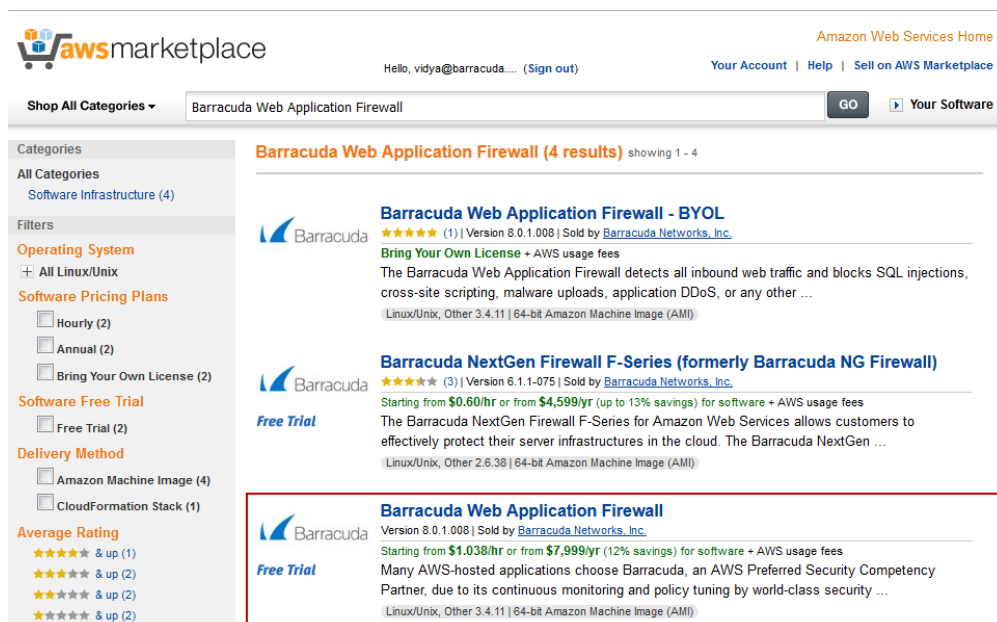


Importing the Barracuda Web Application Firewall for AWS PAYG CFT and Deploying the Instance

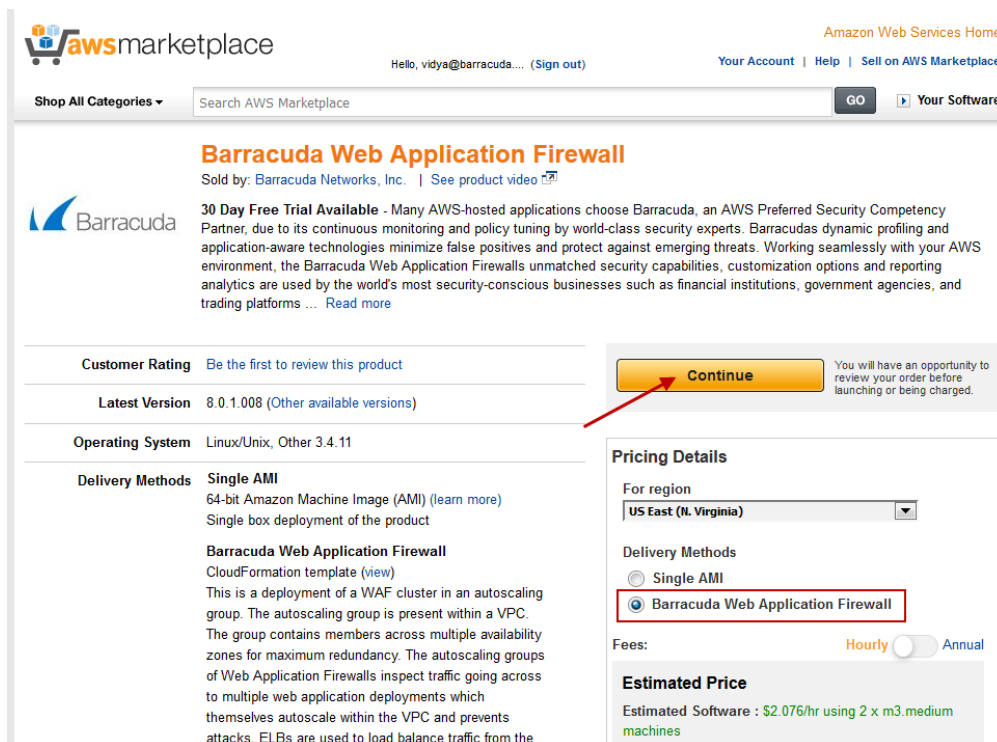
<https://campus.barracuda.com/doc/46897288/>

