Address Source** and press **Enter**:



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



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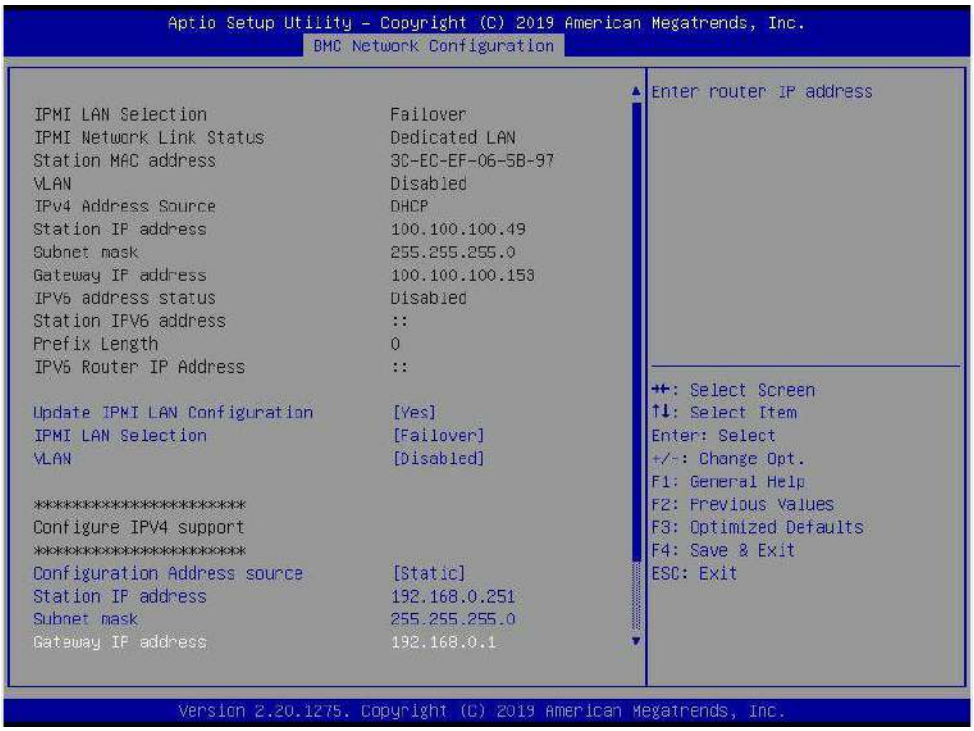
Enter the **Static IP Address, Subnet Mask** and **Gateway IP Address.**



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.

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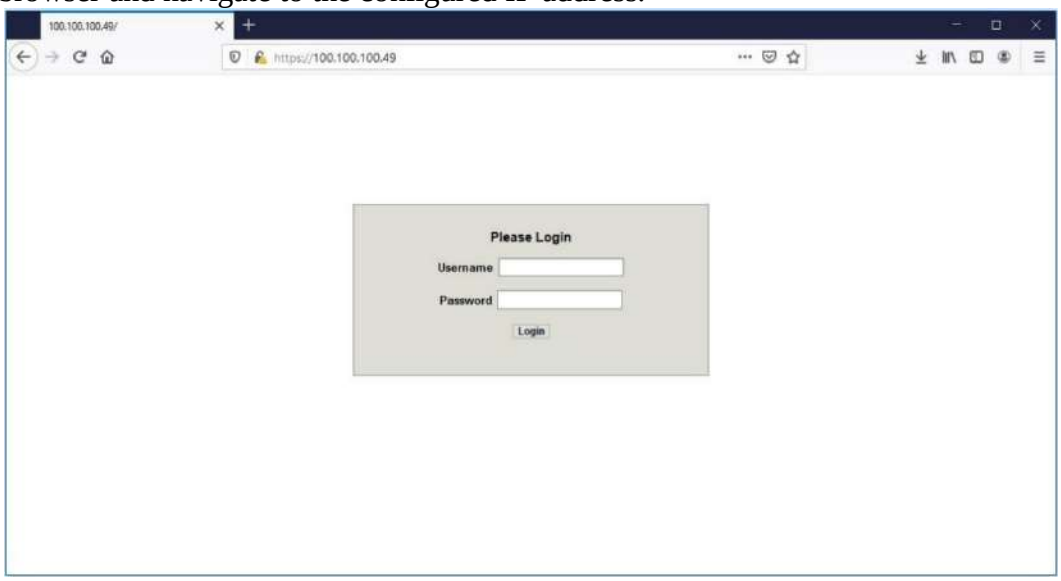
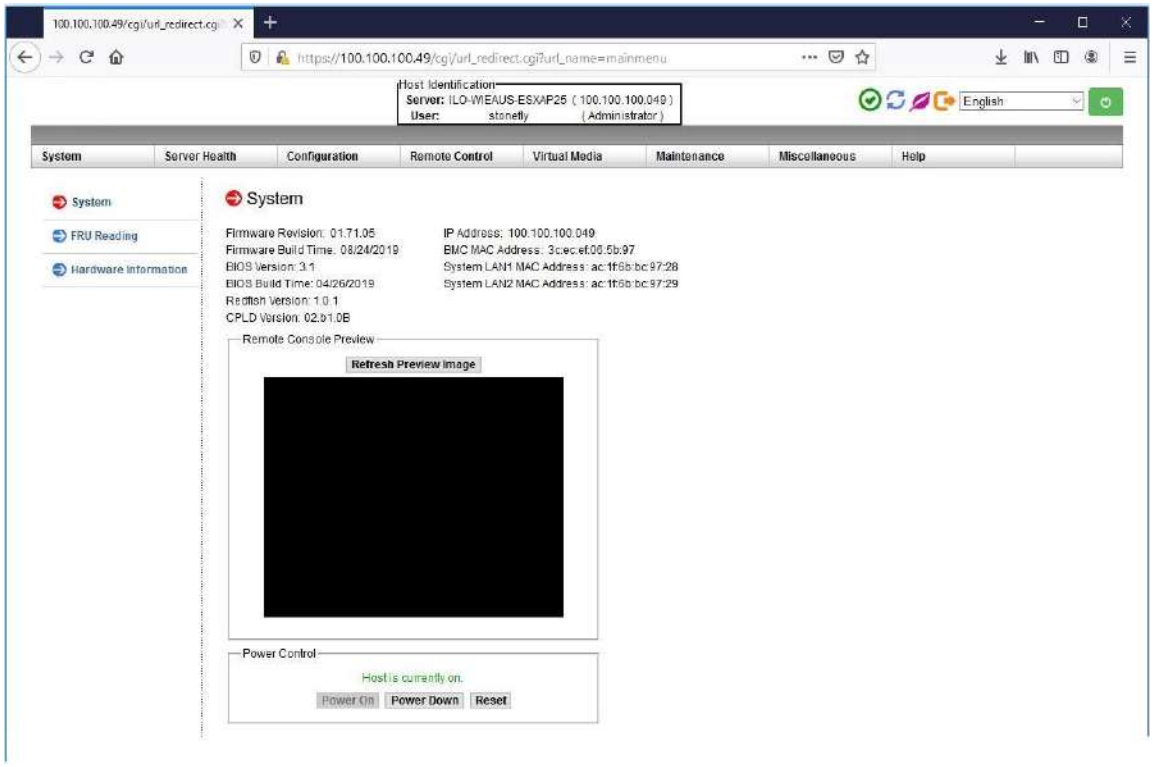
Accessing the IPMI Interface

Start a browser and navigate to the configured IP address.

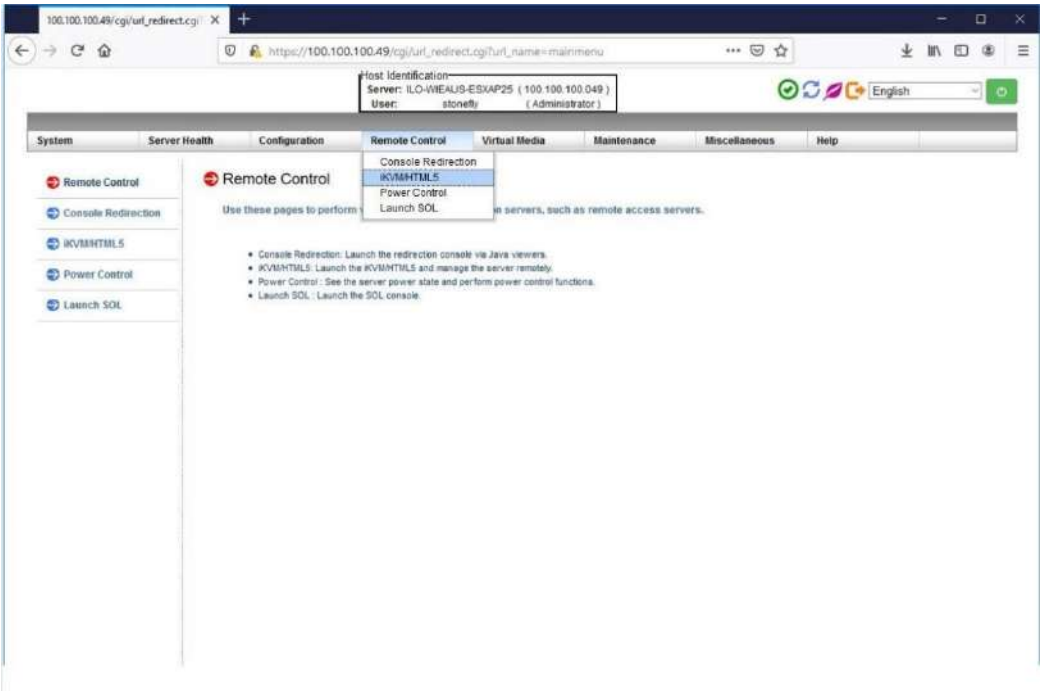


Enter the following information in the login screen:

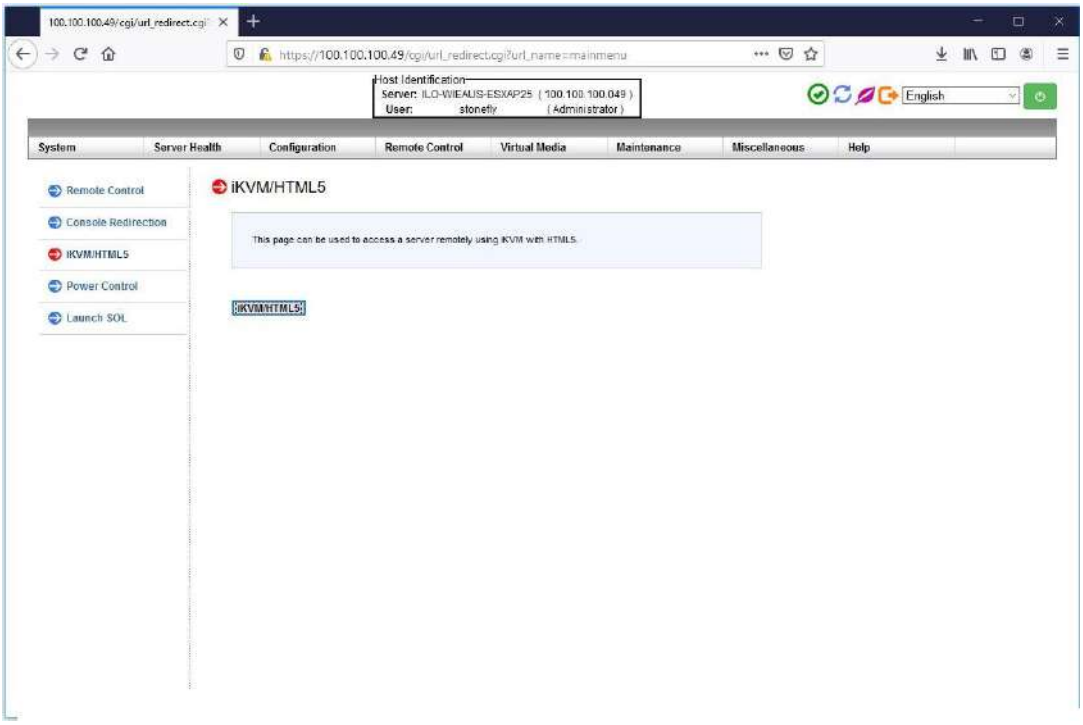
- Username: stonefly
- Password: Stonefly1



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



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



Select **Launch Console** to open the system console.

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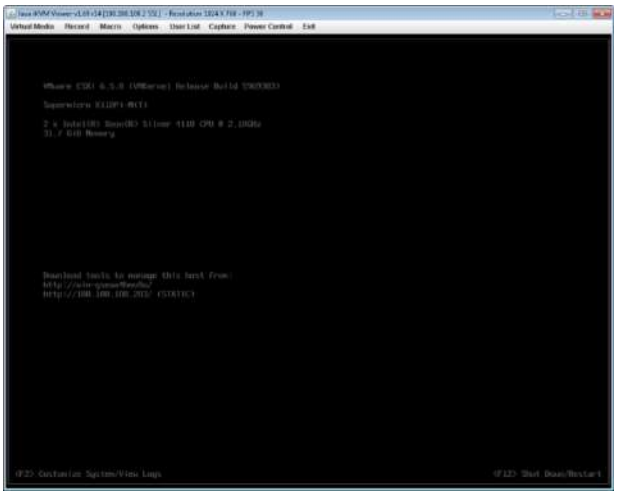
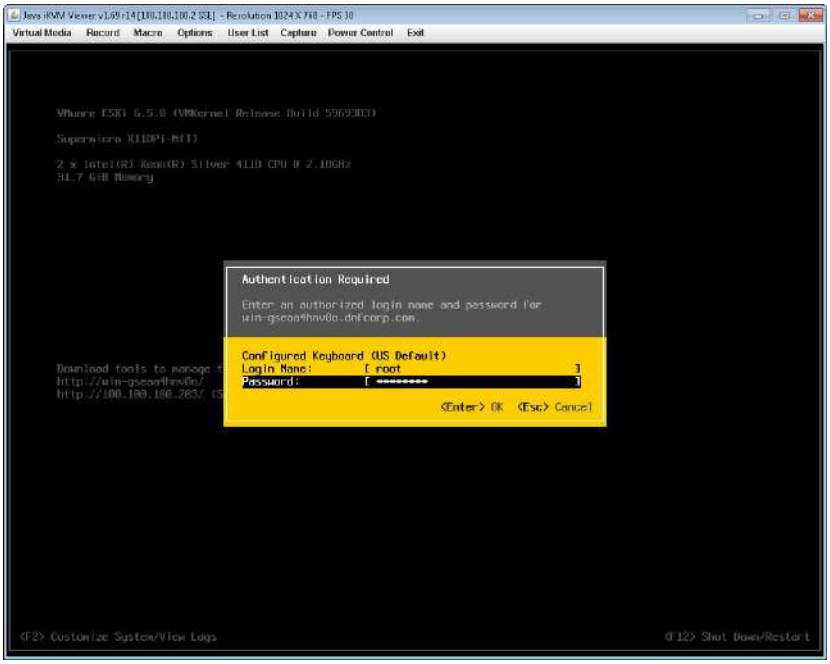
2.4. VMware Management Network Configuration

This section describes configuration of the ESXi Management Network. *IP Addresses* and *Hostnames* used in this section are for example only.

