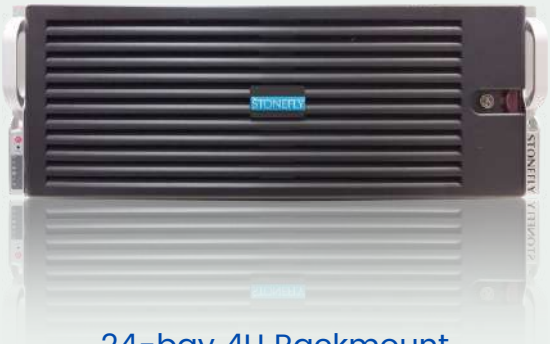
Setup Guide

USS

Unified Storage and Server Hyperconverged Appliance



24-bay 4U Rackmount

44-bay 4U Storage Expansion Unit

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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 USS Appliance. It describes initial steps for launching the appliance.

The StoneFly USS is the ideal purpose-built hyperconverged infrastructure solution for enterprise virtual workloads which allows you to consolidate compute, storage, and networking 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
- The StoneFly SCVM™ Webpage

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

USS 24-Bay / 4U Model (with front bezel)

Available USS appliance series and models include:

	Appliances	Processor(s)	System Memory	Network
I-Series	8 to 36-bay	4 to 8-Core	8 to 64GB	1/10/40Gb
D-Series	4 to 36-bay	4 to 8-Core Xeon	32 to 128GB	Dual 10Gb
XS-Series	4 to 36-bay	10 to 28-Core Xeon	32 to 512GB	Dual 1/10/40/100Gb
XD-Series	8 to 36-bay	Dual 10 to 28-Core Xeon	64GB to 1TB	Dual 1/10/40/100Gb

For detailed hardware specifications, contact StoneFly sales.

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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

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Chapter-2: Initial Installation

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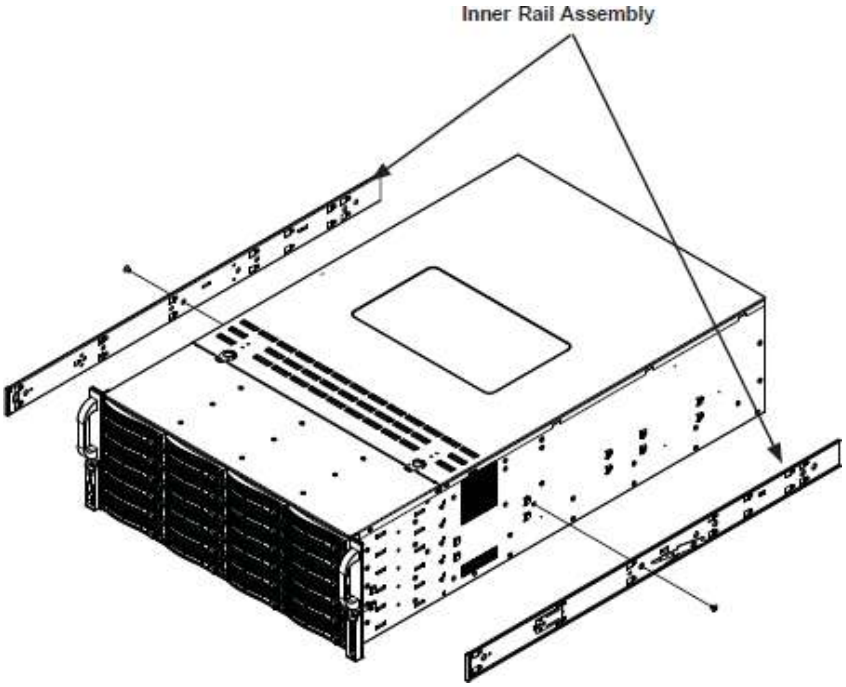
2.1. Rack Installation Instructions

This section provides information on installing the StoneFly USS 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 USS 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

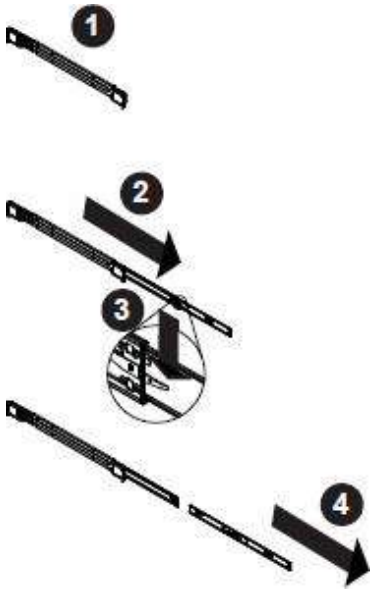
Each inner rail has a locking tab. This tab locks the chassis into place when installed and pushed fully into the rack. These tabs also lock the chassis in place when fully extended from the rack. This prevents the server from coming completely out of the rack when the chassis is pulled out for servicing.

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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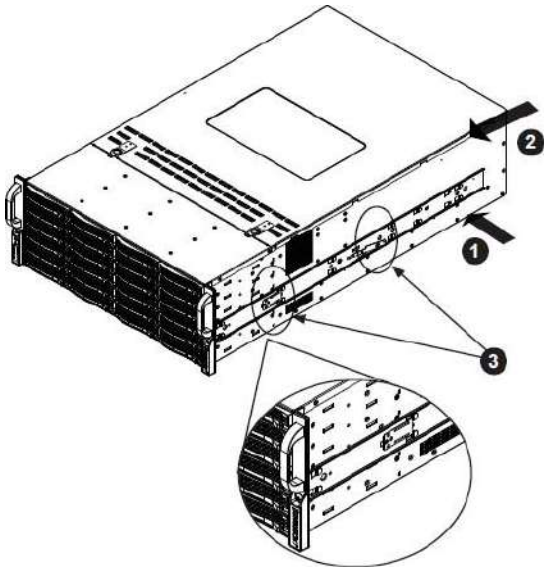
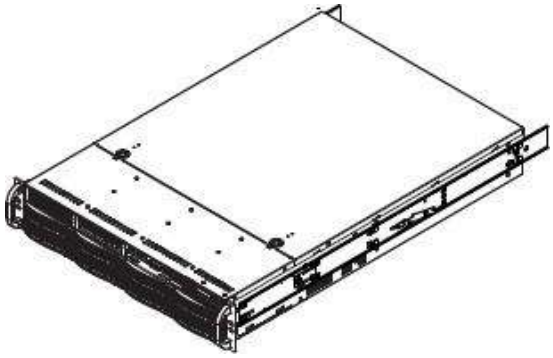
Installing the Inner Rails on the Chassis

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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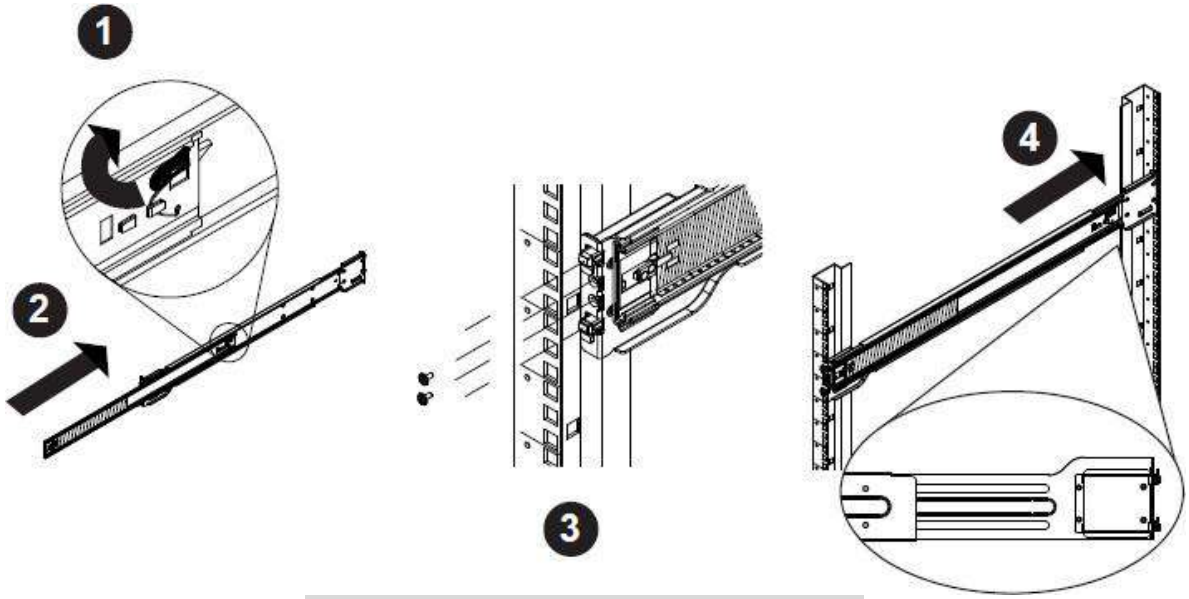
Installing the Outer Rails onto the Rack

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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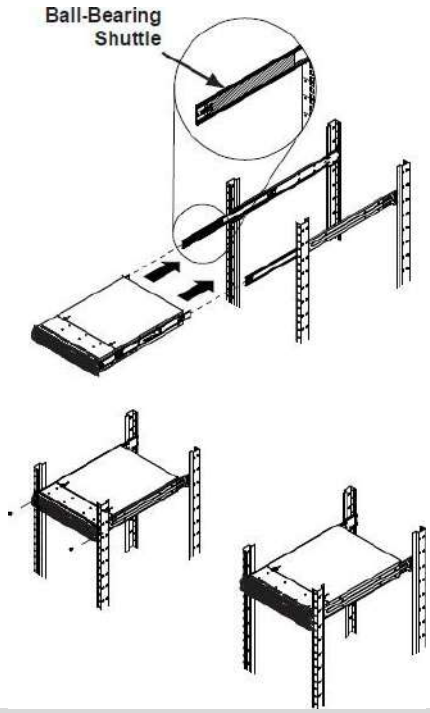
Sliding the Chassis onto the Rack Rails

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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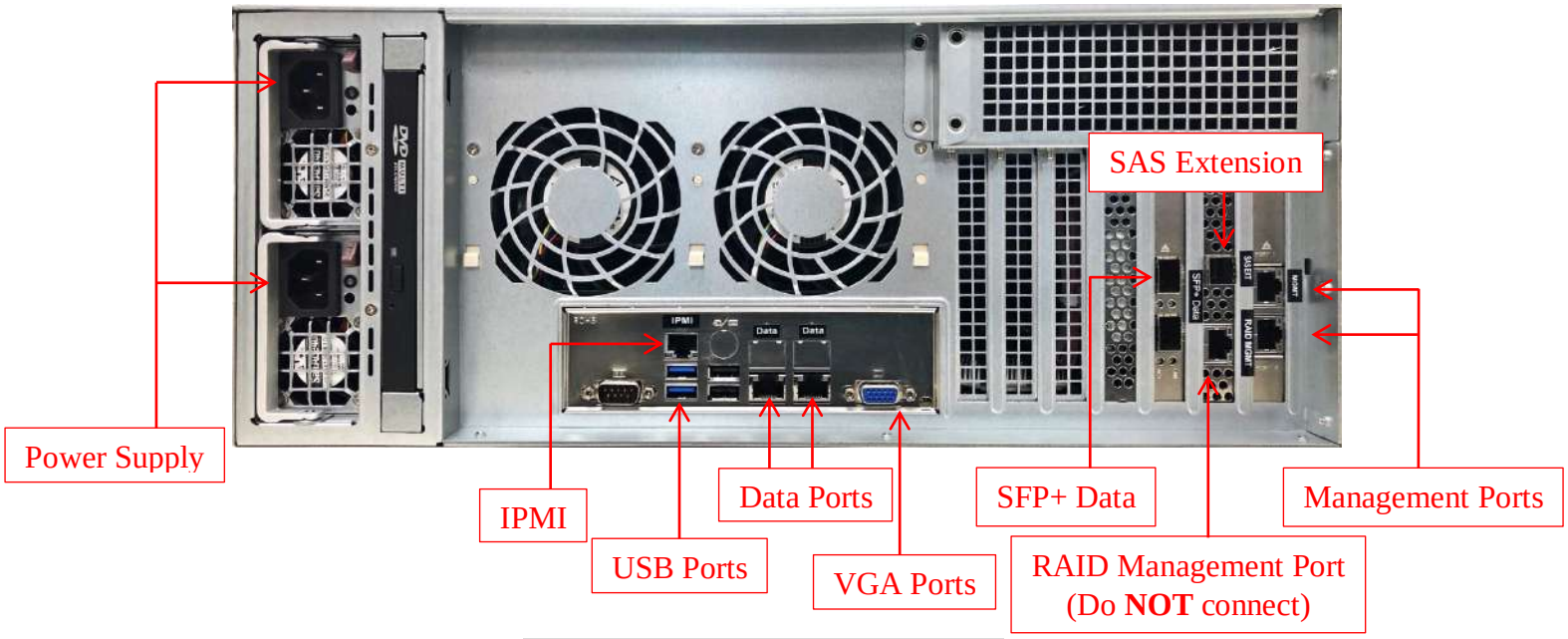
2.2. Power Up & Initial Access

These are the steps a user needs to follow in order to start using the StoneFly USS 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 USS

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 USS appliance.

NOTE:

- Serial port is not used by the USS appliance.
- SAS Expansion port is only used when connecting StoneFly Expansion Units to the USS 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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2.2.1 Expansion Unit Connections

Back Panel Connections of the Storage Expansion Unit

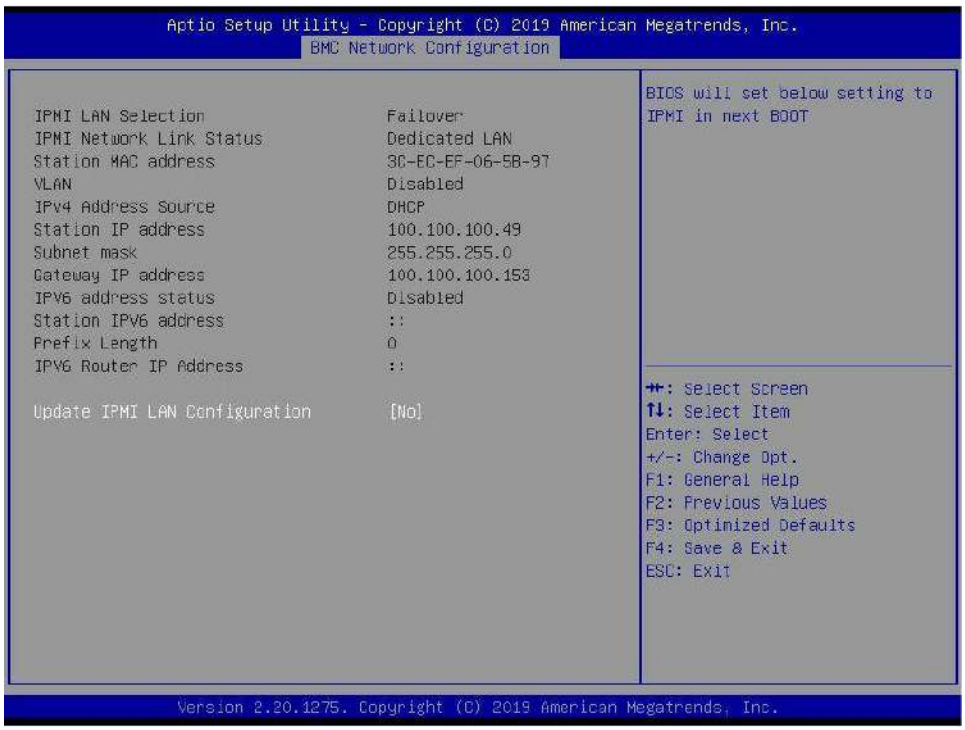
2.3. Configuring IPMI KVM

The Intelligent Platform Management Interface (IPMI) KVM configuration allows for **Remote Management** and **Power Control** of the StoneFly USS 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**:

