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# Introducing SMA 8200v for Hyper-V

This Getting Started Guide describes how to install SonicWall SMA 8200v on the Microsoft Hyper-V environment and provides basic configuration information. The SMA 8200v is a virtual appliance that has nearly all the features and functionality of a SonicWall SMA 1000 Series hardware appliance.

Feature supported on the SMA 8200v include:

- FIPS Mode (vendor approved)
- CMS

The SMA 8200v provides the following benefits:

- · Cost savings
  - No need to purchase and maintain hardware appliances, reducing hardware costs, power consumption, and maintenance costs.
- Operational ease
  - In a virtual environment, new virtual appliances can easily be commissioned and old ones can be easily decommissioned.
  - Installation files are imported into the virtual environment with no need to run an installer.
  - Obtain high availability of your VPN using your virtual infrastructure's high availability features.
- Easy reallocation of resources
- Strong security with the same operating system as the SMA-1000 series hardware-based appliances.

For more information, refer to the *SMA 12.4 Administration Guide*. This and other documents are available at: https://www.sonicwall.com/support/technical-documentation.

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### Supported Platforms

The following hypervisor platforms are supported:

Release	Supported Hypervisor Versions	
SMA 12.4	Microsoft Hyper-V Windows Server 2019	
	Microsoft Hyper-V Windows Server 2022	

### Hardware Resource Requirements

The following hardware resources are required for the SMA 8200v appliance.

Requirement	For Microsoft Hyper-V
RAM	8 GB
CPU	4
Hard disk space	240 GB

### Files for Installation

SMA 8200v is available for download from MySonicWall. Different files are used depending on the type of installation.

Type of Installation	Installation File Name
For a fresh installation in a Microsoft Hyper-V environment:	12.x.x-xxxx.vhd.tgz or 12.x.x-xxxx.iso
For an update for either platform:	upgrade-xx.x.x-xxx.bin

Upload the upgrade file to the **System software updates** area of the **Maintenance** page on the appliance management interface of your SMA 8200v deployment.

All service packs for patches and hot fixes are the same for the SMA 8200v as for SMA-1000 series appliances.

# Setting Up SMA 8200v on Hyper-V

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#### Topics:

- Installing the SMA 8200v on Hyper-V
- Completing Hyper-V Setup

### Installing the SMA 8200v on Hyper-V

The SMA 8200-v can be installed on the Microsoft Hyper-V environment on these operating platforms:

- Windows Server 2019
- Windows Server 2022

The SMA 8200v can be installed by deploying an SMA ISO or VHD files to your Hyper-V environment. The VHD file contain all related software components.

(i) NOTE: From 12.4.2 onwards, VHD file is available that can be also used for Hyper-V deployment.

#### To perform a fresh install of the SMA 8200v in a Hyper-V environment:

- 1. Download the SMA ISO file (such as 12.x.x-xxxx.iso) or VHD file (such as 12.x.x-xxxx.vhd.tgz) from MySonicWall to a location that can be accessed by the Hyper-V Manager.
- 2. In the Hyper-V Manager, create a new virtual machine.

📳 Hyper-V Manag	ger				
File Action Vi	iew Help				
🗢 🄿 🔁 詞	?				
Hyper-V Mana	ager BALAJI	Virtual Machin	es		
		Name	^	State	CPU U
HYPEF	New	>	Virtual Machine	Bunning	0%
	Import Virtual Ma	achine	Hard Disk	Running	0%
	Humar-V Sattings		Floppy Disk	Running	0%
	Virtual Switch Ma Virtual SAN Mana	 inager iger	15sv achine	Running Off Off	0%
	Edit Disk Inspect Disk		liance	Off	
	Stop Service Remove Server Refresh				
	View	>			
	Help				

3. If the Before You Begin page opens, click Next.

👱 New Virtual Machine Wizar	d	×
🛄 🛛 Before You B	segin	
Before You Begin Specify Name and Location Specify Generation Assign Memory Configure Networking Connect Virtual Hard Disk Installation Options Summary	This wizard helps you create a virtual machine. You can use virtual machines in place of physical computers for a variety of uses. You can use this wizard to configure the virtual machine now, and you can change the configuration later using Hyper-V Manager.         To create a virtual machine, do one of the following:         • Click Finish to create a virtual machine that is configured with default values.         • Click Next to create a virtual machine with a custom configuration.         • Click Next to create a virtual machine with a custom configuration.	
	< Previous Next > Finish Cancel	

4. In the **Specify Name and Location** screen, Type in a descriptive name for the virtual machine and optionally specify a different location, then click **Next**.