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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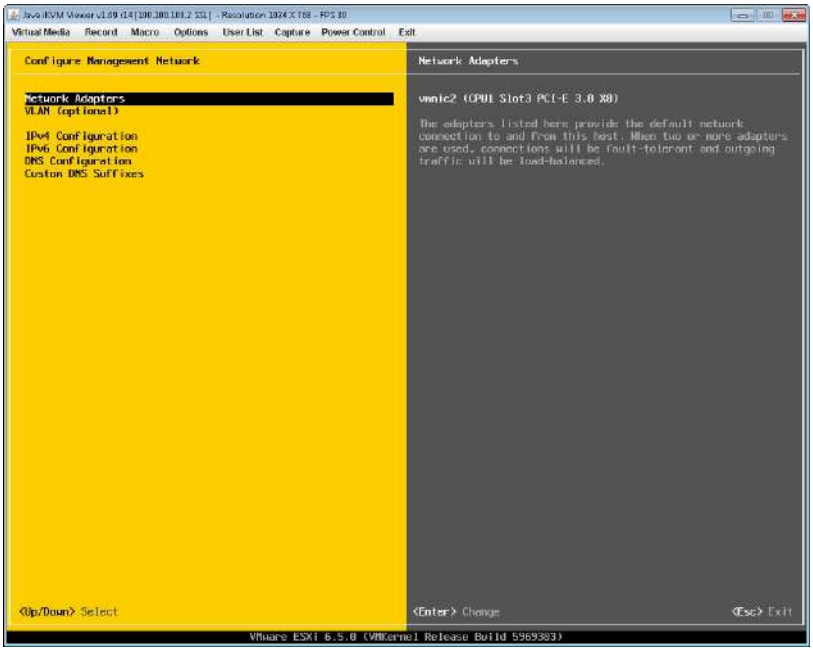
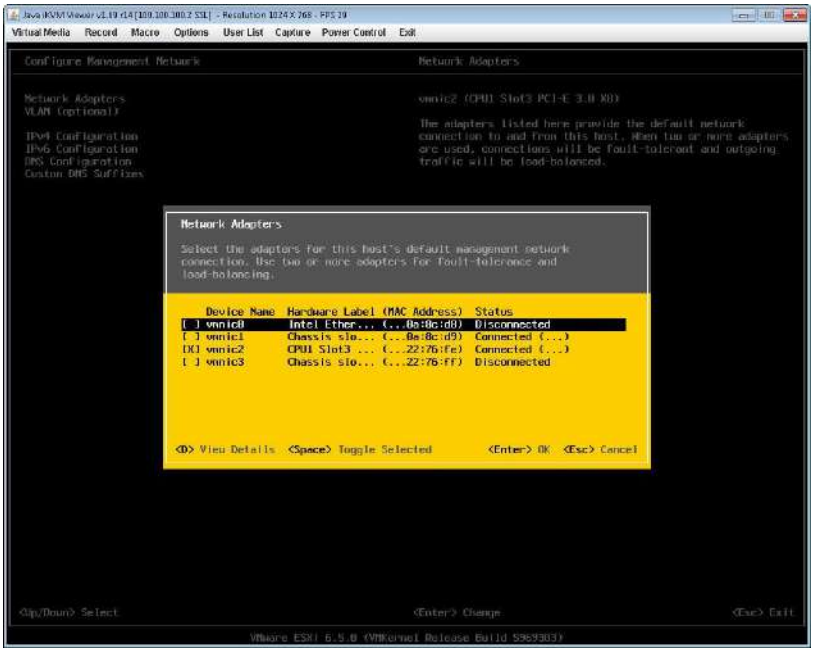


Select **Network Adapters** and press the "Enter" key.



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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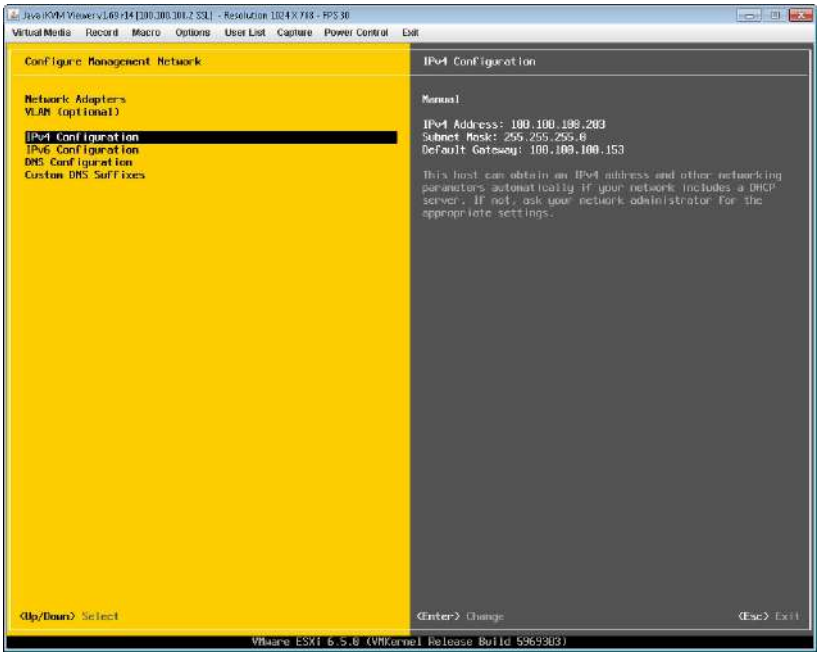
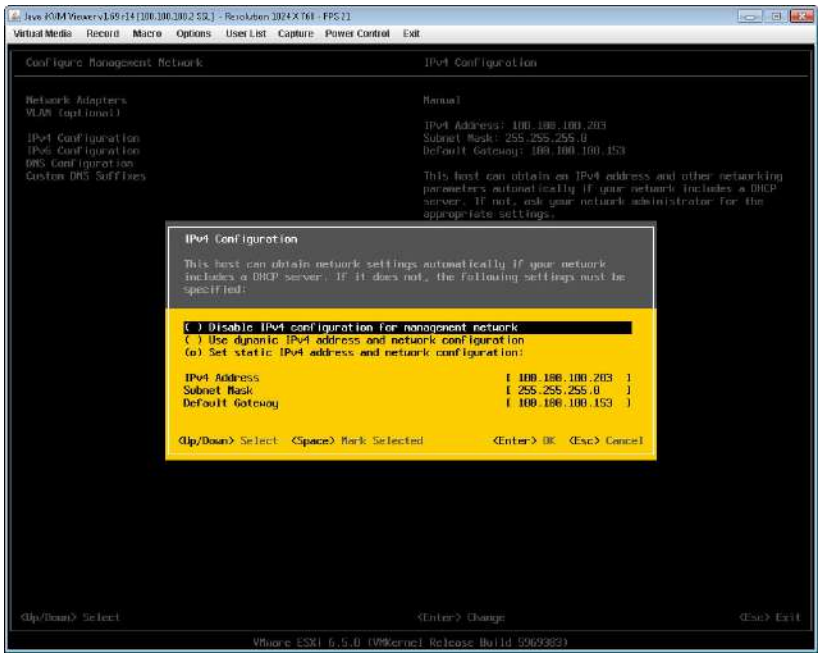


Select **IPv4 Configuration**, then hit the "Enter" key.



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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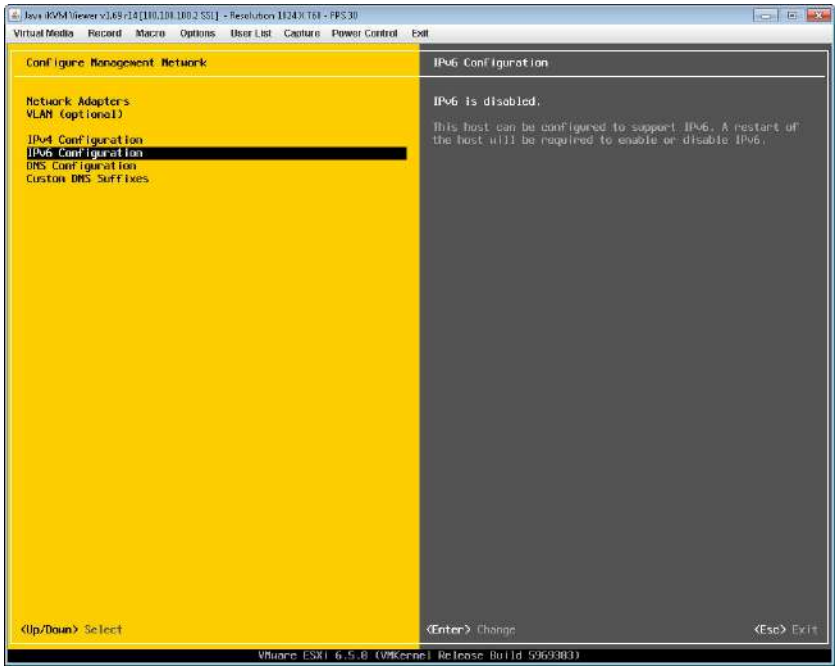
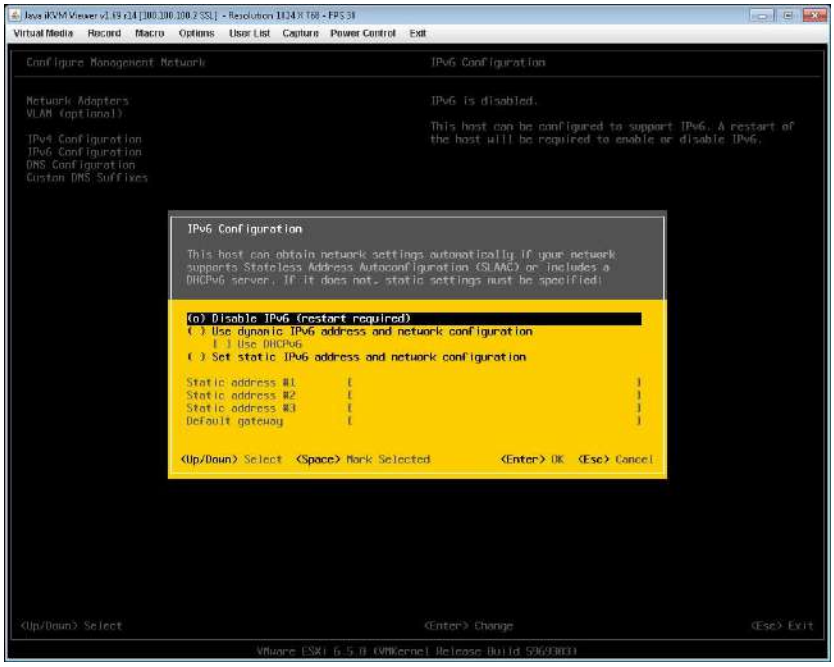


Select **IPv6 Configuration**, then hit the "Enter" key.