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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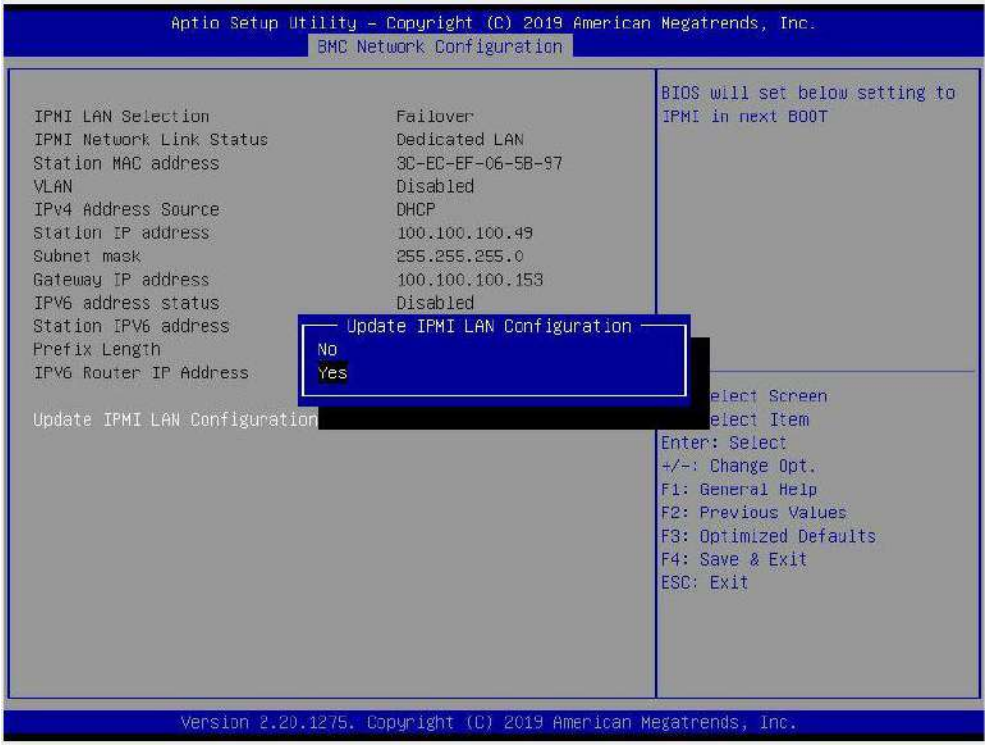
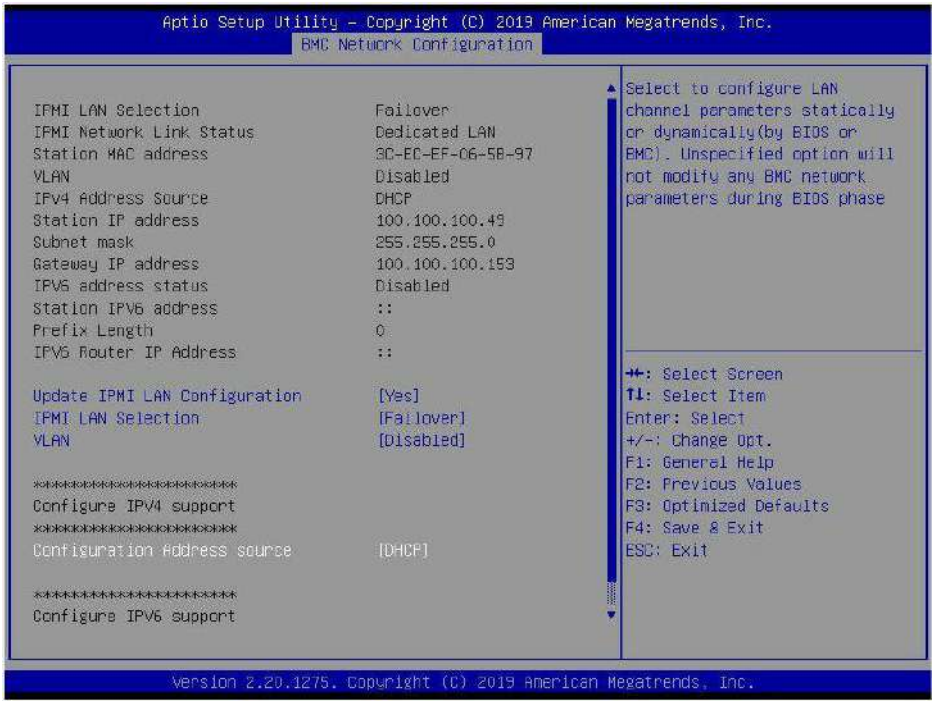
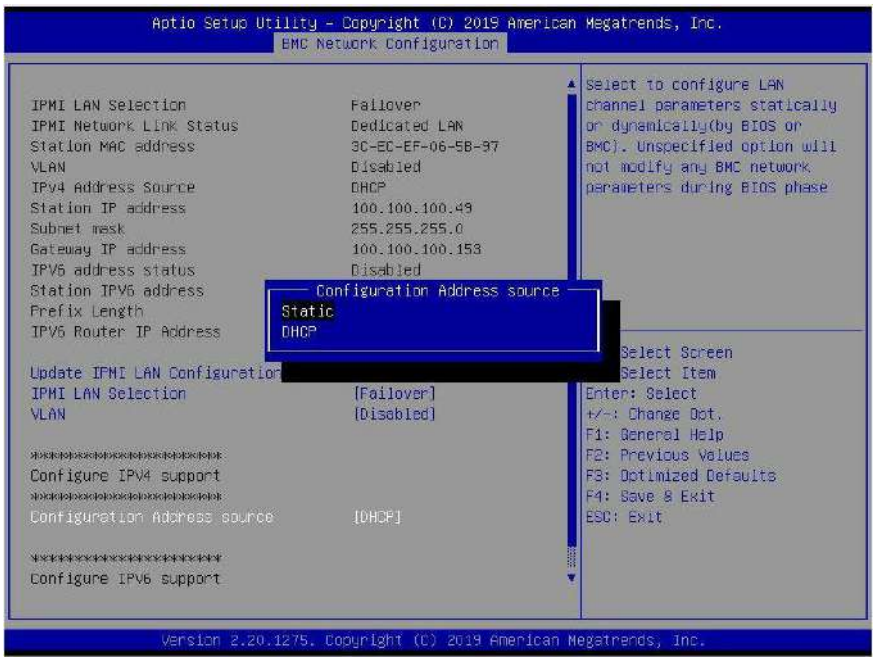


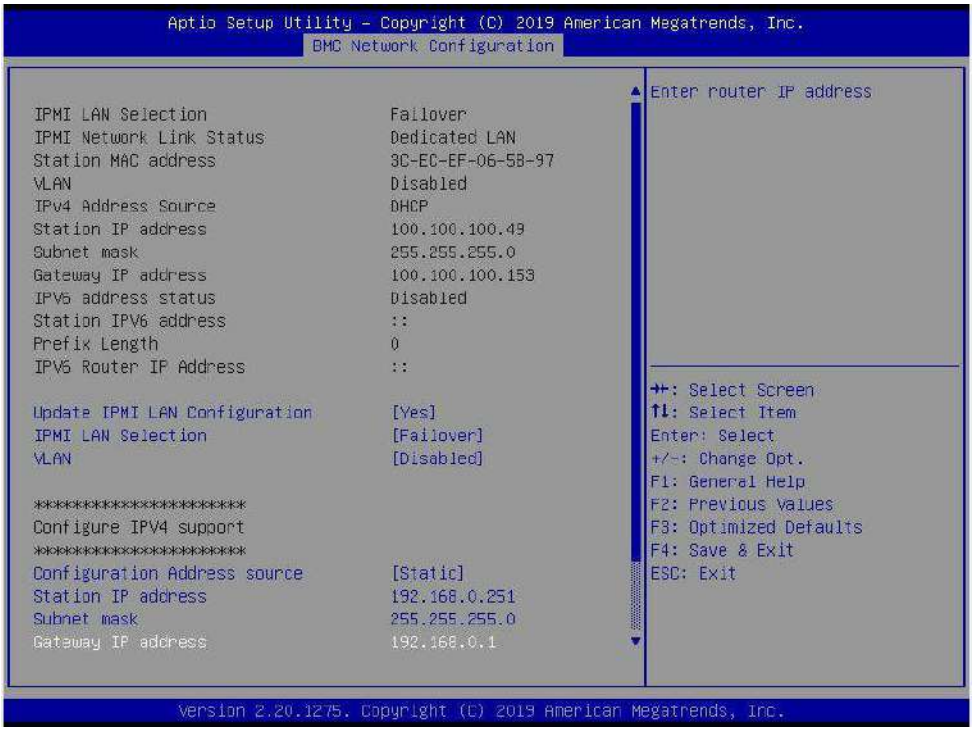
From the additional list of options, select **Configuration Address Source** and press **Enter**:



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



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



When entering addresses, please note:

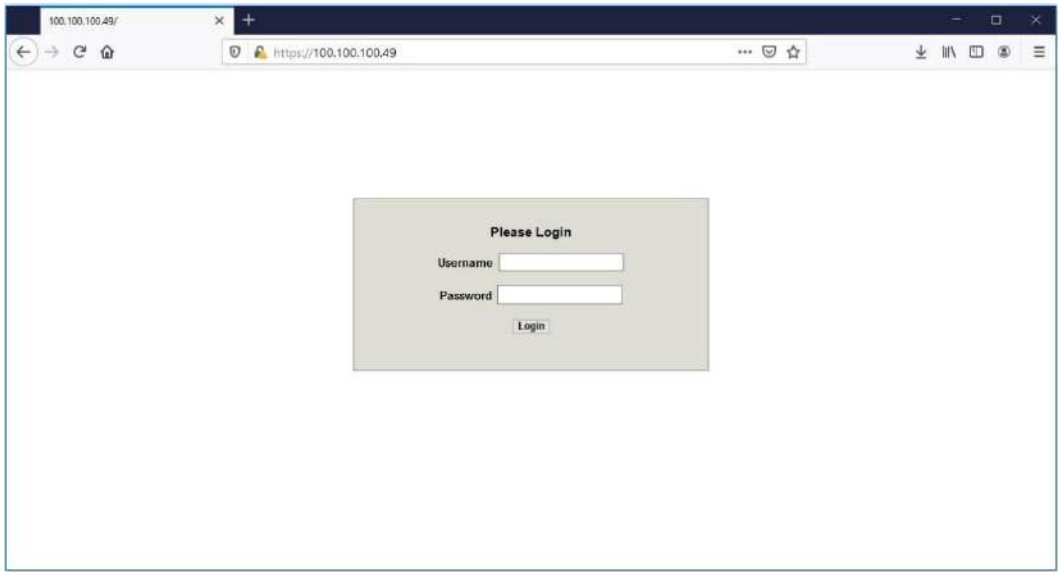
1. IP Address Must be on the same subnet as USS's Management port
2. IP Subnet Mask Same as USS's Management port
3. Default Gateway Same as USS's Management port

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.



Enter the following information in the login screen:

- Username: stonefly
- Password: Stonefly1

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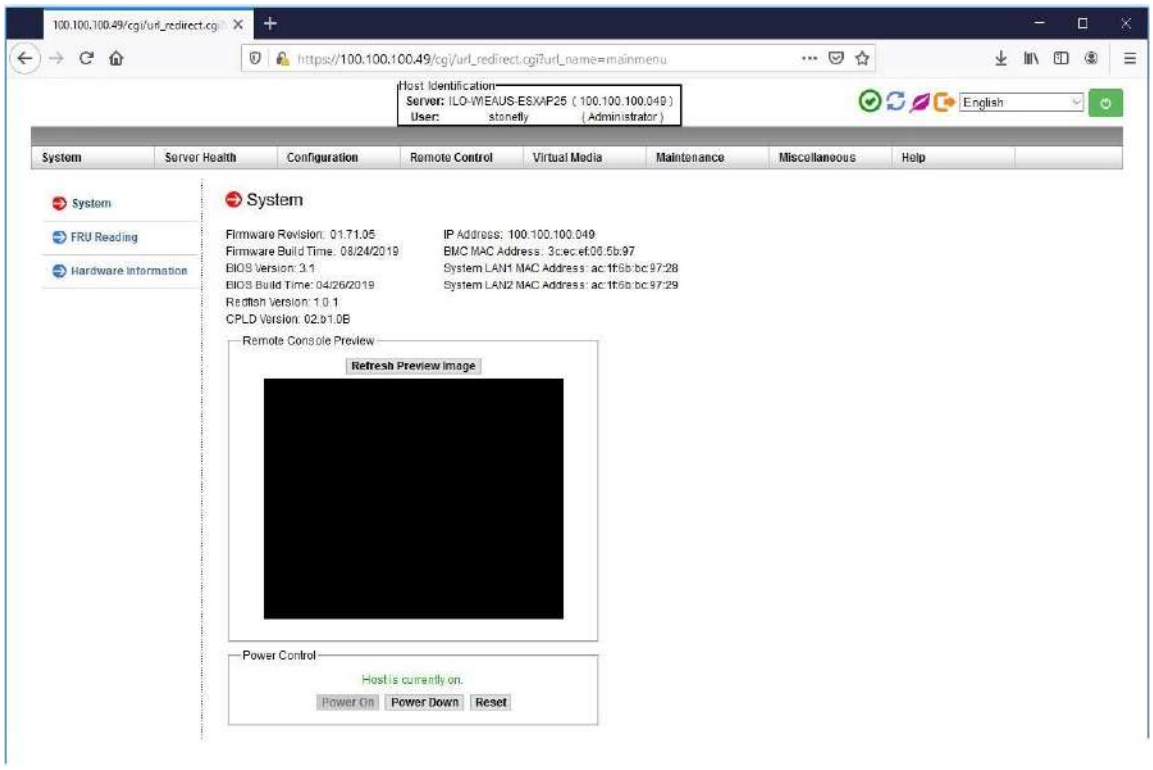
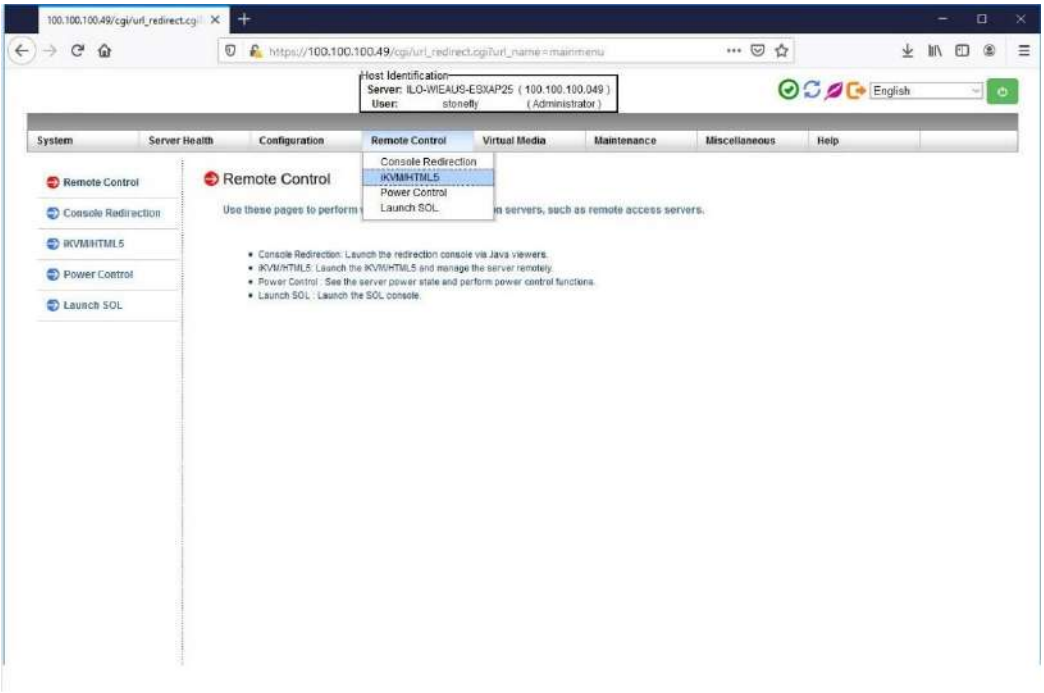


Navigate to **Remote Control** tab and select **iKVM/HTML5**:



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

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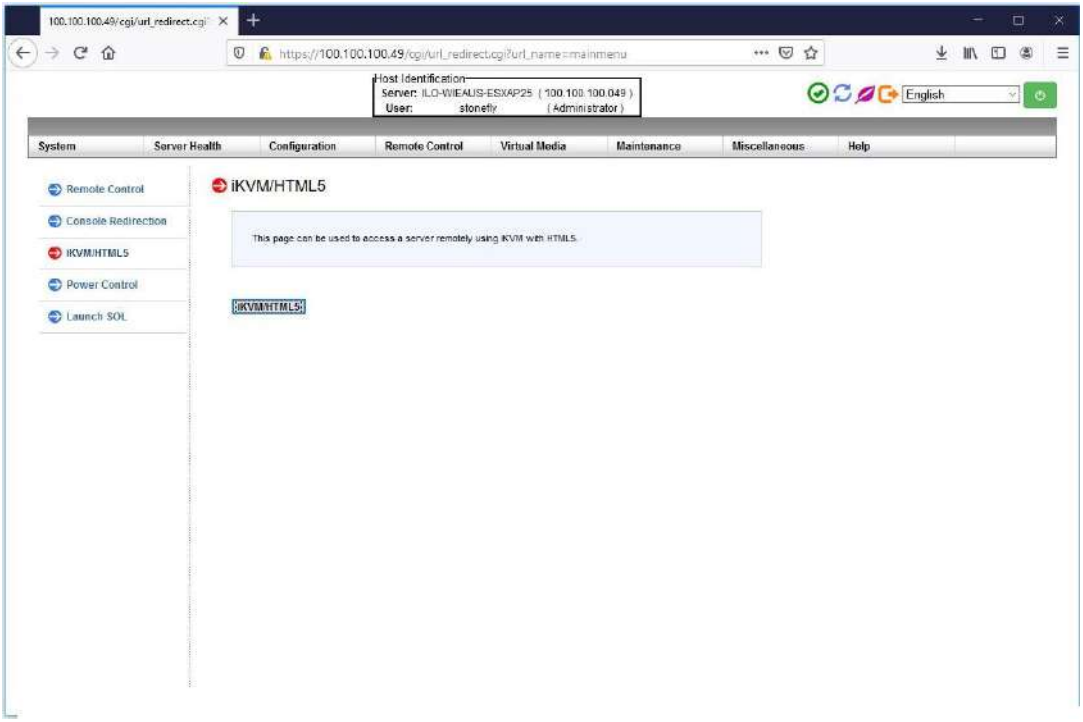
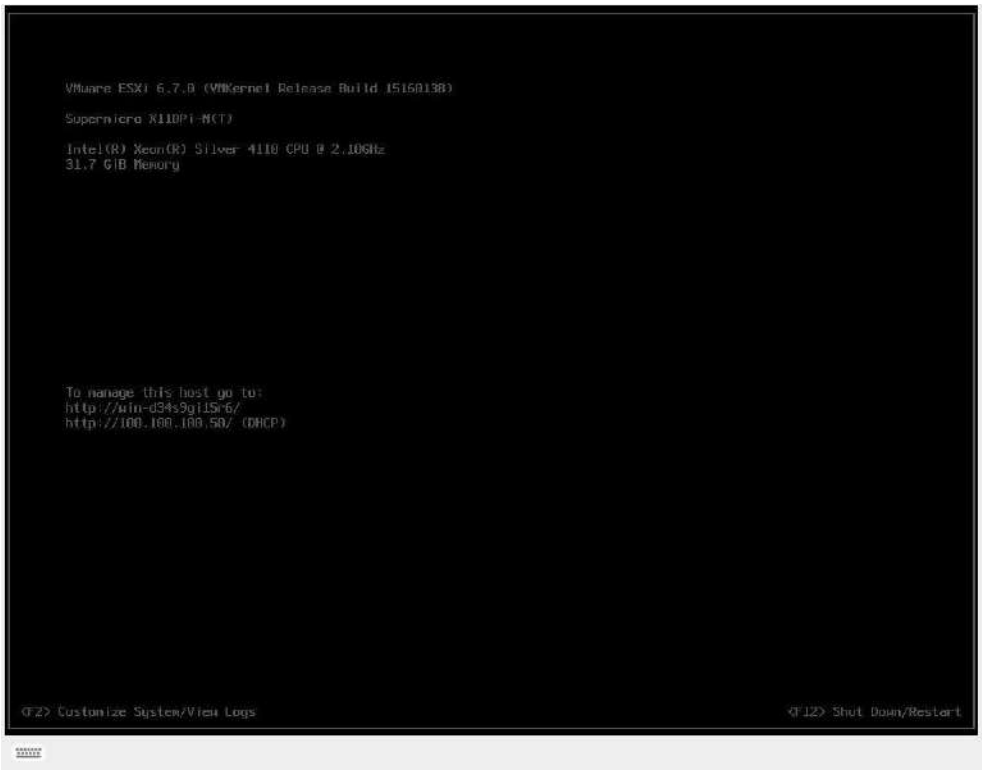
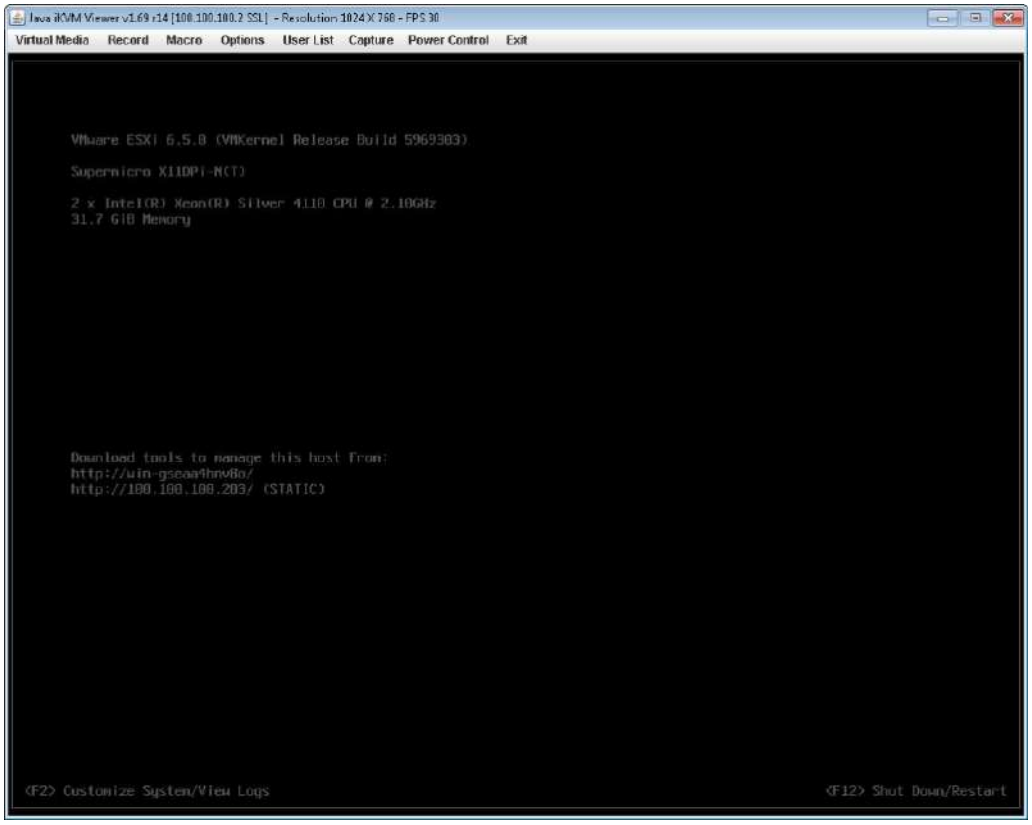
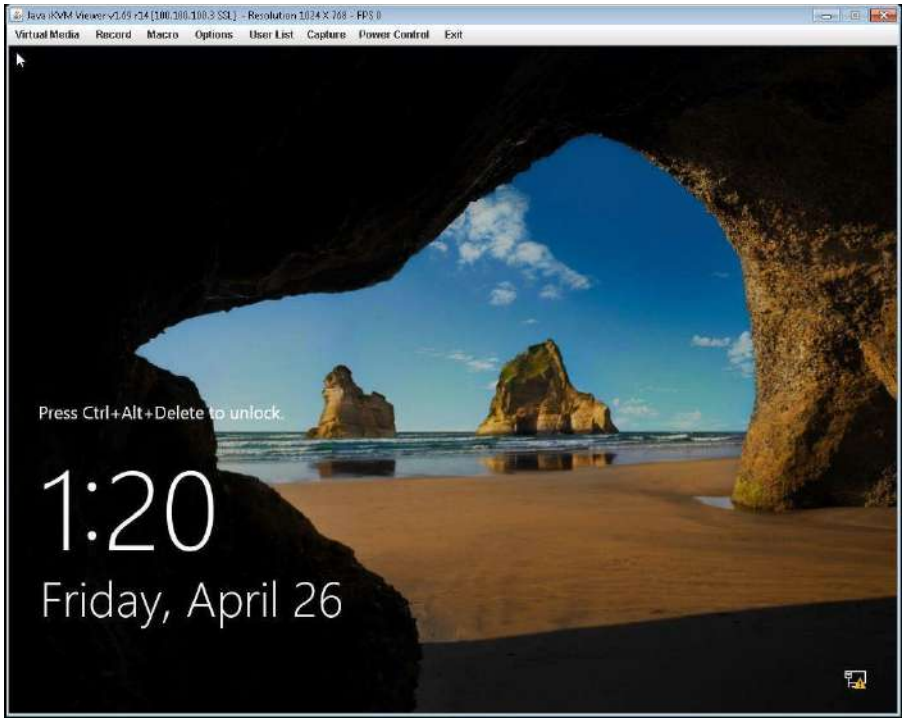