🖳 New Virtual Machine Wi:	zard	×
Specify Nai	me and Location	
Before You Begin Specify Name and Location Specify Generation Assign Memory Configure Networking Connect Virtual Hard Disk Installation Ontions	Choose a name and location for this virtual machine. The name is displayed in Hyper-V Manager. We recommend that you use a name that helps you ear identify this virtual machine, such as the name of the guest operating system or workload. Name: SMA1000 appliance You can create a folder or use an existing folder to store the virtual machine. If you don't select a folder, the virtual machine is stored in the default folder configured for this server. Store the virtual machine in a different location	ısily
Summary	Location: C:\ProgramData\Microsoft\Windows\Hyper-V\ Browse  If you plan to take checkpoints of this virtual machine, select a location that has enough free space. Checkpoints include virtual machine data and may require a large amount of space.	
	< Previous Next > Finish Cance	el

5. In the Specify Generation screen, select Generation 1, then click Next.

👱 New Virtual Machine Wiza	d	×
Specify Gene	ration	
Before You Begin Specify Name and Location Specify Generation Assign Memory Configure Networking Connect Virtual Hard Disk Installation Options Summary	<ul> <li>Choose the generation of this virtual machine.</li> <li> <ul> <li>Generation 1             This virtual machine generation supports 32-bit and 64-bit guest operating systems and provides virtual hardware which has been available in all previous versions of Hyper-V.             <li>Generation 2             This virtual machine generation provides support for newer virtualization features, has UEFI-base firmware, and requires a supported 64-bit guest operating system.             More a virtual machine has been created, you cannot change its generation.         </li> </li></ul> </li> <li>More about virtual machine generation support.</li> </ul>	≉d
	< Previous Next > Finish Cancel	

6. In the **Assign Memory** screen, in the **Startup Memory** field, type in **8192**. This provides 8 GB (8192 MB) of memory for the virtual machine. Click **Next**.

New Virtual Machine Wizar	d	×
🖳 Assign Memo	ry	
Before You Begin Specify Name and Location Specify Generation Assign Memory Configure Networking Connect Virtual Hard Disk Installation Options Summary	Specify the amount of memory to allocate to this virtual machine. You can specify an amount from 32 MB through 12582912 MB. To improve performance, specify more than the minimum amount recommended for the operating system.         Startup memory:       8192         MB       Use Dynamic Memory for this virtual machine.         If 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.	
	< Previous Next > Finish Cancel	

7. In the **Configure Networking** screen, from the **Connection** drop-down list, select the virtual switch to use for connecting the network adapter of the virtual machine, then click **Next** 

New Virtual Machine Wizar	d	×
💹 Configure Ne	etworking	
Before You Begin Specify Name and Location Specify Generation Assign Memory Configure Networking Connect Virtual Hard Disk Installation Options Summary	Each new virtual machine includes a network adapter. You can configure the network adapt virtual switch, or it can remain disconnected. Connection:	er to use a
	< Previous Next > Finish	Cancel

#### 8. In the Connect Virtual Hard Disk screen:

If you used ISO file for deploying, select Create a virtual hard disk

- a. Enter 240 GB in the **Size** field. The new drive name should have the same name as the original file you installed. If the file name extension is not already .vhdx (instead of .vhd), change it to .vhdx.
- b. Click Next.
- c. Click **Finish**, for further instruction proceed from *step* 9 to 14.

- 📃 New Virtual Machine Wizar	d	×
💷 🛛 Connect Virt	ual Hard Disk	
Before You Begin Specify Name and Location Specify Generation Assign Memory Configure Networking	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.   Create a virtual hard disk Use this option to create a VHDX dynamically expanding virtual hard disk.  Name: SMA1000 appliance.vhdx	
Connect Virtual Hard Disk Installation Options Summary	Location:     C:\Users\Public\Documents\Hyper-V\Virtual Hard Disks\     Browse       Size:     240     GB (Maximum: 64 TB)	
	O       Use an existing virtual hard disk         Use this option to attach an existing virtual hard disk, either VHD or VHDX format.         Location:       C:\Users\Public\Documents\Hyper-V\Virtual Hard Disks\         Browse	
	<ul> <li>Attach a virtual hard disk later</li> <li>Use this option to skip this step now and attach an existing virtual hard disk later.</li> </ul>	
	< Previous Next > Finish Cancel	

#### (or)

If you used VHD file for deploying, select Use an existing virtual hard disk.

