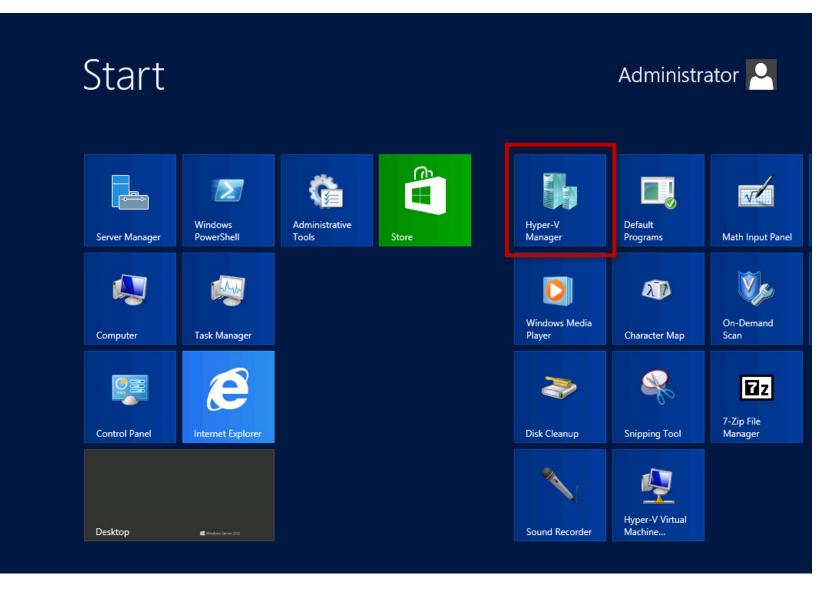
Installation Of ESRS 3.X Virtual Edition On Hyper-V

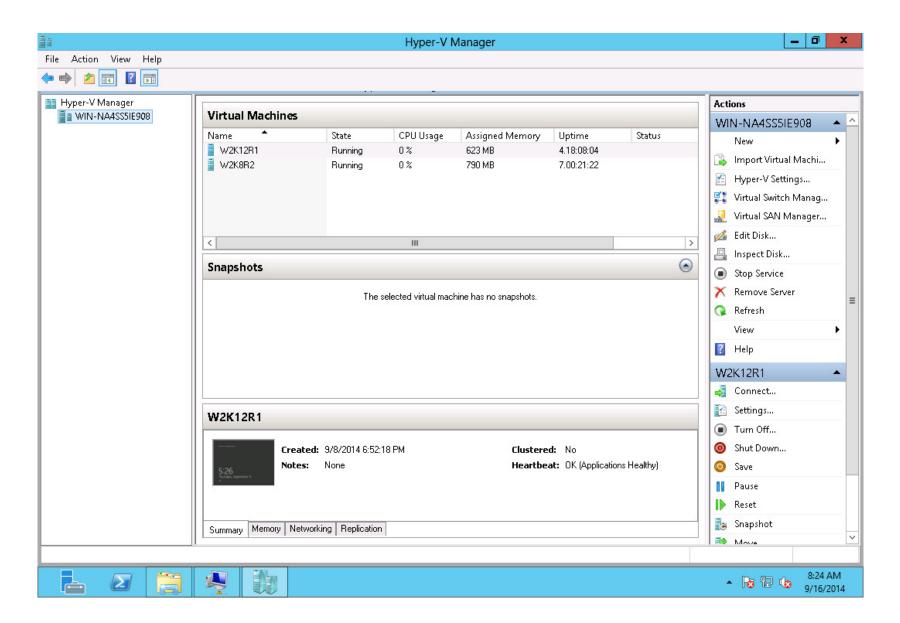
This procedure will explain the process of installing an EMC ESRS 3.X Virtual Edition (ESRSVE) using Hyper-V. The Hyper-V server should already be installed and the required ports opened in the customer firewall to emc.com. The ESRS_VE vhd.zip file should have already been copied to the Hyper-V server . In addition, the file should be unzipped using 7-Zip and the ESRS_VE*.vhd file contained in the zip file should be available. This example uses Hyper-V v running on a Windows 2012 server.

This procedure is not supported by EMC Global Services Customer Service. Any comments, feedback or suggestions for improvement should be forwarded to:

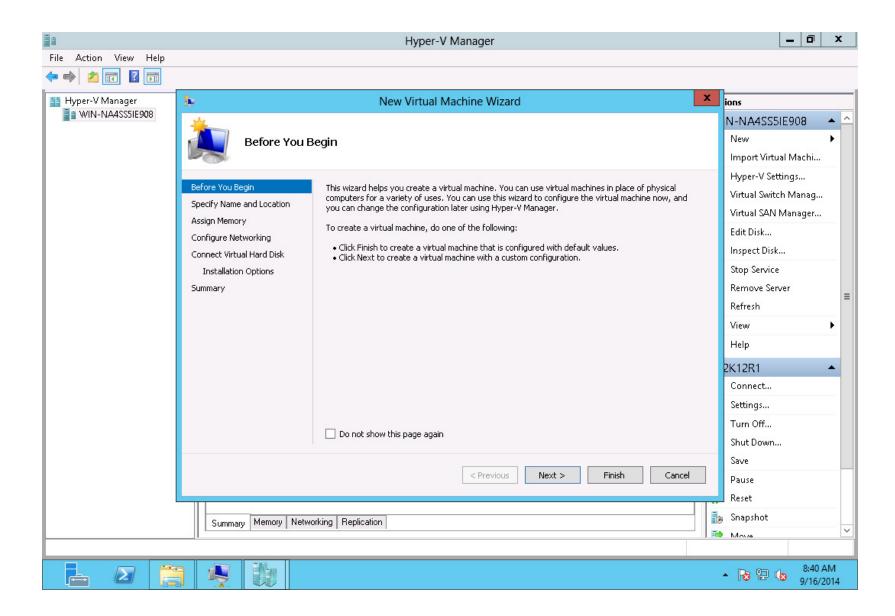
James A. Williams Field Support Specialist James.williams@emc.com 678-209-9442



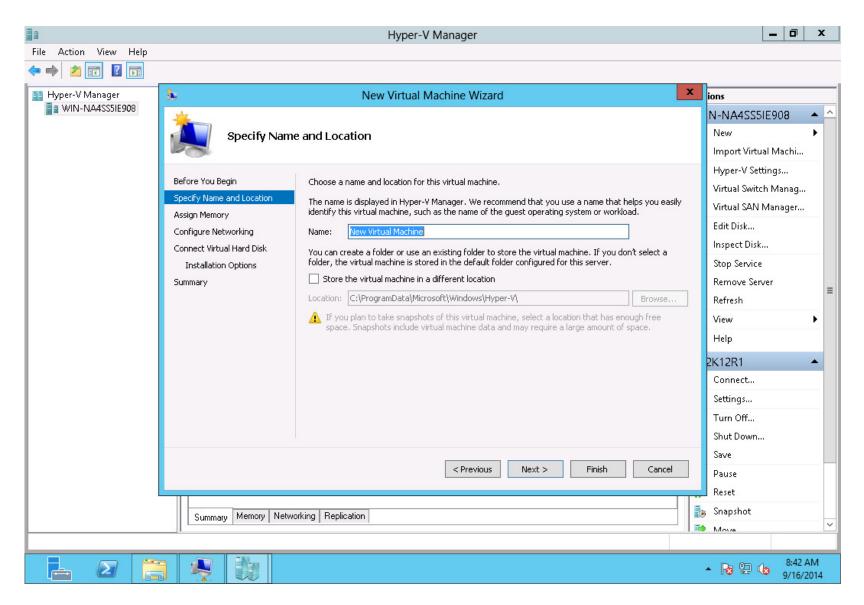
Launch Hyper-V Manager.



Click Action in the menu and then highlight New and click Virtual Machine or right-click the Windows server in the left pane and highlight New and click Virtual Machine.



Click Next.



