
How to Deploy a Proxy in Amazon AWS

<https://campus.barracuda.com/doc/15731/>

AWS Marketplace

You can subscribe and deploy the CloudGen Access Proxy using the AWS Marketplace. Visit the [Barracuda CloudGen Access offer](#) to subscribe, and then deploy using the cloudformation template steps.

Terraform Modules

1. Get a [CloudGen Access Proxy enrollment link](#) by creating a new CloudGen Access Proxy. Since there is still no value for Host parameters, insert a placeholder (e.g., temp.example.org).
2. Go to [Terraform modules](#) for detailed deployment steps.
3. After the installation, update the created CloudGen Access Proxy Host with the CloudGen Access Proxy DNS name obtained in the terraform output resource `Network_Load_Balancer_DNS_Name`

Cloudformation Templates

Installation Steps

Notes on configuration:

- Required: **Allow public access to Access Proxy** set to *True*
- Recommended: **Get the latest Access Proxy install scripts** set to *True*

1. Get a [CloudGen Access Proxy enrollment link](#) by creating a new CloudGen Access Proxy. Since there is still no value for Host parameters, insert a placeholder (e.g., temp.example.org).
2. Choose one of the templates:
 - ASG with NLB
 - ECS on AWS Fargate
3. Update the created CloudGen Access Proxy Host with the DNS name obtained in the stack output key `NetworkLoadBalancerDnsName`
4. Configure access to the desired resources with the security group id obtained in the stack output key `SecurityGroupforResources`

ASG with NLB

- Contains all the resources and steps needed to deploy the CloudGen Access Proxy in an ASG behind an NLB.
- The template creates a highly available / self-healing infrastructure with a minimum of 2 EC2 instances that are part of an ASG and sit behind an NLB.
- All the resources are created with the security principle of least privilege.
- The latest AMI for the deployed region is automatically configured, at the date of the deploy.
- When the parameter EC2ASGDesiredCapacity is more than 1 (defaults to 2), the stack will deploy a Redis Replication Group with 2 nodes on different Availability Zones. This is required for communication between CloudGen Access Orchestrators.

 Launch Stack 

- Template available [here](#)

ECS on AWS Fargate

- Contains all the resources and steps needed to deploy the CloudGen Access Proxy in an [ECS](#) cluster hosted on [AWS Fargate](#).
- The template creates the required containers behind an NLB. Required security groups are included. The template will use the latest container versions.

 Launch Stack 

- Template available [here](#)

AMI

- The templates use the official x64 Amazon Linux 2 AMI.
- The latest version available at the date of deploy is selected.
- Optionally, a custom x64 AMI can be selected (CentOS/Ubuntu based).
- After installing the proxy, a hardening script will be executed. The script includes the following:
 - [CIS](#) recommendations for OS and SSH
 - Automated install of security updates via yum-cron/unattended-upgrades
 - Check script [here](#)

Upgrading CloudGen Access Proxy

To upgrade your CloudGen Access Proxy to the latest version, execute the following command:

```
sudo yum upgrade fydeproxy envoy
```

Figures

1. cloudformation-launch-stack.png
2. cloudformation-launch-stack.png

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