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Introducing SMA 8200v for KVM

This Getting Started Guide describes how to install SonicWall SMA 8200v on Linux with KVM and QEMU environments and provides basic configuration information.

SonicWall takes the challenge of rapid pace of cloud transformation and extends the security of the private cloud to public clouds with SonicWall Secure Mobile Access SMA 8200v (1000) series. The SMA 8200v gives you economy-of-scale benefits of virtualization. This gives you all the security advantages of a physical SMA appliance with the operational and economic benefits of virtualization, including system scalability and agility, speed of system provisioning, simple management and cost reduction.

Installation File / Supported Platforms

Release Version	Supported Linux / Kernel / KVM / VMM Versions
	Red Hat 8.x (latest)
	• Kernel: x86/x64 with kernel level 4.X or later
SMA 8200v for Linux KVM/QEMU	• KVM version: 2.11.1
	• Virtual machine manager: 1.5.1
	Ubuntu 18.04
	• Kernel: 5.4.0-51-generic
	• KVM version: 2.11.1
	Virtual machine manager: 1.5.1

KVM/QEMU

KVM, or Kernel-based Virtual Machine is a software module that allows Linux to operate as a hypervisor. QEMU, or Quick Emulator, allows guest operating systems to run on the KVM hypervisor and supports virtualization where applications executing in the user space can achieve near native speeds through full virtualization or paravirtualization.

Hardware-Assisted Full Virtualization

KVM features hardware-assisted full virtualization when the underlying x86 processor hardware supports Intel VT-x or AMD-V virtualization extensions. This allows SMA appliance to setup a virtual context and execute instructions directly on the processor's hardware.

For an overview of virtualization techniques, see: https://www.unixarena.com/2017/12/para-virtualization-full-virtualization-hardware-assisted-virtualization.html/

Paravirtualization

In hardware-assisted full virtualization, guest operating systems issue calls directly to the hardware. In paravirtualization, guest operating systems communicate with the hypervisor (KVM/QEMU) with an API (Virtio). This API defines paravirtual devices including Ethernet cards, disk I/O subsytems, and VGA interfaces with SPICE drivers.

For an overview of VirtIO, see https://www.cs.cmu.edu/~412/lectures/Virtio_2015-10-14.pdf.

Creating a MySonicWall Account

A MySonicWall account is required to obtain the image file for initial installation of the SMA virtual appliance, for product registration to enable full functionality of SonicOS features, and for access to licensed security services. For a High Availability configuration, MySonicWall provides a way to associate a secondary SMA virtual appliance that can share security service licenses with your primary appliance.

(i) NOTE: MySonicWall registration information is not sold or shared with any other company.

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.

SONICWALL	
MYSONICWALL	
Login with your MySonicWall account credentials	
Username or Email address	
Username or Email address	\bigcirc
Next	
Forgot username or email? Sign Up	

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. If you are using Microsoft or Google authenticator, scan the code or confirm authentication with a button.
- 15. Click Done.

You are returned to the login window so you can login into MySonicWall with your new account.

Installing SMA 8200v on KVM

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Topics:

- Preparing the Linux Server System
- Obtaining the SMA 8200v Image
- Installing the SMA 8200v on Red Hat / Ubuntu-KVM/QEMU

Preparing the Linux Server System

Before installing SonicWall SMA 8200v on a Linux server, prepare the server:

- Install Red Hat or Ubuntu on the server.
- Install KVM and QEMU on server.
- Connect the Linux Server system to an external switch.

Obtaining the SMA 8200v Image

After purchasing SMA 8200v, you will receive an email with a serial number and Authentication Code. Log into mysonicwall.com (refer to Creating a MySonicWall Account) and navigate to the Download Center.

To download image:

1. Login to MySonicWall.com and then navigate to **My WorkSpace > Downloads Available**.



- 2. Click View All. The list of available downloads is displayed.
- 3. Identify the SMA 8200v product and click on the title; when the details appear, click on the download icon.
- 4. Keep the Serial number and Authentication code from the purchase confirmation email to complete product registration after the virtual firewall is installed.

