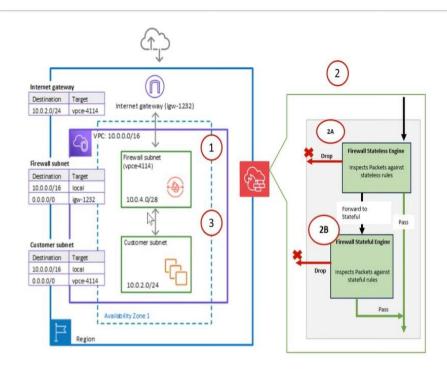
AWS NETWORK FIREWALL DEMO LAB

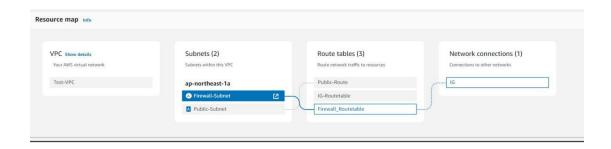
Demo Steps

- Create a VPC, Name Firewall Lab VPC CIDR 10.0.0.0/16
- Create one Workload Subnet (Public) 10.0.2.0/24
- Create a Security group to allow RDP, HTTP/s, ICMP traffic to the instance.
- · Create and attach an Internet GW to VPC
- Create a route table for Workload Subnet to send internet traffic to Internet GW
- Launch an EC2 web Server Instance and check domains accessibility.
- Now Create Firewall Subnet CIDR 10.0.4.0/28
- Create Stateful Rule Group (domain list) to block traffic to few sites.
- Create Stateless Rule Group for ICMP and RDP Traffic
- · Change the routing for traffic to move through the firewall subnet
- Test the functionality of AWS Network Firewall.

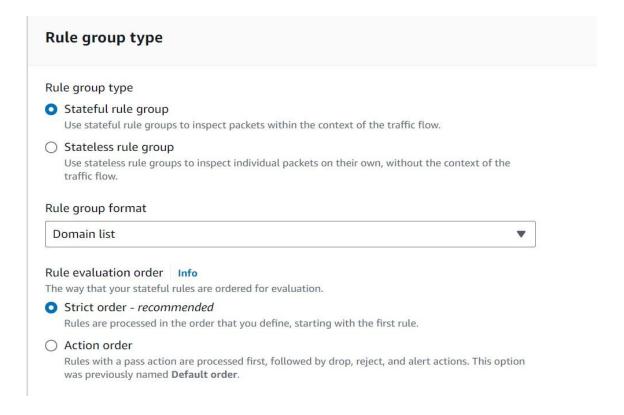
AWS Network Firewall: Traffic Flow



STEP 1:- Created a VPC with firewall and public subnet. Created 2 Route table attach each with subnet. Created Internet Gateway and attach to the VPC. Launch an EC2 Instance in the Public Subnet.



STEP 2 :- Created Rule Group in Network Firewall Section.



Rule group details

Name

Enter a name for the rule group that's unique within your stateful rule groups.

Rule

The name must have 1-128 characters. Valid characters: a-z, A-Z, 0-9 and - (hyphen). The name can't start or end with a hyphen, and it can't contain two consecutive hyphens.

Description - optional

This description appears when you view this rule group's details. It can help you quickly identify what your rule group is used for.

Enter rule group description

The description can have 0-256 characters.

Capacity Info

The number of rules you expect to have in this rule group during its lifetime. You can't change capacity after rule group creation, so leave room to grow.

1000

The capacity must be greater than or equal to 1 and less than 30,000.

Configure rules Info

An AWS Network Firewall rule group is a reusable set of criteria for inspecting and handling network traffic.

Domain list rule Info

Allow or deny traffic based on the domain name list.

Domain names

List the domain names you want to inspect and either allow or deny.

www.google.com

Enter one domain name per line.

CIDR ranges

The source traffic CIDR ranges to inspect.

Default

Use the CIDR range of the VPC where Network Firewall is deployed.

O Custom

Set your own list of CIDR ranges.

Protocols

The protocols to inspect.

✓ HTTP

✓ HTTPs

Action Info

Action to take when a request matches the domain names in this group.

O Allow

O Deny

Rule group type Stateful rule group Use stateful rule groups to inspect packets within the context of the traffic flow. Stateless rule group Use stateless rule group Use stateless rule group Cancel Next

Name
Enter a name for the rule group that's unique within your stateless rule groups.

