

How to Deploy the Barracuda Email Security Gateway on Amazon Web Services

<https://campus.barracuda.com/doc/41094833/>

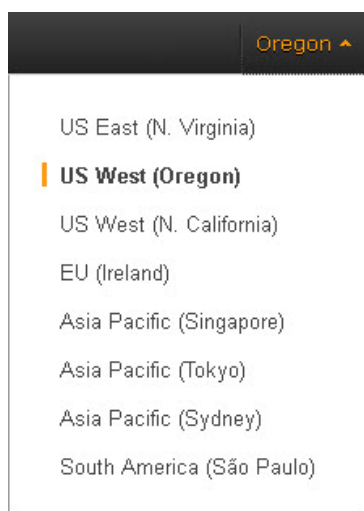
The Barracuda Email Security Gateway can be deployed as a virtual appliance in the Amazon cloud. To launch a Barracuda Email Security Gateway using Amazon Web Services, follow the steps in this guide to upload the Barracuda Email Security Gateway virtual appliance using your existing Amazon Web Services account. Then, continue with the [Barracuda Email Security Gateway Quick Start Guide for Amazon Web Services](#) for licensing and initial configuration of your virtual appliance. Amazon Web Services charges apply. For more information, see Amazon's monthly pricing calculator at <http://calculator.s3.amazonaws.com/calc5.html>.

Create a Persistent Public IP Address for Your Barracuda Email Security Gateway

When an instance of your Barracuda Email Security Gateway appliance is created, a public IP address is associated with the instance. However, this IP address can change if the instance is stopped. To create a persistent IP address, see [Configuring an Elastic IP Address for an Instance](#).

Launch the Barracuda Email Security Gateway Instance on Amazon Web Services

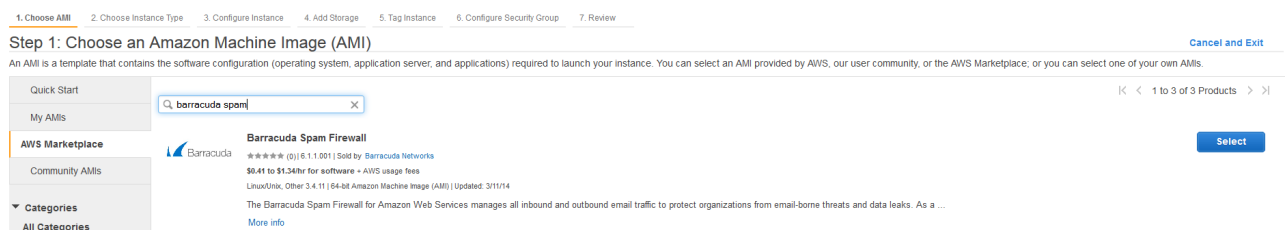
1. From the Amazon Web Services (AWS) Management Console:
 1. Log into the AWS Management Console and open the Amazon EC2 console at <https://console.aws.amazon.com/ec2/>.
 2. From the top right corner of the page, select the region for the instance. This is important because some Amazon EC2 resources can be shared between regions.



2. Click **Launch Instance**.



3. In **Step 1: Choose an Amazon Machine Image (AMI)** page, select **AWS Marketplace** and search for the *Barracuda Email Security Gateway* AMI. Click **Select** next to the Barracuda Email Security Gateway AMI.



4. In **Step 2: Choose an Instance Type** page, select an instance type from the **All Instance types** or **General purpose** table. Click **Next: Configure Instance Details** to continue.

See the [Amazon Web Services](#) article to verify the recommended instance type for your Barracuda Email Security Gateway sizing. Select the recommended instance type.

Important: If you need to add additional storage space after deployment, due to the Amazon Web Services (AWS) structure, the only current option is to redeploy and restore the configuration on a larger instance.

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Tag Instance 6. Configure Security Group 7. Review

Step 2: Choose an Instance Type

Amazon EC2 provides a wide selection of instance types optimized to fit different use cases. Instances are virtual servers that can run applications. They have varying combinations of CPU, memory, storage, and networking capacity, and give you the flexibility to choose the appropriate mix of resources for your applications. [Learn more](#) about instance types and how they can meet your computing needs.

Currently selected: m1.large (4 ECUs, 2 vCPUs, 7.5 GiB memory, 2 x 420 GiB Storage Capacity)

Note: The vendor recommends using a **m1.large** instance (or larger) for the best experience with this product.