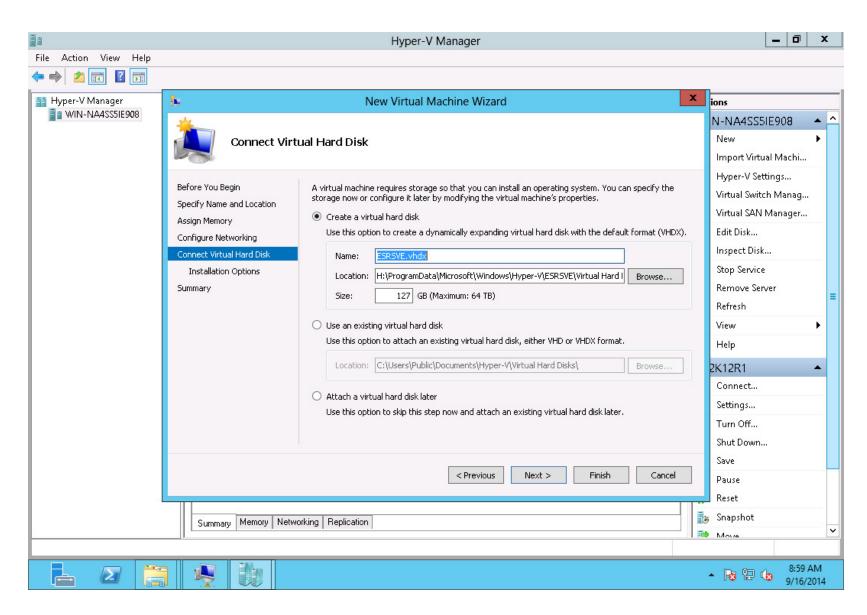
Type the name of the virtual machine. We will use ESRSVE in this example. To store the virtual machine in the default location, click Next. We will store the Virtual Machine on the H drive in this example. Check the box for Store the virtual machine in a different location and change the C drive in the Location field to H. Click Next.

	Hyper-V Manager	_ 0 ×
File Action View Help		
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📑 Hyper-V Manager	🗽 New Virtual Machine Wizard	ions
WIN-NA4SS5IE908	Assign Memory	N-NA4SS5IE908 New Import Virtual Machi
	Before You Begin Specify the amount of memory to allocate to this virtual machine. You can specify an amount from 8 MB through 2364 MB. To improve performance, specify more than the minimum amount recommended for the operating system. Assign Memory Startup memory: Configure Networking Installation Options Summary When you decide how much memory to assign to a virtual machine, consider how you intend to use the virtual machine and the operating system that it will run.	Hyper-V Settings Virtual Switch Manag Virtual SAN Manager Edit Disk Inspect Disk Stop Service Remove Server Refresh View Help 2K12R1 Connect Settings Turn Off Shut Down
	< Previous Next > Finish Cancel	Save Pause Reset
	Summary Henory Revenues Represent	Move 🗸
Turns off the selected virtual ma		
		▲ 😼 🖓 🎝 8:55 AM 9/16/2014

Enter the correct information for Startup memory and check Use Dynamic Memory for this virtual machine if that is what you want to do. Click Next.

Hyper-V Manager - 0 X File Action View Help ? 🖬 х 📑 Hyper-V Manager New Virtual Machine Wizard ions î۵ WIN-NA4SS5IE908 N-NA4SS5IE908 ~ . Configure Networking New • Import Virtual Machi... Hyper-V Settings... Before You Begin Each new virtual machine includes a network adapter. You can configure the network adapter to use a Virtual Switch Manag... virtual switch, or it can remain disconnected. Specify Name and Location Virtual SAN Manager... Connection: Not Connected ~ Assign Memory Edit Disk... Configure Networking Inspect Disk... Connect Virtual Hard Disk Stop Service Installation Options Summary Remove Server ≡ Refresh View ۲ Help 2K12R1 * Connect... Settings... Turn Off... Shut Down... Save < Previous Next > Finish Cancel Pause Reset 3 Snapshot Summary Memory Networking Replication V in Mous Ŀ 8:57 AM \geq - 😼 🔁 😡 9/16/2014

In the Connection field, select the network adapter in the pull down menu. Click Next.



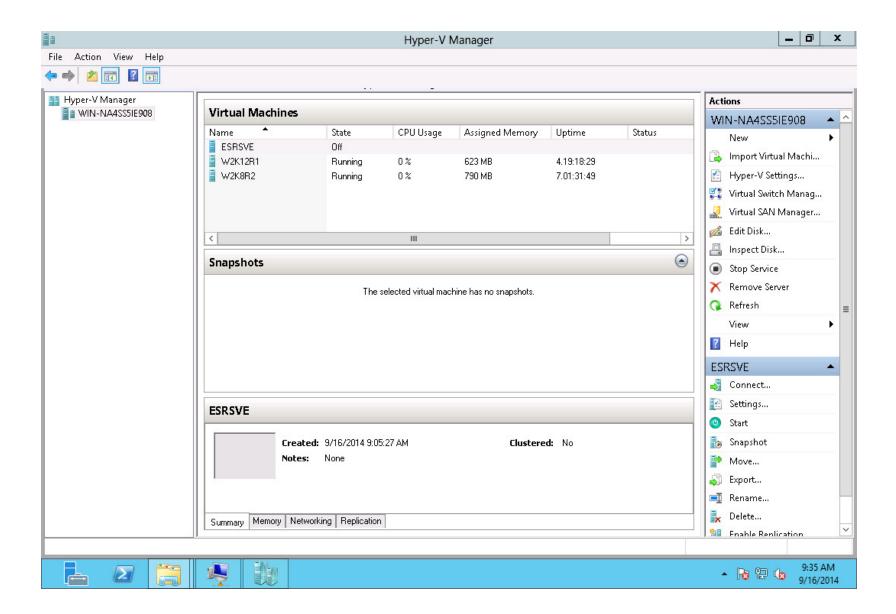
Check the second button for Use an existing virtual hard disk since we have a vhd file for installing the virtual machine. Click Browse and browse to the location of the vhd file, in this example C:\ESRSVE. Highlight the vhd file and click Open.

	Hyper-V Manager	_ 0 ×
File Action View Help 		
🔡 Hyper-V Manager	New Virtual Machine Wizard	ions
B WIN-NA4SS5IE908	Connect Virtual Hard Disk	N-NA4SS5IE908 New Import Virtual Machi
	Before You Begin A virtual machine requires storage so that you can install an operating system. You can specify the storage now or configure it later by modifying the virtual machine's properties. Specify Name and Location O Create a virtual hard disk	Hyper-V Settings Virtual Switch Manag Virtual SAN Manager
	Configure Networking Use this option to create a dynamically expanding virtual hard disk with the default format (VHDX). Connect Virtual Hard Disk Name: ESRSVE.vhdx ESRSVE.vhdx	Edit Disk Inspect Disk Stop Service
	Size: 127 GB (Maximum: 64 TB)	Remove Server Refresh
	 Use an existing virtual hard disk Use this option to attach an existing virtual hard disk, either VHD or VHDX format. 	View Help
	Location: C:\ESRSVE\ESRS_VE.x86_64-1.1.14.vhd Browse	2K12R1 🔺
	Attach a virtual hard disk later	Connect Settings
	Use this option to skip this step now and attach an existing virtual hard disk later.	Turn Off
		Shut Down Save
	< Previous Next > Finish Cancel	Pause
	Summary Memory Networking Replication	
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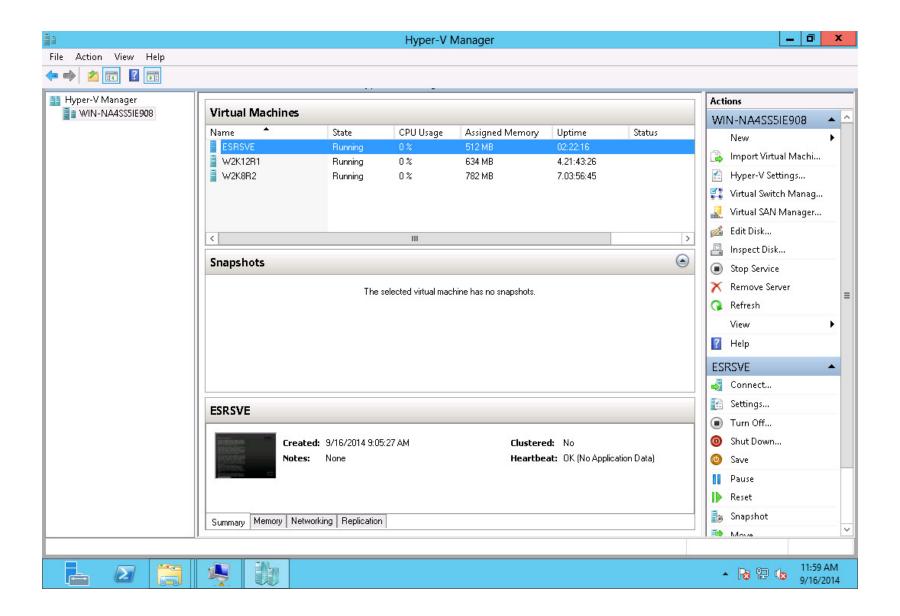
The correct location for the vhd file will be displayed in the Location field. Click Next.