Installing the SMA 8200v on Red Hat / Ubuntu-KVM/QEMU

To install SMA 8200v on Ubuntu-KVM/QEMU:

- 1. Download the SMA 8200v qcow2 or iso file to a local folder in the Linux Server system.
- 2. Copy image file (for example: "12.4.x-xxxx.qcow2 or 12.4.x-xxxx.iso") into the directory /var/lib/libvirt/images/
- 3. Launch the Virtual Machine Manger (VMM) utility 1.5.1 or higher on Linux machine.



4. Create a VM in the Virtual Machine Manager to receive the image file. To create a VM, click **File** and select **New Virtual Machine** option.



- 5. In the **Step 1** screen, start creating a new virtual machine ,choose the **Connection** as desired by user based on Ubuntu or Red hat kernel.
 - Select the Local install media (ISO image or CDROM option to browse the .iso file as installation media for installing operating system and click Forward to next screen.

RB	New VM	+ ×
P	Create a new virtual machine Step 1 of 5	
Conne	ection: QEMU/KVM	
Choo:	se how you would like to install the operating Local Install media (ISO image or CDROM) Network Install (HTTP, FTP, or NFS) Network Boot (PXE) Import existing disk image	system
	Cancel Sack For	ward

• Select the **Import existing disk image** option to browse the **.qcow2** image file for installing operating system and click **Forward** to next screen.

<i>100</i>	New VM + ×
Þ	Create a new virtual machine Step 1 of 4
Conne	ection: QEMU/KVM
Choos O O	e how you would like to install the operating system Local install media (ISO image or CDROM) Network Install (HTTP, FTP, or NFS) Network Boot (PXE) Import existing disk image
	Cancel 🛛 🐳 Back 🗭 Forward

6. In the **Step 2** screen, enter **Gen** and select **Generic default (generic)** option in the text box next to **Choose the operating system you are installing** field.

	Can't find the operating system you are looking for? Try selecting the next most recent version displayed, or use the "Generic" entry.	×
Ц	Sentoo Linux (gentoo)	
	eneric default (generic)	-
		1
a	Include end of life operating systems	
Cha		
4	Gen C	J
	utomatically detect from the installation media / source	
	Cancel Back Forward	

7. In the Step 2 screen, click Browse to locate the Installation media.

	New VM		×
	New VI-		-
Create a n	ew virtual mach	ine	
Step 2 of 5			
Choose ISO or CDR	OM install media:		
			Drougo
		-	PACC 11475-14
		•	Browse
		•	Browse
		•	Browse
		*	Browse
		•	browse
		·	Browse
Choose the operatin	ig system you are	nstalling:	Browse
Choose the operatir Q. Generic default	ig system you are t	nstalling:	Browse
Choose the operatir Q. Generic default	ig system you are t	nstalling:	
Choose the operatir Q. Generic default	ig system you are t stect from the inst	nstalling:	source

8. Select the installation media as .qcow2 and click Choose volume in the Choose Storage Volume screen.

NBI	Choose Storage Volume) o x
8% default Filesystem Directory	Size: 920.62 GiB Free / 86.31 GiB In Use Location: /var/lib/lib/lib/irt/images Volumes � C		
	Volumes 👻	Size	Form
	12. I I I I I I I I I I I I I I I I I I I	840.38 MiB	iso
	12.e. bitratie.qcow2	240.00 GiB	qcow:
	en_windows_7_enterprise_with_sp1_x64_dvd_u_677651.isd	2.96 GiB	iso
	Fedora-Workstation-Live-x86_64-32-1.6.iso	1.83 GiB	iso
	generic.qcow2	30.00 GiB	qcow.
	proxmox-ve_6.2-1.iso	862.54 MiB	iso
	rhel-8.2-x86_64-dvd.iso	7.86 GiB	iso
	SMA1000.qcow2	30.00 GiB	qcow.
	SMA500v_197.qcow2	30.00 GiB	qcow:
	SMA8200_KVM_248.qcow2	30.00 GiB	qcow:
₽	Browse Local Cancel	🖌 Choose V	olume



Click **Forward** for next screen.