All instance types

General purpose

All instances
Select an instance type to suit your requirements

Size	ECUs ⓘ	vCPUs ⓘ	Memory (GiB)	Instance Storage (GiB) ⓘ	EBS-Optimized Available ⓘ	Network Performance ⓘ
m1.medium	2	1	3.7	1 x 410	-	Moderate
m1.large	4	2	7.5	2 x 420	Yes	Moderate
m1.xlarge	8	4	15	4 x 420	Yes	High

M1, C1, M2 and H1 instances are based on Intel Xeon processors.
For M3, CC2 and CR1 instances, each vCPU is a hardware hyperthread from Intel Xeon E5-2670 processors.
For HS1 instances, each vCPU is a hardware hyperthread from Intel Xeon E5-2650 processors.
CG1 instances are backed by 2 x Intel Xeon X5570, quad-core with hyperthread plus 2 NVIDIA Tesla M2050 GPUs.
H1 instances can deliver more than 120,000 4 KB random read IOPS, and between 10,000 and 85,000 4 KB random write IOPS (depending on active logical block addressing span) to applications. The maximum sequential throughput is approximately 2 GB/s read and 1.1 GB/s write.
HS1 instances can deliver 2.4 GB/s of 2 MB sequential read performance, and 2.6 GB/s of sequential write performance.
Instances launched into the same cluster placement group are placed into a non-blocking 10 Gigabit ethernet network.

Cancel Previous **Review and Launch** **Next: Configure Instance Details**

5. In **Step 3: Configure Instance Details** page:

1. Enter the **Number of instances** you want to launch.
2. Select the appropriate **Network** from the list.
3. Select the appropriate **Subnet** from the list, or keep the default subnet.
4. In the **Advanced Details** pane, keep the default setting for all parameters and click **Next: Add Storage**.


1. Choose AMI 2. Choose Instance Type 3. **Configure Instance** 4. Add Storage 5. Tag Instance 6. Configure Security Group 7. Review

Step 3: Configure Instance Details

Configure the instance to suit your requirements. You can launch multiple instances from the same AMI, request Spot Instances to take advantage of the lower pricing, assign an access management role to the instance, and more.

Number of instances ⓘ 1

Purchasing option ⓘ ☐ Request Spot Instances

Network ⓘ vpc-e054c588 (172.31.0.0/16) (default)  [Create new VPC](#)

Subnet ⓘ No preference (default subnet in any Availability Zone) [Create new subnet](#)

Public IP ⓘ ☒ Automatically assign a public IP address to your instances

IAM role ⓘ None

Shutdown behavior ⓘ Stop

Enable termination protection ⓘ ☐ Protect against accidental termination

Monitoring ⓘ ☐ Enable CloudWatch detailed monitoring
[Additional charges apply.](#)

EBS-optimized instance ⓘ ☐ Launch as EBS-optimized instance
[Additional charges apply.](#)

Tenancy ⓘ Shared tenancy (multi-tenant hardware)
[Additional charges will apply for dedicated tenancy.](#)

► **Advanced Details**

[Cancel](#) [Previous](#) [Review and Launch](#) [Next: Add Storage](#)

6. In **Step 4: Add Storage** page, the table displays the storage device settings for the instance. Modify the values if required and click **Next: Tag Instance**.


1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. **Add Storage** 5. Tag Instance 6. Configure Security Group 7. Review

Step 4: Add Storage

Your instance will be launched with the following storage device settings. You can attach additional EBS volumes and instance store volumes to your instance, or edit the settings of the root volume. You can also attach additional EBS volumes after launching an instance, but not instance store volumes. [Learn more](#) about storage options in Amazon EC2.

Type ⓘ	Device ⓘ	Snapshot ⓘ	Size (GB) ⓘ	Volume Type ⓘ	IOPS ⓘ	Delete on Termination ⓘ
Root	/dev/sda	snap-f2e66ecd	50	Standard	N/A	<input checked="" type="checkbox"/>

[Add New Volume](#)

 Free tier eligible customers can get up to 30 GB of EBS storage. [Learn more](#) about free usage tier eligibility and usage restrictions.

[Cancel](#) [Previous](#) [Review and Launch](#) [Next: Tag Instance](#)

7. In **Step 5: Tag Instance** page, add/remove the tags for the instance (if required).

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Tag Instance 6. Configure Security Group 7. Review

Step 5: Tag Instance

A tag consists of a case-sensitive key-value pair. For example, you could define a tag with key = Name and value = Webserver. [Learn more](#) about tagging your Amazon EC2 resources.