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File Action View Help			
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🔡 Hyper-V Manager	3	New Virtual Machine Wizard	K ions
WIN-NA4SS5IE908	*		N-NA4SS5IE908 🔷 🛆
	Completing	the New Virtual Machine Wizard	New 🕨
			Import Virtual Machi
	Before You Begin	under an and the state the state of the stat	Hyper-V Settings
	Specify Name and Location	You have successfully completed the New Virtual Machine Wizard. You are about to create the following virtual machine.	Virtual Switch Manag
	Assign Memory	Description:	Virtual SAN Manager
	Configure Networking	Name: ESRSVE	Edit Disk
	Connect Virtual Hard Disk	Memory: 1024 MB Network: Broadcom BCM5708C NetXtreme II GigE (NDIS VBD Client) #43 - Virtual Switch	Inspect Disk
	Summary	Hard Disk: C:\ESRSVE\ESRS_VE.x86_64-1.1.14.vhd (VHD, dynamically expanding)	Stop Service
			Remove Server
			Refresh
			View 🕨
			Help
		To create the virtual machine and close the wizard, click Finish.	2K12R1
		······	Connect
			Settings
			Turn Off
			Shut Down
			Save
		< Previous Next > Finish Cancel	Pause
			Reset
	Summary Memory Netw	orking Replication	🌆 Snapshot
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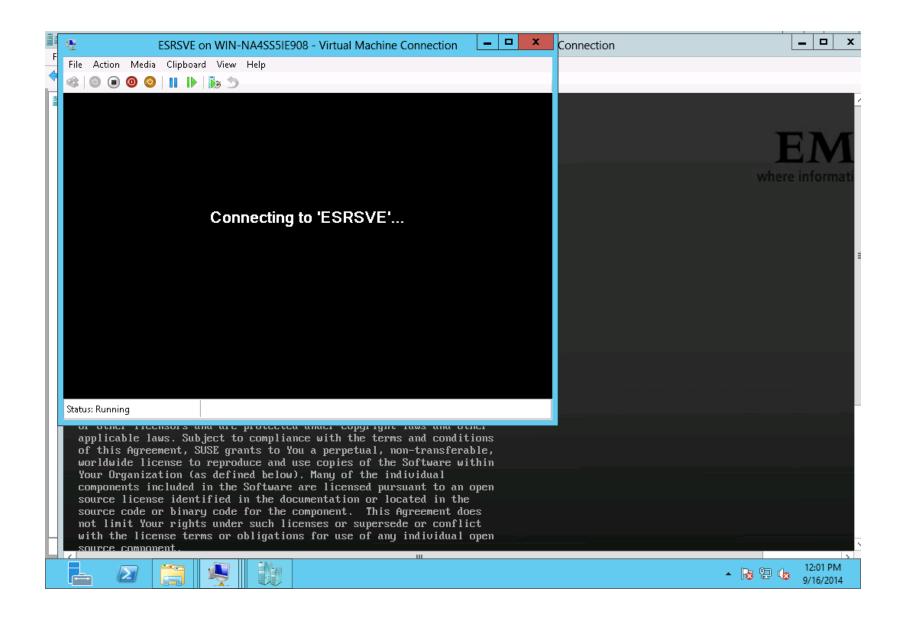
All the information has been entered to create the virtual machine. Click Finish.



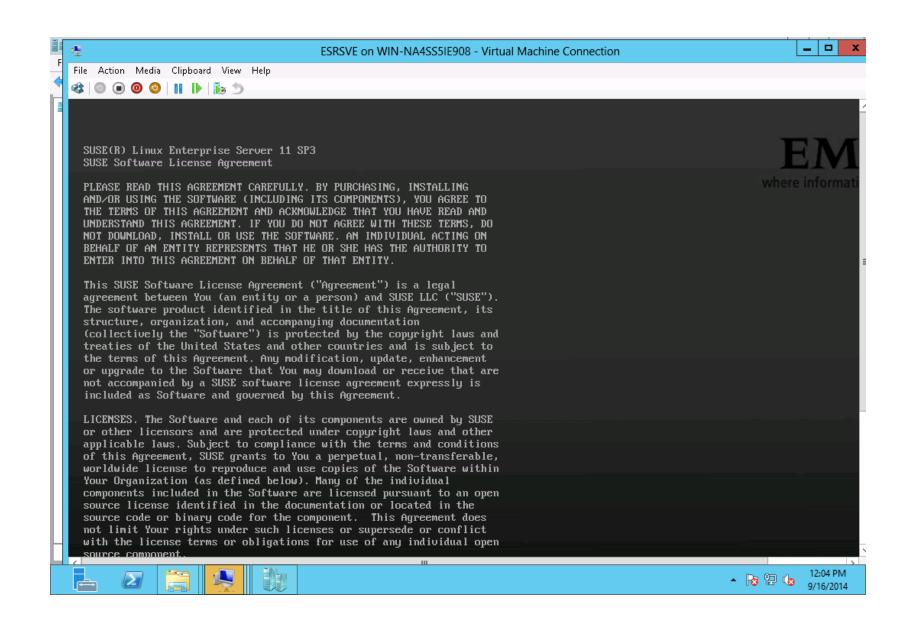
Highlight the ESRSVE virtual machine in the Virtual Machines section in the upper window and click Start under ESRSVE in the right pane.



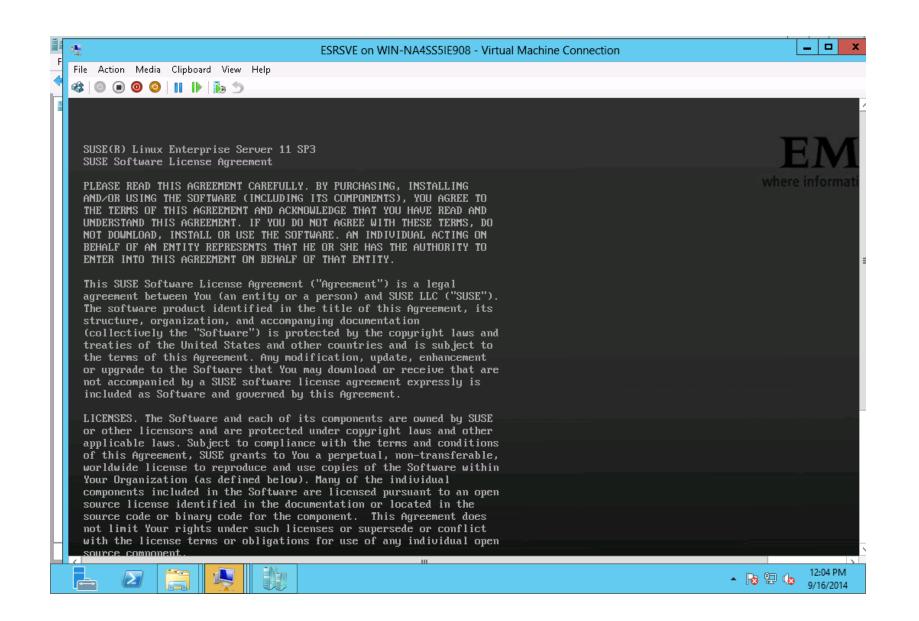
The state of the virtual machine in the upper window will change to Running. In the lower window you will see a thumbnail for the running virtual machine. Click Connect in the right pane under ESRSVE.