Perform the steps below to import the Barracuda Web Application Firewall for AWS Pay-As-You-Go CloudFormation Template and deploy the instance:

1. Go to the [AWS Marketplace](#), type **Barracuda Web Application Firewall for AWS** in the *Search AWS Marketplace* text box and click **GO**.
2. Select **Barracuda Web Application Firewall for AWS**



3. The [Barracuda Web Application Firewall](#) page appears on the AWS Marketplace.
4. In the **Pricing Details** panel:
 1. Select the region for the instance to be deployed from the **"For region"** drop-down list.
 2. Select **Barracuda Web Application Firewall for AWS** as **Delivery Methods**.
 3. Click **Continue**.



The screenshot shows the AWS Marketplace page for the Barracuda Web Application Firewall. The page includes a header with the AWS Marketplace logo and navigation links. The main content area displays the product name, version (8.0.1.008), operating system (Linux/Unix), and delivery methods (Single AMI). A 'Continue' button is highlighted with a red arrow. The pricing section shows the estimated price for the software, which is \$2.076/hr using 2 x m3.medium machines.

5. In the **Launch on EC2** page:

1. Select the Barracuda Web Application Firewall version that you want to deploy on AWS.
2. Select the region for the instance.
3. Ensure the **Deployment Options** is set to *Barracuda Web Application Firewall for AWS*.
4. Check the software pricing for subscription term (Hourly or Annual).
5. Click **Launch with CloudFormation Console**.

Launch on EC2:**Barracuda Web Application Firewall**

1-Click Launch
Review, modify, and launch

Custom Launch
CloudFormation, EC2 Console, APIs or CLI

Launching Options

- You can click "Launch with CloudFormation Console" button below and follow the steps in the CloudFormation console to launch a stack of this software.
- If you prefer to launch just an AMI, you can select Single AMI and click the "Launch with EC2 Console" and follow the instructions to launch an instance of this software.
- If you want to only launch the AMI, you can also find and launch these AMIs by searching for the AMI IDs (shown below) in the "Community AMIs" tab of the [EC2 Console](#) Launch Wizard, or launch with the [EC2 APIs](#).
- You can view this information at a later time by visiting the Your Software page. For help, see [step-by-step instructions](#) for launching Marketplace Products from the AWS Console.

Select a Version

8.0.1.008, released 02/08/2016

Usage Instructions

Select a Region

US East (N. Virginia)

Deployment Options

☐ Single AMI
 64-bit Amazon Machine Image (AMI) ([learn more](#))
 Single box deployment of the product

☒ Barracuda Web Application Firewall
 CloudFormation template ([view](#))
 This is a deployment of a WAF cluster in an autoscaling group. The autoscaling group is present within a VPC. The group contains members across multiple availability zones for maximum redundancy. The autoscaling groups of Web Application Firewalls inspect traffic going across to multiple web application deployments which themselves autoscale within the VPC and prevents attacks. ELBs are used to load balance traffic from the WAF cluster to the web application clusters.

Software Pricing

Subscription Term

☒ Hourly
☐ Annual

Applicable Instance Type

Software fee

Varies

Depends on instance type, reference pricing chart.

Launch

Launch with CloudFormation Console

Security Group

The vendor recommends using the following security group policies. You will be able to select these settings or configure your own when launching this software.

Connection Method	Protocol	Port Range	Source (IP or Group)
	tcp	8000 - 8000	0.0.0.0/0
HTTPS	tcp	443 - 443	0.0.0.0/0
HTTP	tcp	80 - 80	0.0.0.0/0

Release Notes

<https://techlib.barracuda.com/WAF/New>

Pricing Details

For Region
US East (N. Virginia)

Delivery Methods
Barracuda Web Application Firewall

Your Free Trial has expired

Estimated Price

Estimated Software : \$2.076/hr using 2 x m3.medium machines

Estimated infrastructure : \$136.00/month

- Estimated infrastructure costs are a typical default deployment with 24x7 usage with the following assumptions
 - EC2** : 2 x m3.medium; 100% usage
 - VPC** : 1 connection; 100% usage
 - S3** : 1 GB
 - CloudWatch** : 1 AWS Resource; 15 minute intervals
 - SNS** : SNS Service Used
- Total hourly fees will vary by instance type and EC2 region
- For additional savings, you can select annual pricing to get 12% off listed price.