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

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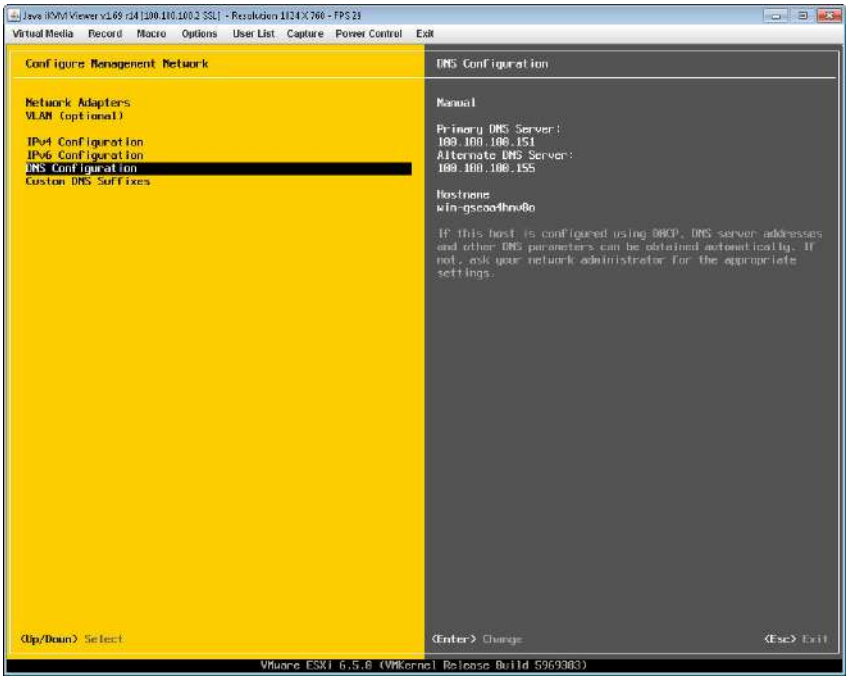
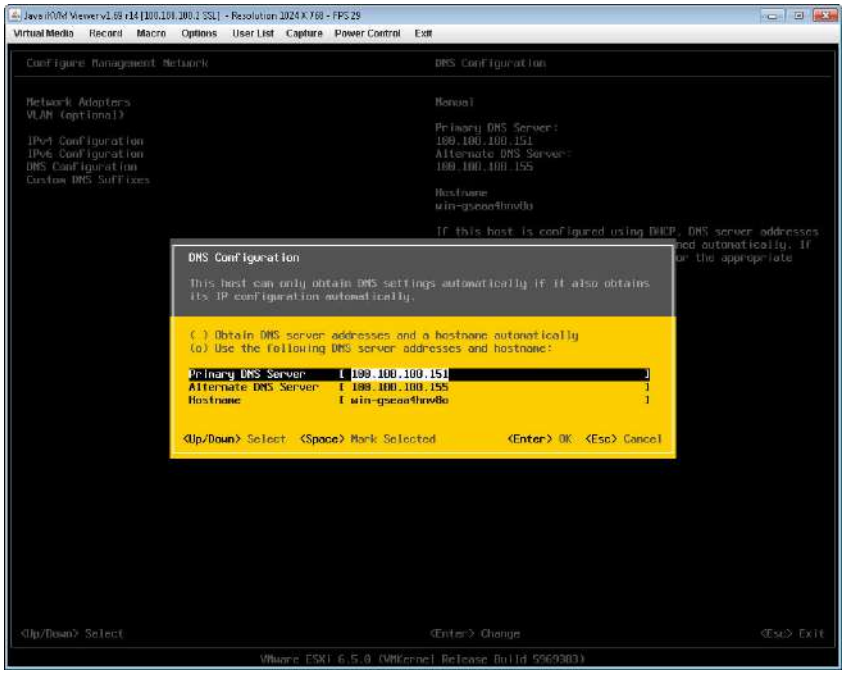


Select **DNS Configuration**, then press the “Enter” key.



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

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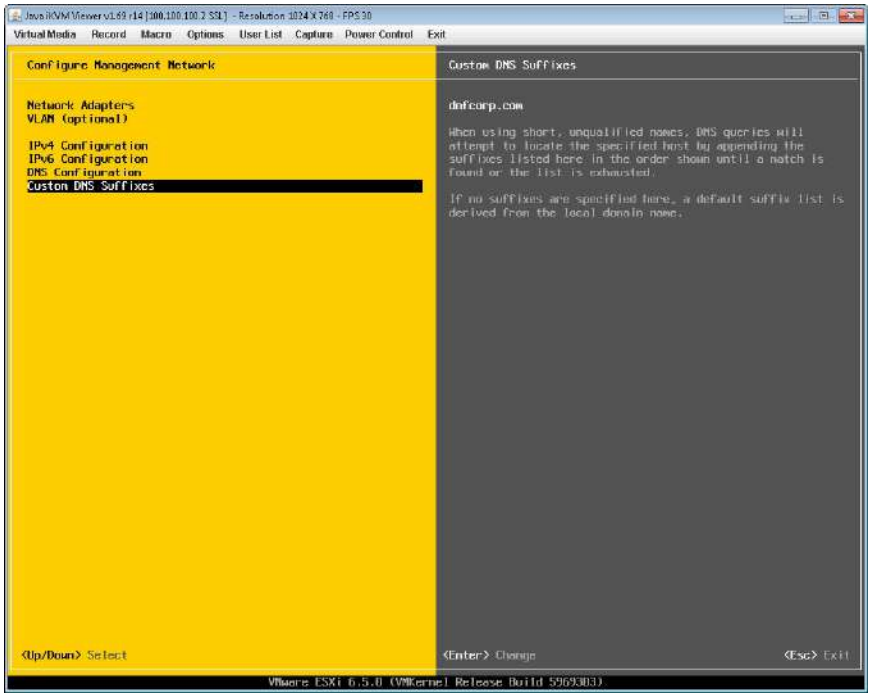
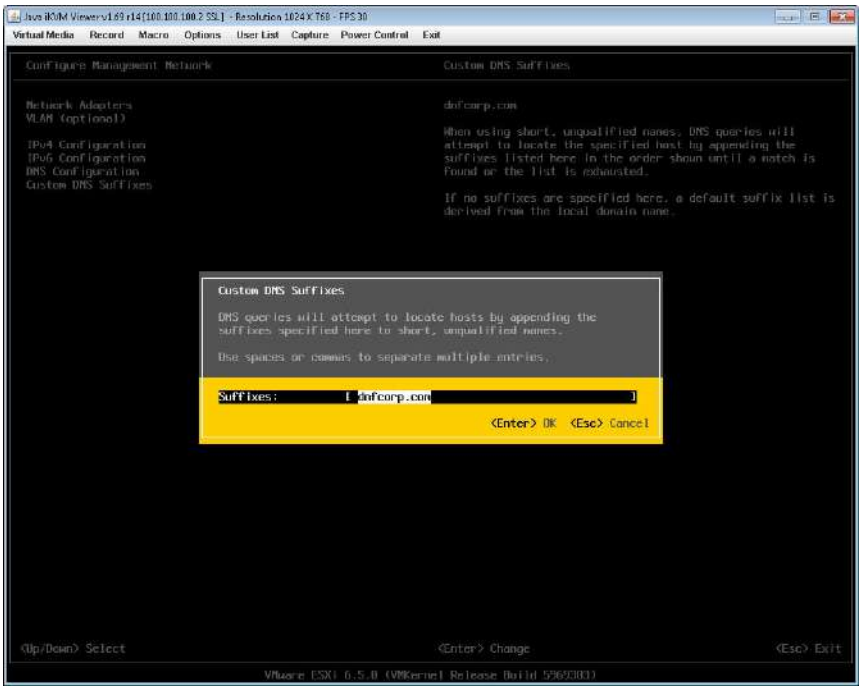


Select **Custom DNS Suffixes**, then hit the "ESC" key to return.



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

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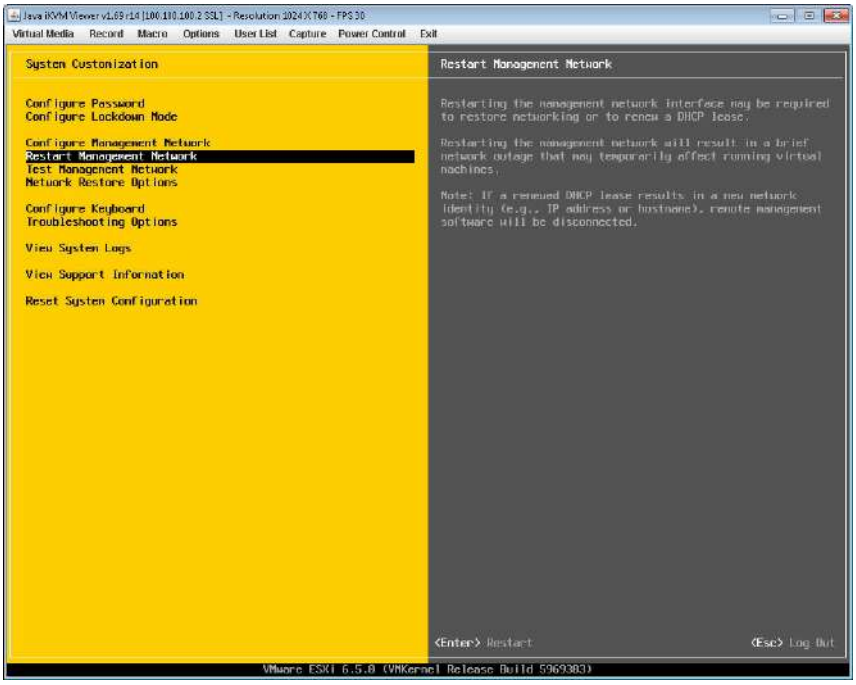

Select **Restart Management Network** to complete configuration of settings. Hit the “ESC” key to log out.

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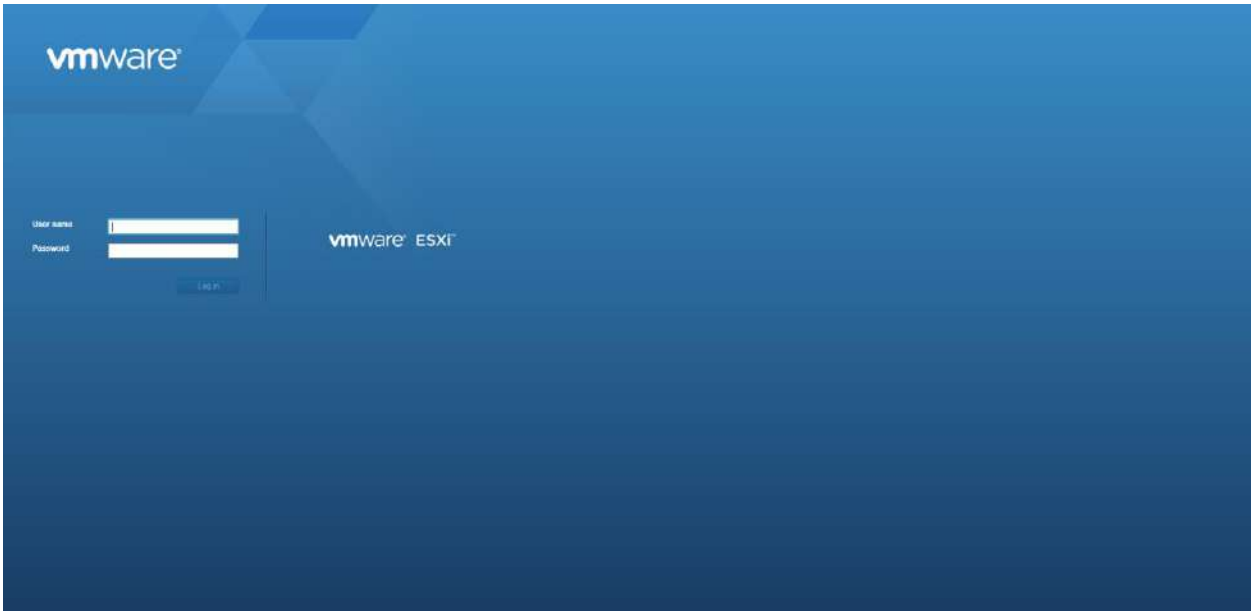
2.5. Steps to Configure SCVM Management Port (VMware)

1. You will need to configure a computer located on the same subnet as the StoneFly DR365V appliance to allow it to remotely manage the StoneFly DR365V. 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:



2. Use the same credentials to log in to the system:

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

   Username: root

   Password: Stonefly1!

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

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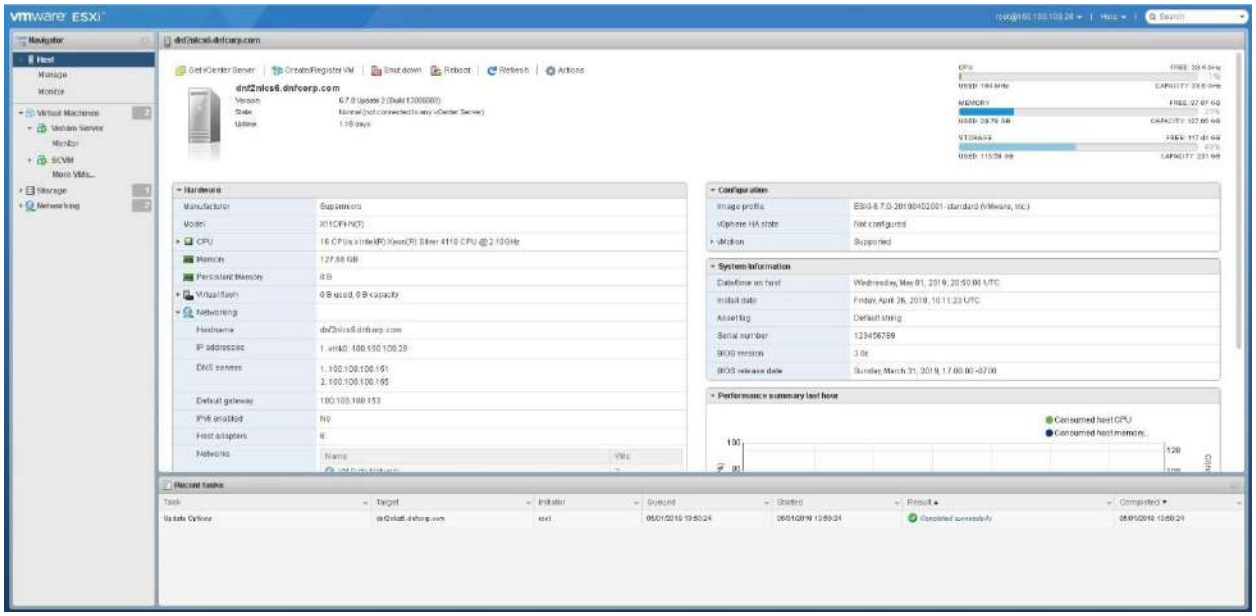
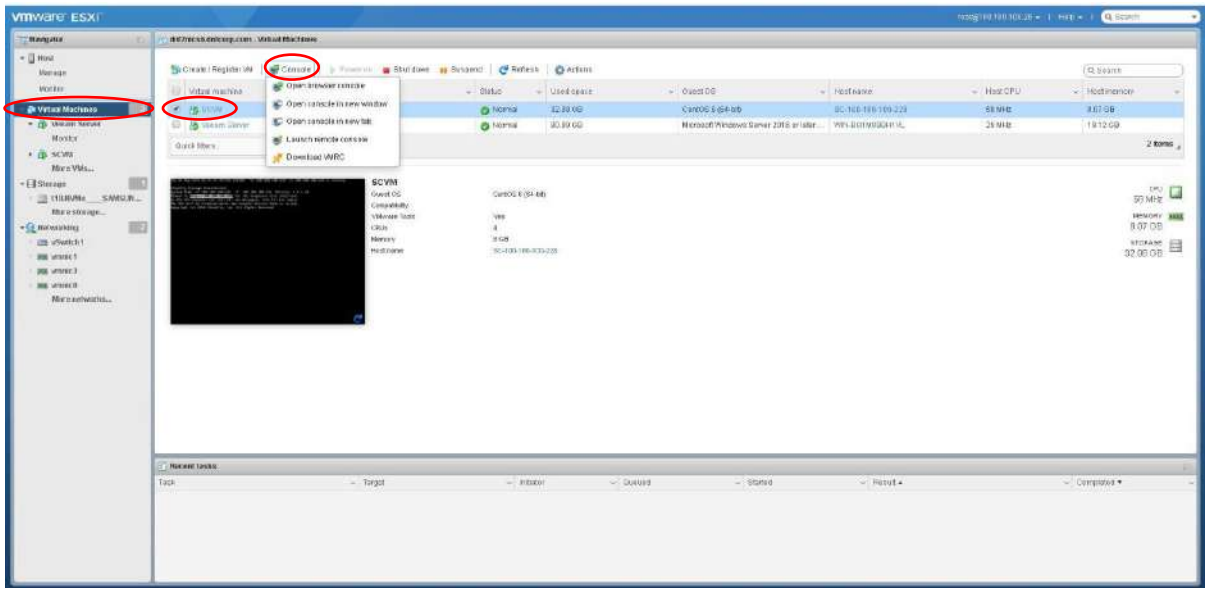


The screenshot above shows one SCVM and a Windows VM for Veeam is already installed. If you want to access the user interface for a particular SCVM, click on **Virtual Machine** in the left menu, select the SCVM and then click **Console** to launch SCVM remote console.