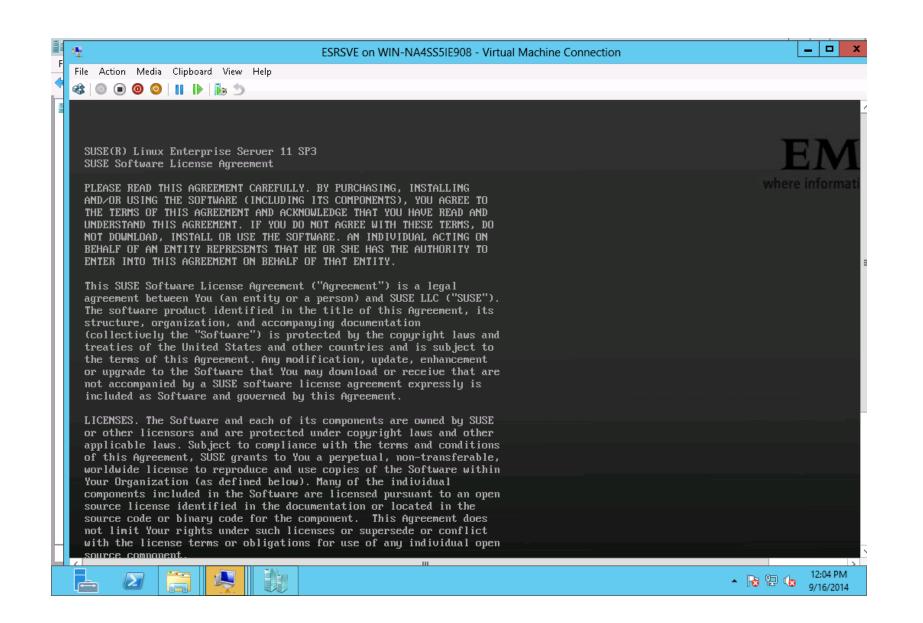
A message will appear indicating you are connecting to the virtual machine.



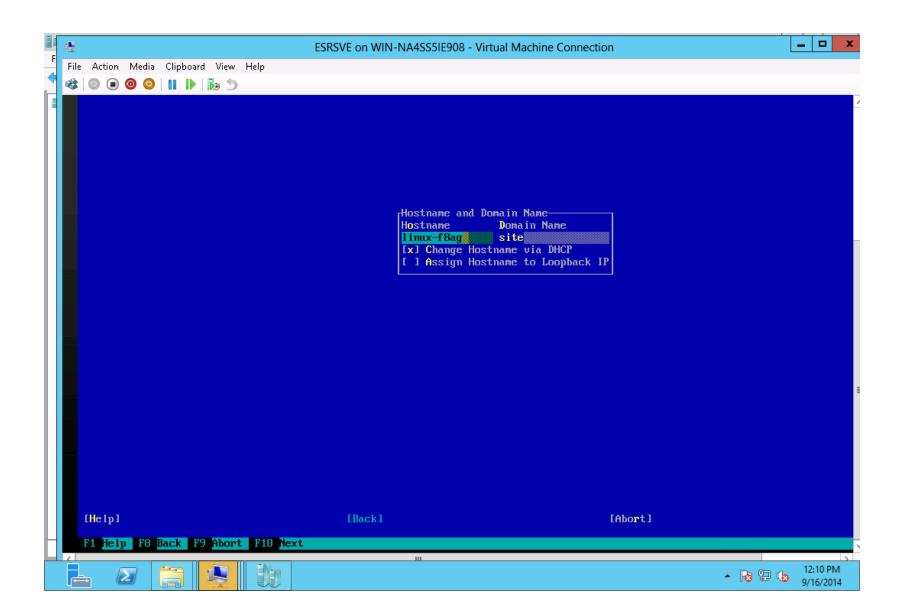
The license agreement will be displayed. Scroll down the screen and press space to see the next screen.



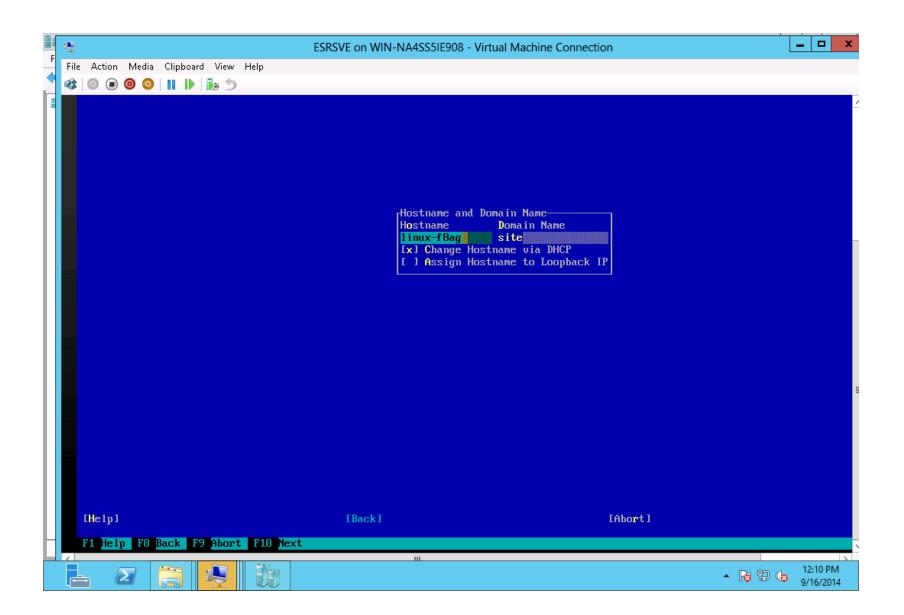
Press the space bar to read the next screen. After you are finished reading the license agreement, at the colon prompt, enter q.



At the prompt Do you accept the EULA, type y and press Enter.



The VM will continue to boot and will start the YaST2 utility to configure the network.



On the Hostname and Domain Name screen, enter the host name and tab to the Domain Name field and enter the domain name. Press tab and press the spacebar to unselect Change Hostname via DHCP. To continue press F10.

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File Action Media Clipboard View Help		
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YaST2 - firstboot @ linux		
Network Configuration II		
() Skip Configuration (x) Use Following Configuration		
Network Interfaces		
* Virtual Ethernet Card 0		
Not configured yet.		
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Status: Running		<u>ه</u> الا 🔤
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Tab to Change and press Enter or do an Alt+c.

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			Clipboard		Help								
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	[Help]					[Back]		Network Interfaces Reset to defaults	Abort]				
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Select Network Interfaces and press Enter.

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	Virtual Ethernet Card 0 (Not conne MAC : 00:15:5d:29:7b:02 BusID : umbus_0_12 Device Name: eth0 The device is not configured. Pres				≡
	[Add][Edit][Delete]				
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F1	Help F3 Add F4 Edit F5 Delete				~
< Status	Running				>
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YaST2 - firstboot @ linux		
Network Card Setup		
General Address Hardware Device Type	Configuration Name	
Ethernet	↓ eth0	
() No Link and IP Setup (Bonding S () Dynamic Address	laves) [] Use iBFT values	
DHCP	DHCP both version 4 and 6	=
(x) Statically assigned IP Address IP Address	Subnet Mask Hostname	
Ir Haaress	255.255.0 esrsve	
Additional Addresses		
Alias Name IP Address Netmask		
		-
		_
		→ →
Status: Running		<u>ا</u> 8 🖻
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Tab to the IP Address field and enter the IP address. Tab to the Subnet Mask field and enter the subnet mask. Tab to the Hostname field and enter the host name. Tab to Next and press Enter or do an Alt+n.

