**AWS FIREWALL DOCUMENTATION**

**FIREWALL :**

**A Firewall is** **a network security device that monitors and filters incoming and outgoing**

**network traffic based on an organization's previously established security policies**

**NOTE : Barrier Between Private & Public Network.**

**AWS Network Firewall concepts**

* **Virtual private cloud (VPC)** – A VPC is your Private section of AWS, where you can place AWS resources and Allow/restrict access to them.
* **Internet gateway** – A gateway that you attach to your VPC to enable communication between resources in your VPC and the internet.
* **Subnet** – The Practise of Dividing a network into Two or more networks.
* **Route table** – A set of rules, called routes, that are used to determine where a Network traffic from your subnet or gateway is directed.
* **Network Firewall firewall policy** – An AWS resource that defines rules and other settings for a firewall to use to filter incoming and outgoing traffic in a VPC.
* **Network Firewall rule group** – An AWS resource that defines a set of rules to match against VPC traffic, and the actions to take when Network Firewall finds a match.
* **Stateless rules** – Criteria for inspecting a single network traffic packet, without the context of the other packets in the traffic flow, the direction of flow, or any other information that's not provided by the packet itself.
* **Stateful rules** – Criteria for inspecting network traffic packets in the context of their traffic flow.

**AWS Firewall Reference Link :**

* [**https://docs.aws.amazon.com/network-firewall/latest/developerguide/getting-started.html**](https://docs.aws.amazon.com/network-firewall/latest/developerguide/getting-started.html)
* <https://aws.amazon.com/blogs/aws/aws-network-firewall-new-managed-firewall-service-in-vpc/#:~:text=AWS%20Network%20Firewall%20%E2%80%93%20Getting%20Started&text=In%20the%20navigation%20pane%20in,your%20VPC%20from%20the%20dropdown>.

**Steps to Create :**

**Step : 1**

* Create Rule Groups
* Create firewall Policy
* Create Firewall Policy
* Update your Amazon VPC Route Tables
* Remove your Firewall and Clean up Your Resources

**NAT Gateway :**

* An Provides Internet to your Private Instances.