Click on **Launch remote console** from the dropdown menu. You will see a screen like the one shown below:

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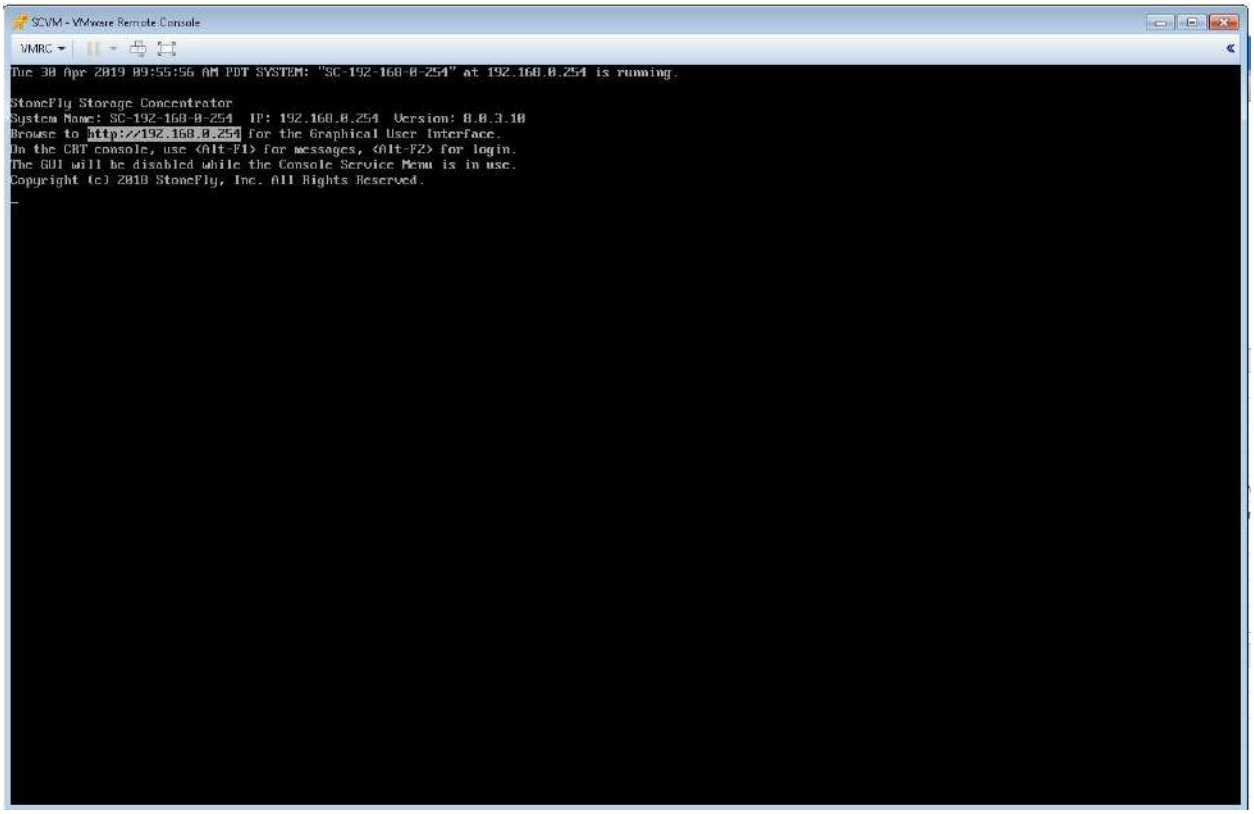

Steps to use the pre-installed SCVM:

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.

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

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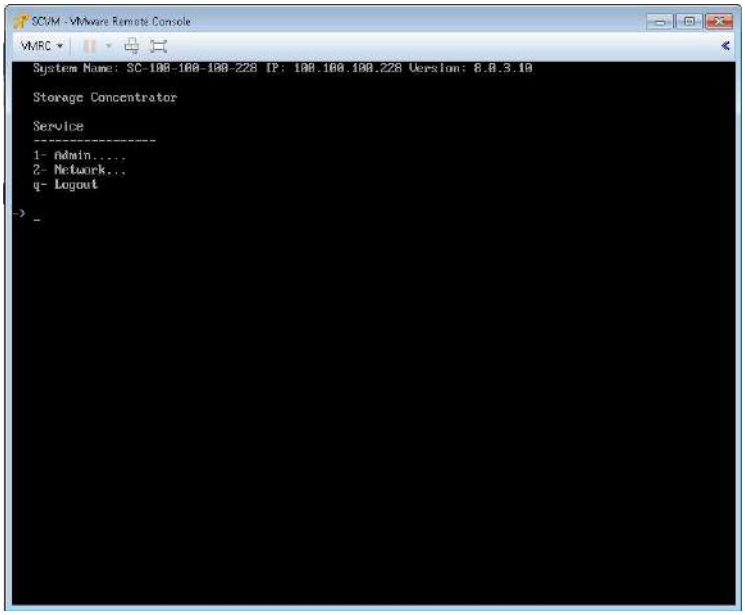
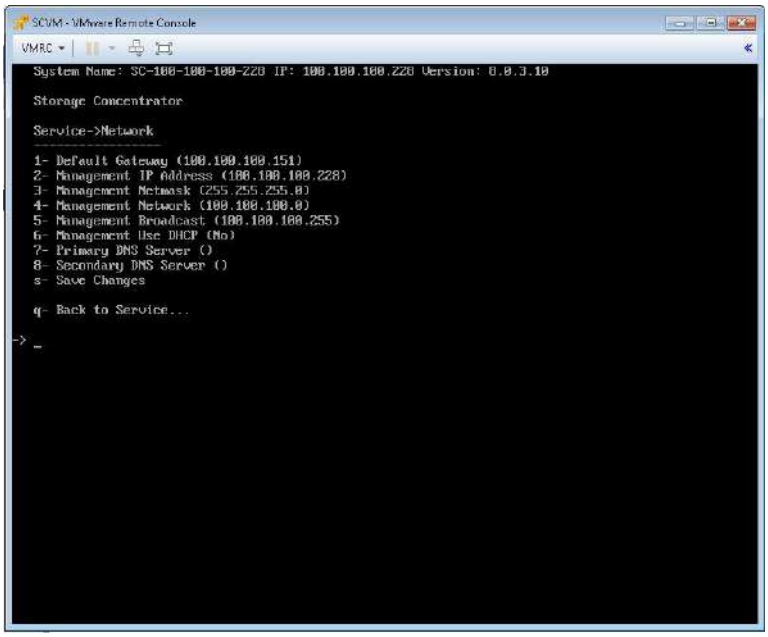


The default settings are shown below. Adjust settings as needed then **save** the changes.

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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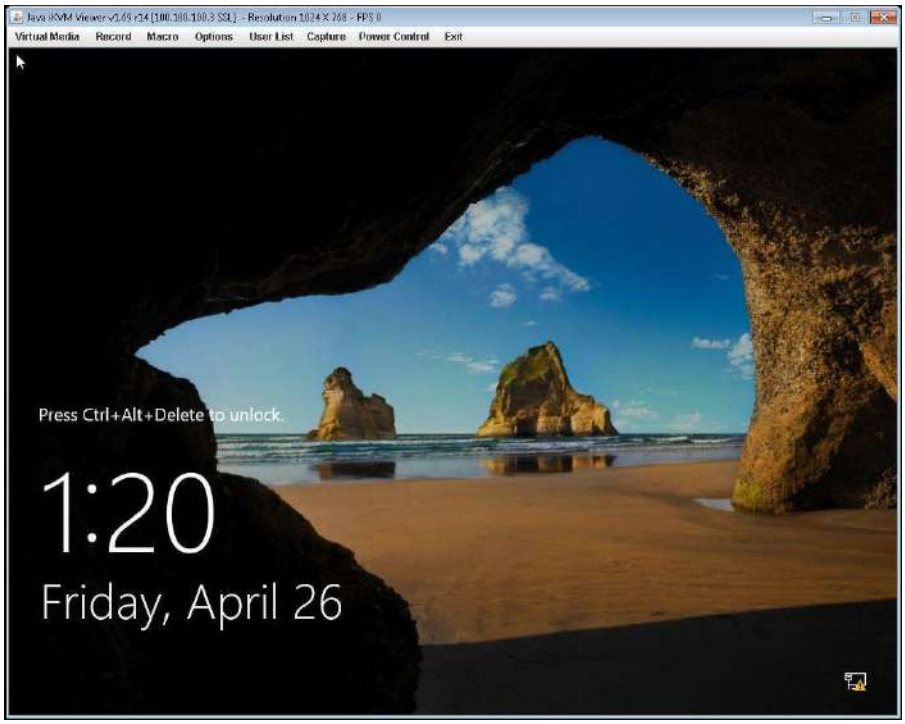
2.6. Hyper-V Management Network Configuration

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**.

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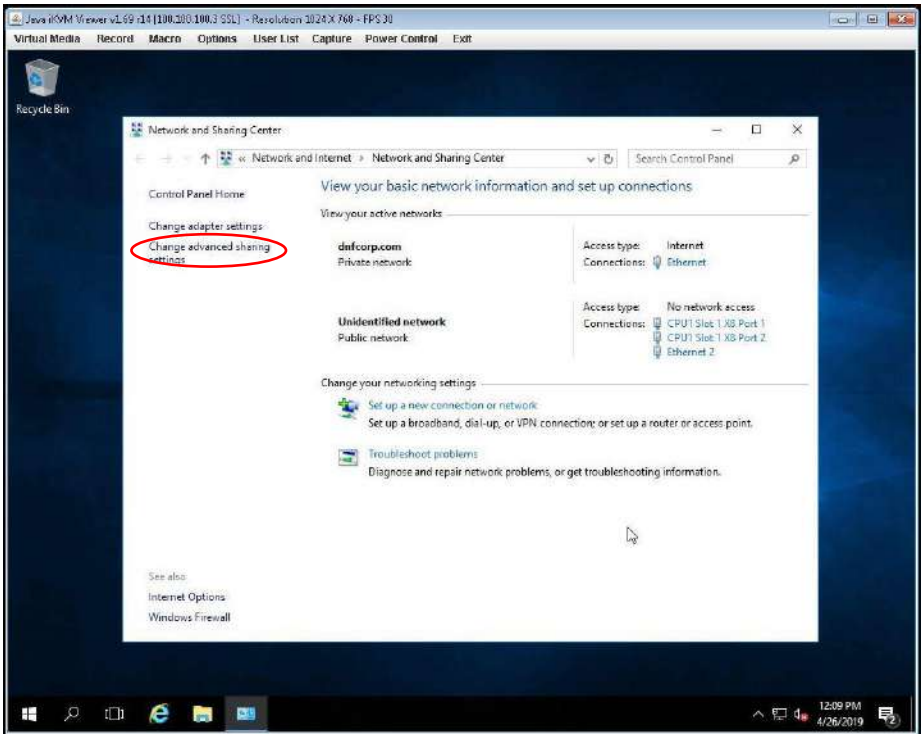
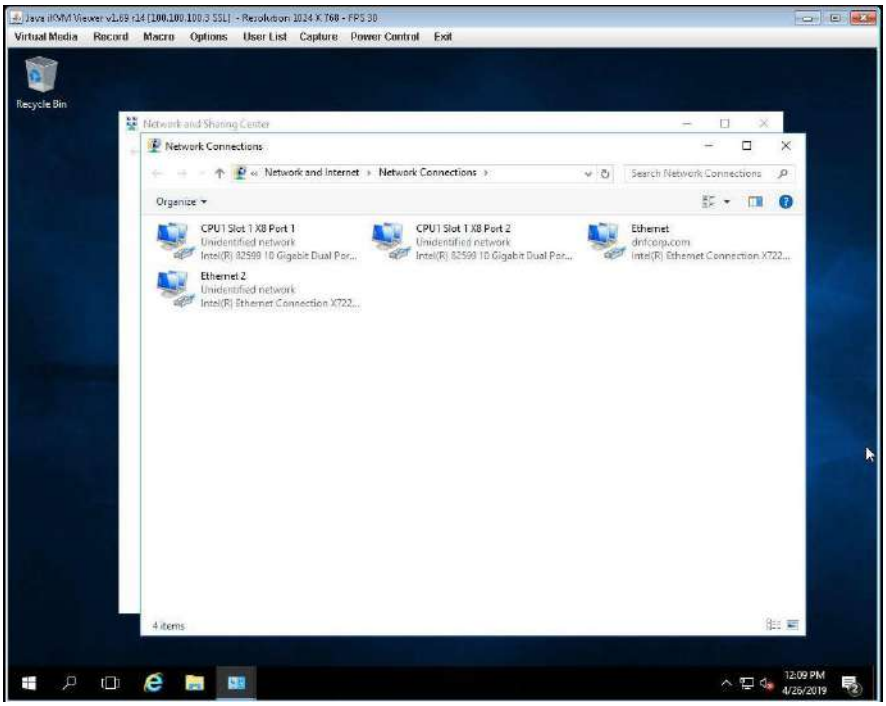


Click on **Change adapter settings** from the left menu.