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Ya	aST2 - firstboot @ linux		
	Network Settings _Overview—Hostname/DNS—Routing—		
	Name Virtual Ethernet Card 0 10.5.41.1	s Device Note 26 eth0	
			=
< Status:	: Running	ш	×
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Tab to Overview in the menu at top and press the right arrow key or do an Alt+s (for the Hostname/DNS selection.

tion Media Clipboard View Help		ESRSVE on WIN-NA4SS5IE908 - V	rtual Machine Connection	- 0
IZ - firstboot 9 linux twork Settings verview-Hostnane Hostnane Bonain Nane enc.com I Assign Hostnane to Loopback IP odify DNS configuration Custom Policy Rule se Default Policy se Default Policy Mane Server 3	Action Media			
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Hostnane and Donain Nane Hostnane Server Donain Nane Server 1 Nane Server 2 Nane Server 3	letwork Sett	ings		
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esrsue enc.com	Hostname a	חם בסוומווו המווכ	Domain Name	
I Assign Hostname to Loopback IP odify DNS configuration Custom Policy Rule se Default Policy se Default Policy Name Server 1 Name Server 2 Name Server 3 Name Server 4 Name Server 5 Name Server 7 Name Server 7 Name Server 8 Name Server 9 Name Server 9 <td>esrsve</td> <td></td> <td></td> <td></td>	esrsve			
Donain Search List- Name Server 2 Name Server 3 Name Server 3 Mane Server 3	[] Change	Hostname via DHCPNo interface with dhcp		
Nane Server 1 Nane Server 2 Name Server 3 Inning	L J Assign	Hostname to Loopback IP		
Nane Server 1 Nane Server 2 Name Server 3 Inning	Modify DNS	configuration Custom Policy Rule		
Nane Server 1 Nane Server 2 Name Server 3 Inning	Use Default	Policy +		
Name Server 3	Name Serve	rs and Domain Search List		
Nane Server 3	Name Serve			
Name Server 3				
Inning				
	Name Serve	r 3		
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	Ranning			
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Tab to the Name Server 1 field and enter the DNS server name. If there are additional DNS servers, enter that information. Do an Alt+u to go to Routing.

1 <u>2</u>	ESRSVE on WIN-NA4SS5IE908 - Virtual Machine Connection	_ 0 X
File Action Media Clipboard View Help		
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YaST2 - firstboot @ linux		
Network Settings		
Overview-Hostname/DNS-Routing-		
Default Gateway		
_[Routing Table		
Destination Gateway Netma	sk Device Outions	
<	[Add][Edit][Delete]	▼ →
Status: Running		
		▲ 12:42 PM

Enter the default network gateway in the Default Gateway field. Press F10 or do an Alt+o.

ESRSVE on WIN-NA4SS5IE908 - Virtual Mach	ine Connection
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	<u>^</u>
YaST2 - firstboot @ linux	
Network Configuration II	
() Skip Configuration (x) Use Following Configuration	
Network Interfaces	=
* Virtual Ethernet Card 0	
Configured with address 10.5.41.126	
III	▼ >
Status: Running	🔤 🗏 🔒
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Tab to Next and press Enter or do an Alt+n. The network changes will be saved to the configuration.

File View VM	10 10 0 10		
E YaST2 - firstboot 0	Linux		EMC ²
Clock and Time Zone Region Africa Argentina Asia Atlantic Australia Brazil Canada Central and South Etc Europe Global Indian Ocean Mexico Pacific Russia USA	n America	Time Zone Alaska (Anchorage) Aleutian (Adak) Arizona (Phoenix) Boise Central (Chicago) East Indiana (Indianapolis) Eastern (New York) Hawaii (Honolulu) Indiana (Marengo) Indiana (Petersburg) Indiana (Tell City) Indiana (Vevay) Indiana (Vincennes) Indiana (Vincennes) Indiana Starke (Knox) Juneau Kentucky (Louisville) Kentucky (Monticello) Menominee Michigan (Detroit) Mountain (Denver)	Host
[] Hardware Cloc]	< Set To UTC	Date and Time 2014-07-01 - 15:16:36	Change]
[Help]	[Back]	[Abort]	[Next] TRL+ALT

Cursor up or down in the left pane and highlight your country under the Region. Tab to the Time Zone or do an Alt+z. Cursor up and down and select your time zone. In this example, we are choosing USA and Eastern (New York). Tab to Next and press Enter or do an Alt+n or press F10.

😤	ESRSVE on WIN-NA4SS5IE908 - V	irtual Machine Connection	_ 0 ×
File Action Media Clipboard View Help			
			<u>^</u>
	Do not forget what you ente	r here.	
	Password for root User		
	Confirm Password ******		
	Test Keyboard Layout		
	[Expert Options]		
			=
ra,	-11	[Abort]	[Next]
LBa F7 Expert Options F8 Back F9 Abo	ck]	LHDOPTJ	
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Status: Running			i 🖉 🗳 🔒
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Enter the password for the root user. Reenter the password to confirm the entry. Make a note of the password, it cannot be recovered easily. Tab to Next and press Enter or do an Alt+n or press F10.

9 <u>4</u>	ESRSVE on V	WIN-NA4SS5IE908 - Virtual Machine Connect	tion	- 0 ×
File Action Media Clipboard View				
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				<u>^</u>
	Do not fo	rget what you enter here.		
	The password is too it is based on a di	simple:		
		— —		
	You have used only	lowercase letters for the password.		
	Really use this pas	sword?		
		[Yes] [No]		
	LE	xpert Options]		
				=
	[Back]	[Abort]	[]	Next]
7 Expert Options F8 Bacl	k F9 Abort F10 Next			~
<		ш		>
Status: Running				<u>اا گ</u>
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If you receive a message that the password is too simple and you still want to use it, select Yes and press Enter. If you want to change it, select No and press Enter.

e <u>r</u>	ESRSVE on WIN-NA4SS5IE908 - Virtual Machine Connection	_ 0 ×
File Action Media Clipboard View Help		
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	Do not forget what you enter here.	
	Esrs Administrator User Name	
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F8 Back F9 Abort F10 Next	III.	✓
Status: Running	iii	ā 8 <mark>-</mark>
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For the ESRS Administrator user name, take the default of admin. Tab to Next and press Enter or do an Alt+n or press F10.

1 <u>0</u>		ESRSVE on WIN-NA4SS5IE908 - Virtual Machine Connection	- 0 ×
	Clipboard View Help		
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g system for fir	st login	50×	
	[Back]	[Abort]	[Next]
F8 <mark>Back F9 Abor</mark>	t F10 Next		v
< Status: Running		III	>
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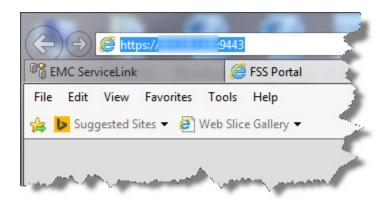
You will see the message Preparing the system for first login.

ESRSVE on WIN-NA4SS5IE908 - Virtual Machine Connection	_ 0 X
File Action Media Clipboard View Help	
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	<u>^</u>
INIT: Entering runlevel: 3	
Master Resource Control: previous runlevel: N, switching to runlevel:	
D-Bus already started. Not starting. Starting irgbalance	
HAL already started. Not starting.	
Re-Starting syslog services	
Starting Firewall Initialization (phase 1 of 2)	
Loading console font lat9w-16.psfu	
Loading keymap assuming iso-8859-15 euro Loading /usr/share/kbd/keymaps/i386/qwerty/us.map.gz	
Loading compose table winkeys shiftctrl latin1.add	
Stop Unicode mode	
Initializing random number generator	
Removing old kernel packages /sbin/purge-kernels: multiversion.kernels not configured in /etc/zypp/zypp.conf, exiting.	
sum parge servers materiorsion. Servers not contrigured in seces apply applicant, extering.	
Setting up (localfs) network interfaces:	
lo name: 0	
lo IP address: 127.0.0.1/8 IP address: 127.0.0.2/8	
eth0 name: Virtual Ethernet Card 0	
eth0 IP address: /24	=
Setting up service (localfs) network	
Starting privoxy: ESRS not provisioned Starting ESRS client: ESRS not provisioned	
Starting PostgreSQL 9.1.12	
Starting vFabric httpd httpd Server started OK	BUILT
Starting Esrs alarm Web Service:	
Starting Esrs auditlogging Web Service: Starting Esrs auth Web Service:	Suse
Starting Esrs configtool Web Service:	STU
Started the ConnectEMC service	
	×
	>>
Status: Running	i 🖾 🕮 🖴
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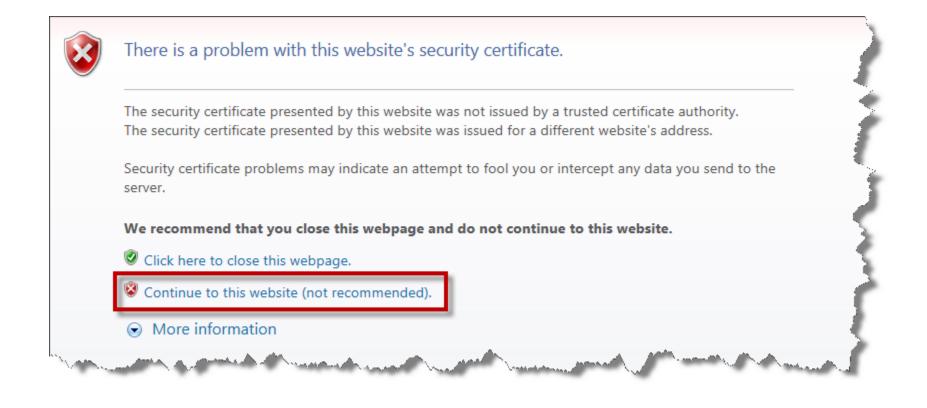
The system reboots.

