# How to set up ingate software siparator / firewall on vmware step by step.

- 1. First you need to get a license code from Ingate sales.
- 2. Create an account on Ingate web <u>www.ingate.com</u> or log in with the account you already have.
- 3. Download the ISO file from Ingate web



#### Ingate Account Login

Log in and access the following resources and downloadable information for the installation, configuration and use of Ingate products.

- Software upgrades
- Activate licenses
- Register units
  Documentation

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Username				
Password				
Login	Create account. Forgot your password?	-	4	



Ingate Modules and Licenses



## inGate<sup>\*</sup>

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New account:				How To Guides
Username:				Startup Tool guide
Password:				
Verify password:				READ MORE
Account info:				Ingate Modules and Licenses
Company:				
Country:				
Contact person:				
Email:				
Role:	End user	•		
Email preferences				
Send email whe	n services on registered units	expire		
Jag är inte e	en robot reCAPTCHA Seloretess - Vilkor			
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		Support?   Helpdes	k!	
Ri	ssneleden 45 SE-174 44 Sund	lbyberg Sweden   info	@ingate.com	Contact us   Home
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#### Ingate Account Home Page

#### Manage Account

Change contact information or password

#### Manage Ingate Appliances

- <u>Register a new unit</u>
   <u>Download upgrades</u>
- Download IDS/IPS Rulepacks
- Activate licenses

#### **View Documentation**

- Product Manuals
- . Application Notes and How to Guides
- Ingate Startup Tool Guide

#### Software SIParator/Firewall - For Use on Virtual Machines

- Download the Software SIParator/Firewall (8 downloads made)
   Register the Software SIParator/Firewall after installation
- Activate licenses for a Software SIParator/Firewall

#### Startup Tool

- Download new Startup Tool TG (SUT TG) [Recommended]
   Download previous Startup Tool (SUT) [No longer recommended]
   Ingate Startup Tool Guide

#### My Ingate Units

Note: Purchase of a year of upgrade rights does not give entitlements of one additional year beyond the current date, but one year to the date of the entitlements' current expiry.

# in**G**ate<sup>.</sup>

#### Download the Software SIParator/Firewall

You need to buy a license code to download and use the Software SIParator/Firewall. Enter the license code here to proceed with the download.

License codes must be entered in their supplied format: XXXX-XXXX-XXXX. Please contact Ingate at <u>sales@ingate.com</u> for more information.

Your license code: 8N8J-P5TY-2NQJ

#### OPTIONS

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Upload the ISO file to your VMware host.

vmware ESXi								
Navigator		Sakana.ingate.se - Storage						
✓ ☐ Host Manage		Datastores Adapters De	vices	hrnwcar Roffish				
Monitor			and an I B. register a fill rid Datastore		Consetto		Durational	
Virtual Machines	18	Name		<ul> <li>Drive Type</li> </ul>	✓ Capacity		Provisioned V	Free Viype
Storage		E vou store1	atastore browser	Non-SSD	3.63 TB	_	2.08 IB	1.55 TB VMFS5
			🔮 Upload	ete 🔒 Move 🏠 Copy	👛 Create directory	C Refresh	·	
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		🎝 Musik	License Code and Activation.pdf	2018-02-02 10:06	Adobe Acrobat D			
		Skrivbord	new.txt	2018-02-02 10:04	Textdokument			
		Lokal disk (C:)						
		Ny volym (E:)						
		decomparts ())						
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		➡ rolf (\\192.168.2.						
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		Make Directory	None	root		02/02/2018 10	20:11 02/02/	2018 10:20:11 O Come

When uploaded you can start the installation

vmware <sup>-</sup> ESXi <sup>-</sup>				
Navigator	👸 Sakana.ingate.se - Virtual Machines			
✓ ☐ Host Manage Monitor	Create / Register VM	wer on Power off Suspend C Refres	sh   Actions	Guest OS
Virtual Machines	New virtual machine	lect creation type	122.00	
	2 Select a name and guest OS 3 Select storage 4 Customize settings 5 Ready to complete De Re	would you like to create a Virtual Machine? iate a new virtual machine ploy a virtual machine from an OVF or OVA file gister an existing virtual machine	his option guides you through crea machine. You will be able to custon network connections, and storage. guest operating system after creation	ating a new virtual hize processors, memory, You will need to install a n.
				, 1 6 3
	Task		Back Next	Finish Cancel





Customize your VM.

You need Minimum 2 NICs, after Ingate software version 6.1.1 you can add more NICs later, You need minimum 6 GB disk space if you want to log to the disk. If you want to log to RAM you need minimum 1 GB disk, we recommend minimum 1 GB RAM.