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

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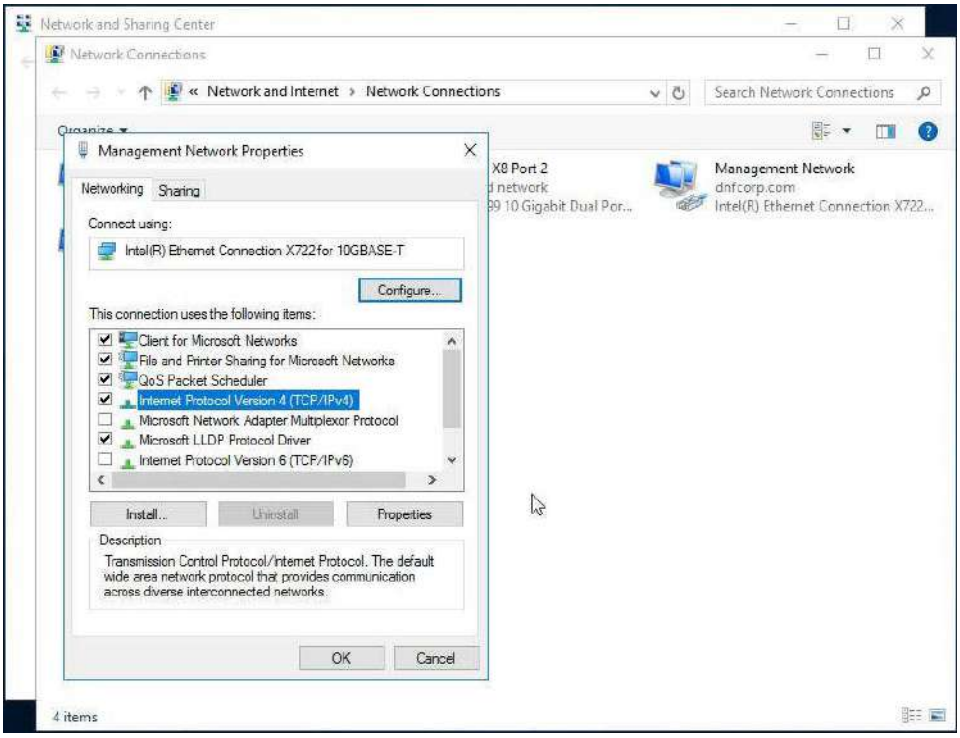
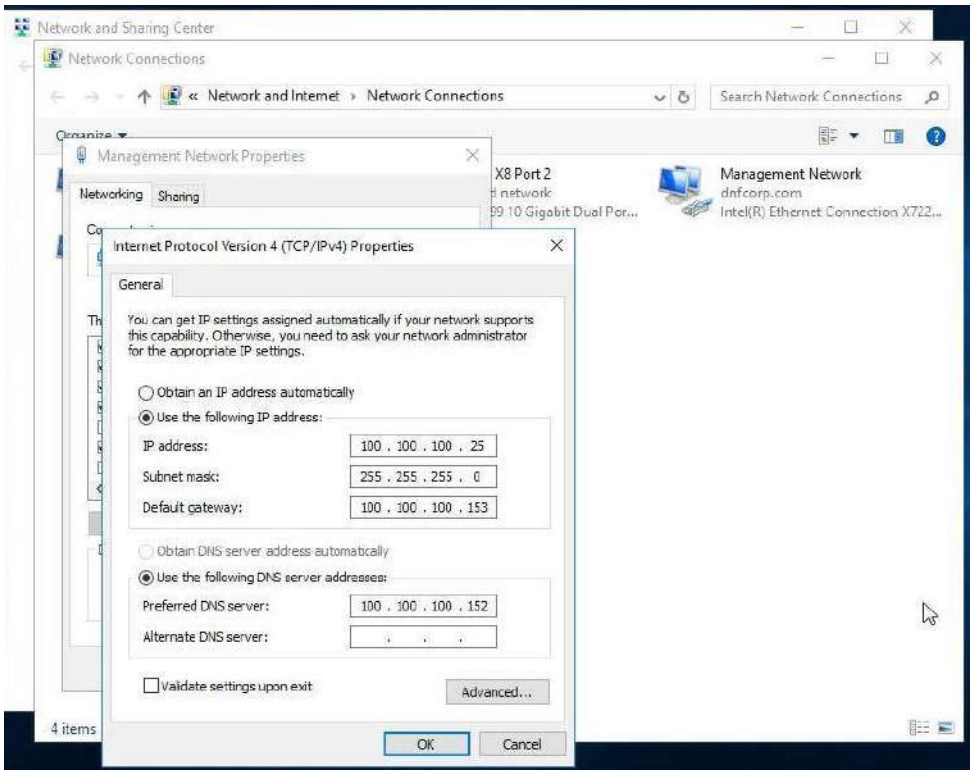


Left click on **Internet Protocol Version 4 (TCP/IPv4)** and then click **Properties:**



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

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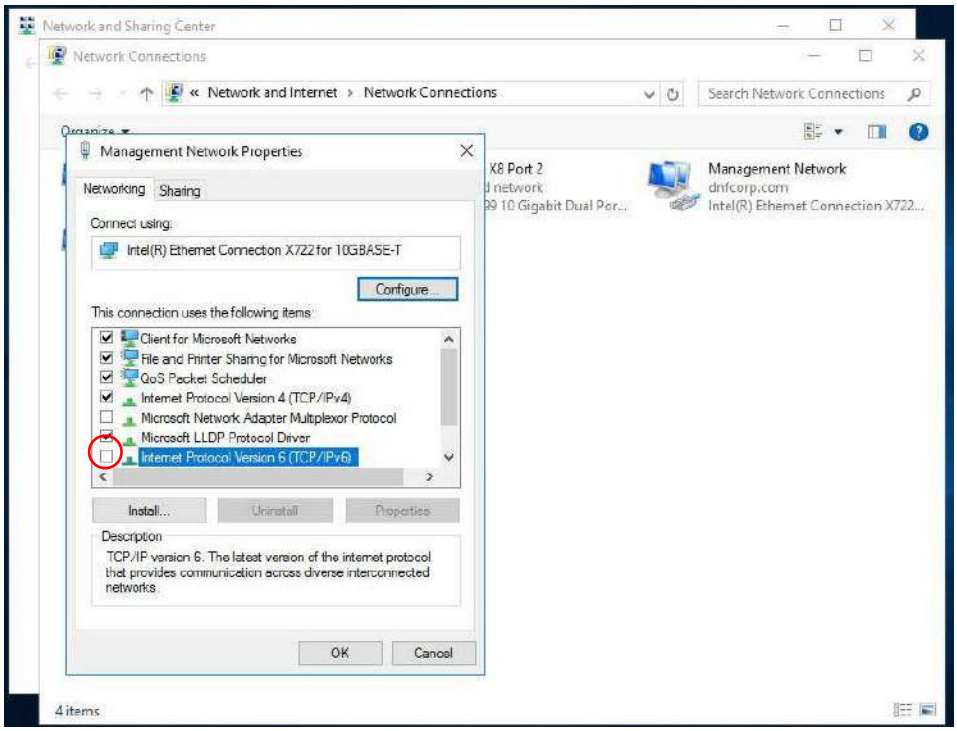
Make sure to disable **Internet Protocol Version 6** from the **Management Network Properties** window by unchecking the box next to it.



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

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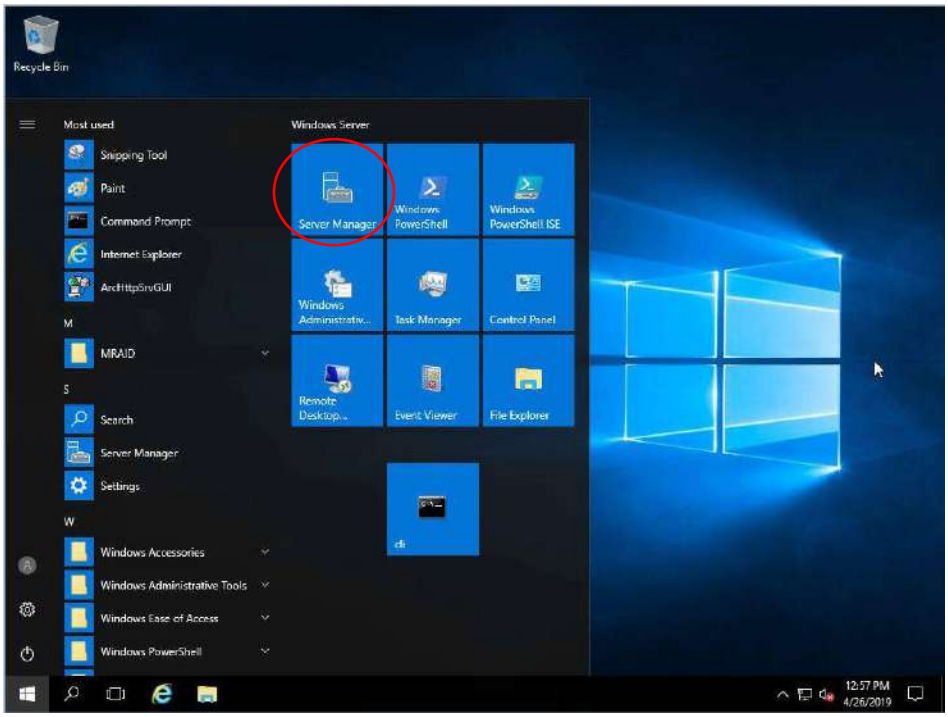
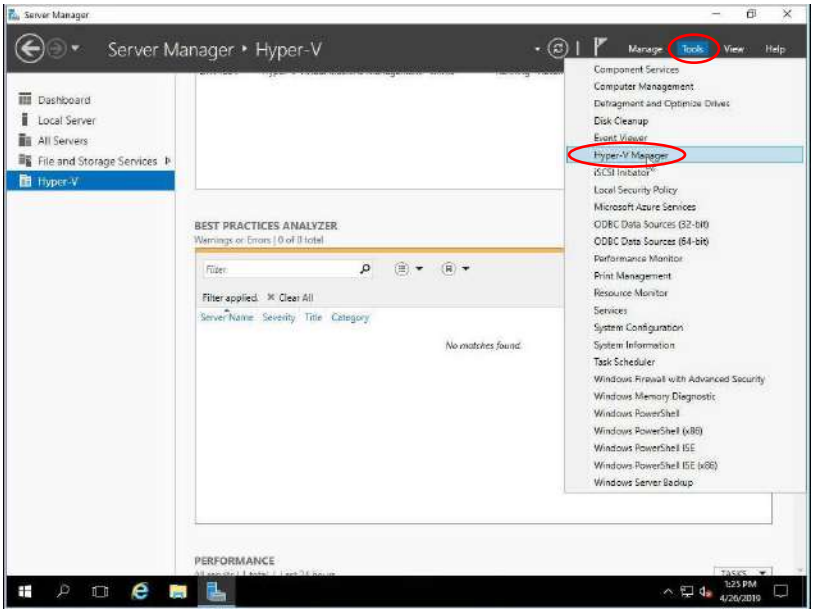
2.7. Steps to Configure SCVM Management Port (Hyper-V)

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.