- a. Click **Browse** for the vhd or .vhdx file location to attach an existing virtual hard disk.
- b. Click Next.
- c. Click Finish, proceed to step 14.
- 9. To add the hard drive to the virtual machine, right-click on the virtual machine and select **Settings** to configure it.

📱 SMA1000 appli	Connect	Off
		-
	Settings	
	Start	
	Checkpoint	
Checkpoints	Move	
	Export	
	Rename	
	Delete	
	Enable Replication	
	Help	

The **Hard Drive** page displays. Modify the number of virtual processors to 4.

(i) **NOTE:** Recommended number of virtual processors is 4.

SMA1000 appliance	ŭ <b>∢ ►</b> ∨	
A Hardware	Processor	
Add Hardware     BIOS     Boot from CD	You can modify the number of virtual processors based on the number of pr the physical computer. You can also modify other resource control settings.	ocessors on
Security Key Storage Drive disabled	Number of virtual processors:	
Memory	Resource control	
Processor     4 Virtual processors	Virtual machine reserve (percentage):	les.
<ul> <li>IDE Controller 0</li> <li>Hard Drive</li> </ul>	Percent of total system resources: 0	
SMA1000 appliance.vhdx IDE Controller 1 OVD Drive	Virtual machine limit (percentage):     100       Percent of total system resources:     25	
None SCSI Controller	Relative weight: 100	
🛨 🎴 Network Adapter		
Network Adapter Not connected		
COM 1 None		
COM 2 None		
Diskette Drive		
A Management		
Name SMA1000 appliance		
Integration Services Some services offered		
Checkpoints Production	,	

10. Click **IDE Controller1** and select **image file** to setup an IDE controller.



11. Click Add Hardware and select Network Adapter to create a second network adapter.

	IA1000 appliance	$\sim$	ن ⊲ ◄			
8	Hardware	^	🕈 Add Hardware			
	👕 Add Hardware		· · · · · · · · · · · · · · · · · · ·			
	BIOS		You can use this setting to add devices to your virtual machine.			
	Boot from CD		Select the devices you want to add and click the Add button.			
	Security		SCSI Controller			
	Memory		Network Adapter			
	8192 MB		Egacy Network Adapter Fibre Chappel Adapter			
F	Processor					
	1 Virtual processor					_
-	📕 IDE Controller 0				Add	
	🛨 🚃 Hard Drive					
	SMA1000 appliance.vhdx		Virtual machines are created with one network adapter. You can a adapters as peeded	dd additior	nal networ	rk
3	IDE Controller 1		auapters as needed.			
	OVD Drive					
	None					
	SCSI Controller					
-	Network Adapter					
	COM 1					
	None					
	💭 COM 2					
	COM 2 None					
	COM 2     None     Diskette Drive					
	COM 2     None     Diskette Drive     None					
	COM 2 None Diskette Drive None Management					
	COM 2     None     Diskette Drive     None     Management     Mame     SM01000 annilance	_				
	COM 2 None Diskette Drive None Management Mame SMA1000 appliance Integration Services	-				
	COM 2     None     Diskette Drive     None     Management     Mame     SMA1000 appliance     Integration Services     Some services offered	-				
	Checkpoints					
	CMC 2 None None None None Name SMA1000 appliance Some services Some services Checkpoints Production	-				
	CM 2 None None Diskette Drive None None None Nanagement Name SMA1000 appliance Integration Services Some services offered Checkpoints Production Smart Paging File Location					
1	C (QM 2 None None None None None None None None					

