SECURITY GROUPS

A *security group* acts as a virtual firewall that controls the traffic for one or more instances.

When you launch an instance, you associate one or more security groups with the instance.

You add rules to each security group that allow traffic to or from its associated instances.

You can modify the rules for a security group at any time; the new rules are automatically applied to all instances that are associated with the security group.


Evil attacker

Instance
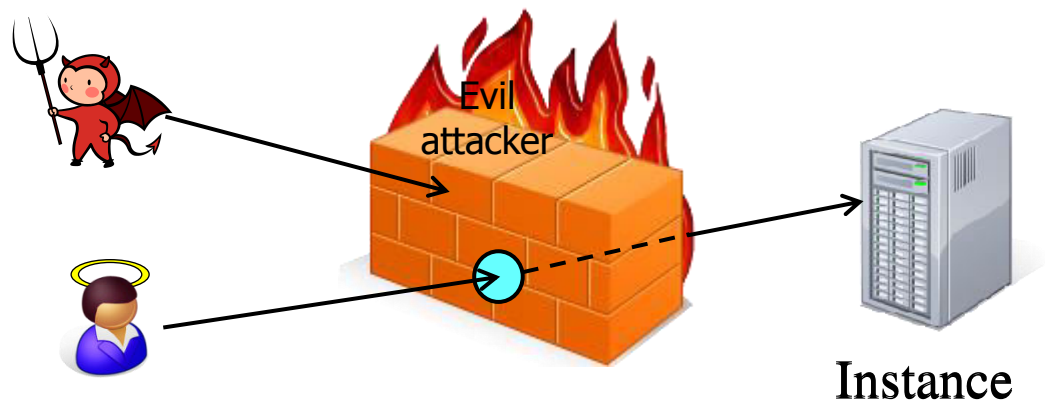
	sg-a9b86bcd	test	vpc-adfea0c8	test

Security Group: sg-a9b86bcd

Description	**Inbound**	Outbound	Tags

Edit

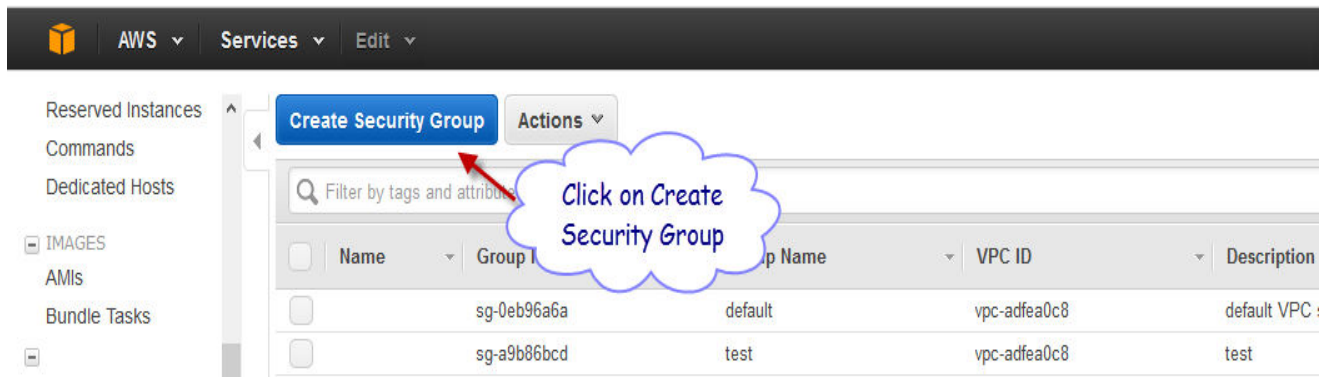| Type ⓘ	Protocol ⓘ	Port Range ⓘ	Source ⓘ
HTTP	TCP	80	10.0.0.10/32
All traffic	All	All	25.25.25.25/32
SSH	TCP	22	0.0.0.0/0