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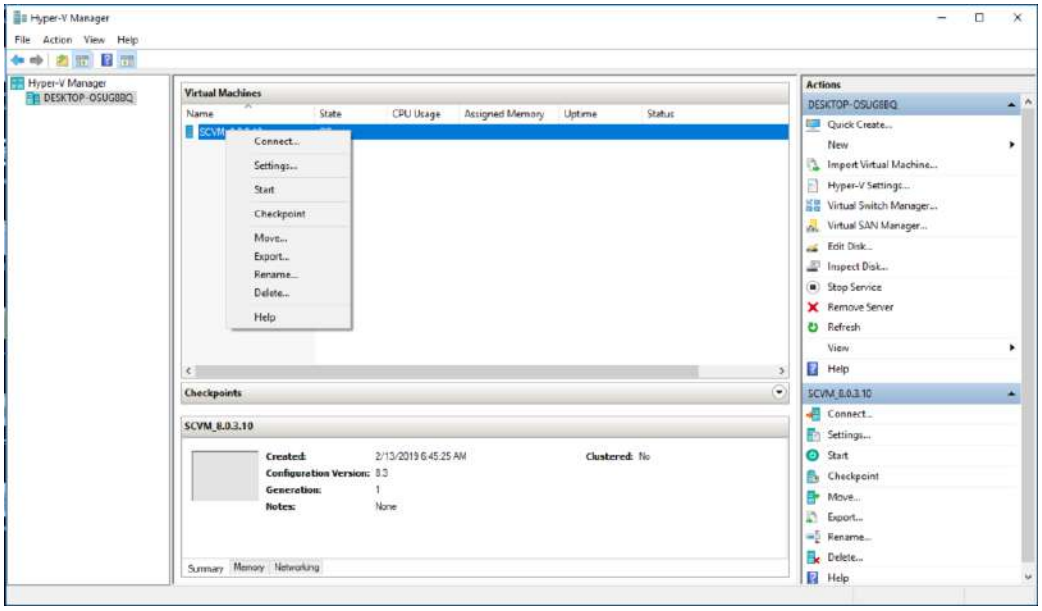
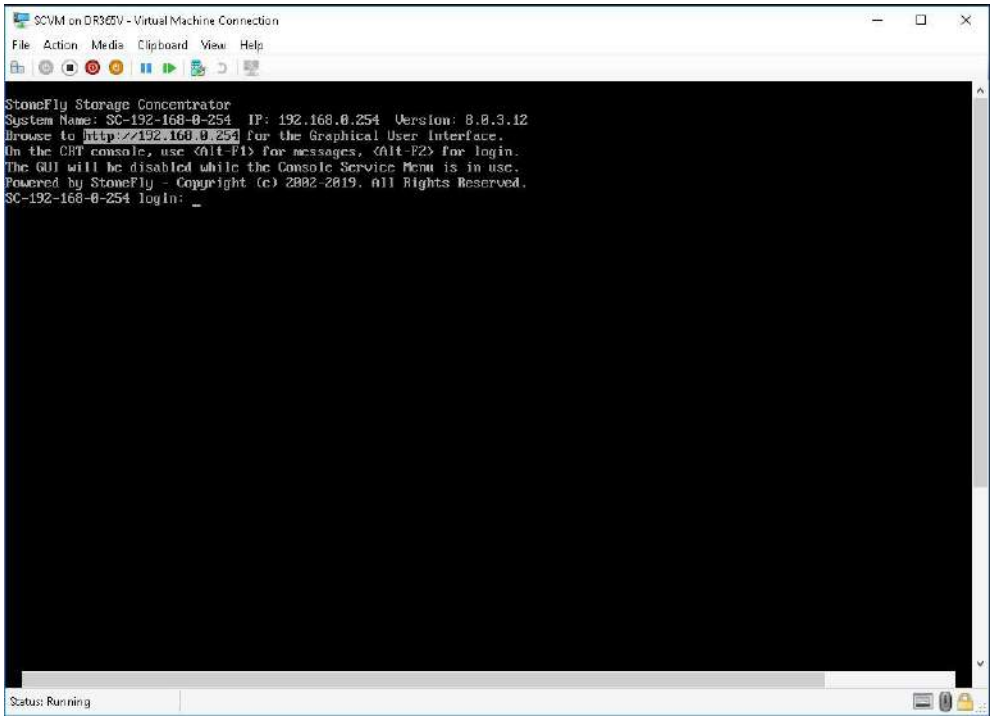


Right click on **SCVM,** and select **Connect** to access the user interface of the Virtual Machine. This will show a window like this:



Steps to use the pre-installed SCVM:

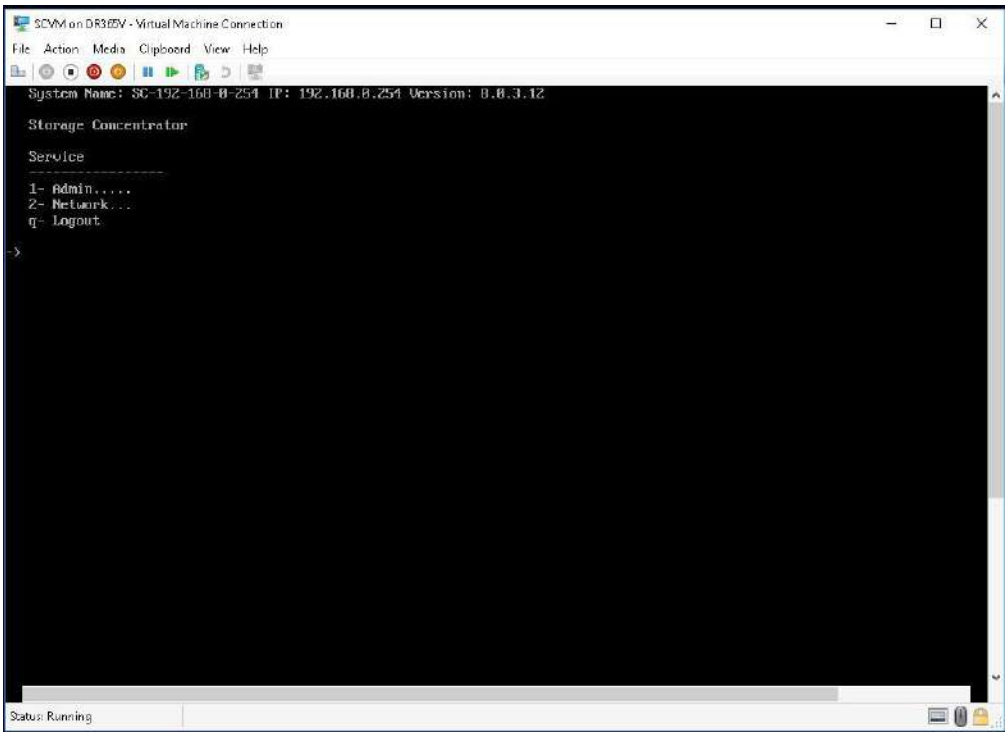
1. The SCVM management network interface is preconfigured with the default IP address of 192.168.0.254. This must be changed to a valid address for your LAN network. Login to the "SC Service" console using the Hyper-V "Virtual Console" for the SCVM by doing the following:

    a. Press **Enter** to display the login prompt.

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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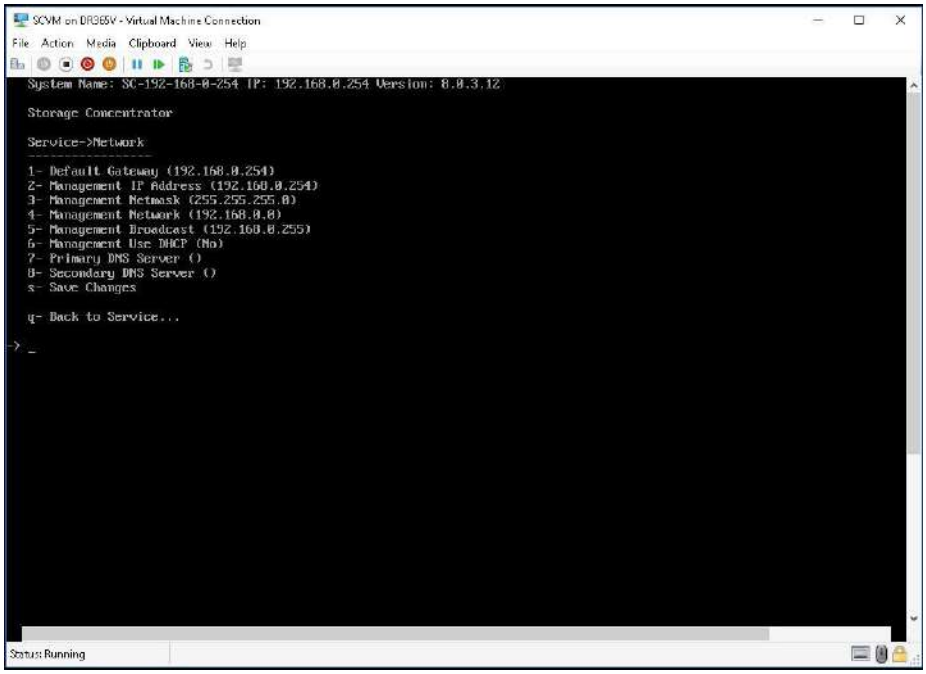

Adjusted settings are shown below. Enter **q** at the command prompt to exit back to the service menu. Enter **q** again to exit out of the user console service.

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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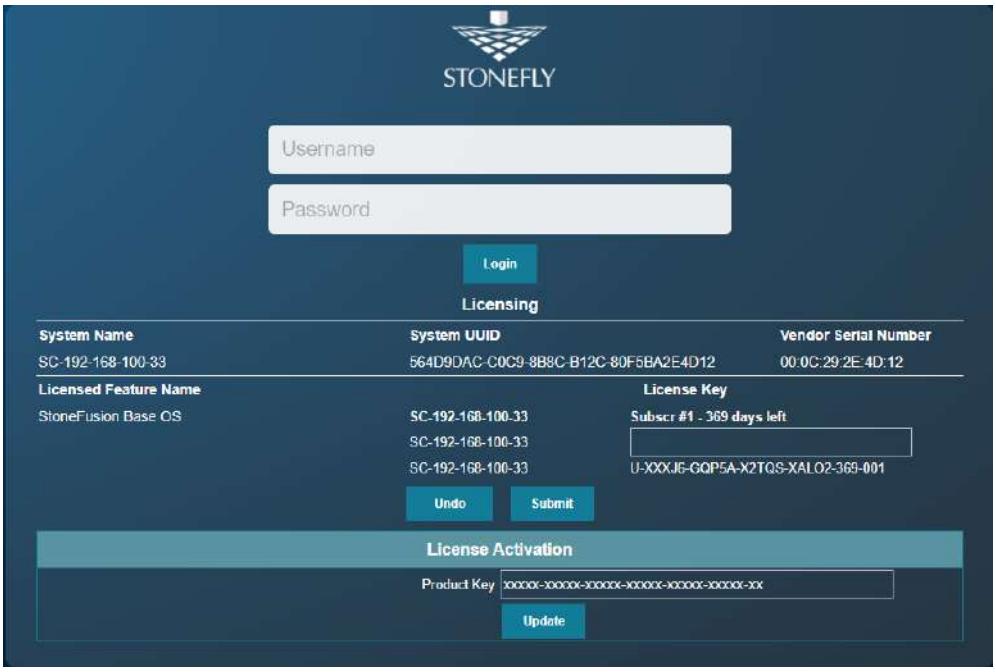
2.8. Configuring the SCVM

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



SCVM 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.

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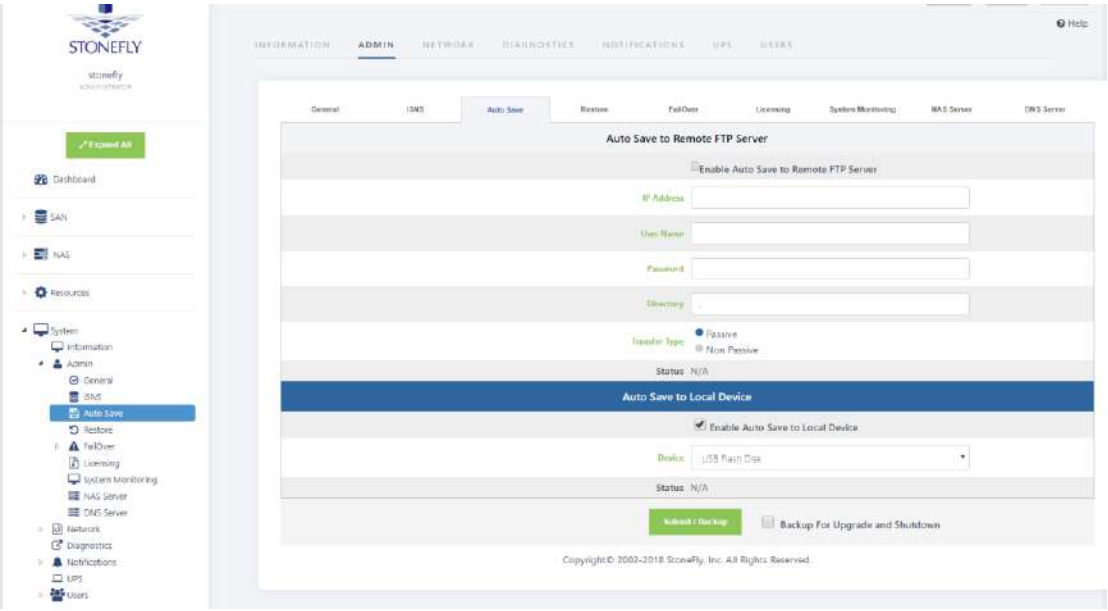
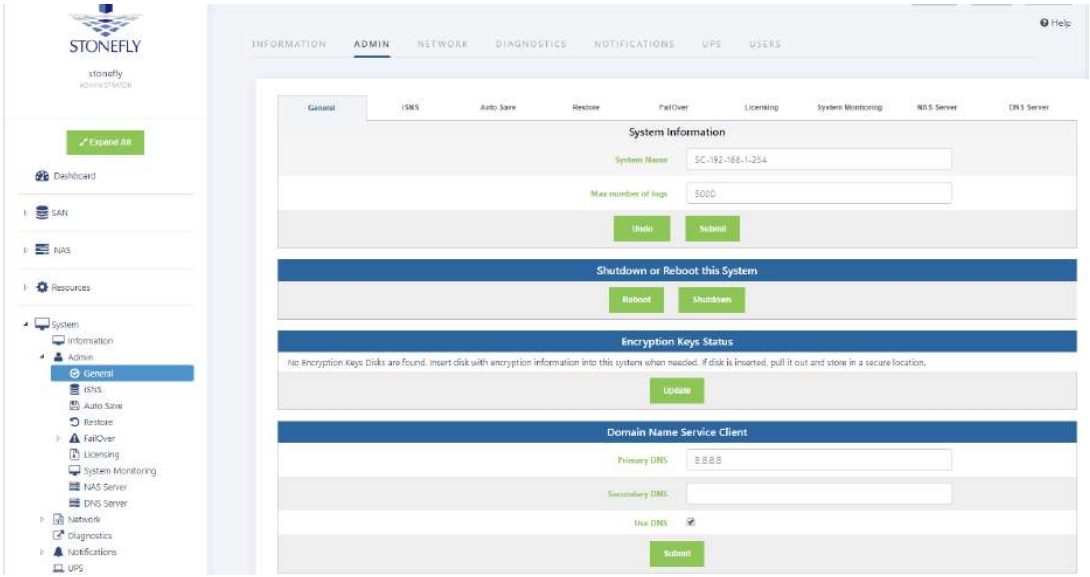


SCVM System Auto Save Screen

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.