Under CD/DVD browse your ISO file

vmware ESXi			
Navigator	🚰 Sakana.ingate.se - Virtual Machines		
▼ Host Manage Monitor	😭 Create / Register VM 📔 🔐 Console 📔	Power on Power off II Susp	end   C Refresh   🔆 Actions
Virtual Machines 19 Storage 1 Storage 7	<ul> <li>I Select creation type</li> <li>2 Select a name and guest OS</li> <li>3 Select storage</li> </ul>	Ready to complete Review your settings selection before	e finishing the wizard
	□ ✓ 4 Customize settings	Name	Ingate sw installation guide
	5 Ready to complete	Datastore	datastore1
		Guest OS name	CentOS 4/5 or later (64-bit)
		Compatibility	ESXi 6.5 virtual machine
		vCPUs	1
		Memory	2048 MB
		Network adapters	2
		Network adapter 1 network	VM Network
		Network adapter 1 type	VMXNET 3
		Network adapter 2 network	VM Network
		Network adapter 2 type	VMXNET 3
		IDE controller 0	IDE 0
		IDE controller 1	IDE 1
		SCSI controller 0	VMware Paravirtual
		SATA controller 0	New SATA controller
	Qu	Hard disk 1	
		Capacity	6GB
		Datastore	[datastore1] Ingate_sw_installation_guide
	Task	Mode	Dependent
		Provisioning	Thick provisioned, lazily zeroed
	Villivvare	Controller	SCSI controller 0 : 0
		CD/DVD drive 1	
			Back Next Finish

## Power on the Machine



Continue the Installation from the Console. Open the console be sure to allow popup windows.





vmware <sup>,</sup> ESXi <sup>*</sup>			
Navigator	lngate_sw_installation_guide		
	Console Monitor Prove Provide State State The State State State Notes to the State State State State State State State State Notes State State State State Notes State	er on 📮 🖡	Power off  Suspend Reset Power off Suspend Reset Power off Suspend Reset Power off Suspend Reset Power of Reset
	VMware Tools is not installed in	this virtu	Ingate Systems HB (L) 2018
			- Ingate EULA
	✓ General Information		Use PgUp/PgDn keys to scroll through the EULA.
	Networking	No net	Ingate End User License Agreement
	William Tools	Not ins	ingate and user areans ingreenent
	Storage     Notes	1 disk	BY DOWNLOADING, INSTALLING, COPYING OR OTHERHISE USING The Softhare, you agree to be bound by the terms of this agreement.
	Performance summary last hour     100     2     30		LIMITED WARRANTY INFORMATION Software: Ingate Systems AB, Rissneleden 45, SE-174 44 Sundbyberg, Sweden ("INGATE") warrants to Customer that the INGATE software will perform in substantial conformance to applicable INGATE published program specifications for a period of one (1) year (365 days) after the date of original delivery from INGATE or its (Accept ) (Decline)
	Tack		
	Create VM		

Ingate_sw_i	installation_guide 🖬 🖬 🛱 Actions (
Ingate Sy	ystems AB (C) 2018
1	Product Type
	Please select product type (Note: The product type can be changed from GUI after the installation).
	() 1 SIParator (*) 2 Firewall
	<pre>     Cancel&gt; </pre>

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Ingate 5	USCEMS HD (C) 2010	·
	Log Selection Please select how the system logs should be stored.	
	() 1 Non-persistent (Logging to RAM) (*) 2 Persistent (Logging to Disk)	
	<mark>&lt; <u>D</u>K → <cancel></cancel></mark>	
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■ Ingate_sw_ Ingate S	installation_guide ystems AB (C) 2018 Hard Disk Selection Setup has detected the following hard disk(s). Select the disk that you want to use for the installation (Note: Only hard disks with sufficient disk space are shown). (*) Sda 6442MB	Actions ⊗
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Ingate Sy		
	Hard Disk Selection -	1
	ALL EXISTING data on /dev/sda will be REMOVED! Are you sure that you want to continue?	
	⟨Continue⟩ < Abort >	
		.::
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	Network Device Selection	1
	Satur has detected the following network devices Sale	
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	Setup has detected the following network devices. Sele the device that you want configure.	ct
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Ingate Sy	ISTEMS HUG (G) ZU	118	
	Ne Please enter a	etwork Setup (Interface eth0) an IP address and a subnet mask.	
	IP addross'	19 48 11 96	
	Netmask/hits	255, 255, 0, 0	
		20012001010	
		< <u>OK</u> <cancel></cancel>	
			.::
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Ingate Sy	Stems AB (C) 2	d18	
		- Configuration Transport	1
	Please select interface.	the configuration transport for the web	
	If you choose certificate's number when c	HTTPS, make sure to verify that the Common Name (CN) equals to the serial onnecting to the unit.	
		(*) HTTP (not encrypted) () HTTPS (encrypted)	
		< <u>OK</u> <cancel></cancel>	