ESRSVE on WIN-NA4SS5IE908 - Virtual Machine Connection	_ 0 ×
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Starting Postgresul 9.1.12	Â
Starting vFabric httpd httpd Server started OK	
Starting Esrs alarm Web Service:	
Starting Esrs auditlogging Web Service: Starting Esrs auth Web Service:	
Starting Esrs configtool Web Service:	
Started the ConnectEMC service	
Started the ConnectEMCVE service	
Starting Esrs connectivityreport Web Service:	
Starting Esrs dataitems Web Service:	
Starting Esrs devicemanagement Web Service: Starting Esrs deviceutility Web Service:	
Starting vFabric httpd httpdR ESRS not provisioned	
Starting vFabric httpd httpdftp Server started OK	
Starting vFabric httpd httpdlistener Server started OK	
Starting Esrs jcemc Web Service:	
Starting Esrs keepalive Web Service:	
Starting Esrs provisioning Web Service: Starting Esrs sysmon Web Service:	
Starting Esrs usermanagement Web Service:	
ESRS VE webui is running at https:// :9443	
Starting ESRS Watchdog: ESRS not provisioned	
Starting haveged daemon	
Starting mail service (Postfix) Starting CRON daemon	=
Starting SSH daemon	
Starting Firewall Initialization (phase 2 of 2)	
Master Resource Control: runlevel 3 has been	
Failed services in runlevel 3: esrsclient esrsclientproxy esrshttpdR esrswatchdog	
Skipped services in runlevel 3:	irq_balan
	SUCO
Welcome to SUSE Linux Enterprise Server 11 SP3 (x86_64) - Kernel 3.0.101-0.29-default (tty1).	oda i
	SIU
esrsve login:	~
< III	>
Status: Running	i 🕮 🚨
	12.57 DM
	 12:37 PM 9/16/2014

After the system reboots, you can close or minimize the console session. All the steps up to this point can be performed by the customer without assistance from EMC. Beginning with the next step, EMC must be involved.



- Launch a browser and browse to the IP address of the ESRSVE VM, port 9443.
- https://<IP address of VM>:9443



• If you receive a warning about the security certificate, click Continue to this website.

🖕 Contact 💦 🐣 Login



The main page of the ESRSVE virtual machine will be displayed. Click login in the upper right corner.

EMC² ESRS Virtual Edition

	efault user name is root , bot password that was set
during firs	st boot.
User Name:	
root	
Password:	

Login

First Time Login:

The first time you log on to the ESRS VE using the root account, accept the end-user license agreement by clicking Accept EULA, and then set the Admin account password.

Note:

For security reasons, the Admin user name and password for the VE WebUI interface is distinct from those used for the command-line interface and are managed separately. The first time you log on to the user interface, the system prompts you to set the Admin password.

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Log in as root and use the root password that was created earlier. Click Login.

EMC² ESRS Virtual Edition

EMC Secure Remote Support (ESRS) Software License Agreement	page to get the Submit enabled. Continue by selecting the Accept or Do
IMPORTANT - PLEASE READ CAREFULLY	not Accept option. Note that if you do not accept the license agreement,
This EMC Secure Remote Support (ESRS) Software contains computer programs and other proprietary material and information, the use of which is subject to and expressly conditioned upon acceptance of this EMC Secure Remote Support (ESRS) Software License Agreement. This EMC Secure Remote Support (ESRS) Software License Agreement (the "Agreement") is a legal agreement between EMC Corporation, with a principal office at 176 South Street, Hopkinton, MA 01748 USA ("EMC"), and you and the organization on whose behalf you are accessing this Agreement and Software (the "Licensee"), and governs Licensee's access to, downloading of, and use of any and all components, associated media, printed materials, documentation, and programming accessed via the EMC software made available by EMC (at EMC") and downloading of the software incomponent the uncented uncertained and available by EMC (at EMC") and downloading of the software incomponent the uncented uncertained and available by EMC (at EMC") and downloading of the software made available by EMC (at EMC") and downloading of the software incomponent the uncented uncertained and the software made available by EMC (at EMC") and downloading of the software made available by EMC (at EMC") and downloading of the software made available by EMC (at EMC") and downloading of the software made available by EMC (at EMC") and downloading of the software made available by EMC (at EMC") and downloading of the software made available by EMC (at EMC") and downloading of the software made available by EMC (at EMC") and downloading of the software made available by EMC (at EMC") and downloading of the software made available by EMC (at EMC") and downloading of the software made available by EMC (at EMC") and downloading of the software made available by EMC (at EMC") and downloading of the software made available by EMC (at EMC") and downloading of the software made available by EMC (at EMC") and downloading of the software made available by EMC (at EMC") and the software made available by EM	then you will not be able to complete the initial setup.
Accept Do not Accept Submit	

The end user license agreement will be displayed. Scroll to the bottom of the screen, click the Accept radio button and click Submit.

EMC² ESRS Virtual Edition

For security purposes, the admin user name and password for the ESRS VE WebUI interface is distinct from the root credentials and should be managed separately. Set Password For Admin User Password Specification: Use Long Complex Passwords 1. Be 8 or more characters in length, with a maximum of 16 characters. User Name: 2. Contain at least one numeric character.	
Password Specification: Use Long Complex Passwords 1. Be 8 or more characters in length, with a maximum of 16 characters. 2. Contain at least one numeric character.	
Bit Complexit additional maximum of 16 characters. 2. Contain at least one numeric character.	
admin lowercase character. 4. Contain at least one special character such as ` ~!@#\$%^&*()- =+[]{};<>	
New Password: 5. Do NOT use Special characters / ? : , . \' and " as part of the password.	
as part of the password. 6. Use a password that does not match the previous password.	
Confirm Password:	

Create a password for the admin user. Observe the password specifications listed on the screen to the right. Reenter the password to confirm. Click Log on as admin.

🐣 root 🖉

(1) Registration			3 Configuration
PrimaryContact T PRIMARY CONTACT	Fechnical Contact	p	
First Name:*	James Williams	Title: Field support St × Company:* EMC	Primary Contact The information provided in this section will be used as customer contact by
Email:*	james.williams@emc.com	EMC Contact:	EMC for the ESRS VE. • User can contact EMC at later stage to update the primary contact information
Phone:*	678-209-9442		for the ESRS VE. EMC will reach Primary contact first regarding any ESRS VE queries.
Mobile:			
			Submit & Go to Technical Registration

Enter the information for the Primary Contact. This information will be used in the ServiceLink ESRS Contacts portlet as the Primary Contact. Click the Submit & Go to Technical Registration button.