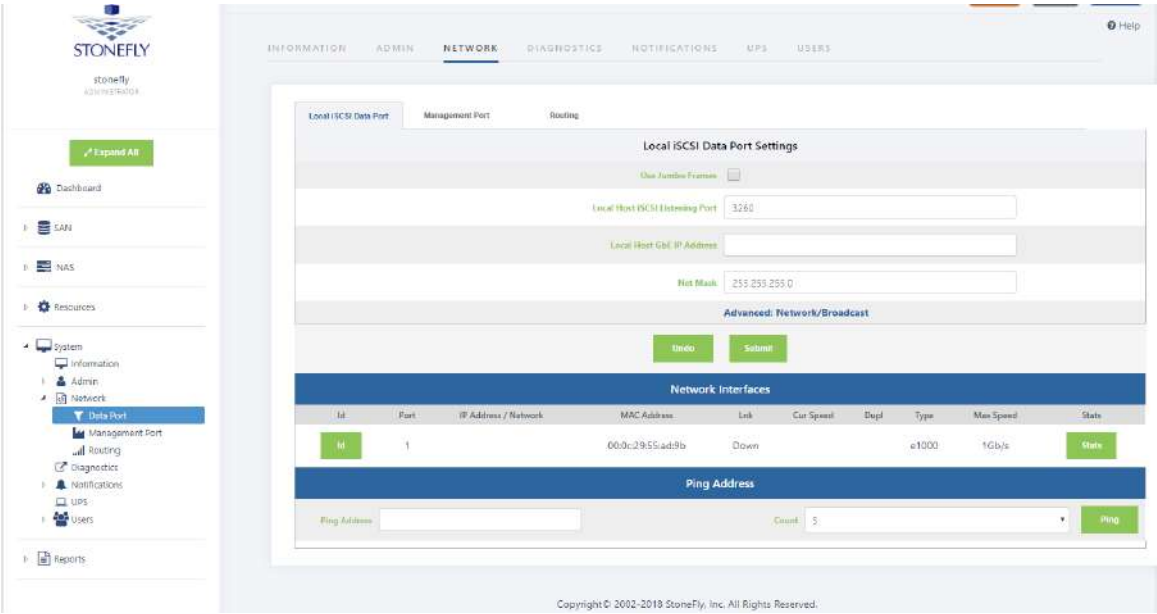


SCVM System Admin Screen

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.

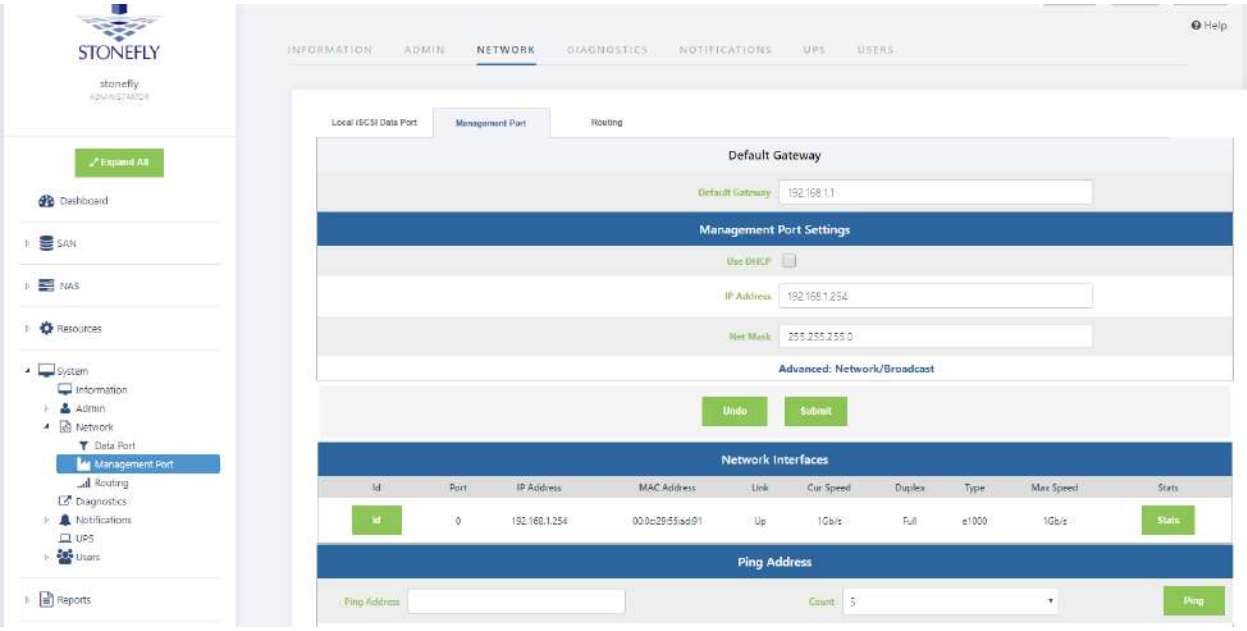


SCVM Local iSCSI Data Port Settings Screen

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.



SCVM 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.

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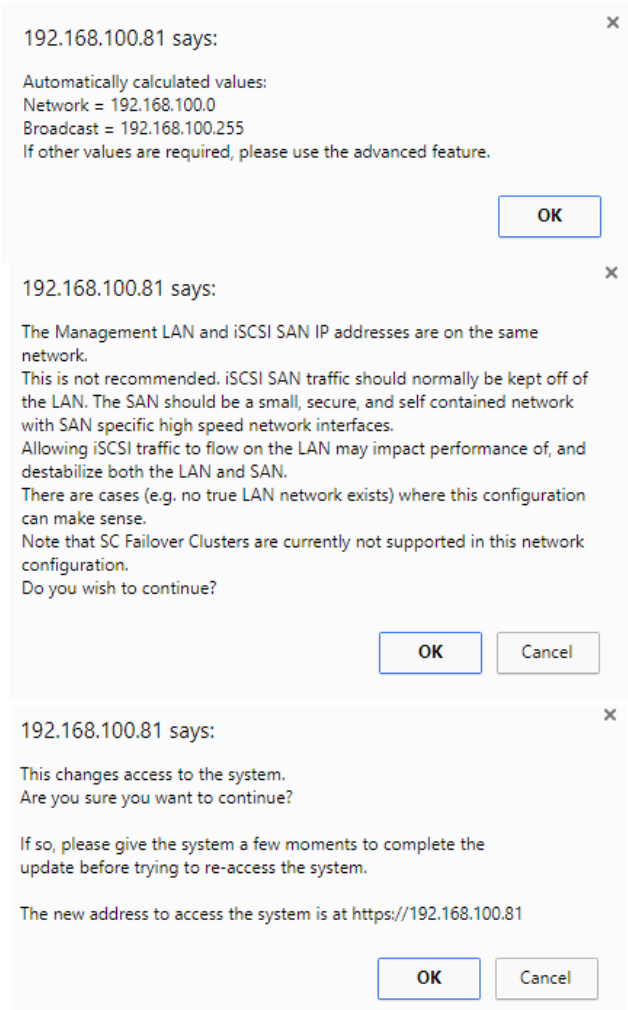
Depending on the speed of your browser connection, you may not see this screen. Your changes will still take effect, however you will need to manually set your browser's URL to point to the new IP address.



System Management LAN Port Change Screen

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.

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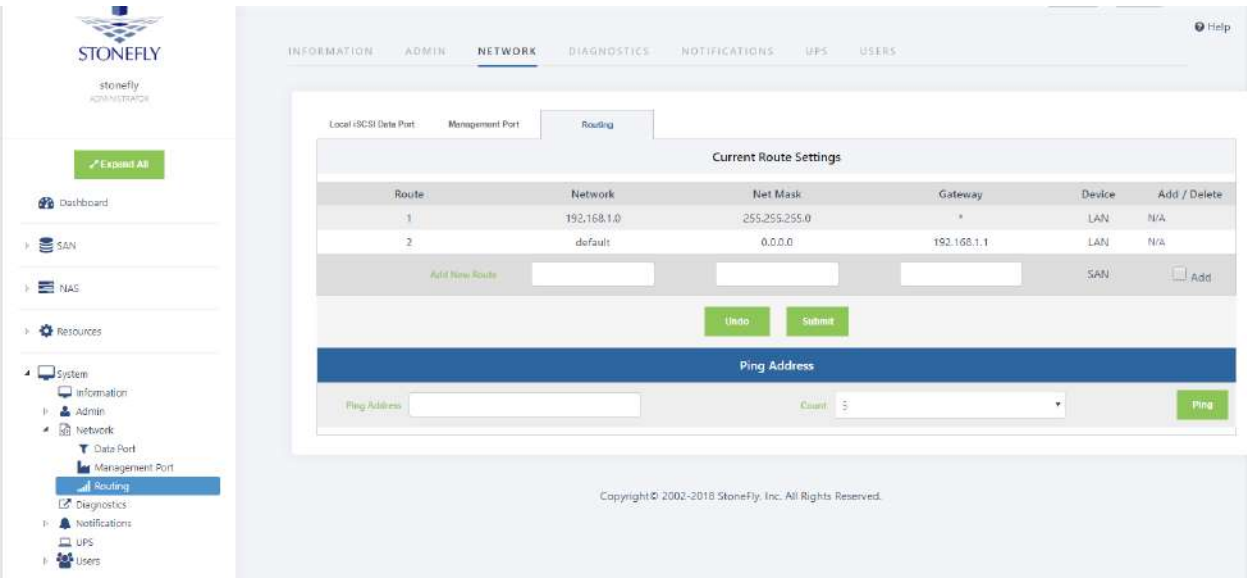
Setting up Routing

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.



SCVM 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.

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2.9. 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 data store 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.

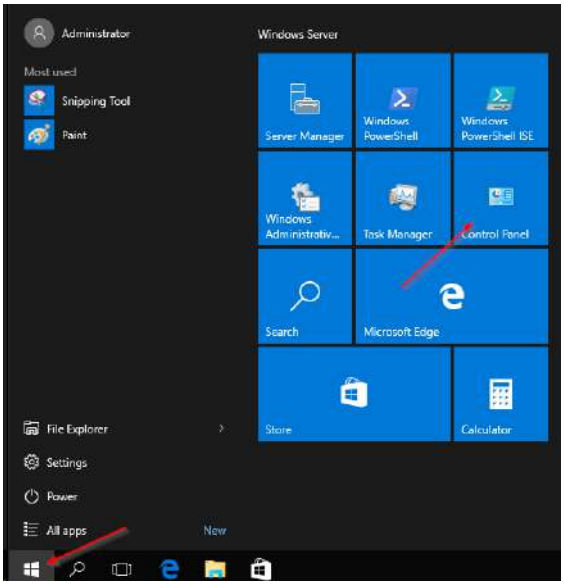
2.9.1 Assigning a Static IP Address to the Veeam Management VM

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.

To login to the Veeam Management VM, use the following credentials:

Username: administrator

Password: Stonefly1



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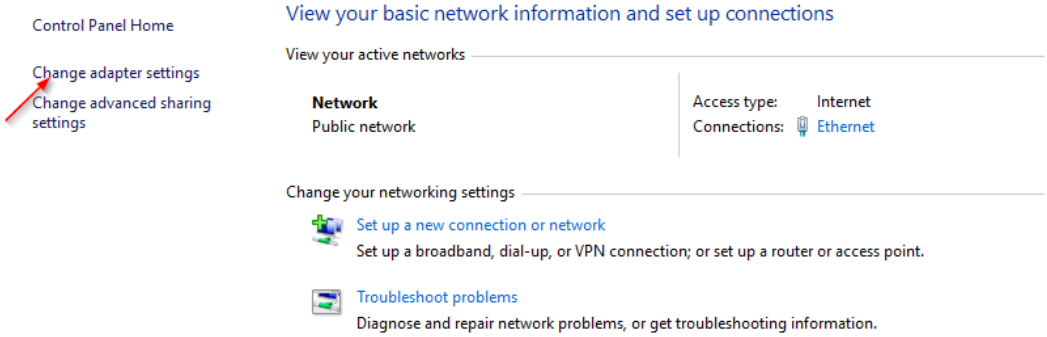
In the **Control Panel**, click on **View Network Status and tasks** under the **Network and Internet** applet.

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



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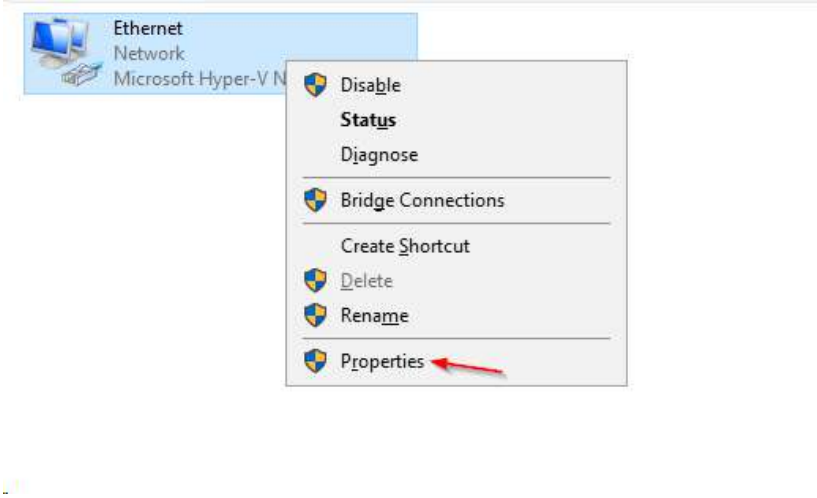
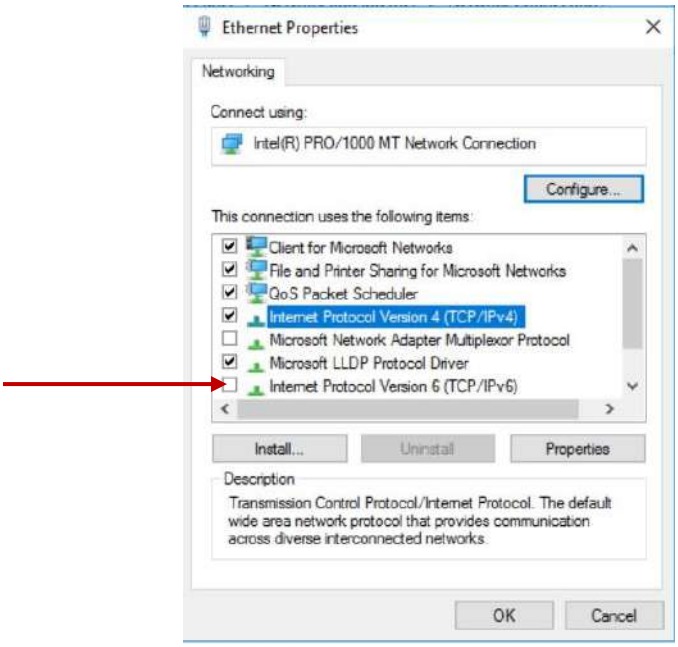
In the window that appears, right-click on your network connection and click on **Properties.**