Key (127 characters maximum)	Value (255 characters maximum)
Name	

[Create Tag](#) (Up to 10 tags maximum)

Cancel Previous **Review and Launch** **Next: Configure Security Group**

8. In **Step 6: Configure Security Group** page, choose **Select an existing security group** to select and assign the security group(s) from the existing list, or choose **Create a new security group** to create a new group (refer to [Creating a Security Group on Amazon Web Services](#) for more information). Click **Review and Launch**.

By default, the Barracuda Email Security Gateway web interface listens on port 8000 for HTTP and port 443 for HTTPS. Make sure these ports (8000 and 443) are added to the Inbound Rule of the security group associated with the Barracuda Email Security Gateway. Also add the port(s) through which you configure the Service(s) for this instance.

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Tag Instance 6. Configure Security Group 7. Review

Step 6: Configure Security Group

sg-id	sg-name	sg-description	sg-vpc-id	sg-revision	sg-owner-id	sg-creation-time	sg-update-time	sg-status	sg-protocol	sg-port	sg-action	sg-copy-to-new
sg-39bca05b	sg-39bca05b	sg-39bca05b	sg-39bca05b	sg-39bca05b	sg-39bca05b	sg-39bca05b	sg-39bca05b	sg-39bca05b	sg-39bca05b	sg-39bca05b	sg-39bca05b	sg-39bca05b
sg-916384fe	sg-916384fe	sg-916384fe	sg-916384fe	sg-916384fe	sg-916384fe	sg-916384fe	sg-916384fe	sg-916384fe	sg-916384fe	sg-916384fe	sg-916384fe	sg-916384fe
sg-adcb3bc8	sg-adcb3bc8	sg-adcb3bc8	sg-adcb3bc8	sg-adcb3bc8	sg-adcb3bc8	sg-adcb3bc8	sg-adcb3bc8	sg-adcb3bc8	sg-adcb3bc8	sg-adcb3bc8	sg-adcb3bc8	sg-adcb3bc8
sg-b53e23d7	sg-b53e23d7	sg-b53e23d7	sg-b53e23d7	sg-b53e23d7	sg-b53e23d7	sg-b53e23d7	sg-b53e23d7	sg-b53e23d7	sg-b53e23d7	sg-b53e23d7	sg-b53e23d7	sg-b53e23d7
sg-3962775b	sg-3962775b	sg-3962775b	sg-3962775b	sg-3962775b	sg-3962775b	sg-3962775b	sg-3962775b	sg-3962775b	sg-3962775b	sg-3962775b	sg-3962775b	sg-3962775b
sg-556ab37	sg-556ab37	sg-556ab37	sg-556ab37	sg-556ab37	sg-556ab37	sg-556ab37	sg-556ab37	sg-556ab37	sg-556ab37	sg-556ab37	sg-556ab37	sg-556ab37
sg-20d33145	sg-20d33145	sg-20d33145	sg-20d33145	sg-20d33145	sg-20d33145	sg-20d33145	sg-20d33145	sg-20d33145	sg-20d33145	sg-20d33145	sg-20d33145	sg-20d33145
sg-83eb1ae6	sg-83eb1ae6	sg-83eb1ae6	sg-83eb1ae6	sg-83eb1ae6	sg-83eb1ae6	sg-83eb1ae6	sg-83eb1ae6	sg-83eb1ae6	sg-83eb1ae6	sg-83eb1ae6	sg-83eb1ae6	sg-83eb1ae6
sg-3b26c75e	sg-3b26c75e	sg-3b26c75e	sg-3b26c75e	sg-3b26c75e	sg-3b26c75e	sg-3b26c75e	sg-3b26c75e	sg-3b26c75e	sg-3b26c75e	sg-3b26c75e	sg-3b26c75e	sg-3b26c75e
sg-ea29c88f	sg-ea29c88f	sg-ea29c88f	sg-ea29c88f	sg-ea29c88f	sg-ea29c88f	sg-ea29c88f	sg-ea29c88f	sg-ea29c88f	sg-ea29c88f	sg-ea29c88f	sg-ea29c88f	sg-ea29c88f
sg-a4110cc6	sg-a4110cc6	sg-a4110cc6	sg-a4110cc6	sg-a4110cc6	sg-a4110cc6	sg-a4110cc6	sg-a4110cc6	sg-a4110cc6	sg-a4110cc6	sg-a4110cc6	sg-a4110cc6	sg-a4110cc6
sg-768e7f13	sg-768e7f13	sg-768e7f13	sg-768e7f13	sg-768e7f13	sg-768e7f13	sg-768e7f13	sg-768e7f13	sg-768e7f13	sg-768e7f13	sg-768e7f13	sg-768e7f13	sg-768e7f13
sg-9b8d7cfe	sg-9b8d7cfe	sg-9b8d7cfe	sg-9b8d7cfe	sg-9b8d7cfe	sg-9b8d7cfe	sg-9b8d7cfe	sg-9b8d7cfe	sg-9b8d7cfe	sg-9b8d7cfe	sg-9b8d7cfe	sg-9b8d7cfe	sg-9b8d7cfe
sg-fc0d499	sg-fc0d499	sg-fc0d499	sg-fc0d499	sg-fc0d499	sg-fc0d499	sg-fc0d499	sg-fc0d499	sg-fc0d499	sg-fc0d499	sg-fc0d499	sg-fc0d499	sg-fc0d499
sg-4ab2422f	sg-4ab2422f	sg-4ab2422f	sg-4ab2422f	sg-4ab2422f	sg-4ab2422f	sg-4ab2422f	sg-4ab2422f	sg-4ab2422f	sg-4ab2422f	sg-4ab2422f	sg-4ab2422f	sg-4ab2422f
sg-3cd53d53	sg-3cd53d53	sg-3cd53d53	sg-3cd53d53	sg-3cd53d53	sg-3cd53d53	sg-3cd53d53	sg-3cd53d53	sg-3cd53d53	sg-3cd53d53	sg-3cd53d53	sg-3cd53d53	sg-3cd53d53