12. Select the virtual switch to connect the second network adapter to, and click **Apply**.

SMA1000 appliance	$\sim$	< ▶   Ŭ
★ Hardware	^	Network Adapter
📑 Add Hardware		
EIOS		Specify the configuration of the network adapter or remove the network adapter.
Boot from CD		Virtual switch:
Security		18_5_114_0 ×
Key Storage Drive disabled		VLAN ID
Plo2 MR		Enable virtual LAN identification
4 Virtual processors		The VLAN identifier specifies the virtual LAN that this virtual machine will use for all
🖃 🧾 IDE Controller 0		network communications through this network adapter.
🕀 👝 Hard Drive		2
SMA1000 appliance.vhdx		
🖃 🧱 IDE Controller 1		Bandwidth Management
OVD Drive		Enable bandwidth management
None		Specify how this petwork adapter utilizes petwork bandwidth. Both Minimum
SCSI Controller		Bandwidth and Maximum Bandwidth are measured in Megabits per second.
🗄 🍟 Network Adapter		Minimum bandwidth: 0 Mbns
+ 🔍 Network Adapter		
a q nector radpter		Maximum bandwidth: 0 Mbps
💭 COM 1		To leave the minimum or maximum unrestricted, specify 0 as the value.
None		
💭 COM 2		To remove the network adapter from this virtual machine, click Remove.
None		Demous
Diskette Drive		Keniove
Management		<ol> <li>Use a legacy network adapter instead of this network adapter to perform a</li> </ol>
	- 1	network-based installation of the guest operating system or when integration services are not installed in the guest operating system.
SMA1000 appliance		
📄 Integration Services		
Some services offered		
🐻 Checkpoints		
Broduction		

- 13. The virtual machine is created as a DVD, so in the **Installation Options** screen, choose the following:
  - a. Select the Install an operating system from a bootable CD/DVD-ROM option.
  - b. In the **Image file** field, specify the media for the DVD to be the SMA ISO file.
    - (i) **NOTE:** The image file name follows the format *x.x.x-yyy*.iso, where *x.x.x* is the version number of the SMA firmware and *yyy* is the build number.

c. Change the virtual machine BIOS boot order so that DVD is first.

New Virtual Machine Wiza	rd	×
📒 Installation	Options	
Before You Begin Specify Name and Location Specify Generation Assign Memory Configure Networking Connect Virtual Hard Disk <u>Installation Options</u> Summary	You can install an operating system now if you have access to the setup media, or you can install later.  Install an operating system later  Install an operating system from a bootable CD/DVD-ROM  Media  Install an operating system from a bootable floppy disk  Media  Virtual floppy disk (.vfd):  Install an operating system from a network-based installation server	it
	< Previous Next > Finish Can	:el

- 14. Click Next.
- 15. In the **Summary** screen, click **Finish**.

- 🖳 New Virtual Machine Wiza	rd ×
Completing	the New Virtual Machine Wizard
Before You Begin Specify Name and Location Specify Generation	You have successfully completed the New Virtual Machine Wizard. You are about to create the following virtual machine. Description:
Assign Memory Configure Networking Connect Virtual Hard Disk Installation Options Summary	Name:     SMA1000 appliance       Generation:     Generation 1       Memory:     8192 MB       Network:     Hard Disk:       Hard Disk:     C:\Users\Public\Documents\Hyper-V\Virtual Hard Disks\SMA1000 appliance.vhdx       Operating System:     Will be installed at a later time
	To create the virtual machine and close the wizard, click Finish.
	< Previous Next > Finish Cancel

(i) **NOTE:** The settings shown in the description reflects the settings for your configuration.

### **Completing Hyper-V Setup**

- () NOTE: This section is only applicable if you used ISO file for deploying Hyper-V.
- (i) **NOTE:** If you used VHD file for deploying Hyper-V, the Hyper-V setup starts automatically and the virtual machine boots from the hard drive and you can configure the SMA 8200v from the console.
  - 1. To start the virtual machine, right-click it and select **Start**. It boots from the DVD.



After a successful start, an SMA 8200v is created and the virtual machine is automatically stopped.

2. Remove the ISO DVD, as it is no longer needed. (Under Media, select None.)

Hardware     Add Hardware     BIOS     Boot from CD     Security     Key Storage Drive disabled     Memory     8192 MB     Processor     4 Virtual processors     IDE Controller 0     Hard Drive     SMA1000 appliance.vhdx     DVD Drive     None     SCSI Controller     Network Adapter     172 29 0 0		DVD Drive Select the controller and location on the controller to attach the CD/DVD drive. Controller: Location: IDE Controller 1      O (in use)  Media Specify the media to use with your virtual CD/DVD drive.      None     Image file:      Drowse  Physical CD/DVD drive:  Drows Col
None None SCSI Controller Network Adapter 172 29 0 0		Drive (2)
Network Adapter     10_5_114_0     COM 1     None     COM 2     None     Diskette Drive		To remove the virtual CD/DVD drive from this virtual machine, click Remove.
None Management Management Management Management Integration Services Some services offered Checkpoints Production	-	