100.100.100.49/cgi/url_redirect.cgi
https://100.100.100.49/cgi/url_redirect.cgi?url_name=mainmenu
Host Identification
Server: ILO-WIEALIS-ESXAP25 (100.100.100.049)
User: stonefly (Administrator)
English
System
Server Health
Configuration
Remote Control
Virtual Media
Maintenance
Miscellaneous
Help
Remote Control
Console Redirection
IKVM/HTML5
Power Control
Launch SOL
iKVM/HTML5
This page can be used to access a server remotely using iKVM with HTML5.
iKVM/HTML5


VMware ESXi 6.7.0 (VMKernel Release Build 15160138)
Supermicro X11DPi-NCT
Intel(R) Xeon(R) Silver 4110 CPU @ 2.10GHz
31.7 GiB Memory
To manage this host go to:
http://win-d34s9gi15r6/
http://100.100.100.50/ (DHCP)
<F2> Customize System/View Logs
<F12> Shut Down/Restart



(For VMware Hypervisor)



(For Hyper-V Hypervisor)

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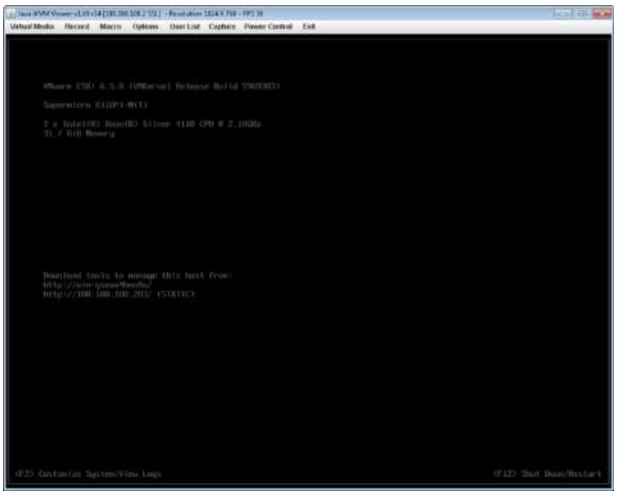
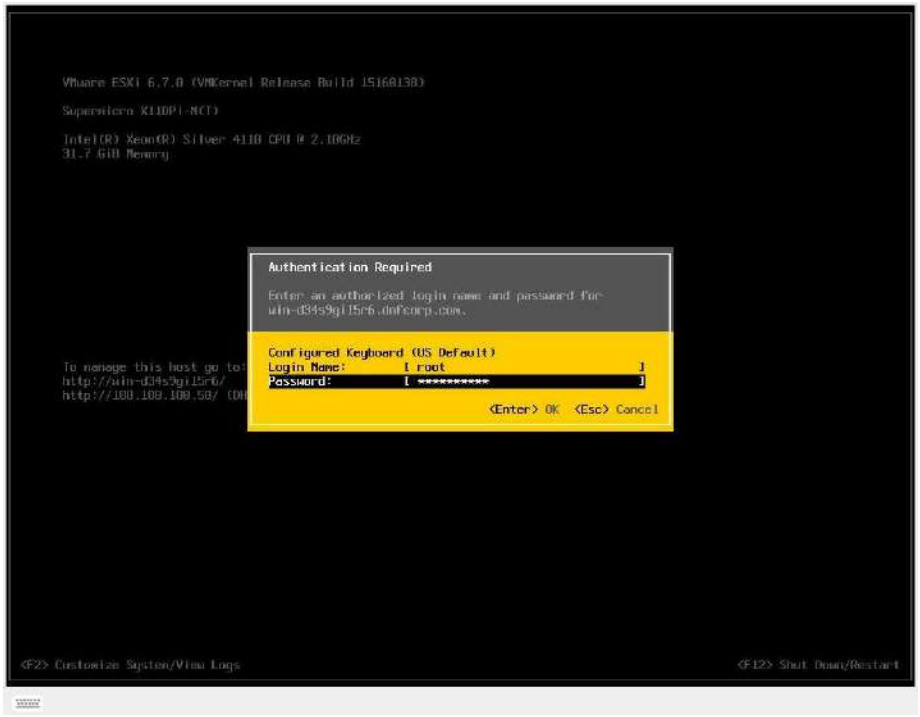
The system user console screen will appear.

2.4. VMware Management Network Configuration

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

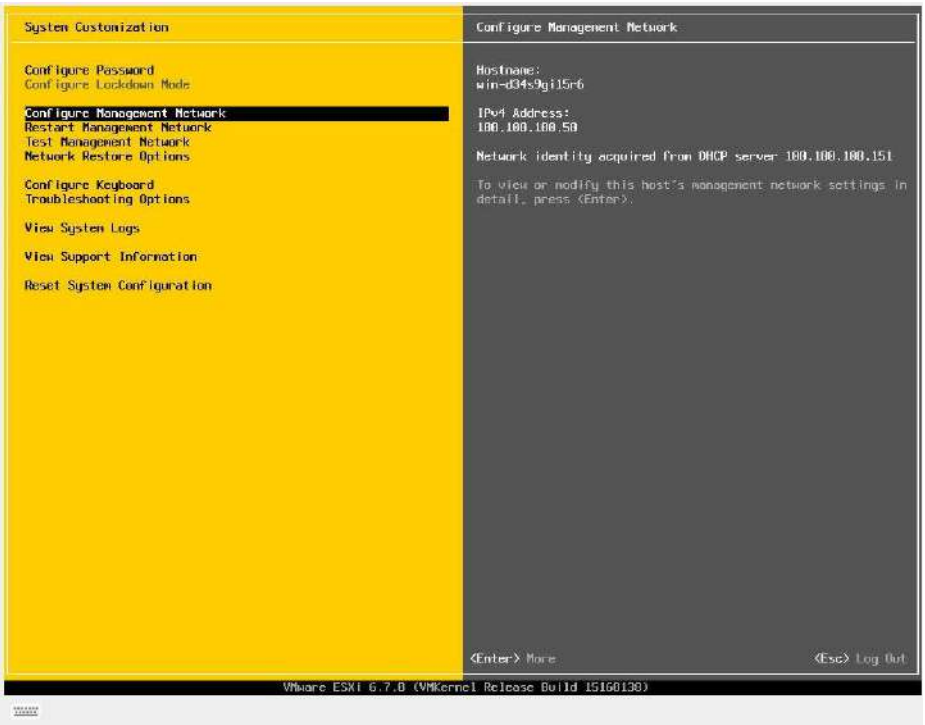
Connect to System console. Attach a keyboard and monitor or use system IPMI KVM.





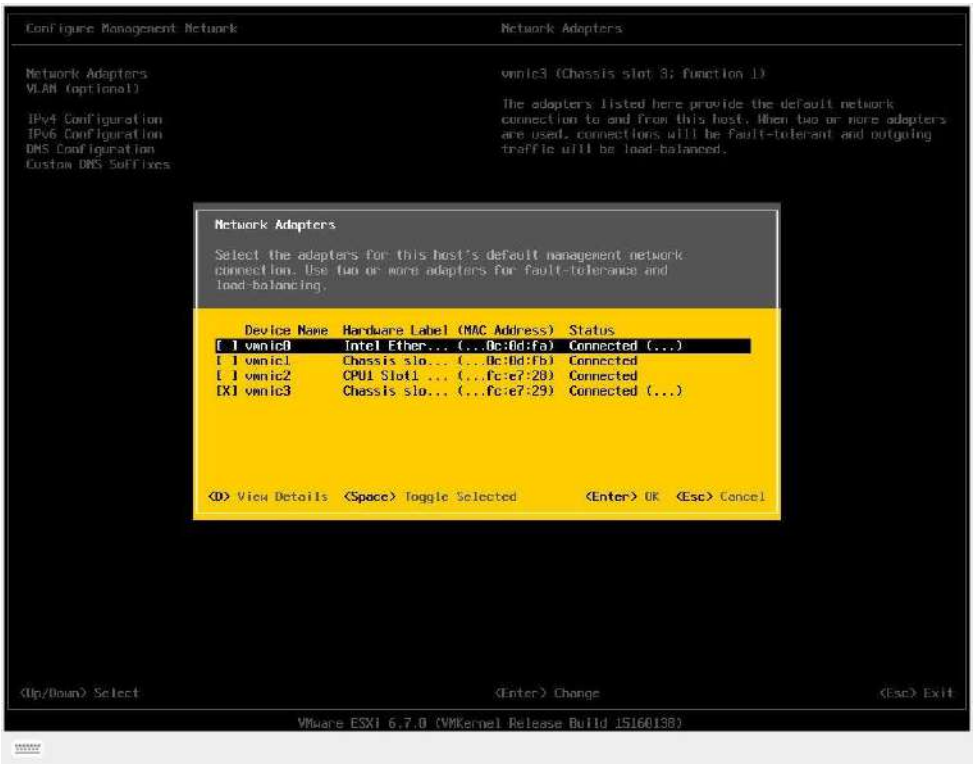
Press the **F2** key to customize system. Then enter **Login Name** and **Password** and hit the **Enter** key to continue. The default Login information is as follows:

- Login: root
- Password: Stonefly1!

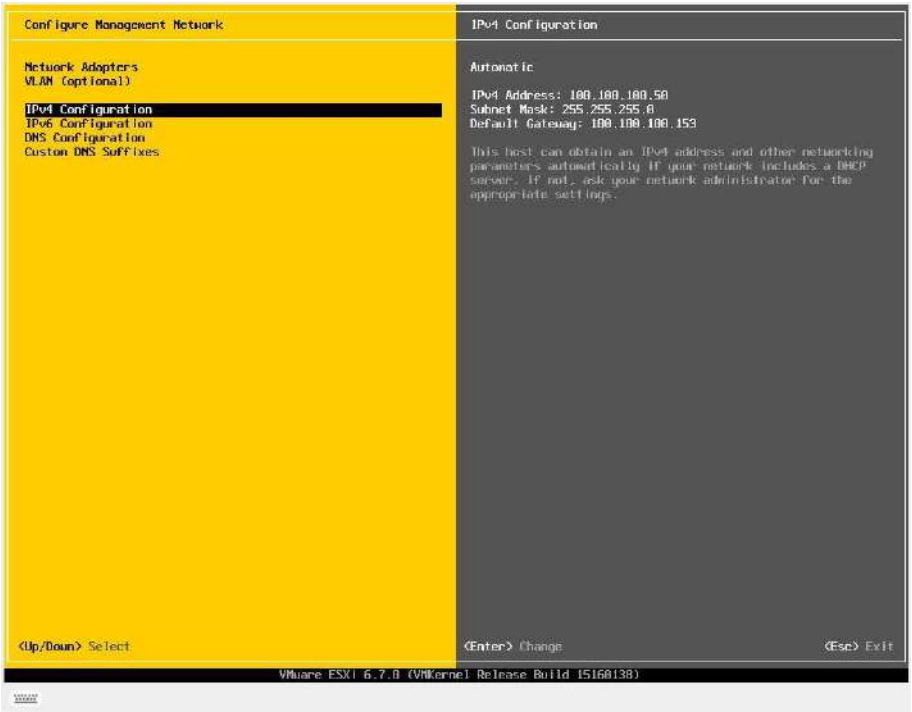


Select **Network Adapters** and press the **Enter** key.

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



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



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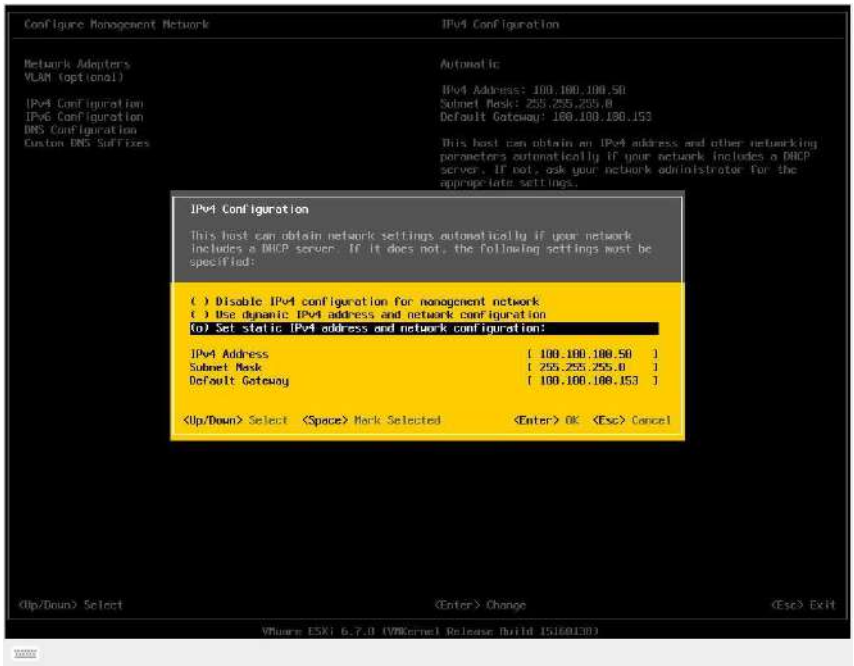
Select **Set static IPV4 address and network configuration**. Enter the IP Addresses as needed, then hit the **Esc** key to return.