6. In the **Create A New Stack** page, click **Next**:

1. On the **Specify Details** page, do the following configuration:

1. In the **Specify Details** section:
 1. Enter a name for the CloudFormation stack in the **Stack Name** field.
2. In the **Parameters** section, specify values for the following:

Network Configuration	
Parameter Name	Description
Which VPC should this be deployed to?	Select the VPC that you wish to deploy the Barracuda Web Application Firewall instance(s) from the drop-down list.
Availability Zone(s)	Select the availability zones from the multi-select drop-down list. The VPC you choose to deploy in must be available across these availability zones. Note: It is recommended to deploy the instances in multiple availability zones.
Subnet ID(s)	Select the subnet ID(s) associated with the availability zone(s) where the Barracuda Web Application Firewall instance(s) needs to be deployed. Note that these subnets must be part of the VPC that you choose.
Elastic Load Balancer(s)	Enter the name of the elastic load balancer(s) (ELB) that needs to be used to load balance/distribute the traffic between the Barracuda Web Application Firewall(s). The ELB(s) should be connected to all the subnets that are used for this deployment and be part of the VPC that is chosen for this deployment. Ensure that you create the load balancer(s) before configuring it in the Stack.
Auto Scaling Configuration	
Parameter Name	Description
Instance Type	Select an instance type depending on your requirement.
Minimum Instances	Enter the minimum number of Barracuda Web Application Firewall instance(s) that needs to be up and running continuously in the Auto Scaling group. Default: 1
Maximum Instances	Enter the maximum number of Barracuda Web Application Firewall instance(s) to be deployed in the Auto Scaling group. Default: 4
Notification Email	Enter the email address(es) to which you want Amazon SNS to send email notifications.
Barracuda Web Application Firewall Bootstrapping Configuration	
Parameter Name	Description
Service Name	Enter a name for the service that needs to be created on the Barracuda Web Application Firewall(s).

Service Port	Enter the port number on which the service is listening to. Port 8000 and 8443 should not be used for Service Port when deploying the Barracuda Web Application Firewall instances using the CloudFormation Template (CFT), as these ports are already used for management (MGMT) access of the Barracuda Web Application Firewall.
Server IP/FQDN	Enter the IP address of the server, or Fully Qualified Domain Name (FQDN) of the ELB front-ending the servers that needs to be protected by the Barracuda Web Application Firewall(s) . If you are deploying a downstream ELB, specify the FQDN of the ELB to which the Barracuda Web Application Firewall needs to be connected.
Server Port	Enter the port number associated with the server mentioned in Server IP/FQDN .

Select Template
Specify Details
 Options
 Review

Specify Details

Specify a stack name and parameter values. You can use or change the default parameter values, which are defined in the AWS CloudFormation template. [Learn more](#).

Stack name

Parameters

Networking Configuration

Which VPC should this be deployed to?

Select the VPC chosen for this deployment

Availability Zone(s)

Select the Availability Zones of the VPC that will be used for this deployment. Recommended deployment is across multiple AZ's

Subnet ID(s)

Select subnet id's which has been already assigned to the VPC used. These subnets must reside on AZ's chosen

Elastic Load Balancer(s) Enter a valid list of pre-configured Elastic Load Balancer names associated to the VPC and Subnet

Auto Scaling Configuration

Instance Type Choose the instance type to use for this AutoScale group

Minimum Instances Enter the minimum number of WAF instances (1-20) to be available in the AutoScale Group

Maximum Instances Enter the maximum number of WAF instances (2-20) that can be created in the AutoScale Group

Notification Email Enter a valid email address to send AutoScaling Event Notifications

Barracuda Web Application Firewall Bootstrapping Configuration

Service Name Specify the Service Name to be configured on the Barracuda Web Application Firewall

Service Port Specify the Service Port to be configured on the Barracuda Web Application Firewall. This port that is exposed to the outside world. Default is 80.

Server IP/FQDN Specify the Server IP (inside the VPC) to be configured on the Barracuda Web Application Firewall; alternatively, you can also enter the FQDN of the instance or a downstream ELB to connect to.

Server Port Specify the port number on which the web application responds. This is the port that the Barracuda Web Application Firewall will use to connect to the application

- Click **Next** to continue.
- On the **Options** page, enter a key-value pair to identify the instance(s) of this stack. Click **Next**.

Select Template
Specify Details
Options
Review

Options

Tags
You can specify tags (key-value pairs) for resources in your stack. You can add up to 10 unique key-value pairs for each stack. [Learn more](#).

