



FortiMail AWS Sizing Guide

FortiMail VM



Email has long been a favorite attack vector of cybercriminals and is often an early stage of advanced threats. But not only do you need to keep threats from getting in, you need to keep data from getting out. The Fortinet email security solution has the highly effective, yet easy-to-use inbound and outbound protection you need.

The FortiMail VM is available in sizes to suit every type of deployment. Available on AWS by means of the bring-your-own-license (BYOL) model, it provides scalable security for both organizations and service providers of every size. FortiMail prevents your email systems from becoming threat delivery systems. Its inbound filtering engine blocks spam and malware before it can clog your network and affect users. Its outbound inspection technology prevents other anti-spam gateways from blacklisting your users by blocking outbound spam and malware, including mobile traffic.

In addition to FortiGuard antivirus, FortiMail supports onboard code emulation to identify and block suspicious files based on their intended behavior. Optional cloud-based sandboxing provides a full, contained run-time environment to thwart the highly targeted and tailored attacks that increasingly bypass traditional defenses. Rich threat intelligence, actionable insight, and the option to share information with FortiGuard Labs in order to receive automated protection updates help organizations reduce the risk of compromise and breach from such sophisticated attacks.

Supported Deployment Types

FortiMail supports a multitude of deployment methods and is supported across various private and public cloud deployments. FortiMail is available on AWS through the BYOL model.

LICENSING AND SIZING OPTIONS

BYOL

BYOL is ideal for migration use cases, where an existing private cloud deployment is migrated to a public cloud deployment. When using an existing license, the only additional cost would be the price for the AWS instances.

Under the BYOL model, there are presently seven VM models:

Type	Max CPU	Max Memory	Max Storage	Deployment Sizes
FML-VM-00	1	2 GB	1 TB	<100 Users
FML-VM-01	1	2 GB	1 TB	<400 Users
FML-VM-02	2	4 GB	2 TB	<1,000 Users
FML-VM-04	4	8 GB	4 TB	<3,000 Users
FML-VM-08	8	16 GB	8 TB	Large Deployments
FML-VM-16	16	128 GB	12 TB	Large Deployments
FML-VM-32	32	128 GB	24 TB	Large Deployments

When deploying these on AWS, there are various supported instance size options.

About EC2 Sizes

AWS offers various EC2 sizes (e.g., c4.large, c4.xlarge, c4.2xlarge, and so on). Each size refers to a specific configuration in terms of processor, cores, memory, etc. For more detailed information about EC2 sizes, refer to Amazon's latest EC2 sizing chart.

The FortiMail VM is supported in the following EC2 instance types:

EC2 Instance Type	vCPU	Memory(GB)
m4.large	2	8
m4.xlarge	4	16
m4.2xlarge	8	32
m3.medium	1	3.75
m3.large	2	7.5
m3.xlarge	4	15
m3.2xlarge	8	30
c4.large	2	3.75
c4.xlarge	4	7.5
c4.2xlarge	8	15
c3.large	2	3.75
c3.xlarge	4	7.5
c3.2xlarge	8	15

CHOOSING EC2 INSTANCE TYPES

Below are some of the key offerings of the two supported instance types.

M4 INSTANCES

M4 instances are general-purpose instances designed to provide a good balance of memory, CPU, and networking. They are ideal for both mid-size databases and memory-hungry data processing tasks. Overall, these instances provide the lowest-cost options. M4 instances support SR-IOV and so have higher network performance throughput than M3 instances.

- Processor – Intel Xeon E5-2676 v3
- Storage – EBS
- SR-IOV/Enhanced Networking – Supported

M3 INSTANCES

M3 instances are general-purpose instances designed to provide a good balance of memory, CPU, and networking. They are ideal for both mid-size databases and memory-hungry data processing tasks. Overall, these instances provide the lowest-cost options. M3 instances do not support SR-IOV and so have lower network performance throughput than C3 instances.

- Processor – Intel Xeon E5-2670
- Storage – SSD
- SR-IOV/Enhanced Networking – Not Available

C3 INSTANCES

C3 is a compute optimized instance, and it is designed for compute-intensive applications including distributed analytics. It has a higher ratio of vCPUs to memory. C instances provide the lowest cost per vCPU in AWS. C3 instances support SR-IOV and hence are great for high network throughput.

- Processor – Intel Xeon E5-2680 v2
- Storage – SSD
- SR-IOV/Enhanced Networking – Supported

C4 INSTANCES

C4 is a compute optimized instance, and it is designed for compute-intensive applications including distributed analytics. It has a higher ratio of vCPUs to memory. C instances provide the lowest cost per vCPU in AWS. C4 instances support SR-IOV and hence are great for high network throughput.



- Processor – Intel Xeon E5-2666 v3
- Storage – SSD
- SR-IOV/Enhanced Networking – Supported

When deciding on instance type for a BYOL use case, make sure that the AWS instance type and the FortiMail configurations match up well.

REFERENCES

- Fortinet AWS
<http://www.fortinet.com/aws>
- Amazon EC2 Instances
<http://aws.amazon.com/ec2/instance-types>

DON'T TAKE OUR WORD FOR IT – CHECK IT OUT YOURSELF

- Test drive an HA demo in AWS <http://www.fortinet.com/promo/aws-testdrive.html> 
- Fire up a free 15 day trial in Amazon Marketplace https://aws.amazon.com/marketplace/pp/B00PCZSWDA/ref=sp_mpg_product_title?ie=UTF8&sr=0-5 
- Call 1-866-868-3678 about EC2 proof of concept credits 
- Contact Fortinet AWS Sales awssales@fortinet.com 



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