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	Configuration Host(s)	
	Do you want to manually configure from which computers	
	10.48.0.0/16.	
	< Yes > < No >	
1		
Ingate_sw_	installation_guide	🖬 🖬 📑 🙀 Actions 🛞
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	- Admin-Password	1
	Please enter a nassword for the "admin" user.	
	Password: *****	
	Confirm: ****	
	L	
	< OK > <cancel></cancel>	

Ingate_sw_	installation_guide	🖬 🖬 🔤 🏟 Actions ⊗
Ingate S	ystems AB (C) 2018	
	Ingate 6.1.1	1
	The setup has gathered enough information in order to able to perform the installation to disk.	be
	Do you want to start the installation?	
	<mark>&lt;⊻es&gt;</mark> <abort></abort>	-
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Ingate S	ustems AB (C) 2018	
	- Ingate 6.1.1	_
	Creating filesystems	
	259	1
	23%	
-		

## Before you press ok be sure to remove the ISO file from boot.

Bedit settings - Ingate_sw_installation	_guide (ESXi 6.5 virtual machine)	w_installation_guide	
Virtual Hardware VM Options			
🔜 Add hard disk 🛛 🛤 Add network ad	apter 🗧 Add other device	Systems AB (C) 2018	
CPU	1 🔻 🚺		
Memory	2048 MB V		
Hard disk 1	6 GB 🔻 😒	- Ingate 6.1.1	
► SCSI Controller 0	VMware Paravirtual	The installation completed successfully!	
SATA Controller 0	8	Please remove the installation CD and press 'Ok' to reboot the machine.	,
USB controller 1	USB 2.0 🔻 🛞		
Network Adapter 1	VM Network 🔻 🧭 Connect		
Network Adapter 2	VM Network 🔻 🧭 Connect		
▼ <sup></sup>	Datastore ISO file 🔹 😒		
Status	Connect at power on		
CD/DVD Media	[datastore1] ISOs/RolfNewISO6.1.1/ingate-6-1-1-2018 Browse		
	Save Can	Cel Resource Consumption	
Ingate sw instal	lation guide		Actions
Software SIPa	arator/Firewall/6.1.1 88E0-	C9A2-36C8-58AD-C56A-910D	
security.syst	tem login: _		
-			

When you come to login you are finished with the installation.

You can now go to the web interface by typing the IP address you chose in a browser.

$\leftrightarrow$ $\Rightarrow$ C	🗘 🛈 Inte säker   10.48.11.96
inGa	te Firewall
Administratio	on About
You were n Local pass	ot logged on. word
Username:	admin
Password:	•••••
Log in	
Page generate	d 2018-02-08 13:59:24 +0000.
Software SIPa	arator/Firewall 6.1.1. Copyright © 2018 Ingate Systems AB.

Log in and click on Administration.

Before 6.1.1 you need to register your unit and activate the license, but now we will do these 2 steps automatically in next step by **Fetch licenses.** Use your **Ingate WEB login** and put in the license code and click Fetch

Skip these 2 steps, by Fetch the license it will do it automatically.





Logged in as admin (Full Access) using local password.

<u>Administration</u>
 <u>Upgrade</u>

Page generated for 'admin' 2018-02-08 14:00:47 +0000. Software SIParator/Firewall 6.1.1. Copyright © 2018 Ingate Systems AB.

Your browser needs Internet connection to be able to Fetch Licenses, if you don't have Internet you need to register your unit on Ingate WEB and also activate the license.

← → C ① Inte säker   10.48.11.96/#pos
in Cate Firewall Log Out
Administration About
Upgrade
License Information
Serial number: 88E0-C9A2-36C8-58AD-C56A-910D Installation ID: 203ef75d0f29b79d86638e92f7150625b1ca490c MAC address: 00:0c:29:d0:d8:05
Upgrade
To upgrade to a new version, apply a patch or add new licenses, specify the filename of the upgrade file below and press "Upgrade". Please make sure that you have read the upgrade instructions before you upgrade.
Välj fil Ingen fil har valts Upgrade
Fetch Licenses
You can only fetch licenses if your browser has internet access.
Enter your credentials for your account at ingate.com.
Username: rolf@ingate.com
Password:
License code: MQEU-4C4W-RUQ8

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← → C ☆ ③ 10.48.11.96/#pos	
inGate Firewall Log Out	
Administration About	
License, Step 2	
<ul> <li>Processed license 1019063.</li> <li>The following actions will be taken when the license is appl <ul> <li>Install 10 Concurrent Calls SIP Trunk Sessions to SII</li> <li>The unit will have a total of 10 Concurrent Calls SIP</li> <li>Install 10 Remote User SIP Sessions.</li> <li>The unit will have a total of 10 Remote User SIP Sess</li> <li>Install 10 SIP Registrar Users.</li> <li>The unit will have a total of 10 SIP Registrar Users.</li> <li>Install a Base license.</li> <li>Set the Serial number to IG-200-806-4001-2.</li> </ul> </li> </ul>	ied: P Trunk 1 Trunk Sessions. ions.
Apply the license	Remove the license
To apply the license you just uploaded, press "Apply license".	To remove it, press "Remove license".
Apply license	Remove license