Once you logged in to AWS management console, go to EC2 section.
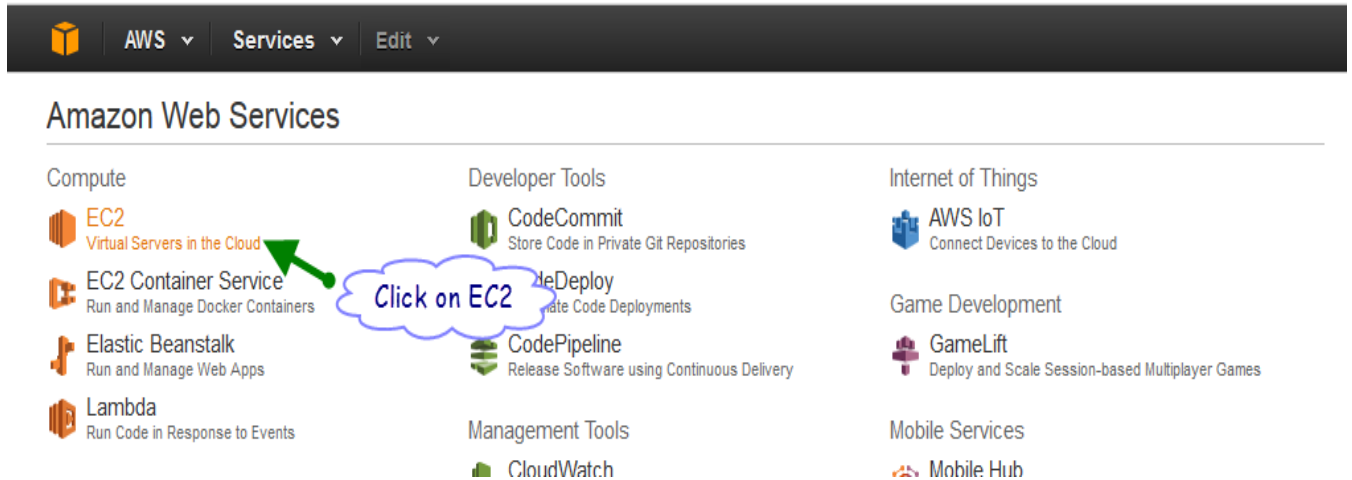
Click on Security groups section under NETWORK & SECURITY from the left pane.
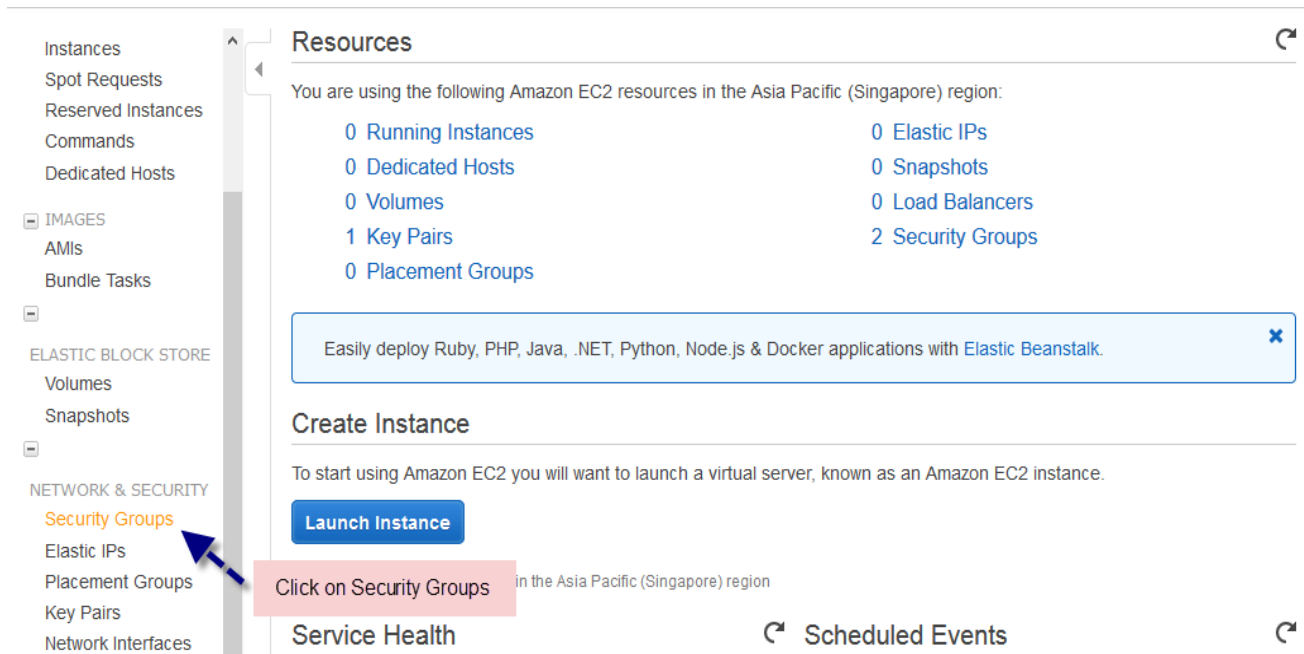
Click on Create Security Group to create a new security group.

