



# HOW TO GUIDE

FortiGate VM Sizing Guide



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	<u>FG-VM01/01V</u>	<u>FG-VM02/02V</u>	<u>FG-VM04/04V</u>	<u>FG-VM08/08V</u>
vCPU (min/max)	1/1	1/2	1/4	1/8
Storage	32Gb/2TB	32Gb/2TB	32Gb/2TB	32Gb/2TB
Firewall throughput	12Gbps	13.7Gbps	20Gbps	30Gbps
SSL VPN Throughput	0.8Gbps	0.8Gbps	2Gbps	4.5Gbps
SSL VPN Users	1000	2000	4500	10000
Threat Protection	0.7Gbps	1.2Gbps	2.2Gbps	4.5Gbps
<b>FortiGate Equivalent</b>	<b>FG-60F</b>	<b>FG-100F - FG-200E</b>	<b>FG-300E</b>	<b>FG-400E</b>

	<u>FG-VM16/16V</u>	<u>FG-VM32/32V</u>	<u>VMUL/ULV</u>	
vCPU (min/max)	1/16	1/32	1/Unlimited	
Storage	32Gb/2TB	32Gb/2TB	32Gb/2TB	
Firewall throughput	36Gbps	50Gbps		
SSL VPN Throughput	8.5Gbps	8.6Gbps		
SSL VPN Users	20000	20000		
Threat Protection	7Gbps	13Gbps		
<b>FortiGate Equivalent</b>	<b>FG-600E</b>	<b>FG-600E - 1100E</b>		

## NOTES

- Minimum recommended memory requirements 8Gb
- Actual performance may vary depending on the network and system configuration/platform. Performance metrics were observed using a DELL R740 (CPU Intel Xeon Platinum 8168 @ 2.7 GHz, 96 cores, Intel X710 network adapters).
- Threat Protection performance is measured with IPS and Application Control and Malware protection enabled, based on Enterprise Traffic Mix.

## VDOM Support

- Fortigate VMxx units include 10 VDOMs as standard
- Fortigate VMxxV units have NO included VDOMs

## Network Interface Support

The maximum number of network interfaces consumable by a FortiGate instance is 24 starting with FortiGate version 6.4.0. Prior versions allow 18. The minimum number is 1. The actual number of network interfaces attachable to instances will vary depending on cloud platforms and instance types, and they may not allow you to attach the greater number of interfaces to an instance than their maximum limits even while FortiGate allows up to 24.

## Questions to ask to help with sizing

- Number of users connected to the network, internal and remote. Estimated number of devices/BYOD
- Are there any servers that users are connecting to via the FortiGate, regard each server as +10 users.
- Are there any servers remotely accessed, i.e. used to upload files, web servers
- Number of interfaces required - is there a requirement for additional switches to extend the interfaces, manage APs etc
- Bandwidth of connection, both uplink and downlink. Is this an SD-WAN implementation

## Additional options

- WiFi requirements - how many access points are required to provide secure WiFi access
- FortiClient - provides remote VPN access, AV, Application firewall for end points
- Unmanaged FortiClient is free for VPN access, Manager requires FortiClient EMS
- 2 factor Authentication - Adds 2FA to user authentication via Hardware or Software token



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