EMC ²	ESRS Virtual Edition		💄 admin 🗸
	(1) Registration		
	PrimaryContact Technical First Name:*	eal Contact Status chical Contact Primary contact has been saved The information provided in this section wil be used as customer contact by OK OK OK This is an optional step. User can contact function to the ESRS VE. EMC will cach tach tach tach contact ingarding any ESRS VE queries, if Primary contact is not available.	
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Click OK on the Primary contact has been saved message.

EMC ²	ESF	RS Virtual Edition	1				🔔 admin 🔨
		Registration				Configuration	
		PrimaryContact	Technical Contact				
		TECHNICAL CONTACT					
		First Name:*	Jane	Title:	Systems Administr	Technical Contact	
		Last Name:*	Doe	Company:*	EMC	 The information provided in this section will be used as customer contact by EMC for the ESRS VE. 	
		Email:*	jane.doe@emc.com	EMC Contact:		This is an optional step. User can contact EMC at later stage to provide or	
		Phone:*	678-123-4567)		update the Technical contact information for the ESRS VE. • EMC will reach Technical contact	
		Mobile:				regarding any ESRS VE queries, if Primary contact is not available.	
		L				Skip Technical contact Submit & Go to Provisio	ning
				© 2014 EM	C Corporation. All rights re-	served.	~

Enter the information for the Technical Contact if there is one. This information will be used in the ServiceLink ESRS Contacts portlet as the Secondary Contact. Click the Submit & Go to Provisioning button. If there is no technical contact, click the Skip Technical contact button.

RS Virtual Edition		
Registration	2 Provisioning 3 Configuration	
Proxy Server Network	Check Provision	
Enable Proxy be	tween Client and EMC Proxy Configuration HTTP SOCKS Status • The first time you use ESRS V asked if you would like to confi	
IP Address/Host	Technical contact has been saved settings.For additional help, connettion OK To check the server connection OK button.Message is displayed to connection was successful.	ntact your r. n, click <i>Test</i>
Authenticate usi	ng the following information: • If the connection was unsucce reenter the correct settings and	
User Name:	Note: Proxy configuration is optional	
Password:	Test	
	Submit & G	o to Network Check
	© 2014 EMC Corporation. All rights reserved.	

Click OK on the Technical contact has been saved message.

EMC ² E	SRS Virtual Edition			💄 admin
	Registration	Provisioning	Configuration	
	Proxy Server Network Check	Provision		
	Enable Proxy between C	lient and EMC	Proxy Configuration	
	IP Address/Host) socks	 The first time you use ESRS VE, you are asked if you would like to configure the proxy settings.For additional help, contact your network or server administrator. To check the server connection, click <i>Test</i> 	
	Port Authenticate using the fo	ollowing information:	button.Message is displayed to indicate if the connection was successful. If the connection was unsuccessful, then reenter the correct settings and click <i>Submit</i> . Note: Proxy configuration is optional.	
	Password:		Test	
			Submit & Go to Network Check	
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If the ESRSVE uses a proxy server to reach the Internet, enter the proxy server information and click Test to test connectivity to the proxy server. Click the Submit & Go to Network Check button.

Registration	2 Provisioning	
Proxy Server Network Check Run Test Host IP Ping	Provision	Network Connectivity testing to EMC • Use the Run Test button to check the network connectivity from the ESRS VE
Name Address (ms)	Status Proxy configuration has been saved OK	 to all the required EMC servers. User will not be able proceed further if any one of the EMC enterprise servers are not reachable from ESRS VE. Upon any connectivity failures, please contact your network or server administrator to fix any proxy or firewall related issues. Connectivity test failures to EMC GAS (Global Access) servers will not prevent user to proceed with the ESRS VE setup. Please make sure to fix any EMC GAS server connectivity issues to get the remote support from EMC.

Click OK on the Proxy configuration has been saved message.

Registration (2) Provisioning	3 Configuration
Proxy Server Network Check Provision Run Test Host IP Ping Time Ping Port Port Ping Name Address (ms) Status 443 8443 Channel	 Network Connectivity testing to EMC Use the Run Test button to check the network connectivity from the ESRS VE to all the required EMC servers. User will not be able proceed further if any one of the EMC enterprise servers are not reachable from ESRS VE. Upon any connectivity failures, please contact your network or server administrator to fix any proxy or firewall related issues. Connectivity test failures to EMC GAS (Global Access) servers will not prevent user to proceed with the ESRS VE setup. Please make sure to fix any EMC GAS server connectivity issues to get the remote support from EMC.

On the Network Check screen, click Run Test to test network connectivity.

6	Registration		2	Provision	ing			3	Configuration
	Proxy Server Network C	Provisi IP Address	Ping Time (ms)	Ping Status	Port 443	Port 8443	Ping Channel	^	Network Connectivity testing to EMC • Use the Run Test button to check the network connectivity from the ESRS VE to all the required EMC servers. • User will not be able proceed further if
	esrghoprd01.emc.com	168.159.209.11	35	۲	۲		Proxy not enabled		any one of the EMC enterprise servers are not reachable from ESRS VE. • Upon any connectivity failures, please
	esrghoprd02.emc.com	168.159.209.12	35				Proxy not enabled		contact your network or server administrator to fix any proxy or firewall related issues.
	esrghoprd03.emc.com	168.159.209.13	35				Proxy not enabled		 Connectivity test failures to EMC GAS (Global Access) servers will not prevent user to proceed with the ESRS VE
	esrgweprd01.emc.com	128.221.204.210	15	۲			Proxy not enabled	~	setup. Please make sure to fix any EMC GAS server connectivity issues to get the remote support from EMC.

If all the tests pass, there will be a green button displayed for all the columns for every test. If some of the tests fail, you will need to resolve the connectivity issues. Scroll down the screen to see all the tests. Click the Go to Provision button.

EMC ²	ESF	RS Virtual Editio	n				💄 admin
		Registration	(2 Provisioning			
		Proxy Server N	letwork Check Provision				
		PROVISIONING					
		Site Id:			Provisioning		
		User Name:	willij8		EMC Securid FOB cr	ite id info in the site id section and redentials to provision the ESRS VE. hentication & authorization the new	
		Password:			ESRS VE will be regi	istered with EMC.	
						Submit & Go to Configuration	
						Jubine de la comparador	
				8 004 4 EMO 0+m+++++++			
				© 2014 EMC Corporation. A	All rights reserved.		

The EMC employee or Partner must enter the provisioning information, including the Site ID, User Name and Password. The credential information is provided through an RSA SecurID fob. Click the Submit & Go to Configuration button.

EMC ² ES	RS Virtual Editio	on			💄 admin ^
	Registration		2 Provisioning		
	Proxy Server	Network Check Provision	n		
	PROVISIONING Site Id:		Status	r site id info in the site id section and	
	User Name: Password:	willij8	Gateway Provisioned. Serial No: ESRSVE14091613434120	3 credentials to provision the ESRS VE. authentication & authorization the new egistered with EMC.	
				Submit & Go to Configuration	
	- <u> </u>				
			© 2014 EMC Corporation. All rights reserved.		~

The provisioning process will go through a series of steps logging into the provisioning server, getting authorization, downloading files and creating the digital certificate. If there are no errors, you will receive a message that the ESRSVE has been provisioned. Click OK.

Registration	Provisioning	3 Configurati	on
Email Configuration Policy N	lanager Connect Home		
EMAIL CONFIGURATION			
Email Server:*	luit in com-com	Notification settings	^
Port:* 25		 To send notification e-mails and Connect H enabled), provide e-mail server and its port the E-mail Server and Port text boxes. 	
Sender Email:*	support@emc.com	 Provide an email address in the Sender Er which can be used as FROM address in th notifications. 	
Notification Email jame	s.williams@emc.con	 Provide an email address in the Notification section which will be used as recipients for 	
Enable onSuccess Notifie	ation	failure event notifications and for successfu configured). • Use Test option to send a test E-mail	l events (if
		Test	~
		_	ubmit & Go to Policy Manager

Fill out the email configuration information. If you check Enable onSuccess Notification, the customer will receive emails when a connect home is sent successfully to EMC. This can be disabled later if the option is not desired. If enabled, click Test to send a test connect home.