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

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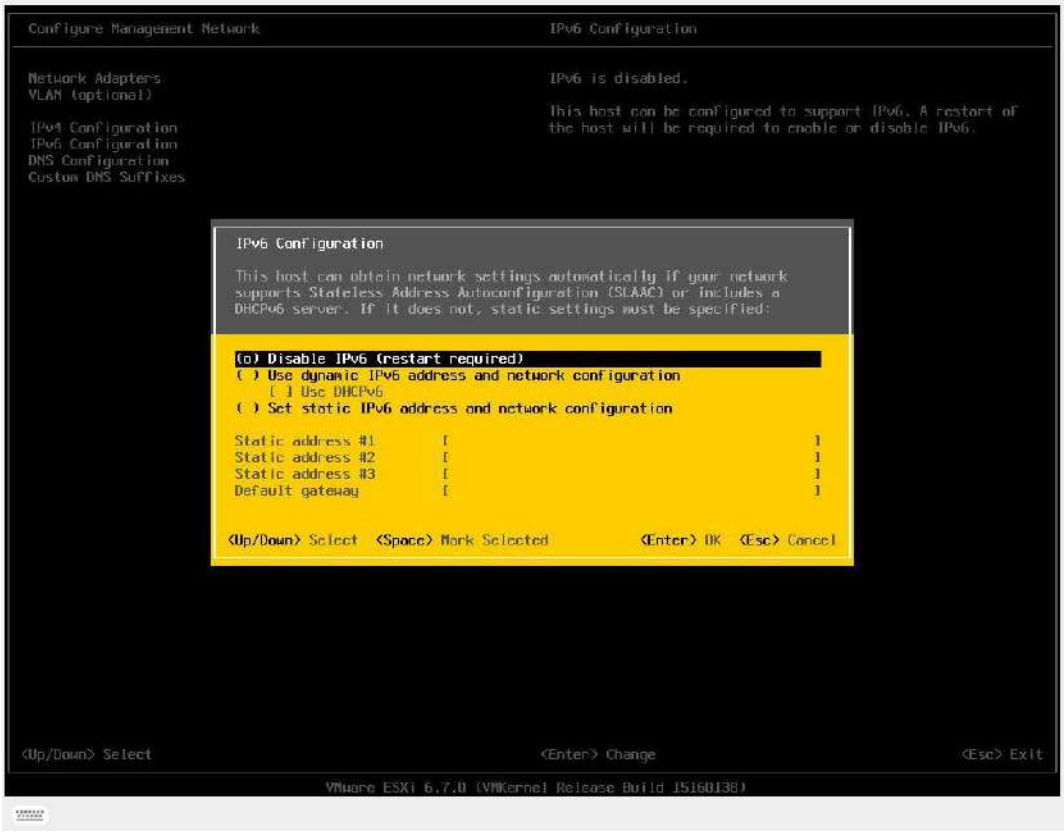
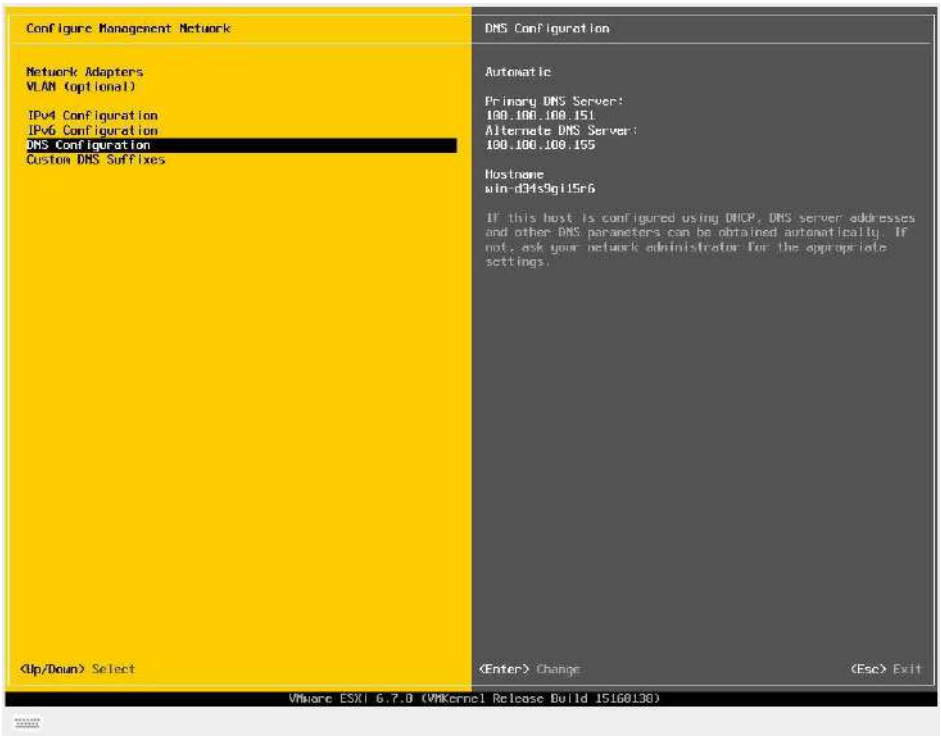
On the following screen, select **Disable IPv6 (restart required)**, then press the **Esc** key.



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



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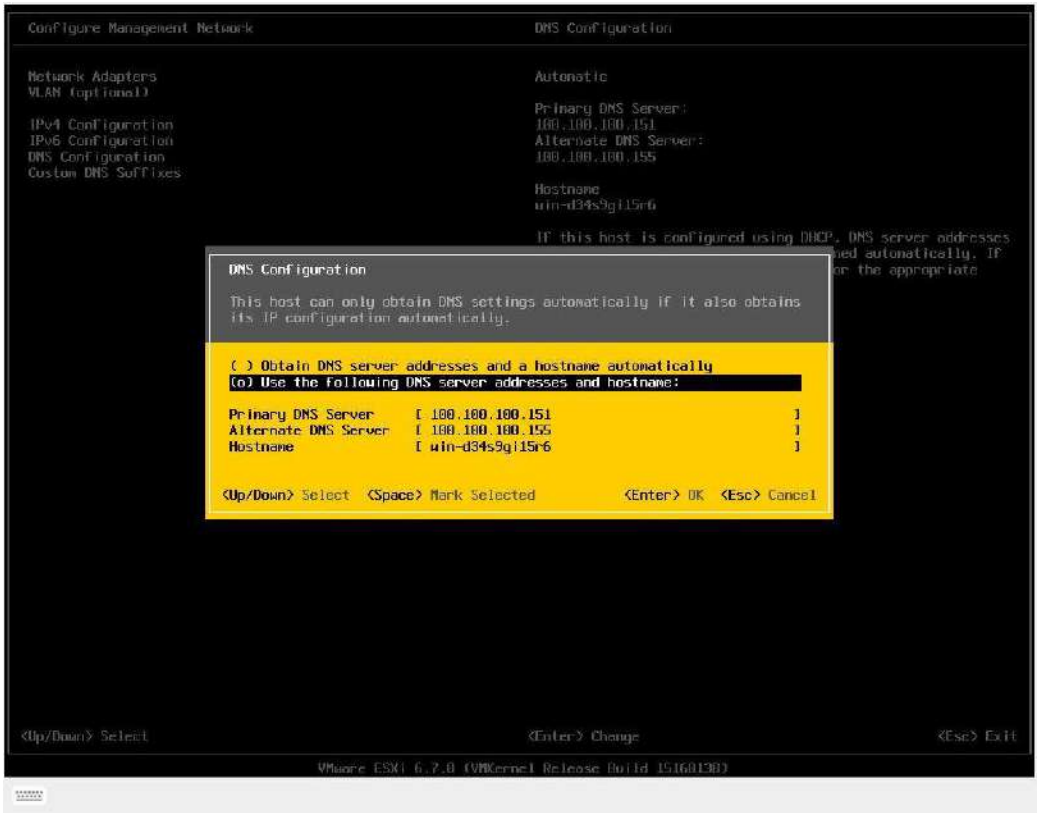
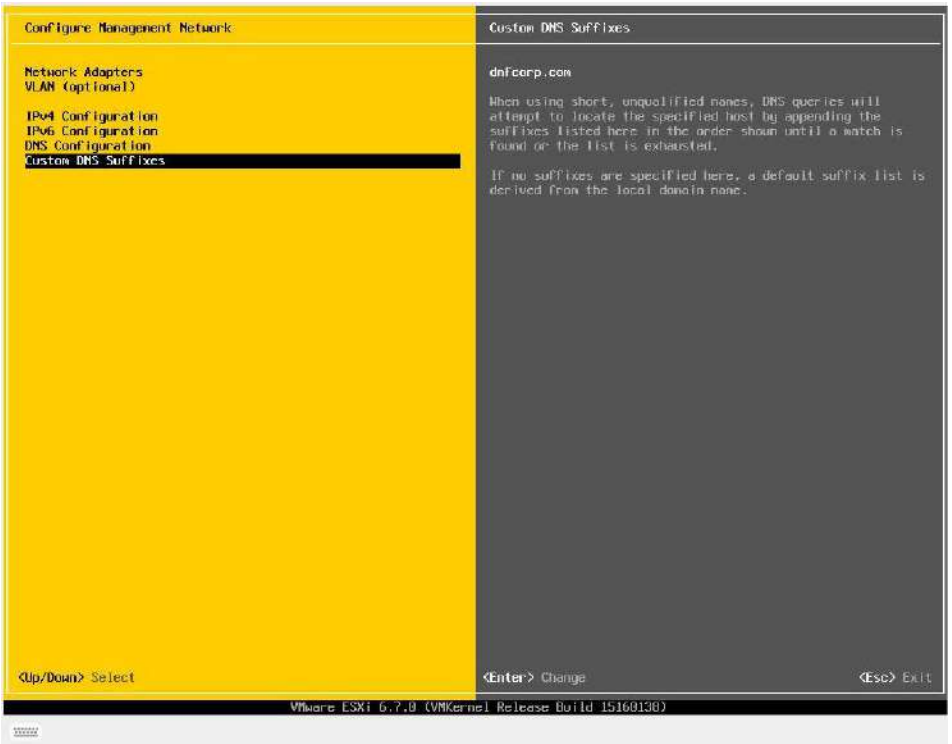
Enter information for **DNS server** and **hostname** as needed then hit the **ESC** key to return.



Select **Custom DNS Suffixes**, then hit the **Enter** key.



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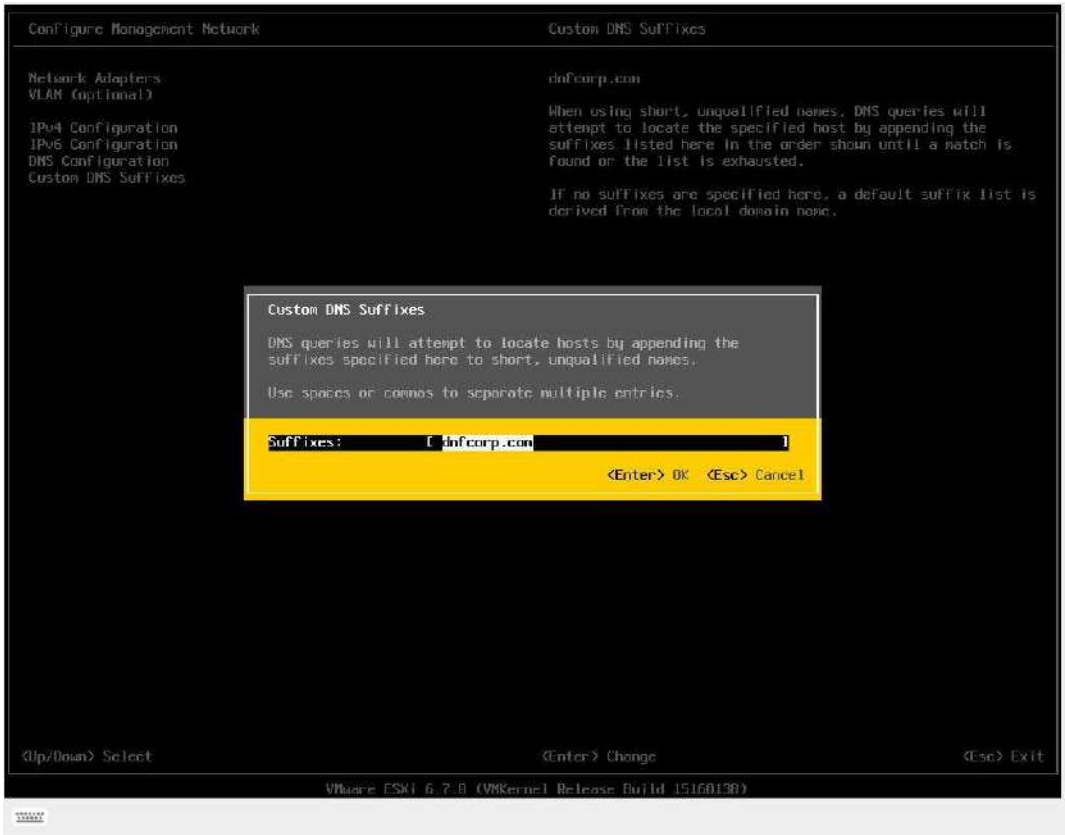
Enter **DNS Suffixes** as needed, then hit the **ESC** key to return.



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

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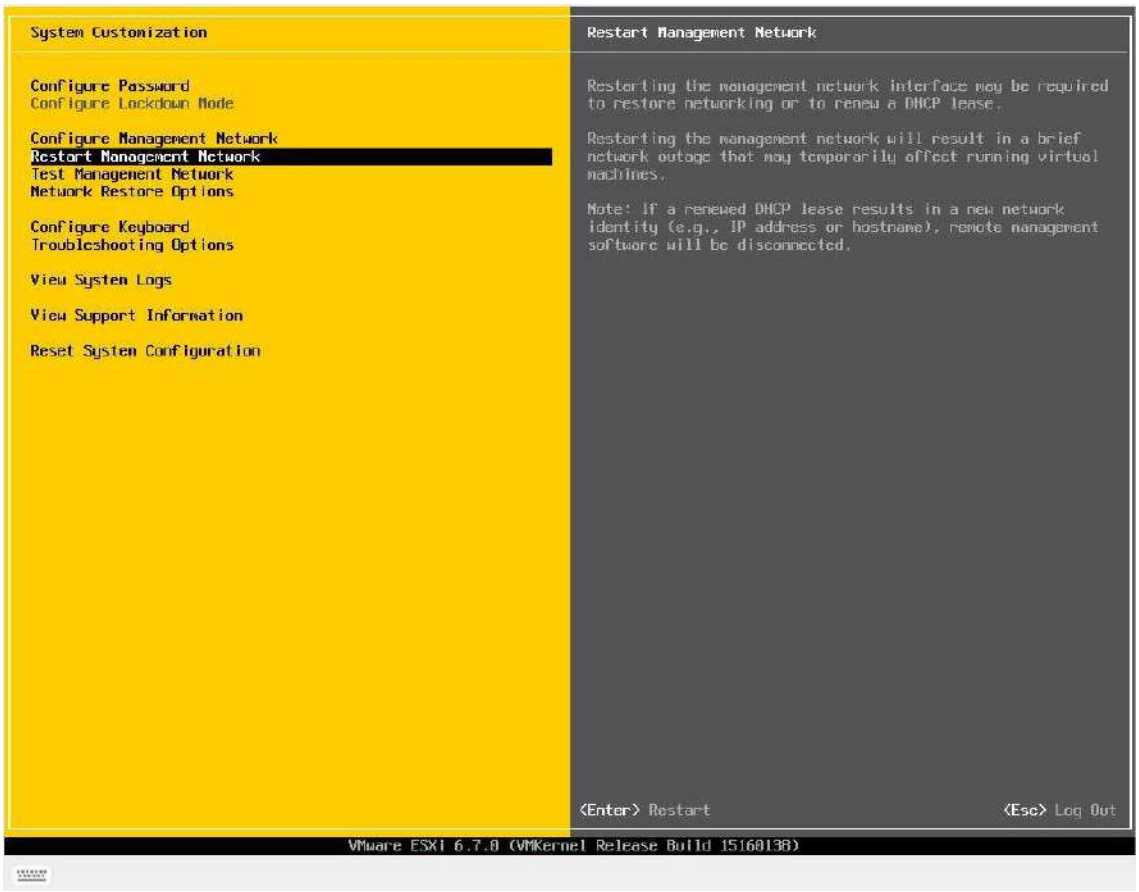
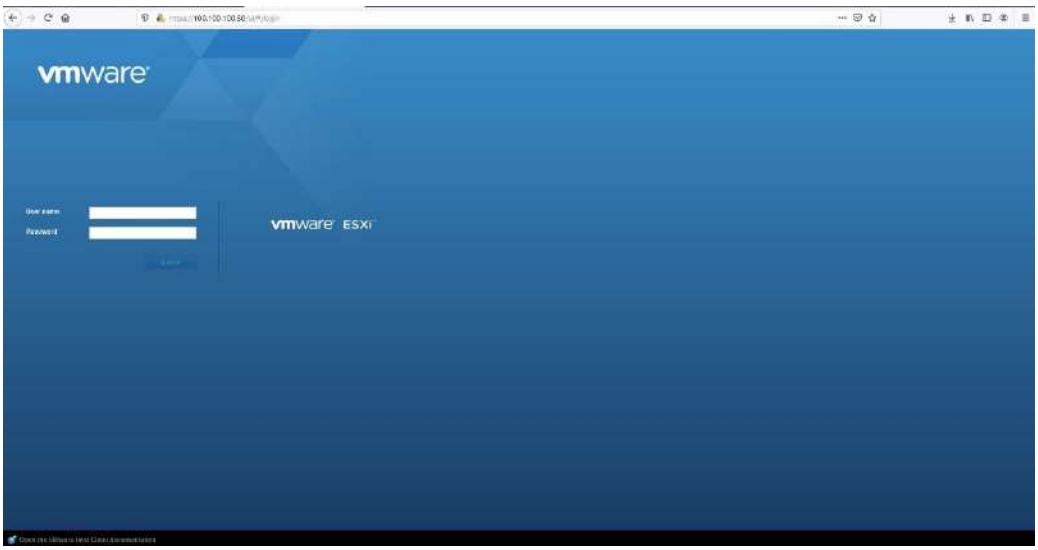

System Customization
Configure Password
Configure Lockdown Mode
Configure Management Network
Restart Management Network
Test Management Network
Network Restore Options
Configure Keyboard
Troubleshooting Options
View System Logs
View Support Information
Reset System Configuration
Restart Management Network
Restarting the management network interface may be required to restore networking or to renew a DHCP lease.
Restarting the management network will result in a brief network outage that may temporarily affect running virtual machines.
Note: If a renewed DHCP lease results in a new network identity (e.g., IP address or hostname), remote management software will be disconnected.
<Enter> Restart
<Esc> Log Out
VMware ESXi 6.7.0 (VMKernel Release Build 15160138)

2.5. Steps to Configure SCVM Management Port (VMware)

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

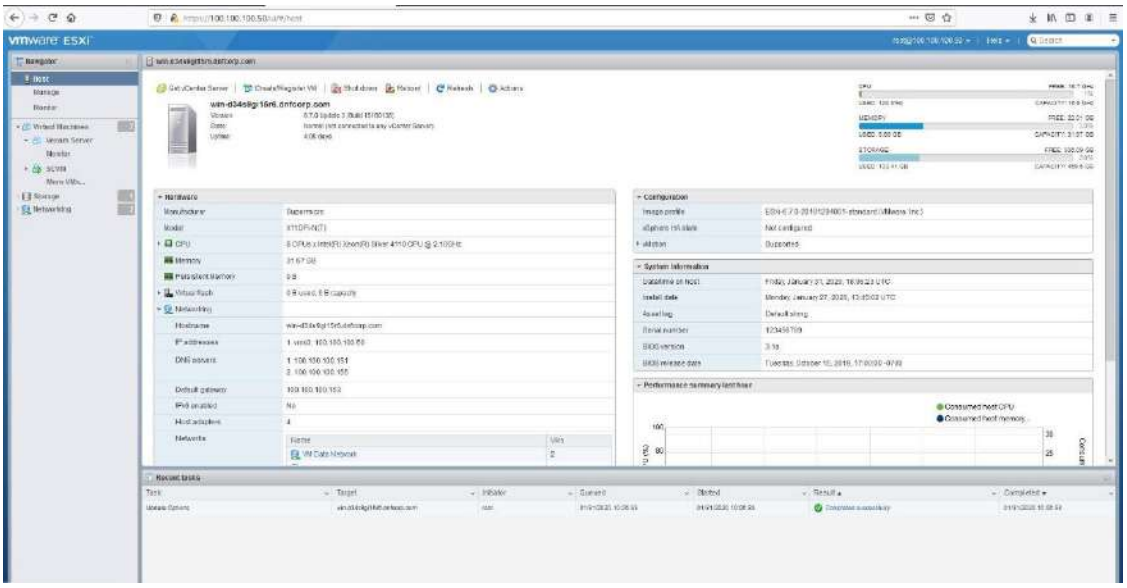


The default login information is as follows:

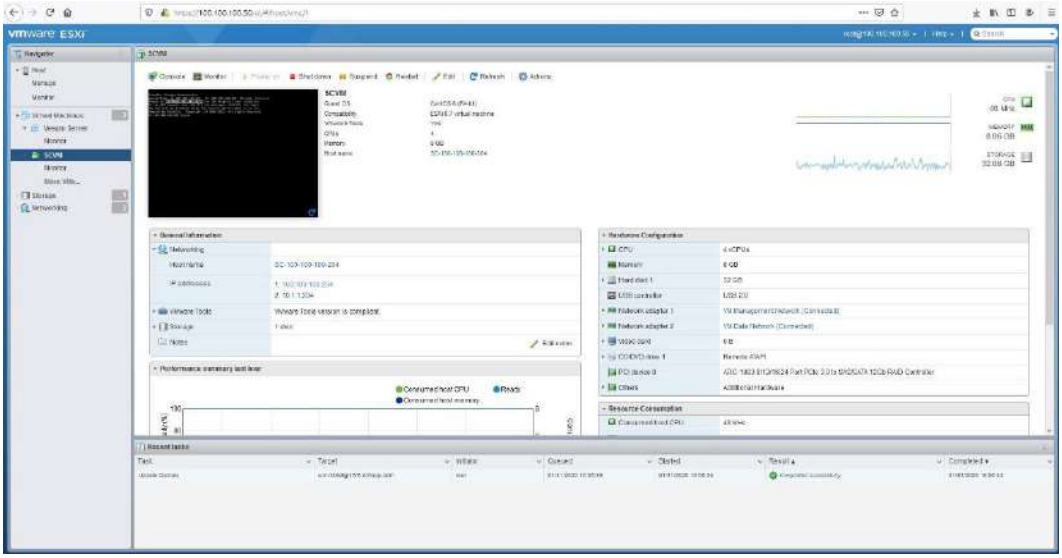
Username: root

Password: Stonefly1!