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Click Apply

← → C ☆ ③ Inte säker   10.48.11.96/#pos
in Cate Firewall Log Out
Administration About
Upgrade
License Information
Serial number: 88E0-C9A2-36C8-58AD-C56A-910D Installation ID: 203ef75d0f29b79d86638e92f7150625b1ca490c MAC address: 00:0c:29:d0:d8:05
Upgrade
<ul> <li>Install 10 Concurrent Calls SIP Trunk Sessions to SIP Trunk 1</li> <li>The unit will have a total of 10 Concurrent Calls SIP Trunk Sessions.</li> <li>Install 10 Remote User SIP Sessions.</li> <li>The unit will have a total of 10 Remote User SIP Sessions.</li> <li>Install 10 SIP Registrar Users.</li> <li>The unit will have a total of 10 SIP Registrar Users.</li> <li>Install a Base license.</li> <li>Set the Serial number to IG-200-806-4001-2.</li> <li>Please wait while the licenses are installed</li> </ul> To upgrade to a new version, apply a patch or add new licenses, specify the filename of the upgrade file below and press "Upgrade". Please make sure that you have read the upgrade instructions before you upgrade.
Välj fil Ingen fil har valts Upgrade
Fetch Licenses
You can only fetch licenses if your browser has internet access.
Enter your credentials for your account at ingate.com.
Username:
Password:
Each Fetch

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## Now you are done click administration.

← → C ☆ ③ Inte säker   10.48.11.96/#pos
Administration
Upgrade
License Information
Serial number: 88E0-C9A2-36C8-58AD-C56A-910D Installation ID: 203ef75d0f29b79d86638e92f7150625b1ca490c MAC address: 00:0c:29:d0:d8:05
Upgrade
License 1019063 has been installed.
To upgrade to a new version, apply a patch or add new licenses, specify the filename of the upgrade file below and press "Upgrade". Please make sure that you have read the upgrade instructions before you upgrade.
Välj fil Ingen fil har valts Upgrade
Fetch Licenses
You can only fetch licenses if your browser has internet access.
Enter your credentials for your account at ingate.com.
Username:
Password:
License code:
Fetch

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← → C ☆ () Inte säker   10.48.11.96/#pos										
in©ate	ə Firewa	I							Lo	g Out
Administration	Basic Configuration	Network Ru	iles and S Relays Ser	SIP SIP vices Traffic	SIP Trunks	Failover	Virtual Private Networks	Quality of Service	Logging and Tools	About
Save/Load Configuration	Show Configuration	User Administration	Ti Upgrade L	able Date ar .ook Time	nd Restart	Change Language				
Upgrade	•									
To upgrade of the upgra the upgrade Välj fil Ing	to a new ver ade file belov e instructions gen fil har valt	sion, apply a w and press ' before you s	a patch or a 'Upgrade''. upgrade. Upgra	dd new lic Please mai de	enses, sp ke sure tl	ecify the hat you ha	filename ave read			
Fetch Li	censes									
You can on	ly fetch licen	ises if your b	rowser has	internet ac	cess.		_			
Enter your	credentials fo	or your accou	unt at ingat	e.com.						
Username:										
Password:										
License co	de:									
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Now you are finished and can start setting up your Ingate Software.

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← → C ☆ ③ 10.48.	1 <b>1.96</b> /#pos					
in©ate Firewall	Log Out					
Administration Basic Configuration	letwork Rules and SIP SIP SIP Failover Virtual Private Quality of Logging About Networks Service and Tools About					
Device Information						
Model:       Software SIParator/Firewall         Serial number:       IG-200-806-4001-2         Software version:       6.1.1         Mode:       Firewall         Hardware model:       200         Amount of installed interfaces:       2         More about Software SIParator/Firewall         Installed Patches						
Name: RolfLin	letres					
Name:Rolf LindstrmEmail:rolf@ingate.comInstallation ID:203ef75d0f29b79d86638e92f7150625b1ca490cMAC Address:00:0c:29:d0:d8:05						
Licenses 10 SIP Registrar Users 10 Concurrent Calls SI 10 Remote User SIP Se 1 Trunk Group Trunk Group 1 can have	P Trunk Sessions (of max 2000) ssions (of max 2000) e max 10 Concurrent Calls SIP Trunk Sessions					
Included Modules						
<ul> <li>Standard SIP features</li> <li>SIP Trunking</li> <li>Advanced SIP Routing</li> <li>VoIP Survival</li> <li>Enhanced Security</li> <li>VPN (IPsec and PPTP)</li> <li>QoS</li> </ul>						

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