
How to Deploy a CloudGen in AWS via CloudFormation Template

<https://campus.barracuda.com/doc/73719653/>

CloudFormation templates allow you to automate your deployments in AWS and make them more consistent. You can replicate the deployment multiple times for testing and production, or you can spin up additional environments in other regions. Including user data scripts in the template automatically disables the web interface. You can re-enable it via the cloud-enable-webui command. For more information, see [Public Cloud Provisioning Command Line Tools](#).

CloudFormation Templates

CloudFormation templates are available for all our AWS reference architectures in the Barracuda Networks GitHub account: <https://github.com/barracudanetworks/ngf-aws-templates>.

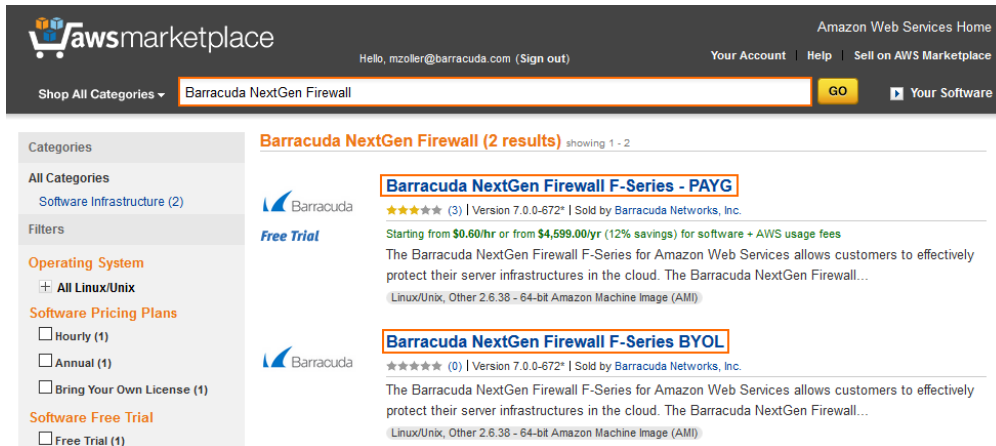
Before You Begin

Verify that the AMI image IDs used in the CloudFormation template match the IDs for the CloudGen Firewall image listed in the AWS Marketplace. The AMI disk images change for every released version. Each region has a separate AMI ID.

Step 1. Subscribe to CloudGen Firewall in AWS Marketplace

To be able to deploy a CloudGen Firewall image via the CloudFormation template, you must agree to the **Terms of Service** and subscribe to the image in the AWS Marketplace. You need to do this only once per account, but it must be done separately for PAYG and BYOL images.

1. Go to the AWS Marketplace: <https://aws.amazon.com/marketplace/>
2. Search for Barracuda CloudGen Firewall.
3. Click the **Barracuda CloudGen Firewall F-Series PAYG** or **Barracuda CloudGen Firewall F-Series BYOL** image.



The screenshot shows the AWS Marketplace search results for "Barracuda NextGen Firewall". The search bar contains "Barracuda NextGen Firewall" and the "GO" button is highlighted. The results show two items: "Barracuda NextGen Firewall F-Series - PAYG" and "Barracuda NextGen Firewall F-Series BYOL". The first item has a 3-star rating and a "Free Trial" badge. The second item has a 0-star rating. The left sidebar shows filters for "Operating System" (All Linux/Unix) and "Software Pricing Plans" (Hourly, Annual, Bring Your Own License, Software Free Trial).

4. Click **Continue**.



The screenshot shows the product page for "Barracuda NextGen Firewall F-Series - PAYG". The product name is highlighted in orange. Below the name, it says "Sold by: Barracuda Networks, Inc." and "30 Day Free Trial Available". A description follows: "The Barracuda NextGen Firewall F-Series for Amazon Web Services allows customers to effectively protect their server infrastructures in the cloud. The Barracuda NextGen Firewall F-Series is an enterprise-grade next-generation firewall that was purpose-built for efficient deployment and operation within dispersed, highly dynamic, and security-critical network environments. Beyond its powerful network firewall, IPS, and VPN technologies, the F-Series integrates an extensive set of next-generation firewall technologies including comprehensive application control, availability, and traffic... [Read more](#)".

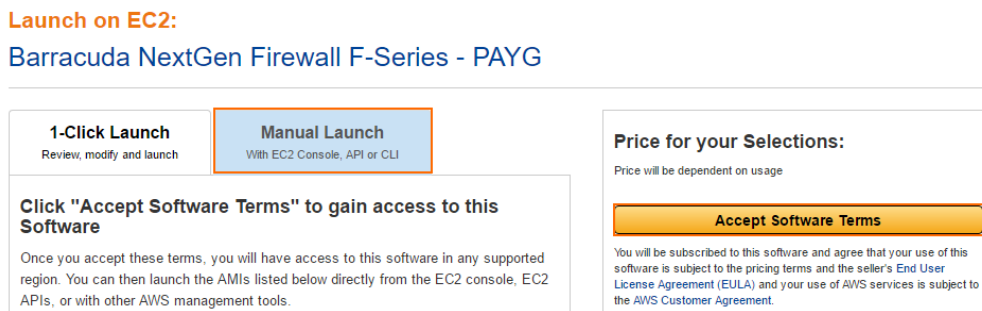
Customer Rating: ★★★★★ (3 Customer Reviews)

Latest Version: 7.0.0-672* (Other available versions)

Continue You will have an opportunity to review your order before launching or being charged.