1. 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:



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.

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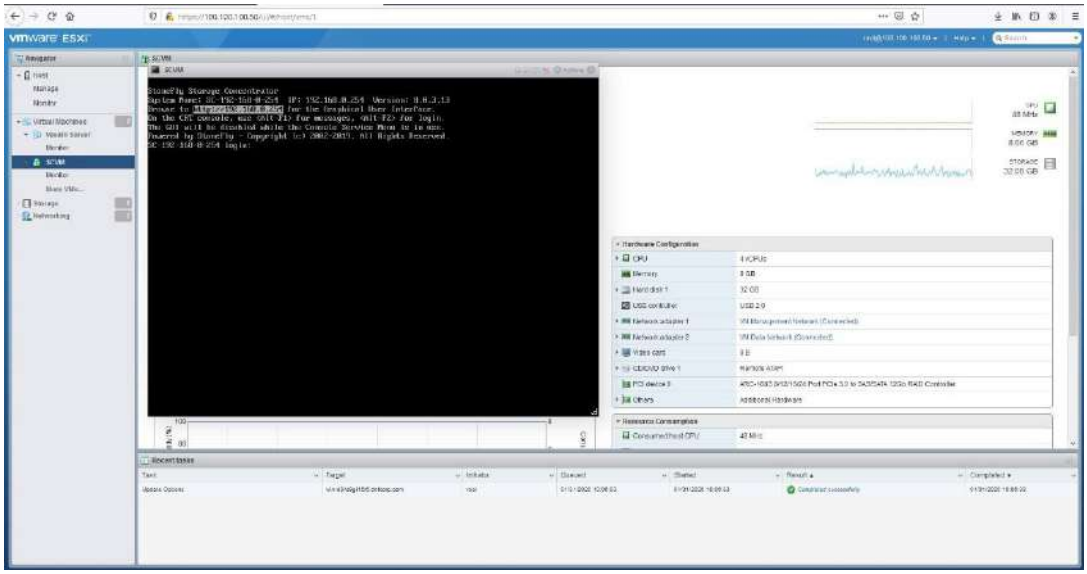
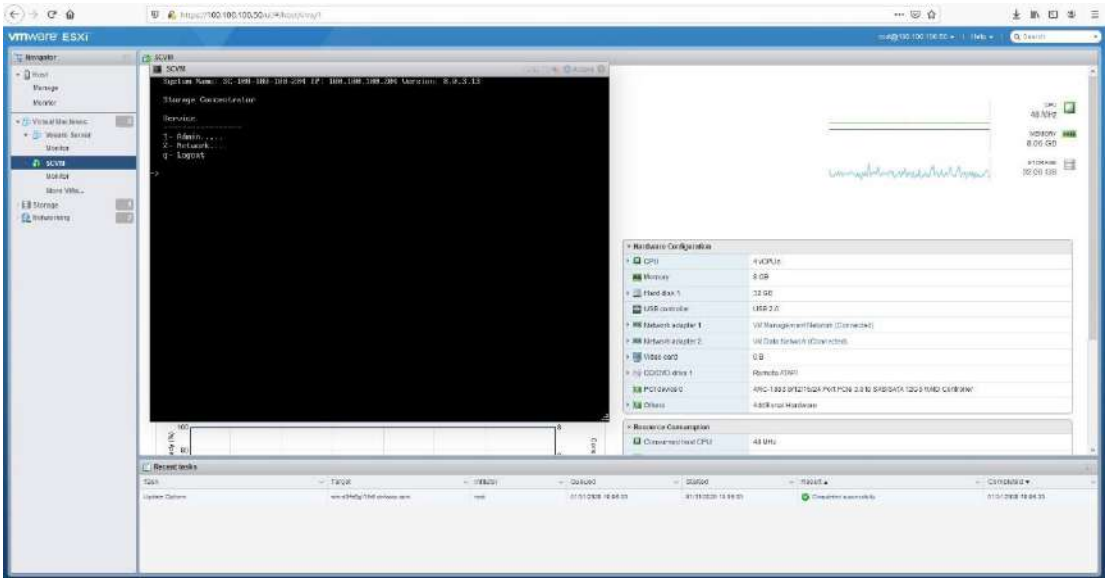


2. Using the **SC Service** menu, configure the management network by selecting option **2**, for **2 – Network**.



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

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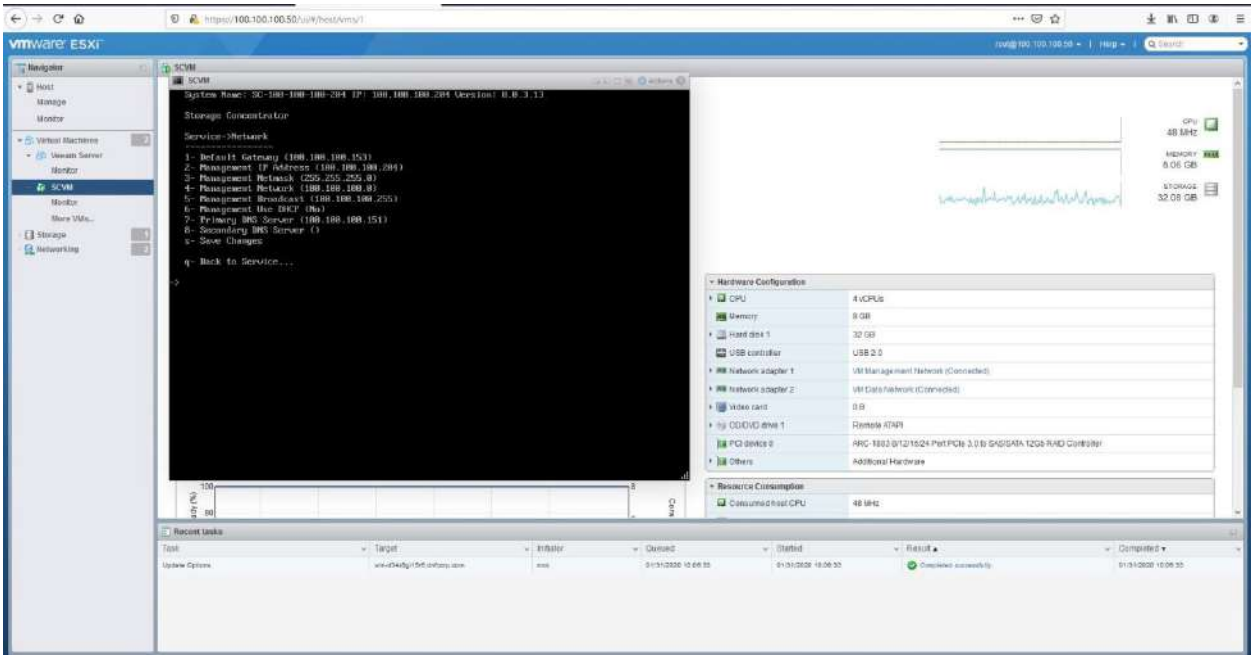

Adjusted settings are shown below. Enter **q** at the command prompt to exit back to the service menu. Enter **q** again to exit out of the user console service.

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.

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.

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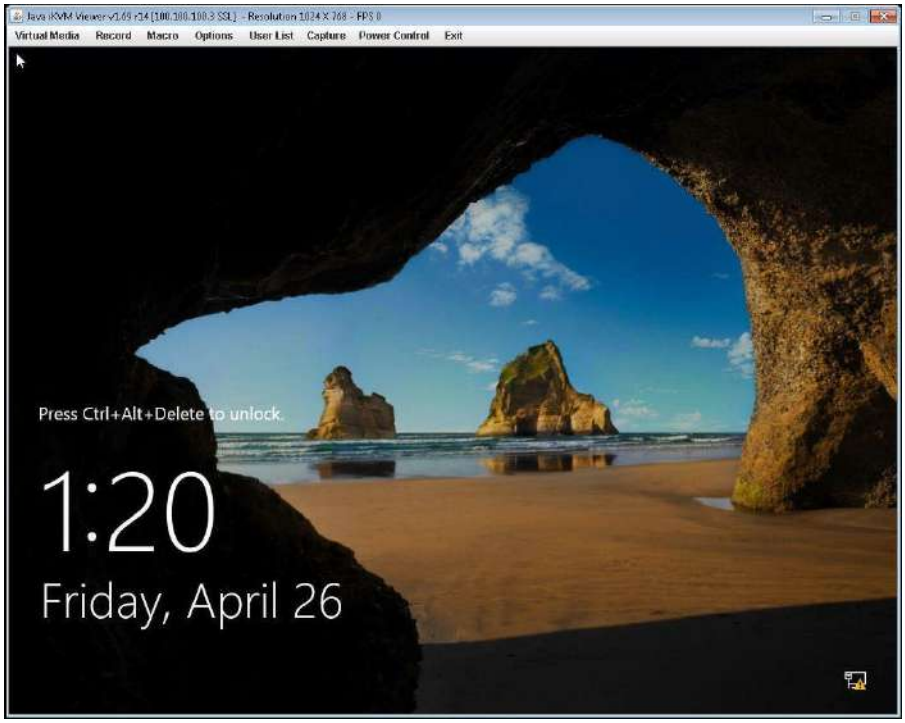

Launch the console, press **CTRL + ALT + DELETE** and enter the following credentials:

Username: **administrator**

Password: **Stonefly1**

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

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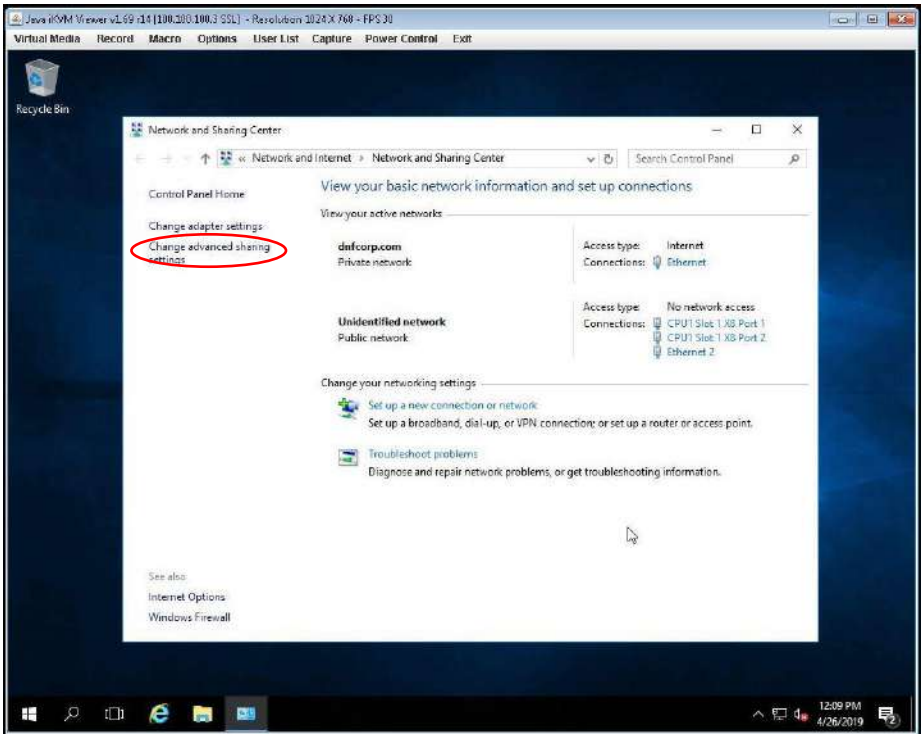
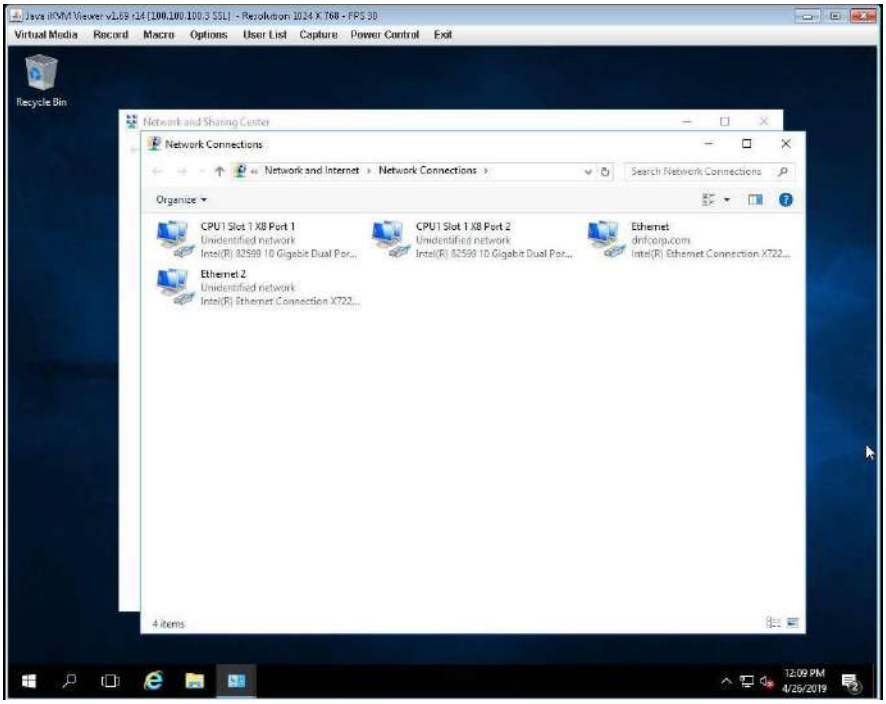
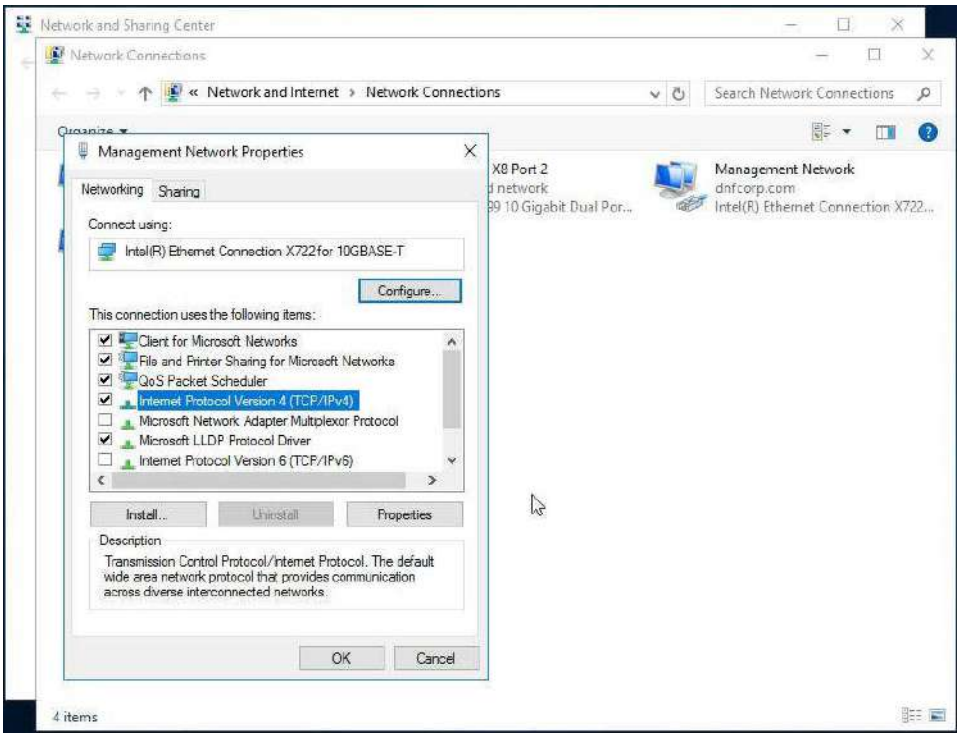


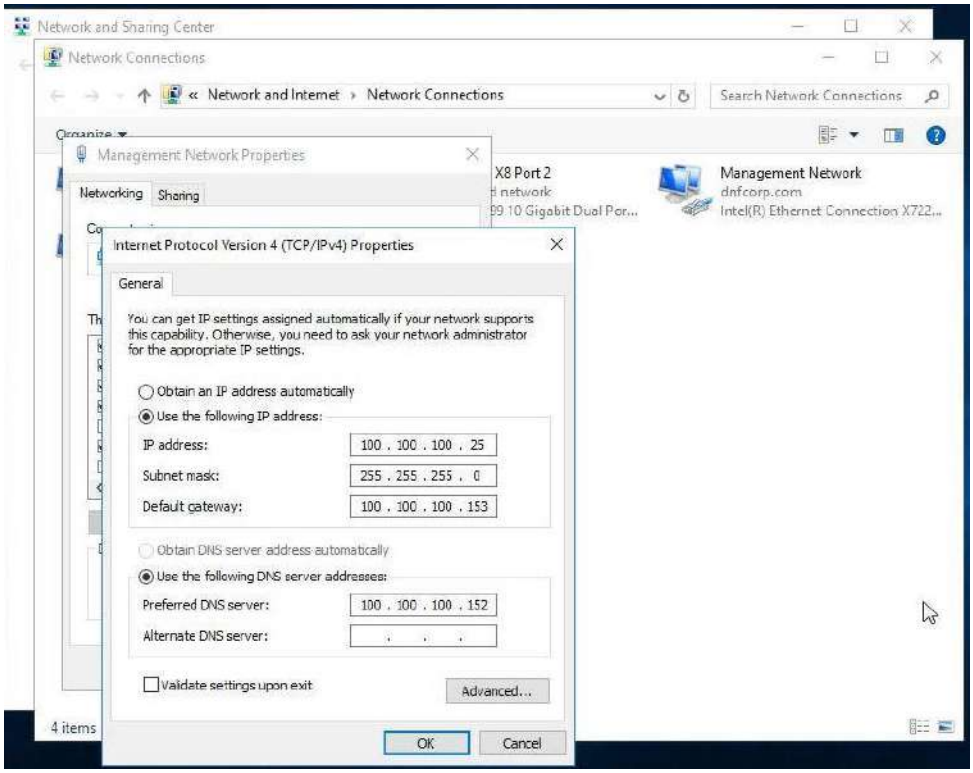
Click on **Change adapter settings** from the left menu.