9. In the **Step 3** screen, set the Memory and CPU settings, click **Forward**.

(i) NOTE: The recommended Memory is 8 GB (8192 MiB) and CPUs to be set as 4.

MOG	1	lew VM		+ ×
E s	Create a new tep 3 of 5	/ virtua	al machine	
Choose N	lemory and CP	U setting	ngs	
Memo	ry (RAM): 819	2 –	+	
	Up to	64324 Mi	liB available on the h	ost
	CPUs: 4	-	+	
	Up to	8 availab	ble	
	😢 Cance	1	🗢 Back 📄 🗭 Fo	rward

10. In the Step 4 screen, set the disk image for the virtual machine.
(i) NOTE: The recommended volume is 250 GB.

NI	New VM	•	×
Þ	Create a new virtual machine Step 4 of 5		
Er •	The storage for this virtual machine Create a disk image for the virtual machine - + GiB 920.6 GiB available in the default location		
O Ma	Select or create custom storage		
	Cancel 🔷 Back 🗣 For	ward]

11. In the **Step 5** screen, enter the desired name for the virtual machine and enable **Customize configuration before install** option.

MID	New VM + ×
Cre Step	eate a new virtual machine
Ready to be	gin the installation
Name:	SMA1000-8200V-KVM
OS:	Generic
Install:	Local CDROM/ISO
Memory:	8192 MiB
CPUs:	4
Storage:	
	Customize configuration before install
Network	selection
	Cancel 🖨 Back

- 12. In the Step 5 screen, click Finish.
- 13. Click Add Hardware to deploy additional NIC for X0 and X1.

Overview	Basic Details	
CPUs	Name:	SMA1000-8200V-KWM
Memory	UUID:	b2062964-9c83-4604-aecb-b10e7be169e4
Boot Options	Status:	Shutoff (Shut Down)
IDE Disk 1	Title:	
IDE CDROM 1	Description	
NIC :81:de:50	Description.	
Display Spice		
Sound ich6		
Console	Hypervisor D	etails
Channel spice	Hypervisor:	KVM
Video QXL	Architecture:	x86_64
Controller USB 0	Emulator:	/usr/bin/kvm-spice
USB Redirector 1	Firmware:	BIOS -
USB Redirector 2	Chipset:	1440FX 👻

14. Select the desired network interface for X0 and X1 under **Network** option and set the **Device model** to "virtio".

NI		Add New Virtual Hardware	+ ×
	Storage Controller Network Input Graphics Sound Serial Parallel Console Channel USB Host Device PCI Host Device	Add New Virtual Hardware Network Network source: Host device ens160: macvtap Source mode: Bridge In most configurations, macvtap does not work for host to guest network communication. MAC address: \$2:54:00:02:51:53 Device model: virtio Virtual port	•
	Watchdog Filesystem Smartcard USB Redirection TPM RNG Panic Notifier	Cancel 🗸 F	inish

- (i) **NOTE:** By choosing virtio, the VirtIO API is enabled. For more details on VirtIO, see Paravirtualization.
- 15. Click Finish.
- 16. Select **Display Spice** option and create a new VM with the **Type** set as **VNC server**. Otherwise you may not be able to use the keyboard with the new VM.
 - () NOTE: In the above dialog box, Spice refers to the Simple Protocol for Independent Computing Environment. In this context a Spice Display is one that can be accessed remotely through a standard protocol.

KI		SMA1000-8200V-K	WM on QEMU/KVM
🧹 Begin Installation 🌘	Cancel Instal	llation	
Overview	Spice Serve	r	
CPUs	Туре:	VNC server	*
Memory	Listen type:	Spice server	
Boot Options	Addross	VNC server	
IDE Disk 1	Address:		<u>—</u>
IDE CDROM 1	Port:	🗹 Auto	
NIC :81:de:50	Password:		
NIC :02:51:53		Show password	
Display Spice	Keymap:		-
Sound ich6			
Console			
Channel spice			