9. In **Step 7: Review Instance Launch** page, review your settings before launching the instance, and then click **Launch**.

Step 7: Review Instance Launch

Please review your instance launch details. You can go back to edit changes for each section. Click **Launch** to assign a key pair to your instance and complete the launch process.

⚠ Improve your instance's security. Your security group, Barracuda Spam Firewall-6-1-1-001-AutogenByAWSMP-1, is open to the world.

Your instance may be accessible from any IP address. We recommend that you update your security group rules to allow access from known IP addresses only. You can also open additional ports in your security group to facilitate access to the application or service you're running, e.g., HTTP (80) for web servers. [Edit security groups](#)

⚠ Your instance configuration is not eligible for the free usage tier

To launch an instance that's eligible for the free usage tier, check your AMI selection, instance type, configuration options, or storage devices. Learn more about [free usage tier](#) eligibility and usage restrictions. [Don't show me this again](#)

▼ AMI Details

[Edit AMI](#)

Barracuda Spam Firewall
[Copied ami-b6127b86 from us-west-2] Barracuda BSF (Hourly BarracudaSpamFirewall-vm4.0.3-fw6.1.1.001-20140319)
Root Device Type: ebs Virtualization type: paravirtual

Hourly Software Fees: \$0.73 per hour on m1.large instance
Software charges will begin once you launch this AMI and continue until you terminate the instance.

By launching this product, you will be subscribed to this software and agree that your use of this software is subject to the pricing terms and the seller's [End User License Agreement](#)

▼ Instance Type

[Edit instance type](#)

Instance Type	ECUs	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Network Performance
m1.large	4	2	7.5	2 x 420	Yes	Moderate

▼ Security Groups

[Edit security groups](#)

Security group name Barracuda Spam Firewall-6-1-1-001-AutogenByAWSMP-1
Description This security group was generated by AWS Marketplace and is based on recommended settings for Barracuda Spam Firewall version 6.1.1.001 provided by Barracuda Networks

Type ①	Protocol ①	Port Range ①	Source ①
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[Cancel](#) [Previous](#) [Launch](#)

Amazon Web Services now provisions the Barracuda Email Security Gateway. Allow a few minutes for the Amazon Web Services Agent and the Barracuda Email Security Gateway virtual machine to boot up.

DO NOT restart the Barracuda Email Security Gateway while it is launching.

Continue with [Barracuda Email Security Gateway Quick Start Guide for Amazon Web Services](#) to license and configure your virtual appliance.

Figures

1. region.jpg
2. launch_instance.jpg
3. ChooseAmazonImageSpam.png
4. instance_type.jpg
5. instance_details.jpg
6. add_storage.jpg
7. tag_instance.jpg
8. config_security_group.jpg
9. ReviewInstanceLaunch.png

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