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



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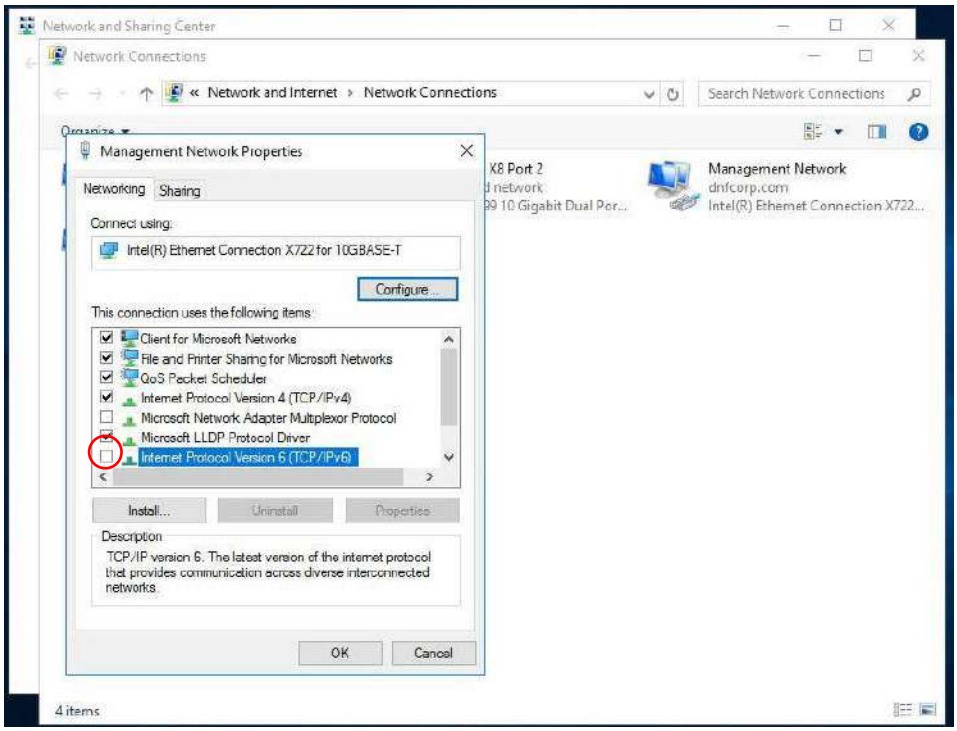
Make sure to disable **Internet Protocol Version 6** from the **Management Network Properties** window by unchecking the box next to it.



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

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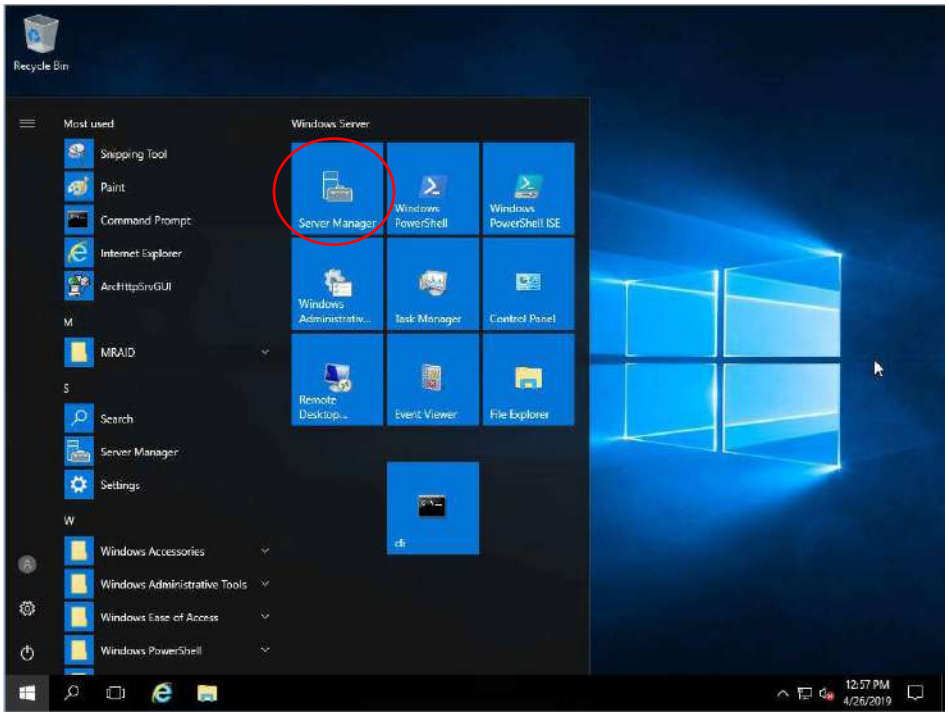
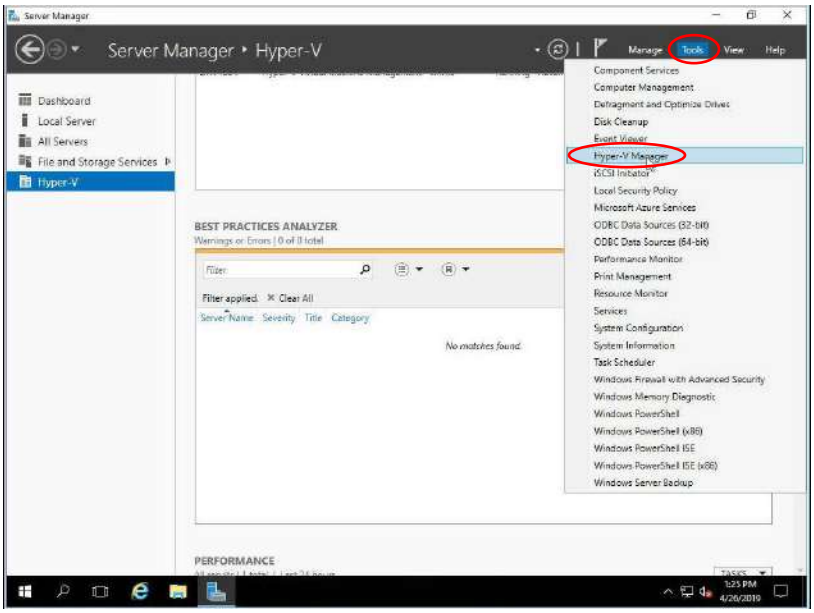
2.7. Steps to Configure SCVM Management Port (Hyper-V)

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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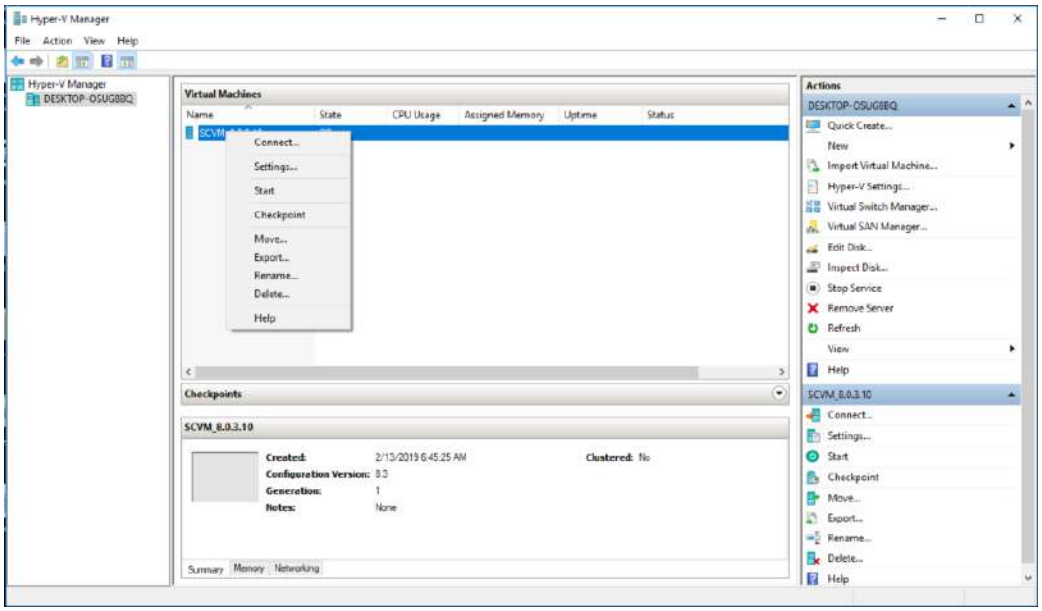
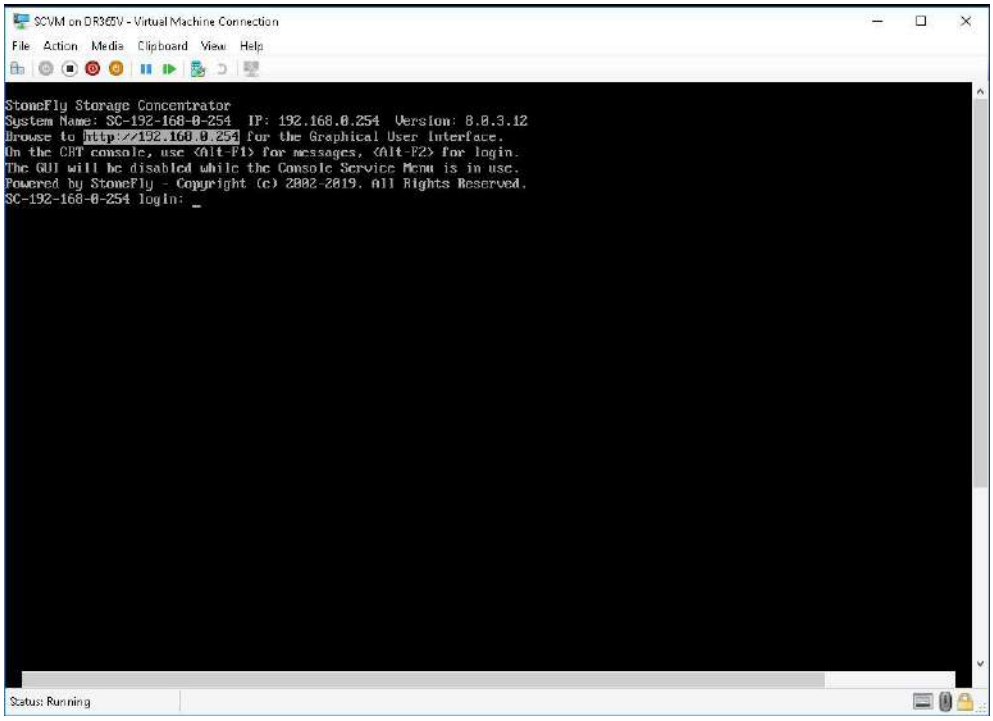


Right click on **SCVM,** and select **Connect** to access the user interface of the Virtual Machine. This will show a window like this:



Steps to use the pre-installed SCVM:

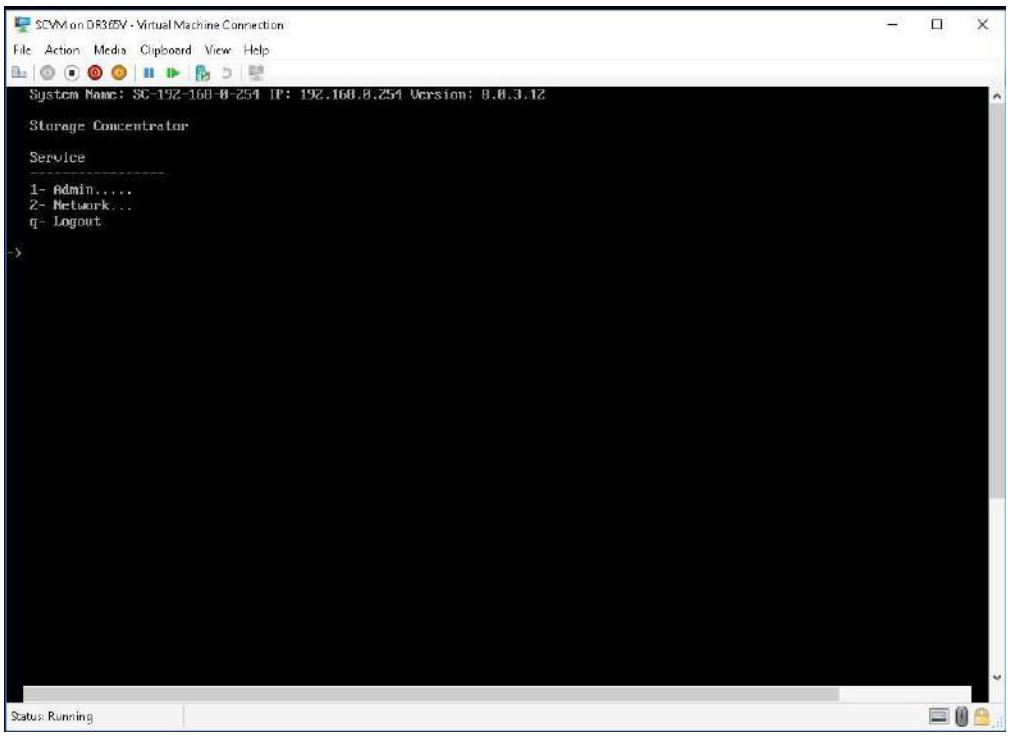
1. The SCVM management network interface is preconfigured with the default IP address of 192.168.0.254. This must be changed to a valid address for your LAN network. Login to the **SC Service** console using the Hyper-V "Virtual Console" for the SCVM by doing the following:

   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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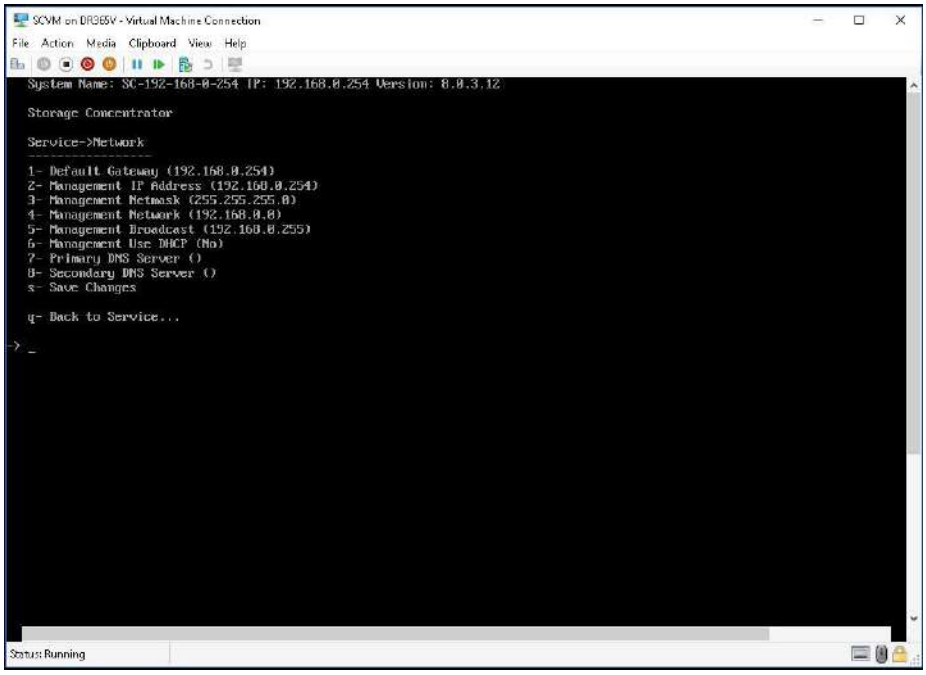

Adjusted settings are shown below. Enter **q** at the command prompt to exit back to the service menu. Enter **q** again to exit out of the user console service.

