

AWS Security group

In AWS, a Security group acts as a virtual firewall for your instance controlling incoming & outgoing traffic based on specific rules.

It's primarily used to secure resource like EC2 instances RDS database & other services within a VPC (Virtual Private Cloud).

1] Inbound Rules :-

Define the type of incoming traffic allowed to reach your resource allowing SSH access from a specific IP.

2] Outbound Rules :-

Control the type of outgoing traffic allowed from your resource to the internet or other services.

3] Stateful :-

This means if a request is allowed one direction, the resp. response is automatically allowed back.

By setting up Security group, you can easily manage access & control traffic in & out of your AWS resources making them an essential part of AWS networking security.

Key points

1] if you allow inbound traffic, the response is ~~auto~~ automatically allowed. outbound.

2] Each group is specific to a VPC so it can't span multiple VPCs.

3] They can be attached to multiple resources, making it easy to manage security policies across many instances.