A popup window will come then specify the Security Group name, add a description, select VPC from the VPC drop down list (It will only display VPC's available on your region) and then click on Add Rule to add rules to your security group.
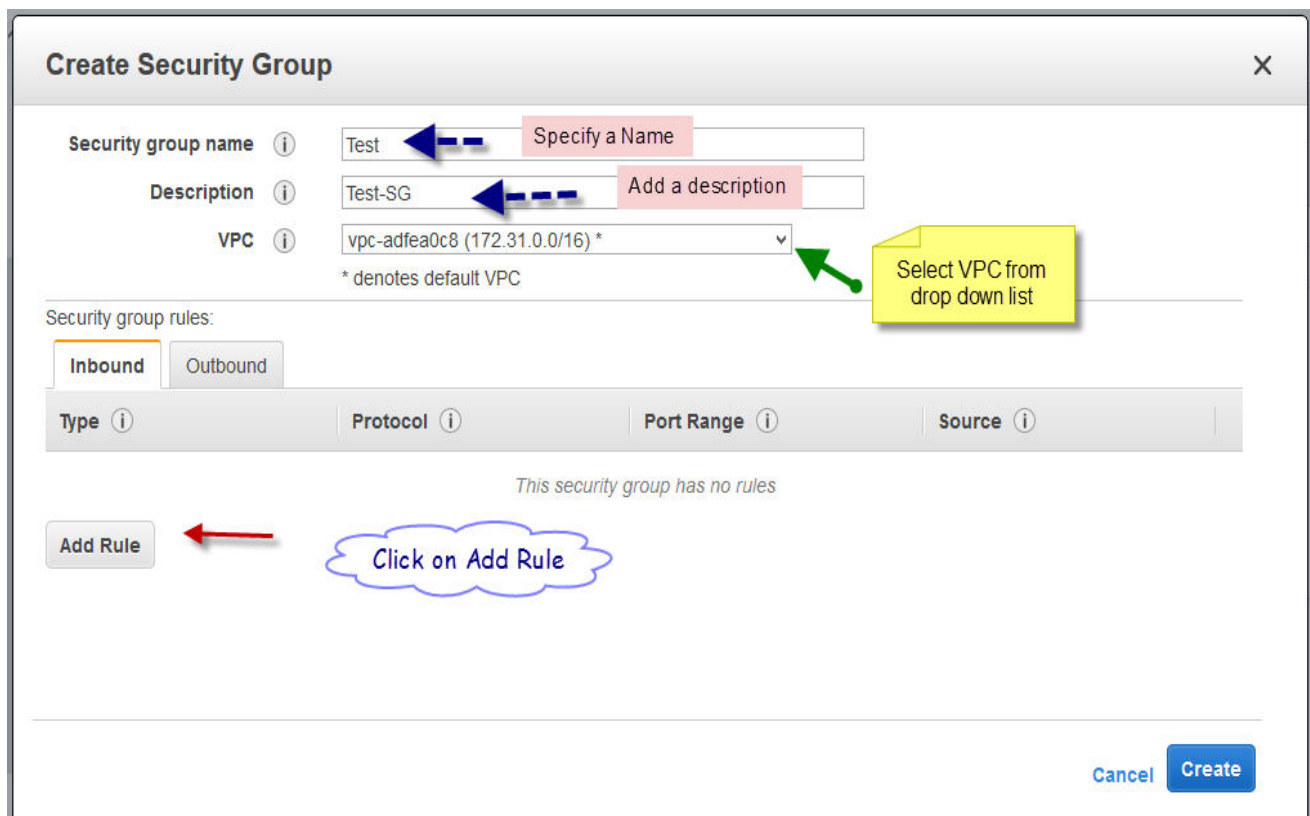
Select specific rule which is required, I selected HTTP to open 80 port on the security group.