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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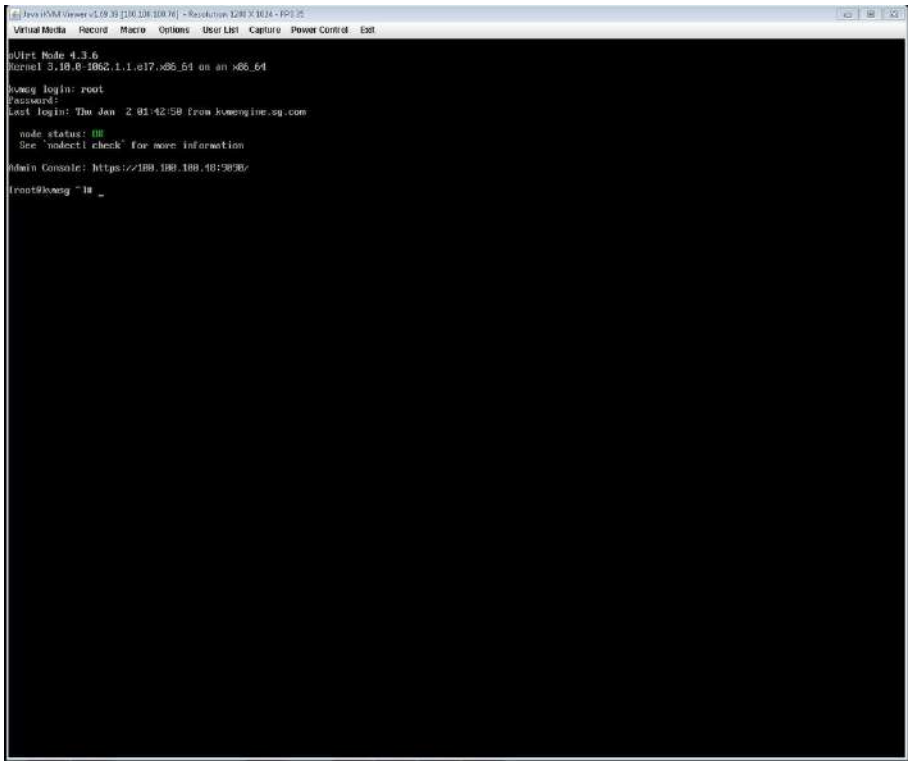
2.8 KVM Management Network Configuration

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

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

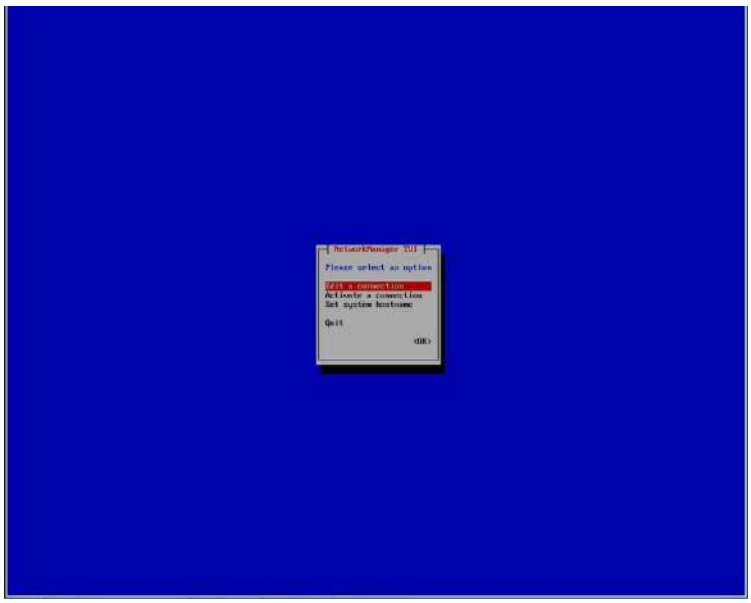
To access the settings, enter the following credentials:

Login: root
Password: Stonefly1!



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

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



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

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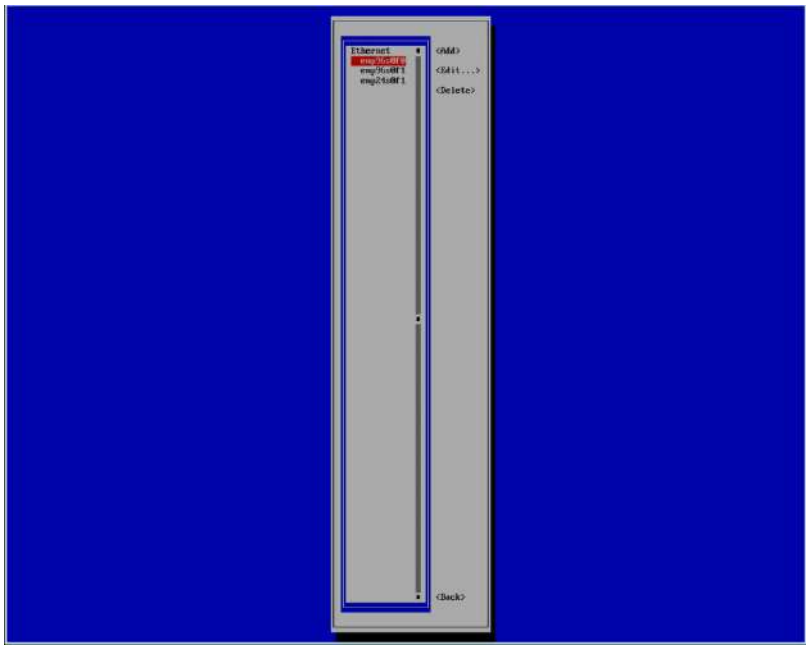
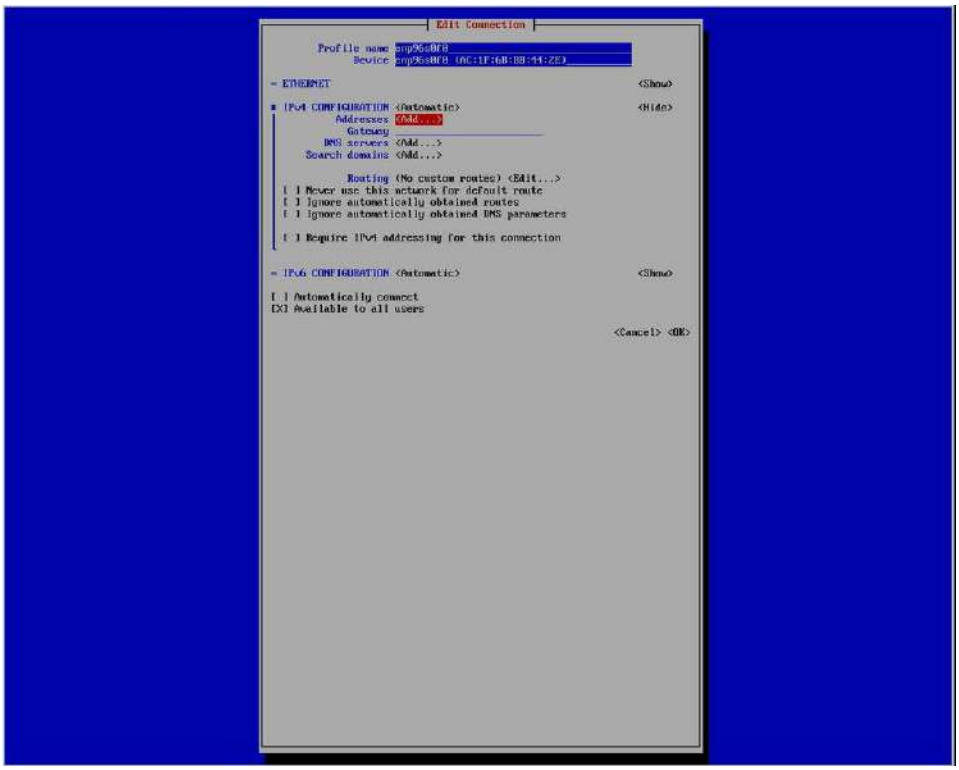


In the **Edit Connection** window, go to the **Addressess** option, select **Add** and press **Enter** to type in the pre-configured IP address.



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

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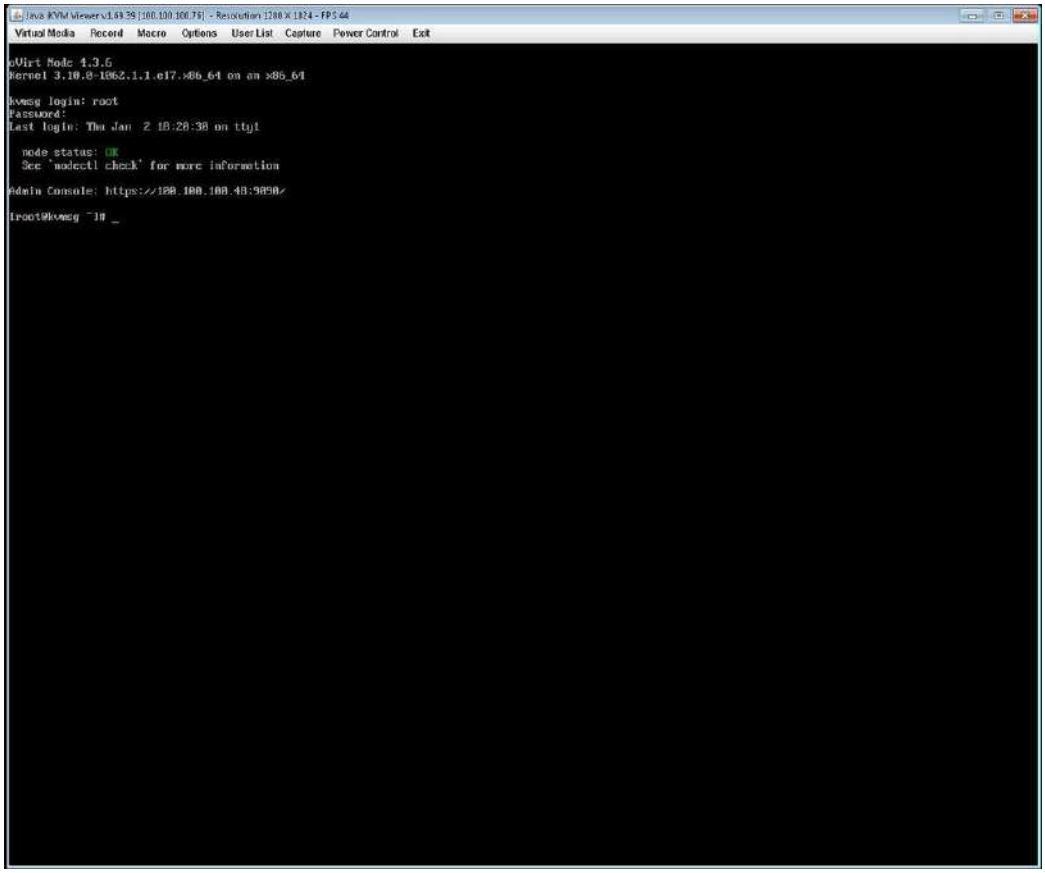
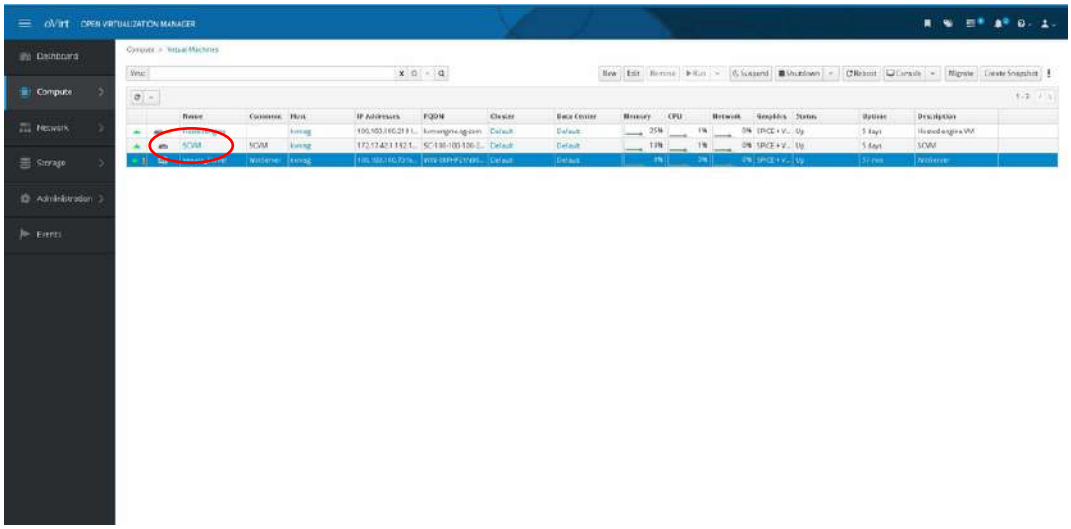
This will complete the KVM management network configuration.



2.9 Steps to Configure SCVM Management Port (KVM)

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



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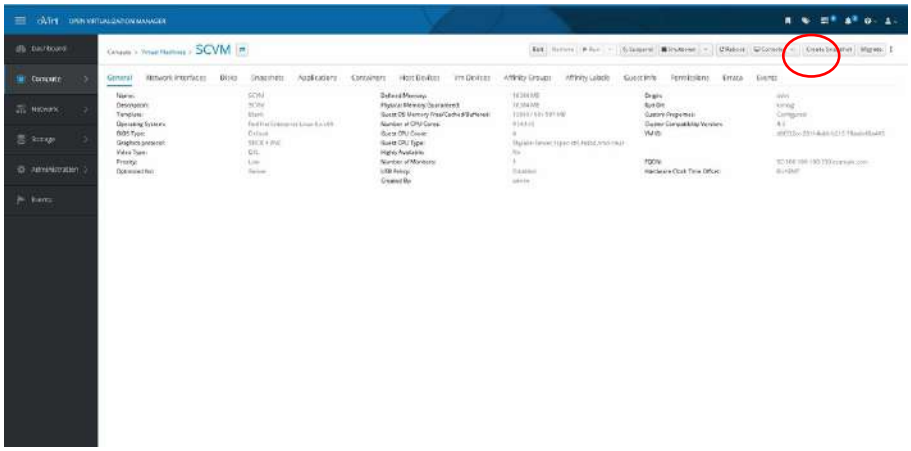
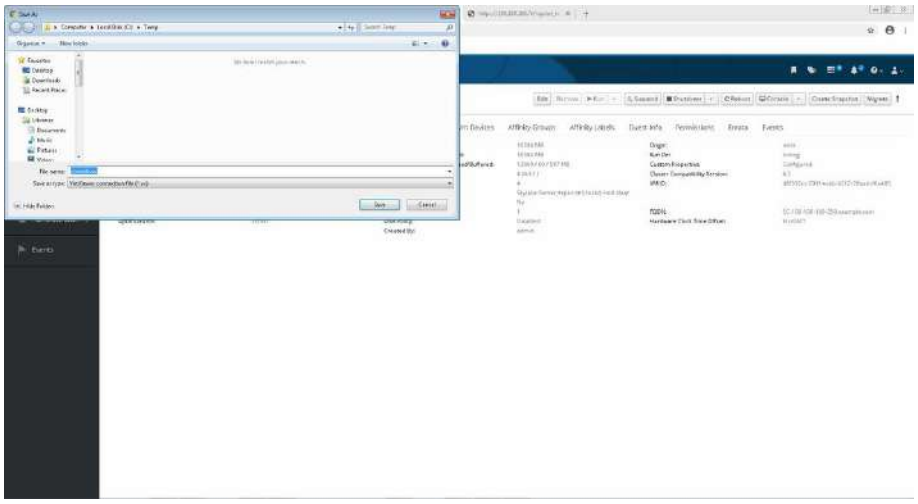
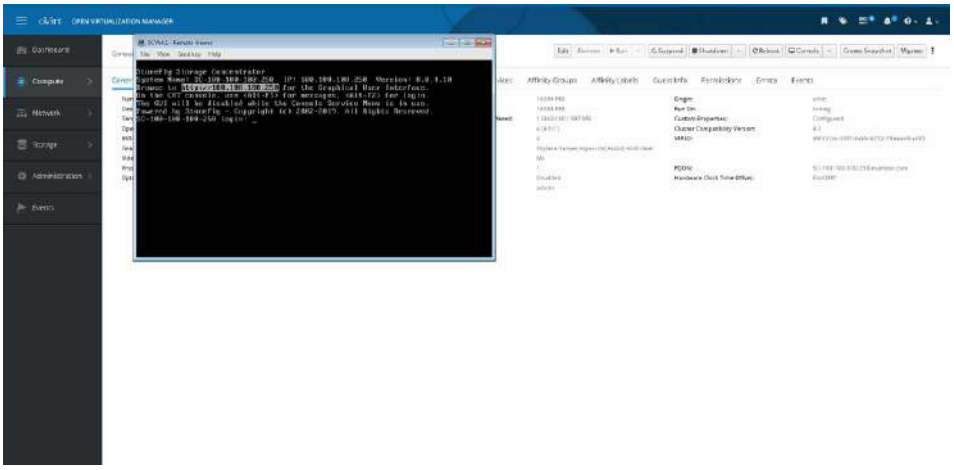


Click on the **Console** button in the top right corner; this will open a **Save As** window.



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

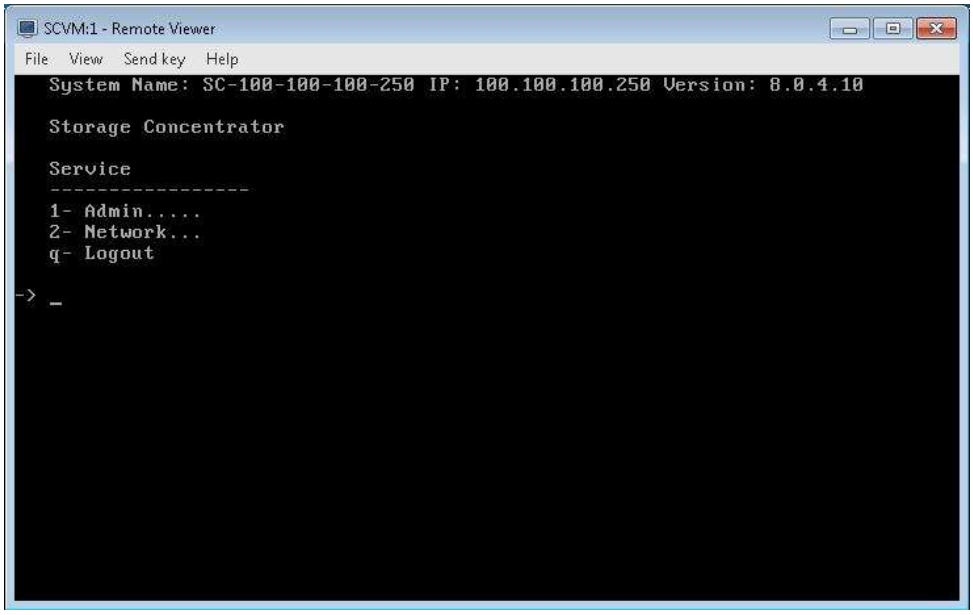


Login to the **SC Service** console:

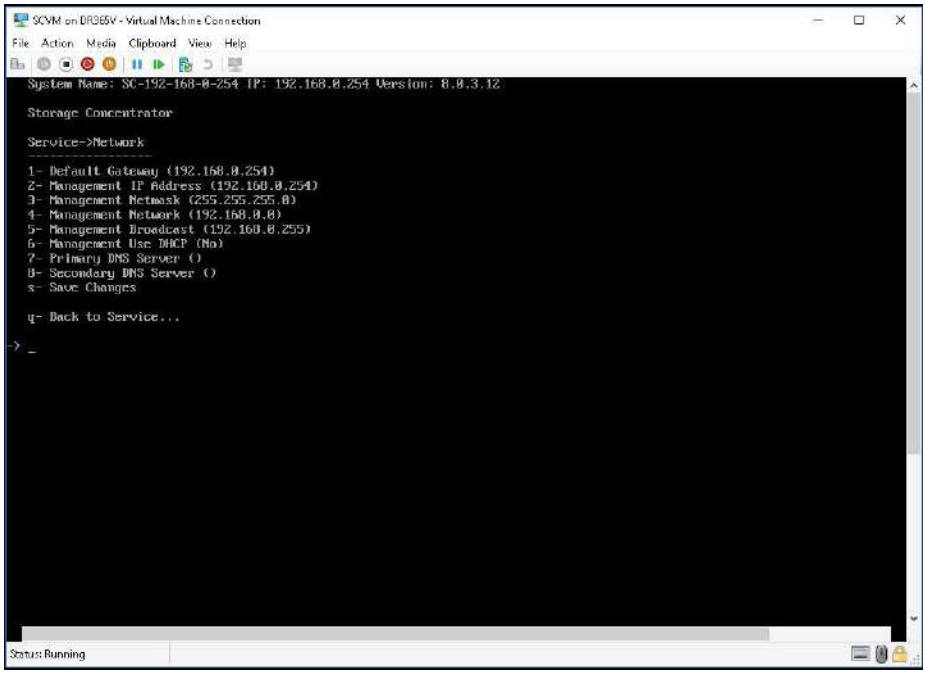
a. At the login prompt type **console** and hit **Enter**.

