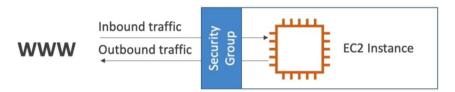
Security Groups & Classic Ports Overview

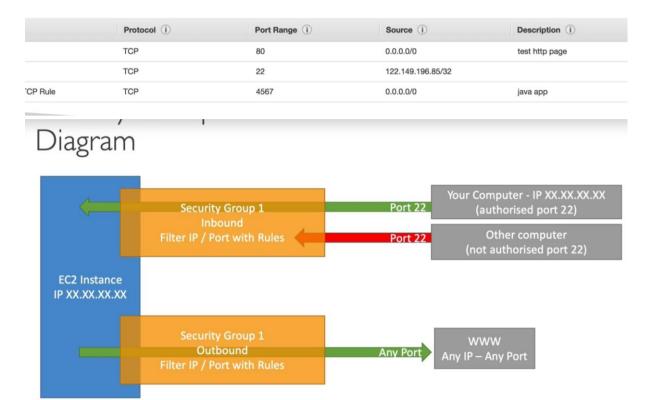
Introduction to Security Groups

- Security Groups are the fundamental of network security in AWS
- They control how traffic is allowed into or out of our EC2 Instances.



- Security groups only contain allow rules
- Security groups rules can reference by IP or by security group
- Security groups are acting as a "firewall" on EC2 instances

- They regulate:
 - Access to Ports
 - Authorised IP ranges IPv4 and IPv6
 - Control of inbound network (from other to the instance)
 - Control of outbound network (from the instance to other)



security Groups

Good to know

- Can be attached to multiple instances
- Locked down to a region / VPC combination
- Does live "outside" the EC2 if traffic is blocked the EC2 instance won't see it
- It's good to maintain one separate security group for SSH access
- If your application is not accessible (time out), then it's a security group issue
- If your application gives a "connection refused" error, then it's an application error or it's not launched
- All inbound traffic is blocked by default
- All outbound traffic is authorised by default

VERY VERY IMPORTANT TO REMEMBER >>>

Classic Ports to know

- 22 = SSH (Secure Shell) log into a Linux instance
- 21 = FTP (File Transfer Protocol) upload files into a file share
- 22 = SFTP (Secure File Transfer Protocol) upload files using SSH
- 80 = HTTP access unsecured websites
- 443 = HTTPS access secured websites
- 3389 = RDP (Remote Desktop Protocol) log into a Windows instance