3. Change the virtual machine BIOS boot order so that the hard drive comes before the CD.

Hardware Mardware BIOS	Select the order in which boot devices are checked to start the operating system	stem.
Boot from IDE Memory 2048 MB Processor	Startup order  IDE CD Legacy Network adapter Floppy Mon	ove Up ve Down
IDE Controller 0  Hard Drive  IDE Controller 1  ODD Drive  None	<ul> <li>Use a legacy network adapter to perform a network-based installatio guest operating system.</li> </ul>	n of the
SCSI Controller  SCSI Controller  Network Adapter  Network Adapter		

4. Connect the network adapters to the appropriate virtual switch in the Hyper-V environment.



The next time the virtual machine is started, it boots from the hard drive and you can configure the SMA 8200v from the console.

## **Configuring Settings in AMC**

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After configuring the IP address and default route settings on the SMA 8200v console, the next steps are to change the administrator password and configure host name, network, and time settings in the Appliance Management Console (AMC).

The first time you access the AMC, the Setup Wizard runs automatically to guide you through the process of initial setup.

#### To run the Setup Wizard for the SMA 8200v:

 In a browser, enter the URL of the SMA 8200v, for example: https://<IP address>:8443. The Setup Wizard Welcome screen displays.

Welcome	Welcome to SonicWall Secure Mobile Access		
License Agreement	This Setup Wizard guides you through a series of required and optional settings for getting the appliance up and running quickly:		
Basic Settings	Basic Settings:	Set the password you'll use to administer the appliance, and the date	
Network Settings	Network Settings:	and time. Set the name of the appliance, which is used in log files, and the IP	
Routing		address and subnet mask for the internal and external network interfaces.	
Name Resolution	Routing: Name Resolution:	Configure the gateways for internal and external network traffic. Configure the domain name of the network to which the appliance will	
User Access		be connected and the internal DNS.	
Completion	User Access: Create a basic security policy, fou can change it later in th Management Console (AMC).		
	After you complete the Setup Wizard:		
	<ul> <li>You will be redir enter the admin</li> </ul>	rected to AMC. To log in, type "admin" in the Username box, and the istrator password that you set on the Basic Settings page.	
	<ul> <li>Register your appliance on MySonicWall. Registration gives you access to essentia resources, such as your license file and updates. In order to register, you need both serial number for your appliance, and its authentication code, which is visible on th General Settings page in AMC.</li> </ul>		
SONICWALL' secure mobile access		Cancel < Back Next >	

2. Click Next for the License Agreement screen.

	License Agreement		
License Agreement	To continue with setup, you must accept the terms of the End User License Agreement. Please read the agreement carefully.		
Basic Settings			
Network Settings	PLEASE READ THIS AGREEMENT CAREFULLY BEFORE USING THIS PRODUCT. BY		
Routing	DOWNLOADING, INSTALLING OR USING THIS PRODUCT, YOU ACCEPT AND AGREE TO THE TERMS AND CONDITIONS OF THIS AGREEMENT. FOR DELIVERIES OUTSIDE THE UNITED STATES OF AMERICA, PLEASE GO TO HTTPS://WAW.SONICUALL.COM/LEGAL/EUPA.ASPX TO VIEW THE APPLICABLE VERSION OF THIS AGREEMENT FOR TVOUR REGION. IF YOU DO NOT AGREE TO THE TERMS AND CONDITIONS OF THIS AGREEMENT OR THE APPLICABLE VERSION OF THIS AGREEMENT FOR YOUR REGION. DO NOT DOWNL GAD. INTSTALL OR USE THIS		
Name Resolution			
User Access	PRODUCT.		
Completion	between you, the Customer ("Customer" or "You") and the Provider, as defined below.		
	<ul> <li>1. Definitions. Capitalized terms not defined in context shall have the meanings assigned to them below:</li> <li>(a) "Affiliate" means any legal entity controlling, controlled by, or under common control with a party to this Agreement, for so long as each control entities and the second relationship exists.</li> <li>Print</li> <li>I accept the terms of the license agreement</li> <li>I do not accept the terms of the license agreement</li> </ul>		
SONICWALL' SECURE MOBILE ACCESS	Cancel < Back Next >		

- 3. Select the l accept the terms of the license agreement option.
- 4. Click **Next** for the **Basic Settings** screen.