[rule2]
The name must have 1-128 characters. Valid characters: a-z, A-Z, 0-9 and - (hyphen). The name can't start or end with a hyphen, and it can't contain two consecutive hyphens.

Description - optional
This description appears when you view this rule group's details. It can help you quickly identify what your rule group is used for.

[Enter rule group description]
The description can have 0-256 characters.

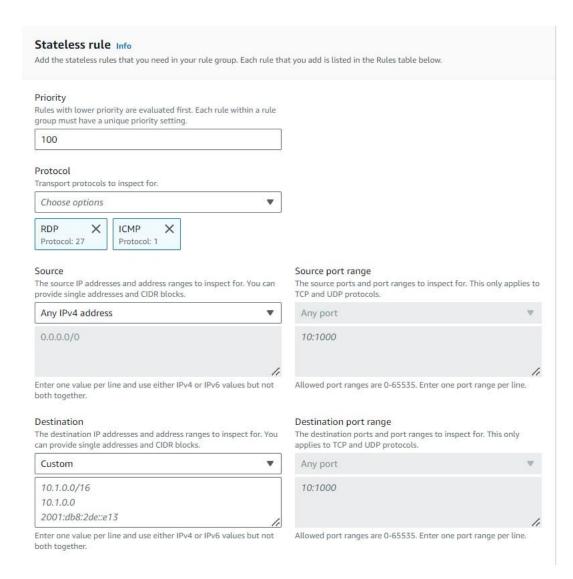
Capacity Info
The number of rules you expect to have in this rule group during its lifetime. You can't change capacity after rule group creation, so leave room to grow.

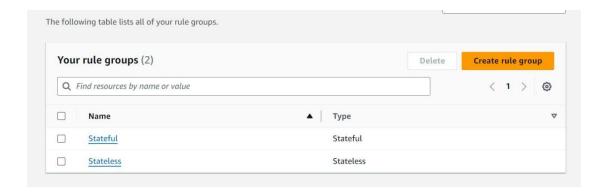
[1000]
The capacity must be greater than or equal to 1 and less than 30,000.

Previous

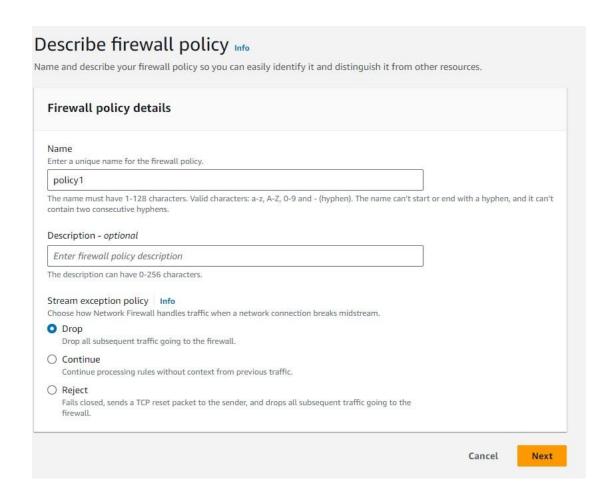
Next

Cancel



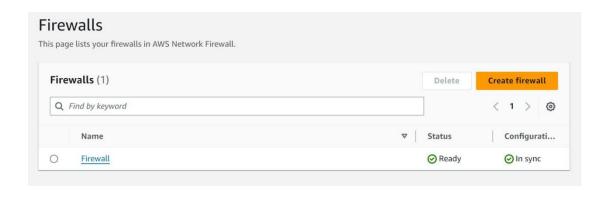


STEP 3:- Created Firewall Policy in the Network Firewall Section.

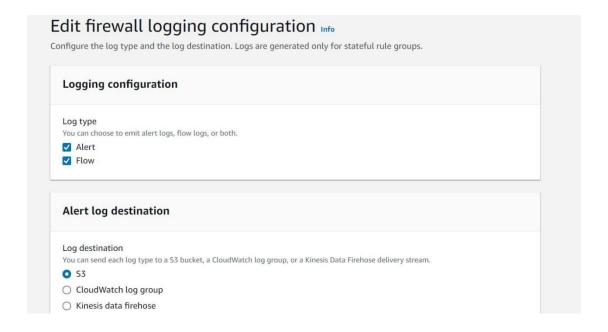




STEP 4:- Created Network Firewall and attached the Policy to it.



STEP 5 :- Enable logging in the Netowork Firewall and Save it in S3 Bucket



STEP 6:- Check on the Instance for the website's, which we blocked is accessible or not.

