FortiWeb AWS Sizing Guide
FortiWeb VM

Most organizations now realize that unprotected web applications are the easiest point of entry for even unsophisticated hackers. The FortiWeb VM is a fully functional web application firewall that plays a key role in protecting applications from various forms of attacks and threat vectors.

Using an advanced multi-layered and correlated approach, FortiWeb provides complete security for your external and internal web-based applications from the OWASP Top 10 and many other threats. Our Web Application Security Service from FortiGuard Labs uses information based on the latest application vulnerabilities, bots, suspicious URL and data patterns, and specialized heuristic detection engines to keep your applications safe.

Additionally, FortiWeb's built-in antivirus and anti-malware services protect against known threats. FortiWeb's auto-learning behavioral detection engine and correlation engine help protect against the most sophisticated attacks and unknown threats. This combination provides near-100% protection from any web application attack, including zero-day threats that signature file-based systems can't detect.

Supported Deployment Types

With a multitude of deployment methods supported across various private and public cloud deployments, on AWS the FortiWeb VM is supported in two models:

- Pay-as-You-Go / On-Demand Model
- BYOL Model

CHOOSING BETWEEN BYOL AND ON-DEMAND

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 four VM models:

Type	Maximum CPU	Max Memory	Max Storage	Deployment Sizes
FWB-VM-01	1	Unlimited	2 TB	Small
FWB-VM-02	2	Unlimited	2 TB	Medium
FWB-VM-04	4	Unlimited	2 TB	Large
FWB-VM-08	8	Unlimited	2 TB	Very Large

When deploying these on AWS, there are various supported options for the instance sizes.

On-Demand Pricing

On-demand licensing is a highly flexible option for both initial deployments and growing them as needed. With a wide selection of supported instance types, there is a solution for every use case.

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 FortiGate 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 computed 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 computed 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 FortiWeb configurations match up well.

FortiWeb VMs on AWS are fully capable of auto scaling. Auto scaling helps you to scale your Amazon EC2 capacity up or down automatically based on need and predefined parameters.

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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