17. Click on **Begin Installation** to deploy SMA1000 8200v on KVM. The Virtual machine is created.



18. Log in as a **root** user.



19. Run through the setup tool for setting up X0 Network interface for Administration access.



20. Run through setup wizard for X1 Network interface for Workplace access. In the **Welcome** screen, click **Next**.

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 Settinge	and time. Set the name of the appliance, which is used in log files, and the IP
Routing	Network Settings.	address and subnet mask for the internal and external network interfaces.
Name Resolution	Routing:	Configure the gateways for internal and external network traffic.
	Name Resolution:	Configure the domain name of the network to which the appliance will be connected and the internal DNS.
Completion	User Access:	Create a basic security policy. You can change it later in the Appliance Management Console (AMC).
	After you complete the Setup Wizard:	
	 You will be redirected to AMC. To log in, type "admin" in the Username box, and the enter the administrator password that you set on the Basic Settings page. 	
	 Register your appliance on MySonicWall, Registration gives you access to essential resources, such as your license file and updates. In order to register, you need both the serial number for your appliance, and its authentication code, which is visible on the General Settings page in AMC. 	
		Cancel < Back Next >

21. In the License Agreement screen, select I accept the terms of the license agreement option and click Next.

	License Agreement		
License Agreement	To continue with setup, you must accept the terms of the End User License Agreement. Please		
Basic Settings	read the agreement carefully.		
Network Settings	PLEASE READ THIS AGREEMENT CAREFULLY BEFORE USING THIS PRODUCT. BY		
Routing	DOWILGAUING, INSTALLING ON USING INIS PRODUCT, TOU ALCEPT AND AGREE TO THE TERNS AND CONDITIONS OF THIS AGREEMENT. FOR DELIVERIES OUTSIDE THE UNITED STATES OF AMERICA, PLEASE GO TO HTTPS://MAN.SONICGAUL.COV/LEGAL/EMPA.ASPX TO VIEW THE APPLICABLE		
Name Resolution	VERSION OF THIS AGREENENT FOR YOUR REGION. IF YOU DO NOT AGREE TO THE TERNS AND CONDITIONS OF THIS AGREEMENT OR THE APPLICABLE VERSION OF THIS AGREEMENT FOR YOUR REGION, DO NOT DOWNLOAD, INSTALL OR USE THIS		
User Access	PRODUCT. This SonicWall End User Product Agreement (the "Agreement") is made		
Completion	between you, the Customer ("Customer" or "You") and the Provider, as defined below.		
	 Definitions. Capitalized terms not defined in context shall have the meanings assigned to them below: 		
	(a) "Affiliate" means any legal entity controlling, controlled by, or under common control with a party to this Agreement, for so long as such control enablished by store.		
	Print		
	I accept the terms of the license agreement		
	I do not accept the terms of the license agreement		
Sonic wall '			
SECURE MOBILE ACCESS	Cancel Cancel Next >		

22. In the **Basic Settings** screen, under **Central Management** group, select **Configure this machine** as SMA appliance for standalone appliance.

OR

Select **Configure this machine as a CMS** to manage the licensing and configuration up to 100 SMA appliances.

23. Set the password and time zone as per your requirements and click **Next**.

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 loon
Completion	Enter 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
Sonic wall '	
SECURE MOBILE ACCESS	Cancel Cancel Next >

24. Based on the **Central Management** option selected in the above screen, Interface is automatically selected.

Click Next.

	Network Settings Enter a name to identify your appliance as well as the IP address and subnet mask for the internal and external network interfaces. If you are using a single gateway in your DMZ, you should select "Single Interface".		
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.	18	
	External Interface		
	IP address: * This is the interface	connected	
	Subnet mask: * to the Internet.		
onic wall '			
	Cancel (< Back	Next >	