	\frown		
Registration	Provisioning	(3) Configuration	
Email Configuration Policy Mar	ager Connect Home		
EMAIL CONFIGURATION			
Encil Occurred			
Email Server:*	Status	ings)n e-mails and Connect Home file	es (if
Port:* 25	Test email has been sent succ		
Sender Email:* esrssup	port@emc.cor	address in the Sender Email sec	
iamos u	/illiams@emc.com	d as FROM address in the email	
Notification Email James.v (s):*	initians@enc.com	 Provide an email address in the Notification Ema section which will be used as recipients for any crit 	
Enable onSuccess Notificati	n	failure event notifications and for successful events configured).	s (if
		Use Test option to send a test E-mail	
		Test	~
		Submit	& Go to Policy Manager

If the onSuccess Notification is enabled and tested, you will receive a message indicating the test was successful. Click OK. Click the Submit & Go to Policy Manager button.

EMC ² E	SRS Virtual Edition			💄 admin 🖌
	Registration	Provisioning	Configuration	
	Email Configuration Policy Manager	Connect Home		
	CONNECTION			
	Enable Remote Policy Manag	er Status	Liee Test option to check the connectivity to cy Manager from ESRS VE.	
	IP Address:	Email configuration has been	saved	
	Port		ОК	
	✓ Enable SSL High ▼			
	CUSTOMER PROXY SERVER FOR POLICY MANA	GER		
	Enable Proxy Server for Polic	ey Manager only	Policy Manager	
	IP Address:	DCKS	 Enter Policy Manager details and optional proxy configuration for Policy Manager. For SSL, use port 8443.For non-SSL, 	
	Port		use port 8090 or the port entered during Policy Manager Installation.	
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Click OK on the Email configuration has been saved message.

Test Email for ESRS VE Email Configuration setup

esrssupport@emc.com Sent: Tue 9/16/2014 1:51 PM To: Williams, James

This is a test Email generated from the ESRS VE Email Configuration setup to validate the Email Server settings provided.

Here is the test email that would be sent to a customer indicating the test was successful.

ESRS Virtual Edition	
Registration Provisioning	3 Configuration
Email Configuration Policy Manager Connect Home	
CONNECTION	
Enable Remote Policy Manager IP Address:	Use Test option to check the connectivity to Policy Manager from ESRS VE.
Port 8443	
Enable SSL Medium	
CUSTOMER PROXY SERVER FOR POLICY MANAGER	
Enable Proxy Server for Policy Manager only	Policy Manager
HTTP O SOCKS IP Address: Port	 Enter Policy Manager details and optional proxy configuration for Policy Manager. For SSL, use port 8443.For non-SSL, use port 8090 or the port entered during
© 2014 EMC Corporation. A	Policy Manager Installation.

Fill out this information if the customer is using a Policy Manger. Click the Test button to check connectivity to the Policy Manager server. If the test is successful, you will see a Policy Manager is connected to VE message under the Test button. Click the Submit & Go to Connect Home button.

\frown	\bigcirc			
Registrati	on Provisio	ning (3)	Configuration	
Email Configu	ration Policy Manager Connect Home			
CONNECT HOM	E			
	le Failover ETPS Test		(II	
		Connec		
Enab	le Failover Email		ect Home Event information is DEMC headquarters securely	
			ESRS Agent embedded in VE.	
		This is	the default Connect Home	
			anism and cannot be altered	
			ally two failover Connect	
			mechanisms, FTPS and Email e enabled by clicking on	
			boxes next to them.	
		Use the	e Test buttons available next 💉	
		to ope	h Connect Home mechanism	
	Status			
	Policy config	uration has been saved		
		ок	Complete Set	up

Click OK on the Policy configuration has been saved message.

Registration Provision	Configuration
Email Configuration Policy Manager Connect Home	
-CONNECT HOME	
Enable Failover FTPS Test	Connect Home
Enable Failover Email Test	Connect Home Event information is
	sent to EMC headquarters securely using ESRS Agent embedded in VE.
	This is the default Connect Home
	mechanism and cannot be altered
	Optionally two failover Connect
	Home mechanisms, FTPS and Email
	can be enabled by clicking on
	checkboxes next to them.
	Use the Test buttons available next to cach Connect Home mechanism
Email has been enabled	

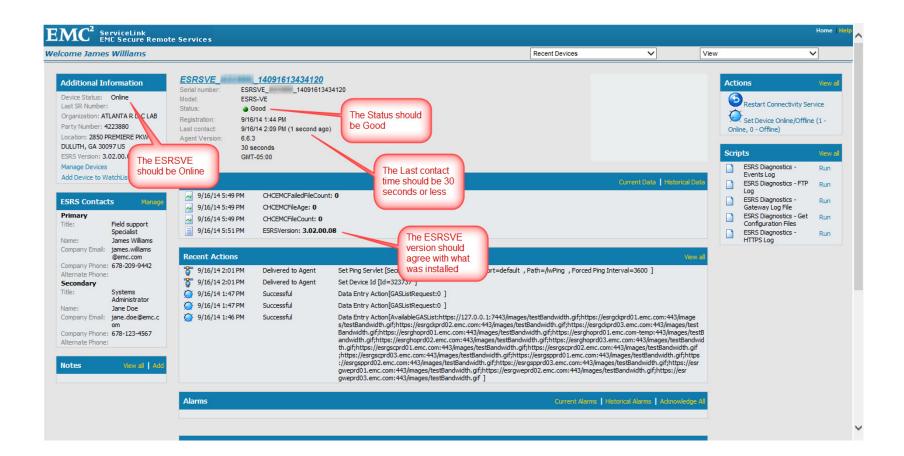
Check Enable Failover FTPS and Enable Failover Email if you want to have an alternate means for connect home files to be sent to EMC. Click both Test buttons to test. At the bottom of the screen you will see the messages Test connect home using FTPS was successful and Test connect home using Email was successful . See the Port Requirements document for a list of the ports that will need to be opened for this to work. Click Complete Setup.

EMC ² ES	RS Virtual Edition			💄 admin
	Registration	Provisioning	Configuration	
		Setup Complete	e	
	- <u> </u>			
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You will see a Setup Complete message. Click the home button to go to the Dashboard.

EMC ² ESRS	Virtual Ed	lition			Das	shboard	Devices 🗸	Configuration 🗸	Audit 🗸	Logs	Å admin 🗸
SN : VER : Remote Sessions : 0 C	Connect Homes : 0				_					1	Alerts : 0
System Status R	Remote Sessions	Connect Homes	Alerts	Service Statu	5						
Connecting to: Connectivity Stat Customer Proxy Policy Manager: SSL: Certificate: Average HB Res Cluster Info:	tus: Connecte Server: Disabled Enabled II SSL Enab Enabled, s Enabled, s	P: , port & oled strength AES256-SH/ supported true onds	143; conne	C D ected, M V	umber Of Managed Devices: PU Information: isk Space: emory: M Information: pdate available:	0 0:Intel(f 67.51 G 1.21 GE Virtual I None		5410 @ 2.33GHz			
				© 20	14 EMC Corporation. All rig	hts reserved	L				

The Dashboard will be displayed. Verify that the ESRSVE has been registered in ServiceLink by launching ServiceLink and locating the ESRSVE page.



Post-Installation Tasks

- If the customer is using an ESRSVE cluster (two or more ESRSVE's), create the cluster in ServiceLink and enroll all the ESRSVE's in the cluster (you cannot enroll an ESRSVE in an ESRS 2.X cluster for the purpose of managing the devices)
- Add any Site ID's in ServiceLink for any arrays that have Site ID's different from the Site ID that was used to install the ESRSVE
- Deploy EMC arrays using the ESRSVE web UI or ServiceLink
- Test remote access to the arrays
- Configure connect home on the arrays and ensure the test connect homes reach EMC. It is important to ensure a successful connect home from EVERY array.
- If the customer is using a Policy Manager and if they want to use Ask for Approval policies, configure the Policy Manager appropriately for the arrays that are deployed
- Test the Ask for Approval policies by performing a remote access to one of the arrays and ensure (1) you receive the waiting for authorization message (2) the customer receives the remote request email and (3) you are able to remote access to the array