Welcome	Basic Settings		
License Agreement	Central Management		
Basic Settings	This machine can be configured as a central management server (CMS) to manage the licensing and configuration of up to 100 SMA appliances.		
Network Settings	Onfigure this machine as an SMA appliance		
Routing	Configure this machine as a CMS to manage the licensing and configuration of up to 100 SMA appliances		
Name Resolution	Administrator password		
User Access	Specify the password you will use to access the Appliance Management Console (AMC). Your password must be at least eight characters long.		
Completion	Enter password: *         Confirm password: *         Date and time         Please select a time zone below. To set the current time, click Change. If you wish to synchronize the time with an NTP server, it can be configured later in AMC.         Time zone:       GMT+00:00 Greenwich Mean Time (Etc/Greenwich)       ✓         Current time: Mon May       08:51:33 GMT       Change		
SONICWALL' SECURE MOBILE ACCESS	Cancel < Back Next >		

- 5. Under Administrator password, enter the password you want for the admin account and confirm it.
  (i) NOTE: Be sure to save or write this password down in a secure location, as it is encrypted and cannot be recovered if you forget it.
- 6. Under **Date and time**, select the appropriate time zone from the **Time Zone** menu.
- 7. Click Next for the Network Settings screen.

Welcome	Network Settings	
License Agreement	Enter a name to identify your appliance as well as t	the IP address and subnet mask for the
Basic Settings	internal and external network interfaces. If you are should select "Single Interface".	using a single gateway in your DMZ, you
Network Settings	Appliance name: * SMAAppliance	
Routing	Dual interfaces Single interface	
Name Resolution	Internal Interface	
User Access	IP address: *	This is the interface connected
Completion	Subnet mask: *	network.
	External Interface	
	IP address: *	This is the interface connected
	Subnet mask: *	to the Internet.
SONIC <b>WALL</b>		
SECURE MOBILE ACCESS	Cancel	< Back Next >

- 8. Enter a descriptive name for your SMA 8200v in the **Appliance name** field.
- 9. If this SMA 8200v is accessible only from within your local network, do the following steps:
  - Select the Single interface option.
  - Enter the Internal Interface IP address and Subnet mask.
- 10. If this SMA 8200v is accessible from outside your local network, do the following steps:
  - a. Select the **Dual interfaces** option.
  - b. Enter the Internal Interface IP address and Subnet mask.
  - c. Enter the External Interface IP address and Subnet mask.
- 11. Click **Next** for the **Routing** screen.



- 12. If you selected the Single interface option on the Network Settings screen, do the following steps:
  - a. From the Routing mode menu, select Default gateway.
  - b. In the **Default gateway IP address** field, enter the gateway IP address.
- 13. If you selected the **Dual interfaces** option on the **Network Settings** screen, do the following steps:
  - a. From the Routing mode menu, select Dual gateway.
  - b. In the Internal gateway IP address field, enter internal gateway IP address.
  - c. In the External gateway IP address field, enter external gateway IP address.
- 14. Click Next for the Name Resolution screen.

Welcome	Name Resolution				
License Agreement	Specify the domain in which the appliance is located and the primary DNS server used for				
Basic Settings	name.	appliance to reach resources on your internal network by			
Network Settings	Default domain: *	The domain in which the appliance is located (such as example.com).			
Routing	DNS Server:				
Name Resolution		Enter the IP address for your primary DNS server. More DNS servers can be added later in AMC.			
User Access					
Completion					
Sonic <b>wall</b> '					
SECURE MOBILE ACCESS		Cancel Cancel Next >			

- 15. Enter your domain in the **Default domain** field.
- 16. Enter the IP address of the primary DNS server into the **DNS Server** field.
- 17. Click Next for the User Access screen.