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

► **Advanced**
You can set additional options for your stack, like notification options and a stack policy. [Learn more](#).

Cancel Previous **Next**

4. On the **Review** page, verify the values you entered, select the IAM capability check box, and click **Create**.

Select Template
Specify Details
Options
Review

Review

Template

Template URL	https://s3-us-west-2.amazonaws.com/cf-templates-1ahk1pt7a4w20-us-west-2/20160273DW-WAF_AUTOSCALING_CFT
Description	Barracuda Web Application Firewall Auto Scaling and Bootstrapping
Estimate cost	Cost

Stack details

Stack name: BarracudaWAFStackOne

Networking Configuration

VPCId	vpc-e897d08d
AvailabilityZones	us-west-2a,us-west-2b,us-west-2c
SubnetID	subnet-96921ecf,subnet-b00551d5,subnet-d8d3b8af
ELBNames	WAFAutoScaleELB

Auto Scaling Configuration

InstanceType	m3.medium
ScalingMinSize	1
ScalingMaxSize	4
NotificationEmail	autoscale@barracuda.com

Barracuda Web Application Firewall Bootstrapping Configuration

WAFServiceName	BarracudaWAFStack
WAFServicePort	80
WAFServerIP	internal-AutoScaleInternalELB-457486678.us-west-2.elb.amazonaws.com
WAFServerPort	80
Create IAM resources	Yes

Options

Tags

Name	Demo
------	------

Advanced

Notification	none
Timeout	none
Rollback on failure	Yes

Capabilities

i The following resource(s) require capabilities: [AWS::IAM::InstanceProfile, AWS::IAM::Role]

This template might include Identity and Access Management (IAM) resources, which can include groups, IAM users, and IAM roles with certain permissions. Ensure that the template you are using is from a trusted source. [Learn more](#).

☒ I acknowledge that this template might cause AWS CloudFormation to create IAM resources.

Cancel Previous **Create**

As per the configuration in the CFT above:

1. A stack with the name "**BarracudaWAFStackOne**" will be created.
2. Deploys one (1) Barracuda Web Application Firewall VM in one of the specified availability zones (us-west-2a/us-west-2b/us-west-2c), and subnets (subnet-b00551d5/subnet-d8d3b8af/subnet-96921wcf) with instance type as m3.medium, and gets added to the "**WAFAutoScaleELB**" Elastic Load Balancer.
3. Sends notification to **autoscale@barracuda.com**.
4. Scales up the instance (up to total of 4) whenever the alarm triggers.
5. Creates a service on the Barracuda Web Application Firewall with port 80 that protects the server(s) (**FQDN**: *internal-AutoScaleInternalELB-457486678.us-west-2.elb.amazonaws.com* on port 80). The created service can be accessed over

- Create Stack

Actions

Design template

Filter: Active

By Name:

Showing 19 stacks

Stack Name	Created Time	Status	Description
<input checked="" type="checkbox"/> BarracudaWAFStackOne	2016-01-27 16:34:01 UTC+0550	CREATE_IN_PROGRESS	Barracuda Web Application Firewall Auto Scaling and Bootstrapping

Overview

Outputs

Resources

Events

Template

Parameters

Tags

Stack Policy

2016-01-27	Status	Type	Logical ID	Status Reason
▶ 16:37:14 UTC+0550	CREATE_IN_PROGRESS	AWS: AutoScaling: AutoScalingGroup	BWAFAutoScalingGroup	Resource creation initiated
▶ 16:37:14 UTC+0550	CREATE_IN_PROGRESS	AWS: AutoScaling: AutoScalingGroup	BWAFAutoScalingGroup	
▶ 16:37:09 UTC+0550	CREATE_COMPLETE	AWS: AutoScaling: LaunchConfiguration	BWAFAutoScaleLaunchConfig	
▶ 16:37:08 UTC+0550	CREATE_IN_PROGRESS	AWS: AutoScaling: LaunchConfiguration	BWAFAutoScaleLaunchConfig	Resource creation initiated
▶ 16:37:08 UTC+0550	CREATE_IN_PROGRESS	AWS: AutoScaling: LaunchConfiguration	BWAFAutoScaleLaunchConfig	
▶ 16:37:00 UTC+0550	CREATE_COMPLETE	AWS: IAM: InstanceProfile	BWAFAutoScalingInstanceProfile	
▶ 16:34:59 UTC+0550	CREATE_IN_PROGRESS	AWS: IAM: InstanceProfile	BWAFAutoScalingInstanceProfile	Resource creation initiated
▶ 16:34:59 UTC+0550	CREATE_IN_PROGRESS	AWS: IAM: InstanceProfile	BWAFAutoScalingInstanceProfile	
▶ 16:34:56 UTC+0550	CREATE_COMPLETE	AWS: IAM: Role	BWAFAutoScalingS3AccessRole	
▶ 16:34:45 UTC+0550	CREATE_IN_PROGRESS	AWS: IAM: Role	BWAFAutoScalingS3AccessRole	Resource creation initiated
▶ 16:34:45 UTC+0550	CREATE_IN_PROGRESS	AWS: IAM: Role	BWAFAutoScalingS3AccessRole	
▶ 16:34:34 UTC+0550	CREATE_IN_PROGRESS	AWS: IAM: Role	BWAFAutoScalingS3AccessRole	
▶ 16:34:30 UTC+0550	CREATE_COMPLETE	AWS: S3: Bucket	S3Bucket	