You can either select Custom TCP rule or Custom UDP rule and specify the port which you want to open.
Or you can specify TCP or UDP and specify a range of IP addresses (20-100).
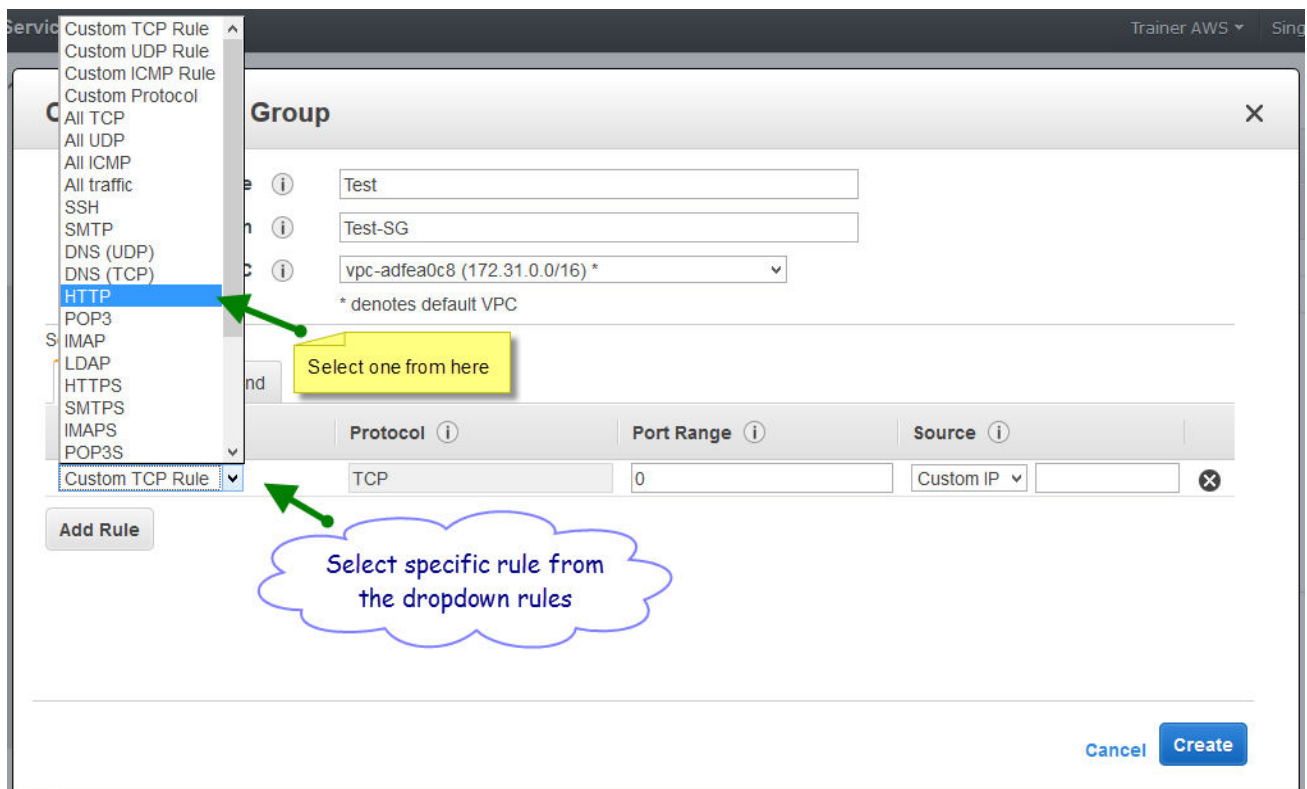
Then select source IP address from by selecting Source drop down list either Custom IP, Anywhere or My IP then click create.
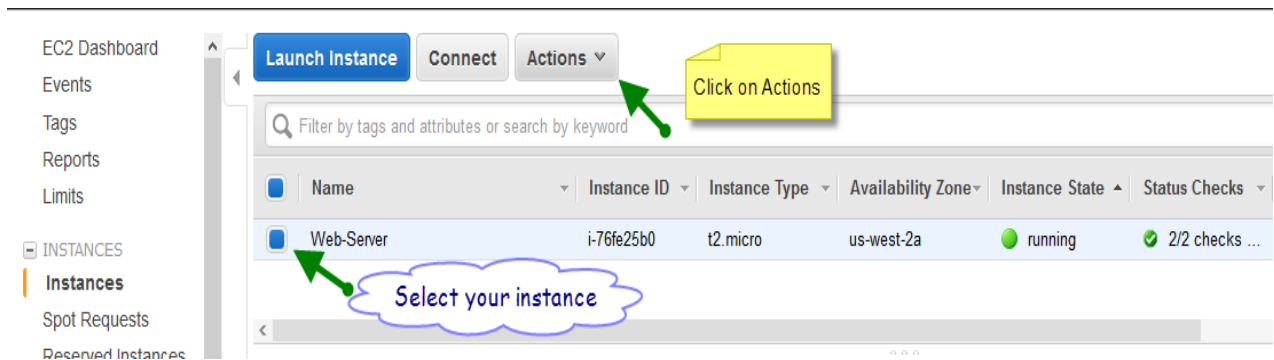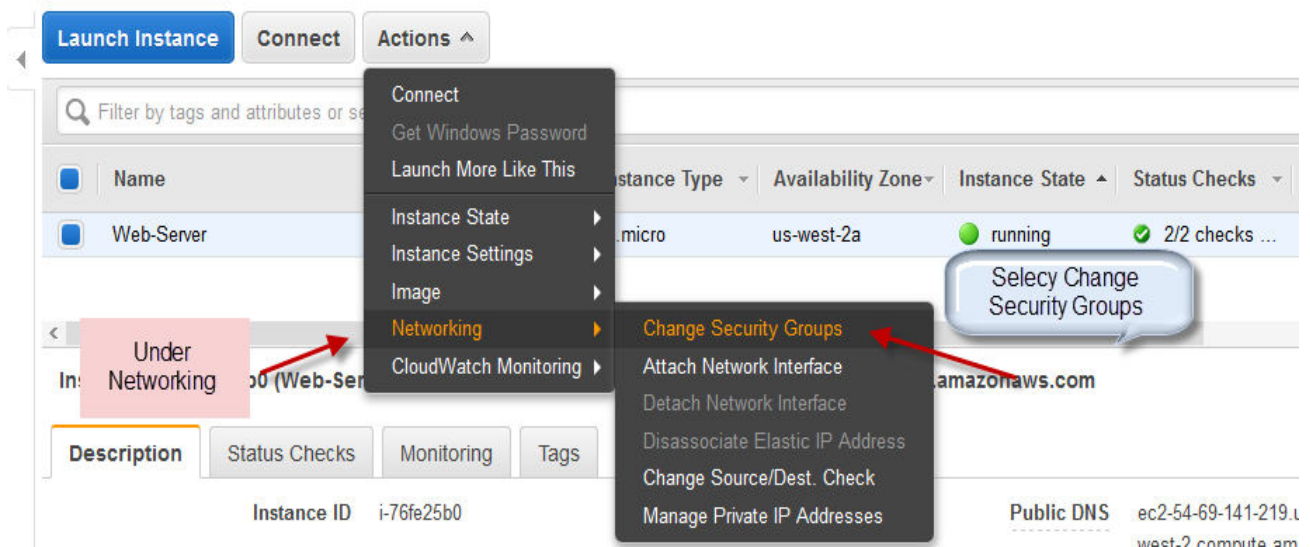

The same will applies to Outbound as well, where we can restrict either by Port or by IP address.

CHANGING OR ADDING SECURITY GROUPS TO YOUR EXISTING INSTANCES:

Click the instance from Instance tab and select the instance, then click on Actions.

Then go to Networking and under networking select Change Security groups.

Then select Security groups from the list you want to attach or un select the security groups from the list which you want to remove from your instance.