25. In the **Routing** screen, set the external gateway for X1 interface.

	Routing Network traffic is first sent to a static route (configured later in AMC) if one exists for the destination. If there is no route, traffic is sent to the dateway you specify here.		
	If you plan to access AMC from a co	mouter on a different subnet than the appliance	
	If you plan to access AMC from a computer on a different subnet than the appliance (), you must use an default gateway that will pass traffic to that subnet. Alternatively, you can define a static route later in AMC to the subnet from which th		
Routing	appliance is to be accessed.		
	Routing mode:		
Name Resolution	Default gateway 🗸 🗸		
User Access	Default gateway IP address: *	This gateway is used for all network traffic. It must be	
6 I.V.		on the same subnet as the internal () interface.	
Completion			
ONIC WALL			

26. In the **Name Resolution** screen, set the domain as per your requirements.

Welcome	Name Resolution		
License Agreement	Specify the domain in which the appliance is located and the primary DNS server used for		
Basic Settings	name resolution. This allows the appliance to reach resources on your internal network by name.		
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			
SONICWALL			
SECURE MOBILE ACCESS		Cancel < Back Next >	

27. In the User Access screen, select the Access Methods and Access Policy based on your need.



28. In the **Completion** screen, evaluate the settings and click **Finish** to complete the setup wizard.

Welcome	Completion		
License Agreement	You have successfully completed the Setup Wizard. To apply your settings, click Finish . After your settings have been applied, you will be directed to ANC where you can looin using the password you supplied earlier.		
Basic Settings			
Network Settings	Appliance Settings		
Routing	Date and time:	09:18:57 GMT	
Name Resolution	Appliance name: Internal interface:	SMAAppliance	
User Access	External interface:	Disabled	
Completion	Default domain:	engineering.blr	
	DNS server:	O-Deres d Trend disable d	
	Agence policy	Allow with entireted users access to all defined recourses	
CONTONALL			
SONICWALL			
SECURE MOBILE ACCESS		Cancel Cancel Finish	

Licensing and Registering Your SMA Appliance

This section contains information about licensing and registering your SMA 8200v on KVM.

Licensing is controlled by SonicWall's license manager service, and customers can add licenses through their MySonicWall accounts. Unregistered units support the default license allotment for their model, but the unit must be registered in order to activate additional licensing from MySonicWall.

Registering the SMA Appliance

After you have installed and configured the network settings for your SMA 8200v on KVM, you can log into the management console and register it to your MySonicWall account. Registration of your SonicWall SMA 8200v on KVM follows the same process as for other SonicWall hardware-based appliances.

(i) **NOTE:** System functionality is extremely limited when registration is not completed.

To register your SMA 8200v for KVM:

- 1. Log in to your SMA 8200v virtual machine.
- In the System Configuration group, select General Settings > Licensing > Edit. The Manage Licenses page is displayed.

<≡ Secure Mobile Access				
Manage Licenses				
Review and manage the soft	ware licenses for the appliance.			
Product:	SonicWall Secure Mobile Acce	ss 8200v		
License holder:	SonicWall Engineering			
Central user licenses:	Full: 50 Email: 50			
Appliance serial number:				
Authentication code:				
COMPONENT		LICENSE TYPE		
Email license		Leased License - expires Wed Feb 10 2000		
Advanced End Point Control		Leased License - expires Wed Feb 10 2000		
FIPS		Leased License - expires Wed Feb 10 2020		
Base license		Leased License - expires Wed Feb 10 2000		
		Cancel Import License		

- 3. In the Manage License page, click Import License.
- 4. In the **Import License** page, click **Choose File** to select the license file and click **Upload**. The License file is uploaded into the appliance.
- 5. You have successfully registered your 8200v virtual machine. Click **Continue** to view the **License Management** screen or continue configuring other settings within the appliance.

Verifying the Installation

1. Log in to AMC using the credentials that you entered in the setup wizard.



2. Verify the Hypervisor platform. This should display as KVM.



Using the Virtual Console

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To connect to the management console through the Virtual Machine Manager:

1. Bring up the VMM, then double click on the deployed KVM SMA 1000 Virtual Appliance.



2. Wait for the SMA appliance to boot to the command line in the **Virtual Machine Connection** window and then login as *root* with the password: *password*

Virtual Console of Red Hat



Virtual Console of Ubuntu



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 KVM Getting Started Guide Updated - January 2024 Software Version - 12.4 232-005706-00 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