	User Access
	Access Methods
	The SonicWall Secure Mobile Access appliance provides several different agents for graded levels of access to backend resources. Select this option to provision the OnDernand Tunnel
	access agent for full network access:
	Enable full network access using OnDemand Tunnel
Name Resolution	NAT address for network tunnel traffic: * The NAT address for network tunnel traffic must be on the same subnet as the internal interface (172.24.33.52/255.255.0.0).
User Access	Access Policy
Completion	The SonicWall Secure Mobile Access appliance uses a granular access policy to determine what backend resources a given user is allowed to access. Select an initial access policy for users:
	<ul> <li>Allow authenticated users access to defined resources</li> </ul>
	Grant users access to backend resources as you add them in AMC.
	Initially deny all access
	Access to specific resources can be defined later in AMC.
Sonic <b>wall</b> '	
SECURE MOBILE ACCESS	Cancel Sack Next >

- 18. If you want to provision the OnDemand Tunnel access agent for full network access, select the **Enable full network access using OnDemand Tunnel** check box.
- 19. Enter the NAT IP address in the NAT address for network tunnel traffic field.
- 20. Under Access Policy, select one of the following options:
  - Allow authenticated users access to all defined resources This option automatically creates rules for user access to backend resources as you add users in AMC.
  - Initially deny all access This option creates rules that deny access. Later you can define access rules for specific resources in AMC.
- 21. Click **Next** for the Completion screen.



- 22. Review the settings to make sure they are defined correctly.
- 23. To change anything, click the **Back** button.
- 24. To apply the settings, click **Finish**.

The SMA 8200v applies the changes and restarts, which causes you to lose your current connection. A progress bar is displayed while the settings are being applied. This process may take several minutes.

25. After restarting, type admin in the Username field.

Sonic <b>wall</b> '	
SECURE MOBILE ACCESS	
Please log in	
Username	
Password	
Log in using	
Management Console 🔹 🔻	
Login Clear	

- 26. Enter the **Password** that you set in *Step 5*.
- 27. Click Login.

## Licensing and Registering Your SMA 8200v

All SMA 8200v appliances must be registered before use.

#### **Topics:**

- Creating a MySonicWall Account
- Retrieving Your SMA 8200v License
- Importing Your SMA 8200v License
- Registering the SMA 8200v
- License Manager

### Creating a MySonicWall Account

A MySonicWall account is required for product registration. If you already have an account, continue to the section on Registering the SMA 8200v.

#### To create a MySonicWall account:

- 1. In your browser, navigate to http://www.MySonicWall.com.
- 2. In the login screen, click the **Sign-Up** link.
- 3. Complete the account information, including email and password.
  - (i) NOTE: Your password should be at least eight characters, but no more than 30 characters.
- 4. Enable two-factor authentication if desired.
- 5. If you enabled two-factor authentication, select one of the following authentication methods:
  - Email (one-time passcode) where an email with a one-time passcode is sent each time you log into your MySonicWall account.
  - **Microsoft/Google Authentication App** where you use a Microsoft or Google authenticator application to scan the code provided. If you are unable to scan the code, you can click on a link for a secret code.

- 6. Click **Continue** to go to the **Company** page.
- 7. Complete the company information and click Continue.
- 8. On the Your Info page, select whether you want to receive security renewal emails.
- 9. Identify whether you are interested in beta testing new products.
- 10. Click **Continue** to go to the **Extras** page.
- 11. Select whether you want to add additional contacts to be notified for contract renewals.
- 12. If you opted for additional contacts, input the information and click Add Contact.
- 13. Click Done.
- 14. Check your email for a verification code and enter it in the **Verification Code**\* field. If you did not receive a code, contact Customer Support by clicking the link.
- 15. Click **Done**. You are returned to the login window so you can login into MySonicWall with your new account.
  - (i) NOTE: MySonicWall registration information is not sold or shared with any other company.

### Retrieving Your SMA 8200v License

Your SMA 8200v license file can be downloaded from MySonicWall. The license file provides the serial number and the authentication code for your SMA 8200v, which you need in order to register it on MySonicWall.

Alternatively, you can retrieve an initial user license from MySonicWall that is valid for one user (the administrator plus one end user) for an unlimited number of days. To become familiar with the Appliance Management Console (AMC) and test it in your environment with additional users, request a lab license.

#### To retrieve the license file for your appliance:

- 1. In your Web browser, go to https://www.mysonicwall.com, log in with your username and password, and then click the link for the SMA 8200v that requires a license.
- 2. On the Service Management page, follow the link To get the latest applicable firmware/software, please click here.
- 3. Save the license file (.xml) to your computer. After you get your SMA 8200v up and running, you must import this license file using AMC.

### Importing Your SMA 8200v License

After initial setup and testing, download your appliance license file from https://www.mysonicwall.com and then import it to the appliance. The SMA 8200v supports up to 250 concurrent users.