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

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



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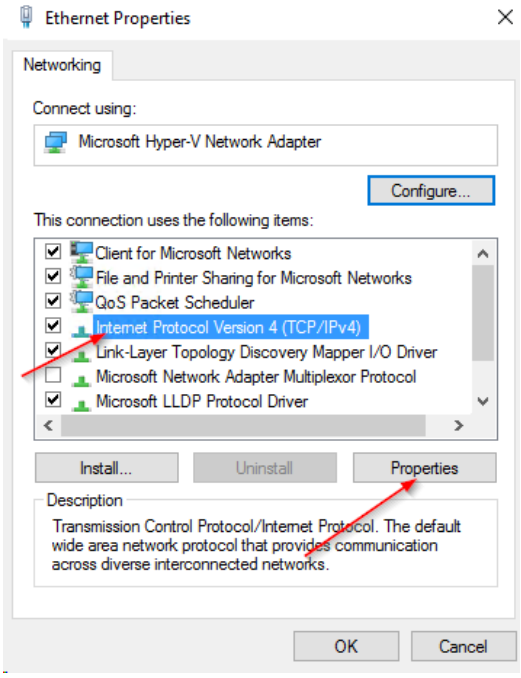
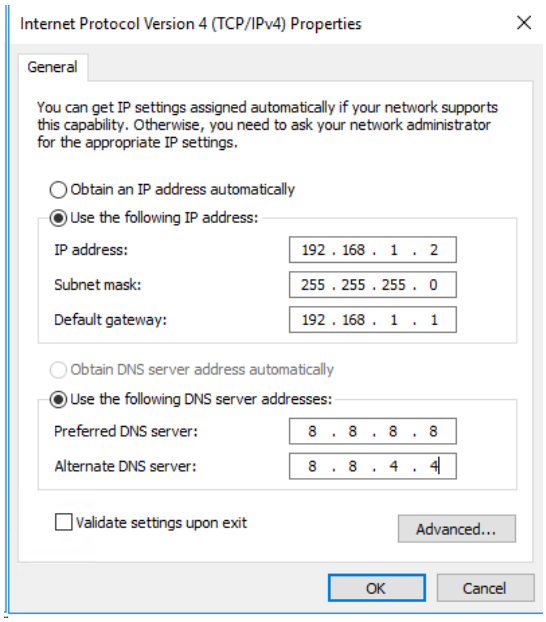
Select **Internet Protocol Version 4 (TCP/IPv4)** by left-clicking it once and then click on **Properties.**



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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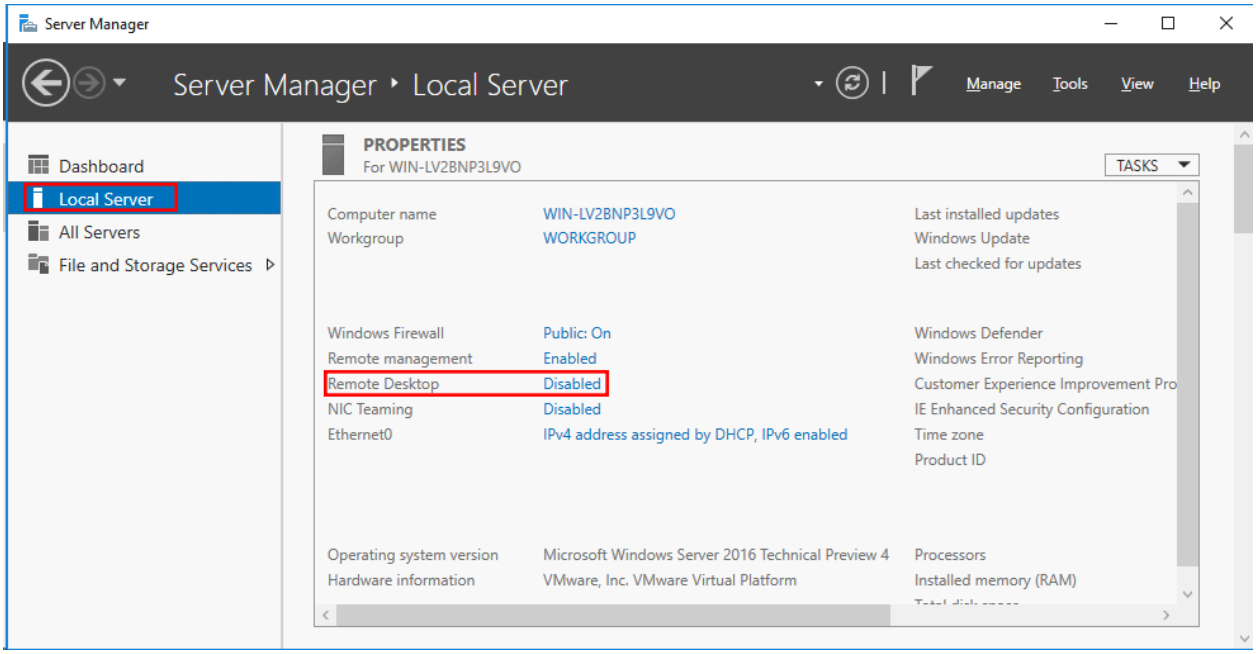
2.9.2 Enabling RDP on the Veeam Management VM

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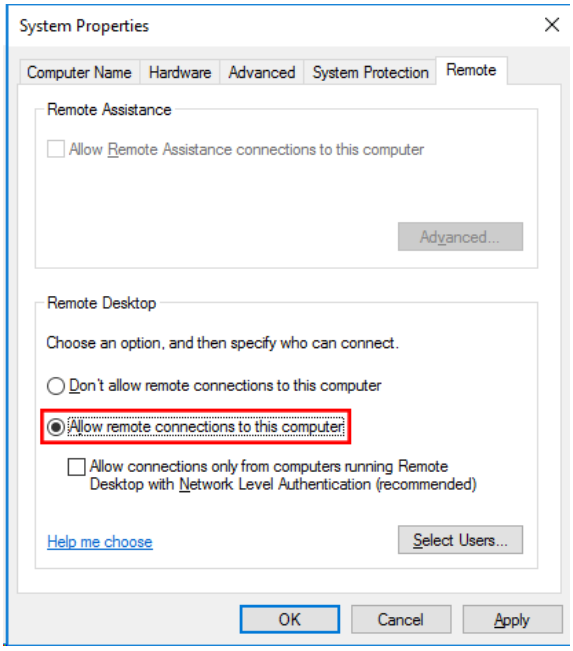
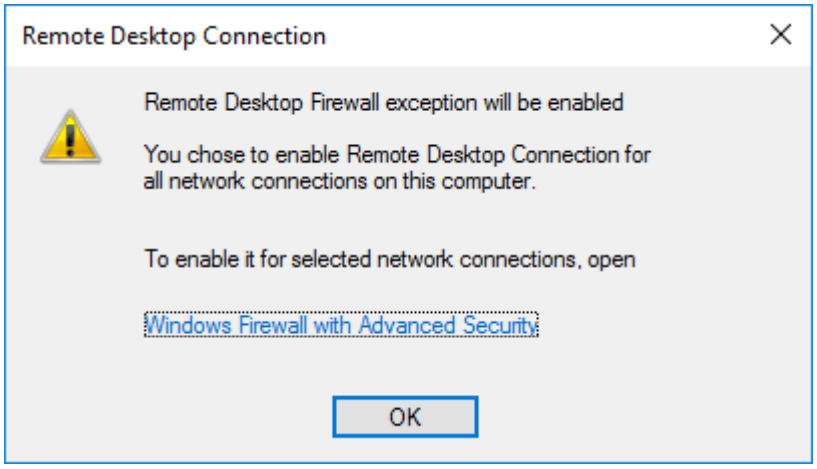
Also uncheck the **Allow connections only from computers running Remote Desktop with Network Level Authentication (recommended)**.



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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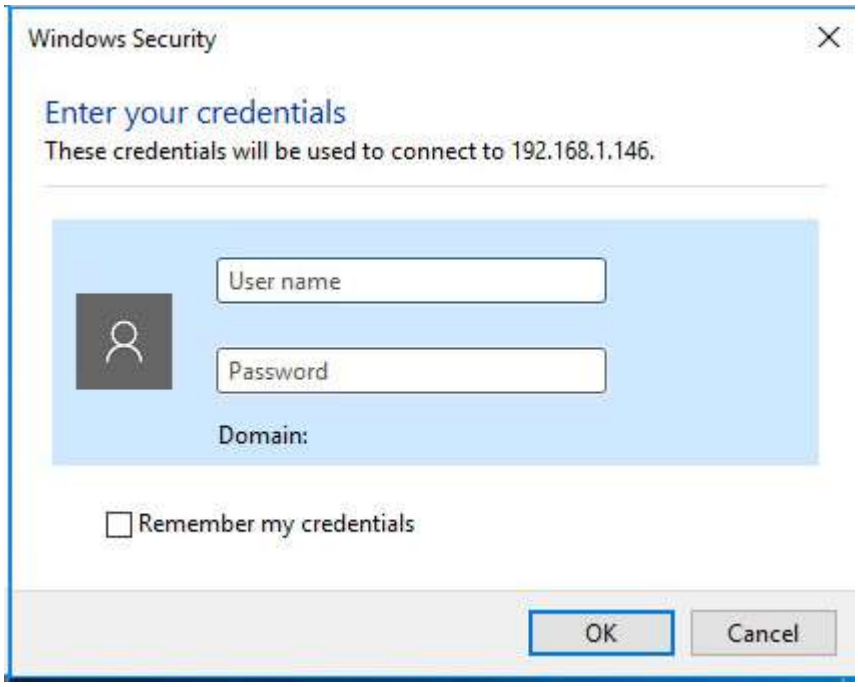
2.9.3 Accessing Windows Server hosting Veeam

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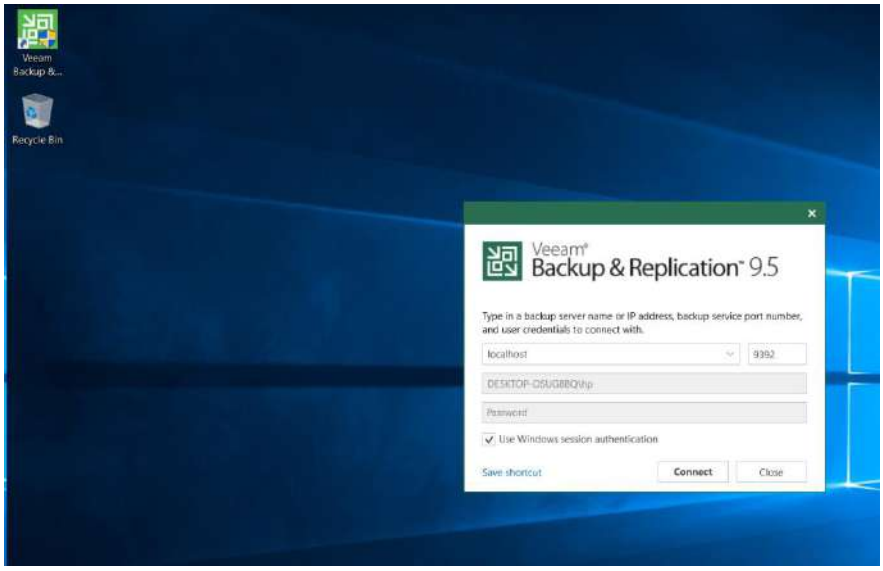
Once the RDP connection is established, you should be able to access the Veeam management software by double-clicking the **Veeam Backup & Replication** icon.



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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Chapter-3: Troubleshooting

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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.

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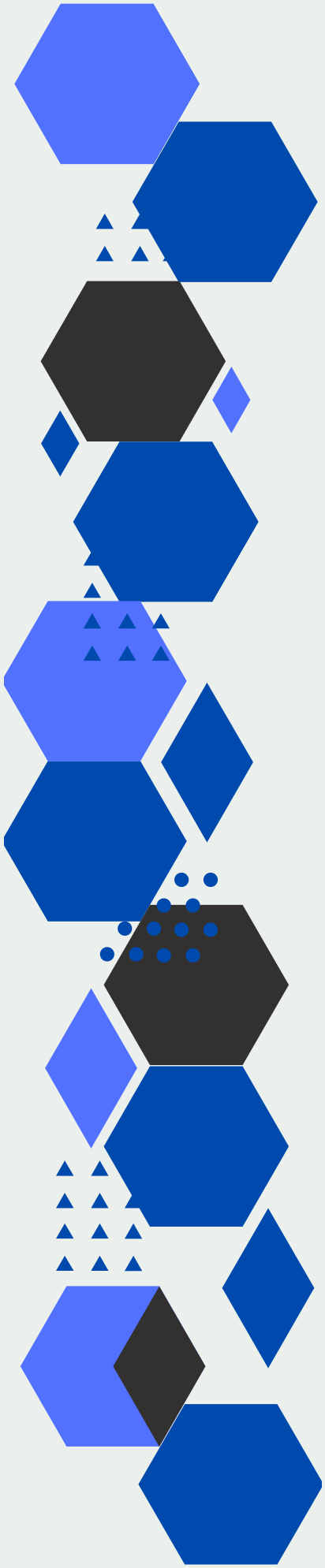

STONEFLY

www.stonefly.com
26250 Eden Landing Rd,
Hayward, CA 94545, USA.
+1 (510) 265-1616
support@stonefly.com