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

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



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



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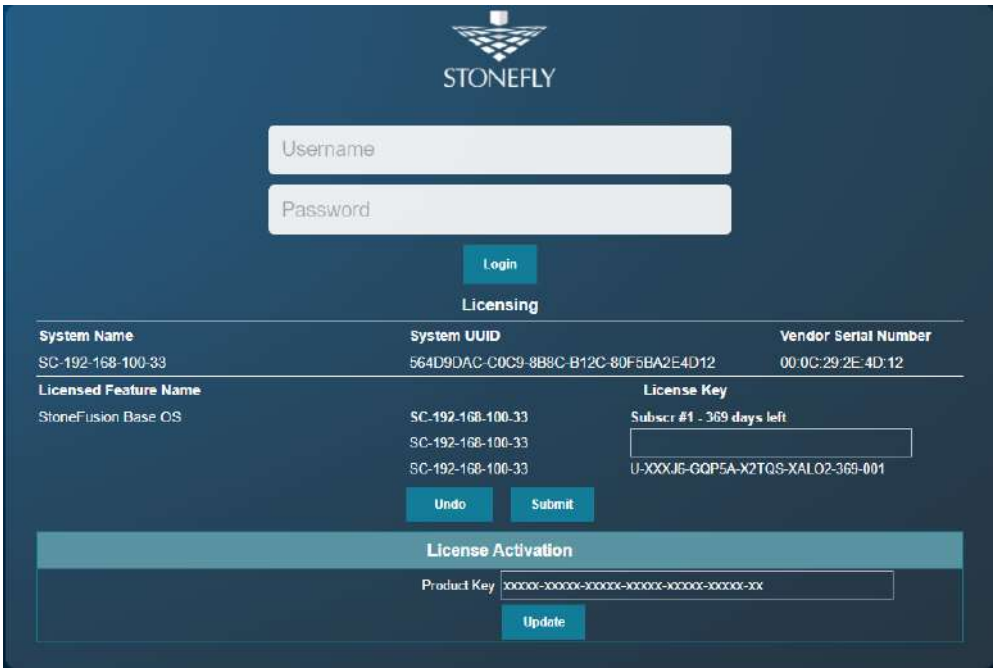
Adjusted settings are shown below. Enter **q** at the command prompt to exit back to the service menu. Enter **q** again to exit out of the user console service.

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.

2.10 Configuring the SCVM

Note: The process of SCVM configuration is the same for Hyper-V and VMware hypervisors.

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



USS 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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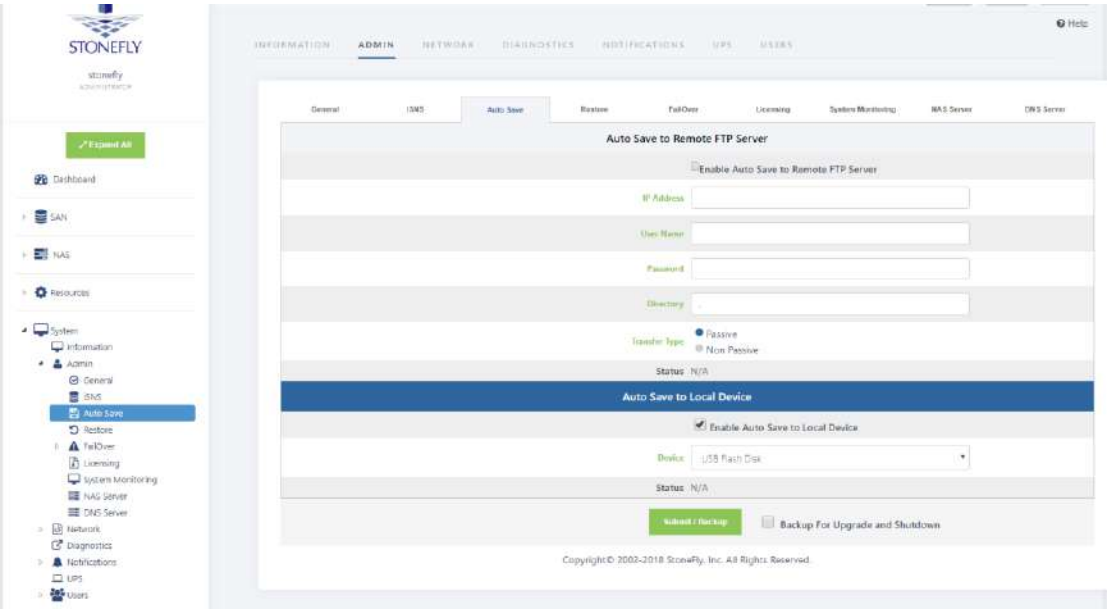
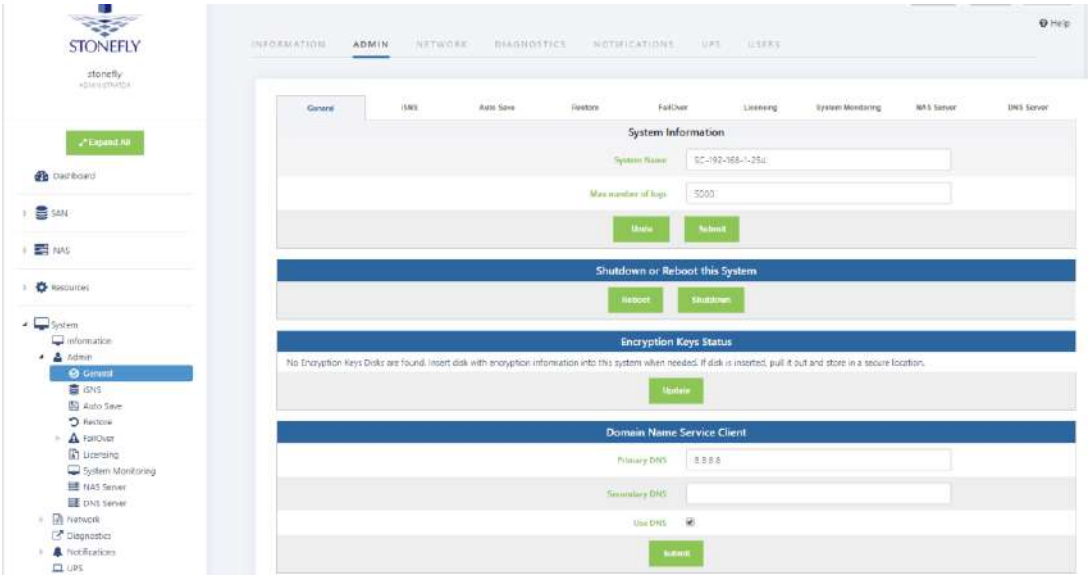


USS System Auto Save Screen

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.

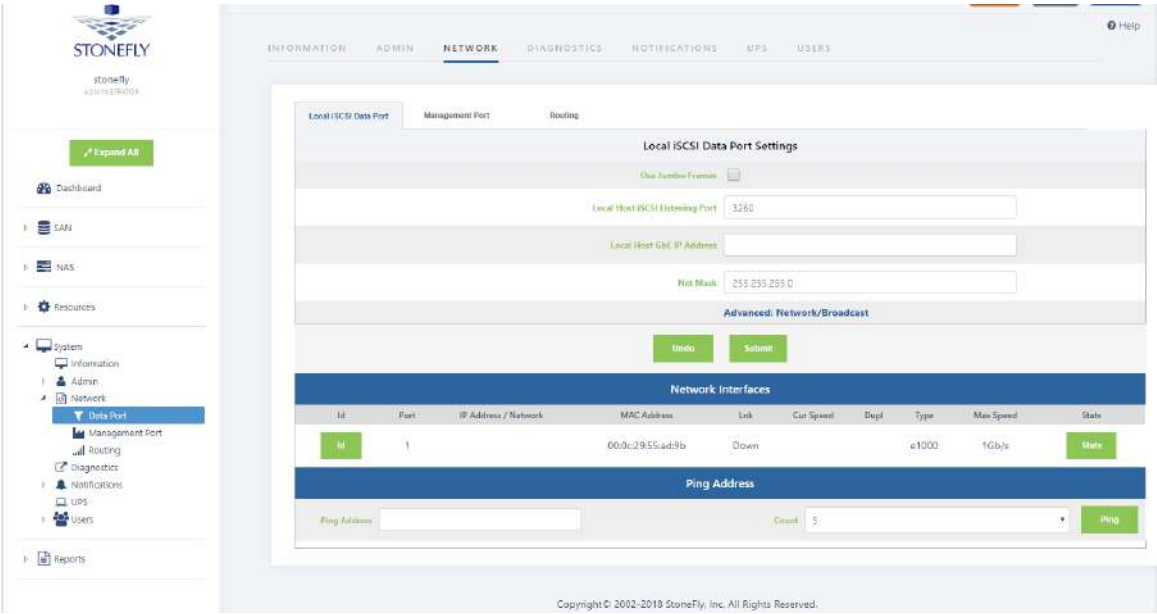


USS System Admin Screen

9. Enter a system name for the *USS*.
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.

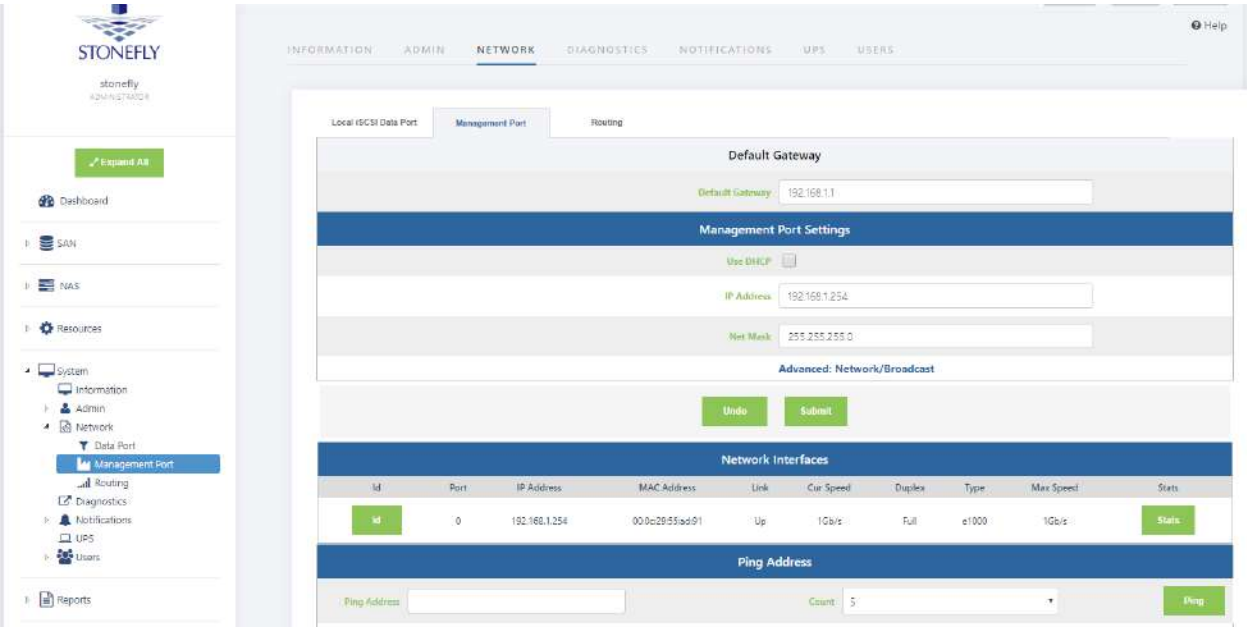


USS Local iSCSI Data Port Settings Screen

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 *USS* 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.



USS 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 *USS* 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 *USS*. To access the *USS*, set your browser's URL to point to the new IP address.

22. Click **Submit**. The following popups will appear.

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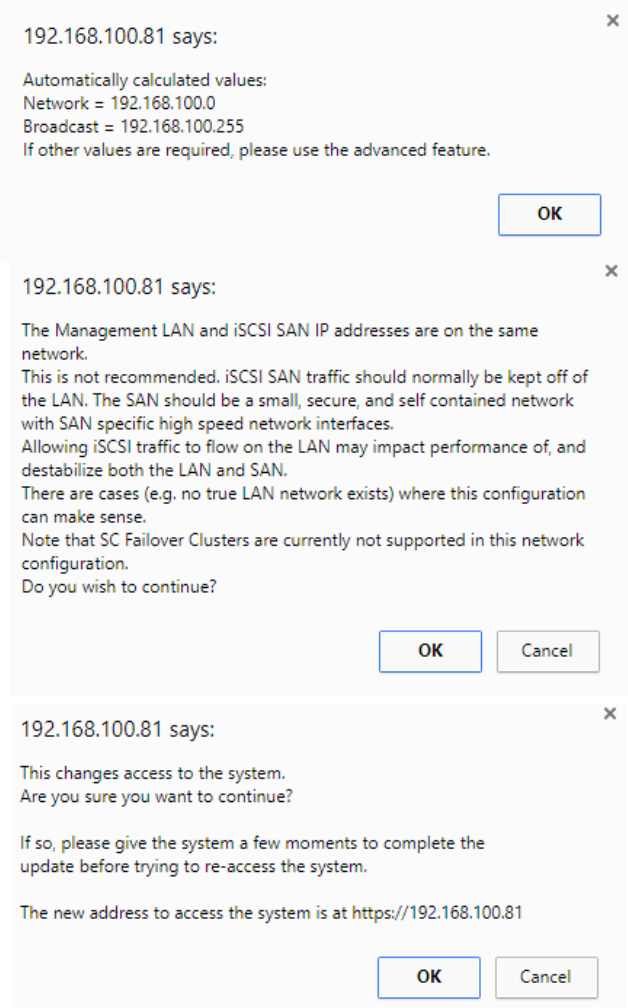
Depending on the speed of your browser connection, you may not see this screen. Your changes will still take effect, however you will need to manually set your browser's URL to point to the new IP address.



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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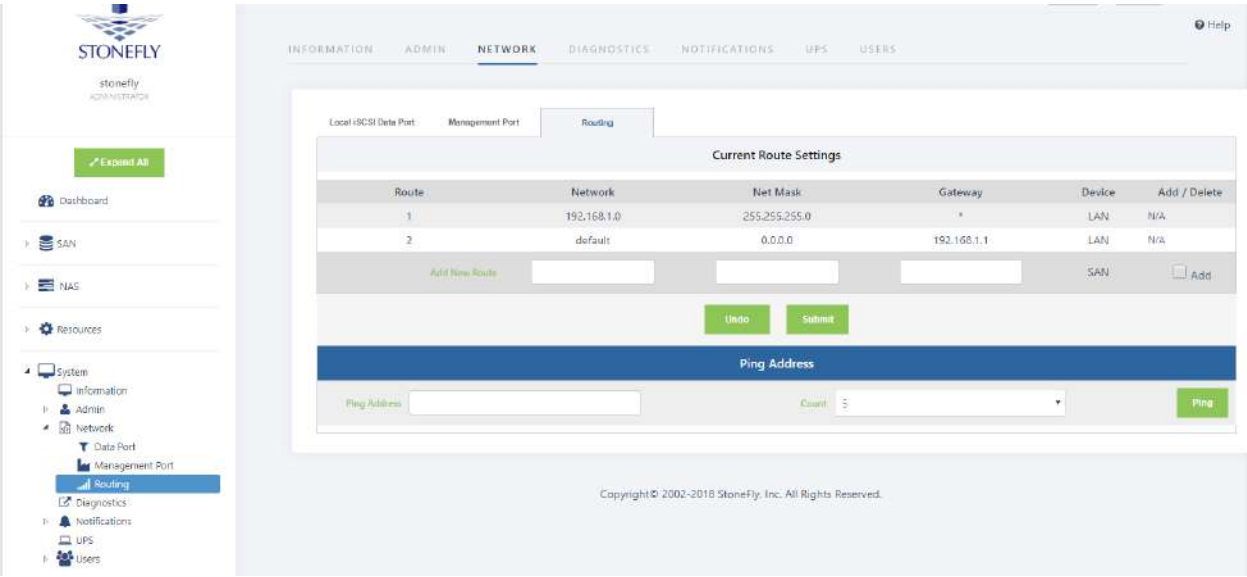
Setting up Routing

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 *USS* 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.



USS 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 *USS* must be rebooted for the new routing settings to be recognized.
6. Click **Reboot**.

Confirming Setup

To confirm that the *USS* 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 *USS* 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 *USS* 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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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 USS 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 USS.
	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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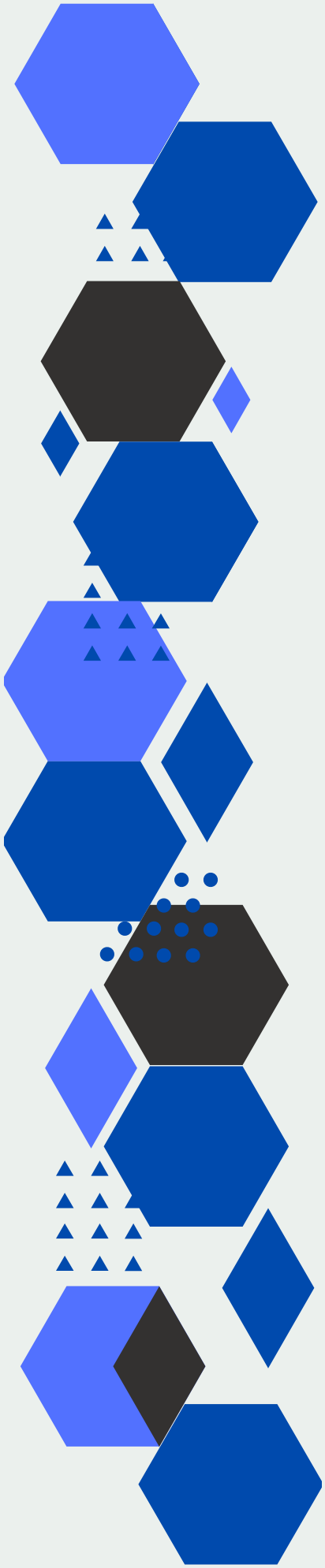

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