The process for importing an appliance license file is described in detail in the online help for the Appliance Management Console (AMC). Briefly, the steps are as follows:

- 1. Point your Web browser to the IP address (and a colon followed by the port, if any) of the SMA 8200v.
- 2. In the AMC login page:
  - a. Type admin in the Username field.
  - b. Enter the password you created with Setup Wizard.
  - c. Select Management Console in the Log in using field
  - d. Click the Login button.
- 3. From the main navigation menu in AMC, click **System Configuration > General Settings**.
- 4. Click Edit in the Licensing area. The Manage Licenses page appears.
- 5. Click Import License.
- 6. In the License field, type the path for the license file you retrieved from your MySonicWall account, or click **Browse** to locate it.
- 7. Click Upload.
- 8. Apply the change by clicking the **Pending changes** link in the upper-right corner.

### Registering the SMA 8200v

After importing the license file to the SMA 8200v in AMC, you are ready to register the SMA 8200v.

#### To register your appliance:

- 1. In AMC, navigate to the System Configuration > General Settings.
- 2. In the Licensing section note the serial number and authentication code for your SMA 8200v.
- 3. In your Web browser, go to https://www.mysonicwall.com and log in with your MySonicWall username and password.
- 4. On the top of your MySonicWall **Dashboard** page, in the **Quick Register** field, type in the serial number of your SMA 8200v and then click **Next**.



- 5. Enter the authentication code and a friendly name for this appliance.
- 6. Click **Register** to continue and follow the online prompts to fill out the survey and complete the registration process.

### License Manager

Due to licensing restrictions, the SMA 8200v must be able to make contact with the License Manager server (software.sonicwall.com) every 24 hours. All communication is encrypted with TLS and uses port 443.

The ability or inability to make contact affects the license in the following ways:

- If the contact does not succeed in a 3-day period, a warning appears in AMC.
- If the contact does not succeed in a 7-day period, the license reverts to 2 users (note that the full license is not deleted, but only becomes inactive).
- If connectivity is restored at any point and the contact succeeds, the full license is reinstated.

If you make a change to your network and want to attempt contact again immediately, you must reboot the SMA 8200v. Navigate to the Maintenance page in the AMC, and click **Restart**.

# Upgrading the 8200v Virtual Appliance

If you attempt to upgrade to SMA 12.4 from SMA 11.3 or earlier, the upgrade stops, and you get a message stating that you cannot upgrade from your current version.

You can upgrade a supported SMA 8200v appliance directly to version 12.4.3 from these versions:

- 12.4 and above + latest hotfixes
- 12.1 + latest hotfixes
- (i) **NOTE:** When you are upgrading from SMA 12.3 to 12.4, it is recommended to upgrade to 12.4.0 first, then upgrade to 12.4.3.

#### To upgrade an 8200v by importing the configuration:

- 1. Export the configuration from the current virtual machine to a local computer.
- 2. Deploy a new virtual machine.
- 3. Import the configuration from the local computer to the new virtual machine.

## SonicWall Support

Technical support is available to customers who have purchased SonicWall products with a valid maintenance contract.

The Support Portal provides self-help tools you can use to solve problems quickly and independently, 24 hours a day, 365 days a year. To access the Support Portal, go to https://www.sonicwall.com/support.

The Support Portal enables you to:

- View knowledge base articles and technical documentation
- View and participate in the Community forum discussions at https://community.sonicwall.com/technology-and-support.
- View video tutorials
- Access https://mysonicwall.com
- Learn about SonicWall Professional Services at https://sonicwall.com/pes.
- Review SonicWall Support services and warranty information
- Register for training and certification
- Request technical support or customer service

To contact SonicWall Support, visit https://www.sonicwall.com/support/contact-support.

## About This Document

Secure Mobile Access on Hyper-V Getting Started Guide Updated - January 2024 Software Version - 12.4 232-005702-00 Rev C

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For more information, visit https://www.sonicwall.com/legal.

#### End User Product Agreement

To view the SonicWall End User Product Agreement, go to: https://www.sonicwall.com/legal/end-user-product-agreements/.

#### Open Source Code

SonicWall Inc. is able to provide a machine-readable copy of open source code with restrictive licenses such as GPL, LGPL, AGPL when applicable per license requirements. To obtain a complete machine-readable copy, send your written requests, along with certified check or money order in the amount of USD 25.00 payable to "SonicWall Inc.", to:

General Public License Source Code Request Attn: Jennifer Anderson 1033 McCarthy Blvd Milpitas, CA 95035