Create Stack

Actions

Design template

Filter: Active

By Name:

Showing 19 stacks

Stack Name	Created Time	Status	Description
<input checked="" type="checkbox"/> BarracudaWAFStackOne	2016-01-27 16:34:01 UTC+0550	CREATE_IN_PROGRESS	Barracuda Web Application Firewall Auto Scaling and Bootstrapping

Overview

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Template

Parameters

Tags

Stack Policy

Logical ID	Physical ID	Type	Status	Status Reason
BWAFAutoScaleLaunchConfig	BarracudaWAFStackOne-BWAFAutoScaleLaunchConfig-14420TU1B UFG	AWS: AutoScaling: LaunchConfiguration	CREATE_COMPLETE	
BWAFAutoScaleSecurityGroup	sg-6ea55a09	AWS: EC2: SecurityGroup	CREATE_COMPLETE	
BWAFAutoScalingGroup	BarracudaWAFStackOne-BWAFAutoScalingGroup-H35LYWBV305	AWS: AutoScaling: AutoScalingGroup	CREATE_IN_PROGRESS	Resource creation initiated
BWAFAutoScalingInstanceProfile	BarracudaWAFStackOne-BWAFAutoScalingInstanceProfile-8O0MVGE W67C	AWS: IAM: InstanceProfile	CREATE_COMPLETE	
BWAFAutoScalingS3AccessRole	BarracudaWAFStackOne-BWAFAutoScalingS3AccessRole-10SGPVL MZ2LN	AWS: IAM: Role	CREATE_COMPLETE	
BWAFSecurityGroupRule1	BWAFSecurityGroupRule1	AWS: EC2: SecurityGroupingress	CREATE_COMPLETE	
BWAFSecurityGroupRule2	BWAFSecurityGroupRule2	AWS: EC2: SecurityGroupingress	CREATE_COMPLETE	
BWAFSecurityGroupRule3	BWAFSecurityGroupRule3	AWS: EC2: SecurityGroupingress	CREATE_COMPLETE	
BWAFSecurityGroupRule4	BWAFSecurityGroupRule4	AWS: EC2: SecurityGroupingress	CREATE_COMPLETE	
BWAFSecurityGroupRule5	BWAFSecurityGroupRule5	AWS: EC2: SecurityGroupingress	CREATE_COMPLETE	

Create Stack

Actions

Design template

Filter: Active

By Name:

Showing 19 stacks

Stack Name	Created Time	Status	Description
<input checked="" type="checkbox"/> BarracudaWAFStackOne	2016-01-27 16:34:01 UTC+0550	CREATE_COMPLETE	Barracuda Web Application Firewall Auto Scaling and Bootstrapping

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Parameters

Tags

Stack Policy

Logical ID	Physical ID	Type	Status	Status Reason
BWAFAutoScaleLaunchConfig	BarracudaWAFStackOne-BWAFAutoScaleLaunchConfig-14420TU1B UFG	AWS: AutoScaling: LaunchConfiguration	CREATE_COMPLETE	
BWAFAutoScaleSecurityGroup	sg-6ea55a09	AWS: EC2: SecurityGroup	CREATE_COMPLETE	
BWAFAutoScalingGroup	BarracudaWAFStackOne-BWAFAutoScalingGroup-H35LYWBV305	AWS: AutoScaling: AutoScalingGroup	CREATE_COMPLETE	

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Continue with the [Verify the Instance in the Auto Scaling Group](#) article.

Figures

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7. Stack-Events.png
8. Stack-Resources.png
9. Stack.png

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