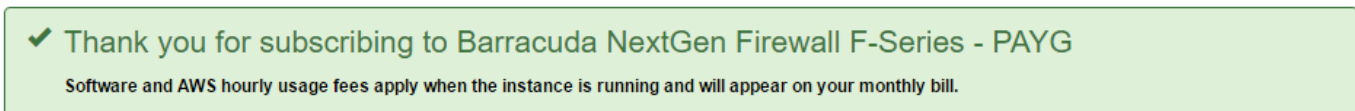
5. Click the **Manual Launch** tab.

6. Click **Accept Software Terms**.



The screenshot shows the launch options and terms page. There are two tabs: "1-Click Launch" and "Manual Launch". The "Manual Launch" tab is selected and highlighted with an orange border. Below the tabs, there is a section titled "Click 'Accept Software Terms' to gain access to this Software". It says: "Once you accept these terms, you will have access to this software in any supported region. You can then launch the AMIs listed below directly from the EC2 console, EC2 APIs, or with other AWS management tools." To the right, there is a section titled "Price for your Selections:" with the text "Price will be dependent on usage" and a "Accept Software Terms" button. Below this, it says: "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 (EULA) and your use of AWS services is subject to the AWS Customer Agreement."

You will now receive an email from Amazon confirming your subscription. You can now use the provided AMI in your CloudFormation templates.



✓ Thank you for subscribing to Barracuda NextGen Firewall F-Series - PAYG
Software and AWS hourly usage fees apply when the instance is running and will appear on your monthly bill.

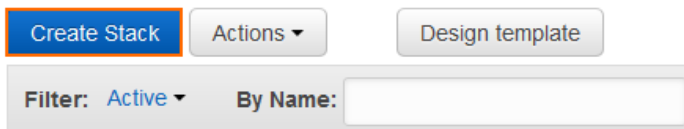
Step 2. (BYOL only) Create Stack Policy to Protect the Firewall Instance from Stack Updates

To protect your firewall instances from being replaced during stack updates, use a stack policy when deploying the CloudFormation template. Replacing the instance automatically invalidates your license. If your license is invalidated, contact Barracuda Technical Support during the 15-day grace period to transfer your license to the instance.

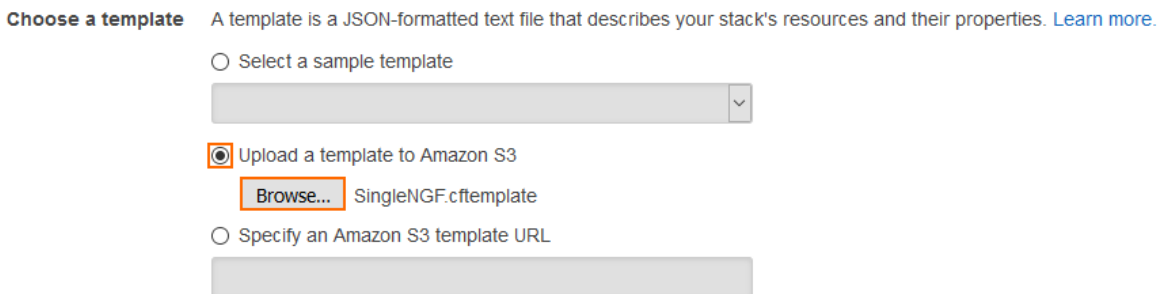
Step 3. Deploy the CloudFormation Template

CloudFormation templates can be deployed via the AWS web console, CLI, REST, or PowerShell.

1. Log into the AWS console.
2. Click **Services** and select **CloudFormation**.
3. Click **Create Stack**



4. Select **Upload a template to Amazon S3**.
5. Click **Browse** and select the template file.



6. Click **Next**.
7. Enter the **Stack name**.
8. (optional) If the template includes parameters, fill in the values in the **Parameters** section.

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

KeyName
Name of an existing EC2 KeyPair to enable SSH access to the instances

9. Click **Next**.

10. (optional) Enter **Tags** for your stack.
11. In the **Advanced** section, set additional options for your stack:
 - **Notification options**
 - **Timeout** - Set the timeout in minutes.
 - **Rollback on failure** - When set to **yes**, the deployment will be rolled back if any errors are encountered.
 - **Stack policy** - For BYOL images, it is highly recommended to protect the firewall instance from stack updates.

Stack updates that require redeploying the firewall instance will invalidate the license for BYOL firewalls.
12. Click **Next**.
13. Review the settings and click **Create**.

The resources defined in the template are now deployed. This may take a couple of minutes. When the **Status** column shows **CREATE_COMPLETE**, the template has been deployed successfully. If the firewall fetches a PAR file from a Control Center, it may take a couple of minutes for the firewall to be available.

Create Stack Actions ▾ Design template

Filter: Complete ▾ By Name:

	Stack Name	Created Time	Status	Description
<input checked="" type="checkbox"/>	DOCSingleNGF	2016-10-05 13:49:42 UTC+0200	CREATE_COMPLETE	AWS Single NGF Template

Figures

1. aws_cloudformation_01.png
2. aws_cloudformation_02.png
3. aws_cloudformation_03.png
4. aws_cloudformation_04.png
5. aws_cloudformation_05.png
6. aws_cloudformation_06.png
7. aws_cloudformation_07.png
8. aws_cloudformation_08.png

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