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## How to Deploy a CloudGen Firewall in AWS via CloudFormation Template

<https://campus.barracuda.com/doc/72516052/>

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.

### CloudFormation Templates

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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

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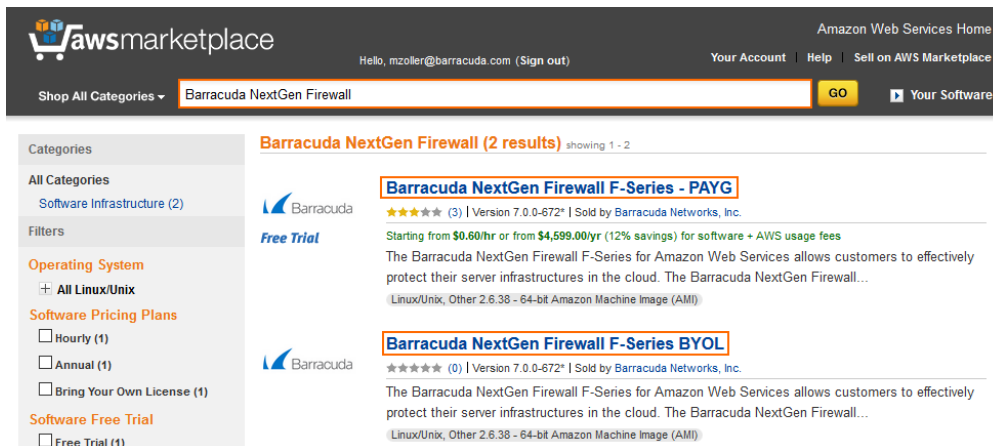
Verify that the AMI image IDs used in the CloudFormation template match the IDs for the CloudGen Firewall image listed in the AWS Marketplace. The AMI disk images change for every released version. Each region has a separate AMI ID.

### Step 1. Subscribe to CloudGen Firewall in AWS Marketplace

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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 NextGen Firewall.
3. Click on the **Barracuda NextGen Firewall F-Series PAYG** or **Barracuda NextGen 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 results show two items:

- Barracuda NextGen Firewall F-Series - PAYG**: 3 stars, Version 7.0.0-672\*. Starting from \$0.60/hr or from \$4,599.00/yr. Includes a "Free Trial" badge.
- Barracuda NextGen Firewall F-Series BYOL**: 0 stars, Version 7.0.0-672\*.

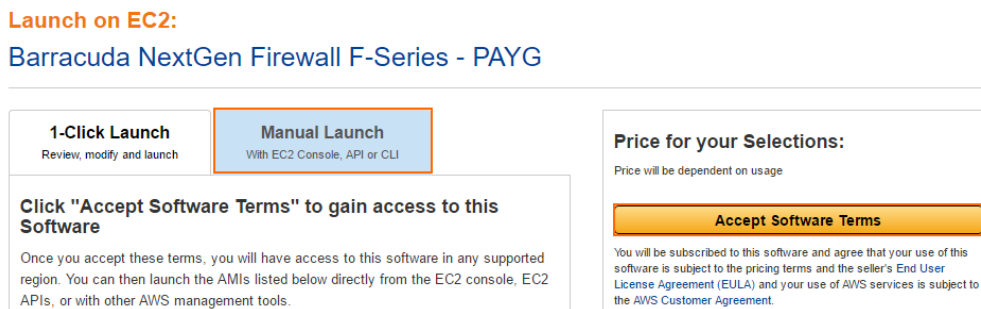
4. Click **Continue**.



The screenshot shows the product page for "Barracuda NextGen Firewall F-Series - PAYG". It includes the Barracuda logo, a "30 Day Free Trial Available" badge, and a description of the firewall. A "Continue" button is visible on the right side of the page.

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

6. Click **Accept Software Terms**.



The screenshot shows the "Launch on EC2" section with two tabs: "1-Click Launch" and "Manual Launch". The "Manual Launch" tab is selected. Below the tabs, there is a "Click 'Accept Software Terms' to gain access to this Software" section. To the right, there is a "Price for your Selections" section with an "Accept Software Terms" button.

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.

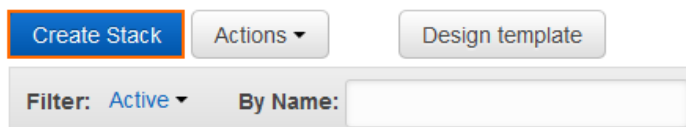
## Step 2. (BYOL only) Create Stack Policy to Protect Firewall Instance from Stack Updates

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.

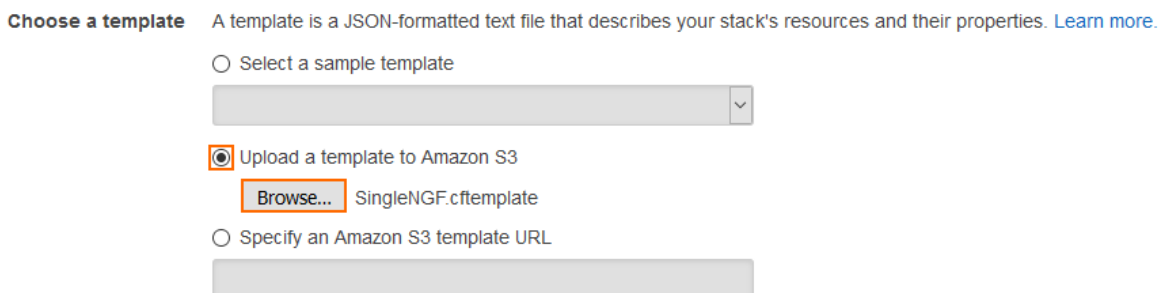
### Step 3. Deploy the CloudFormation Template

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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