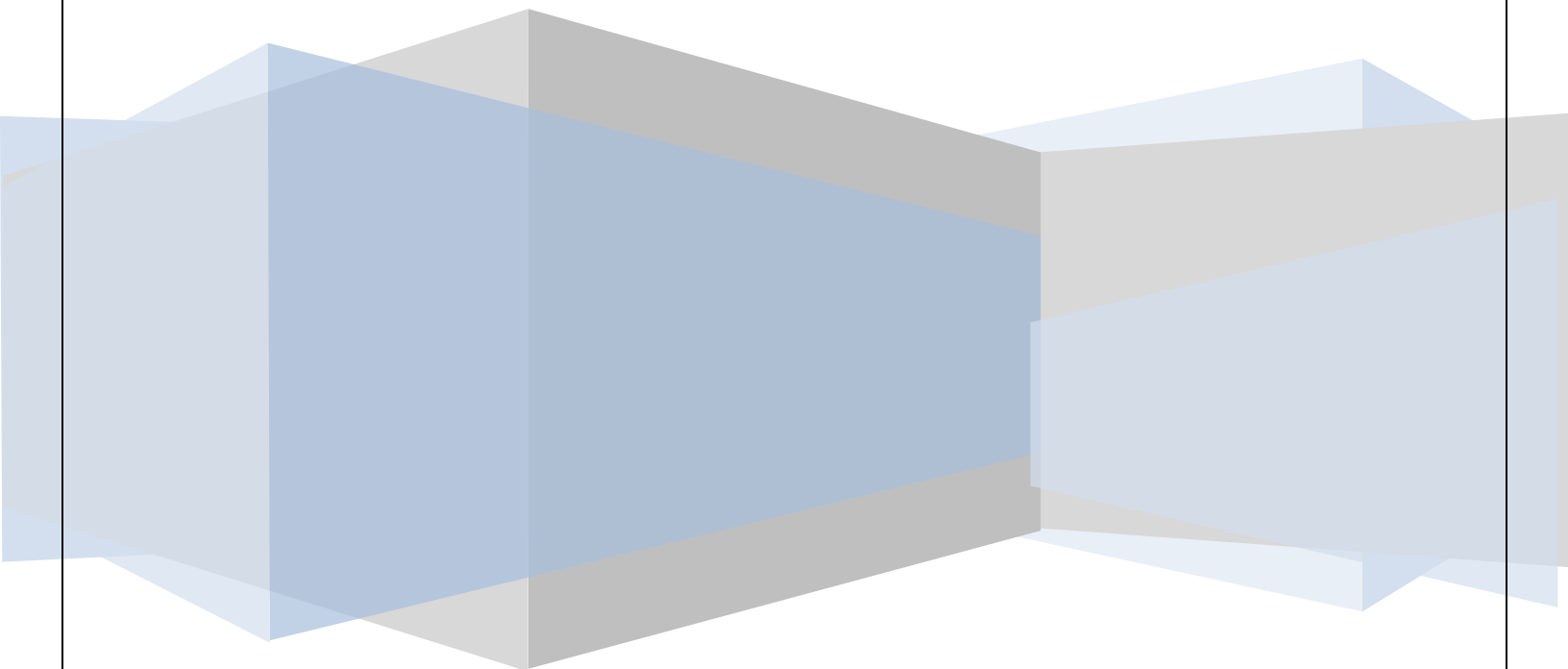


AWS Cloud Training
AWS SECURITY GROUPS



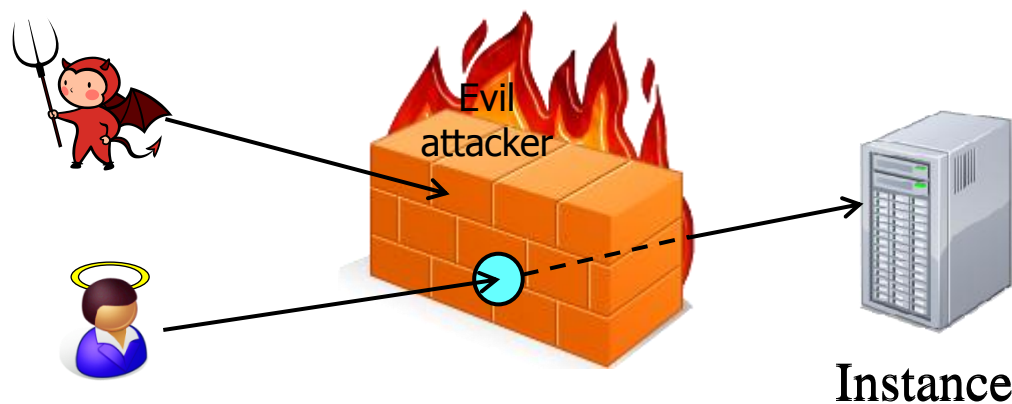
SECURITY GROUPS:

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.



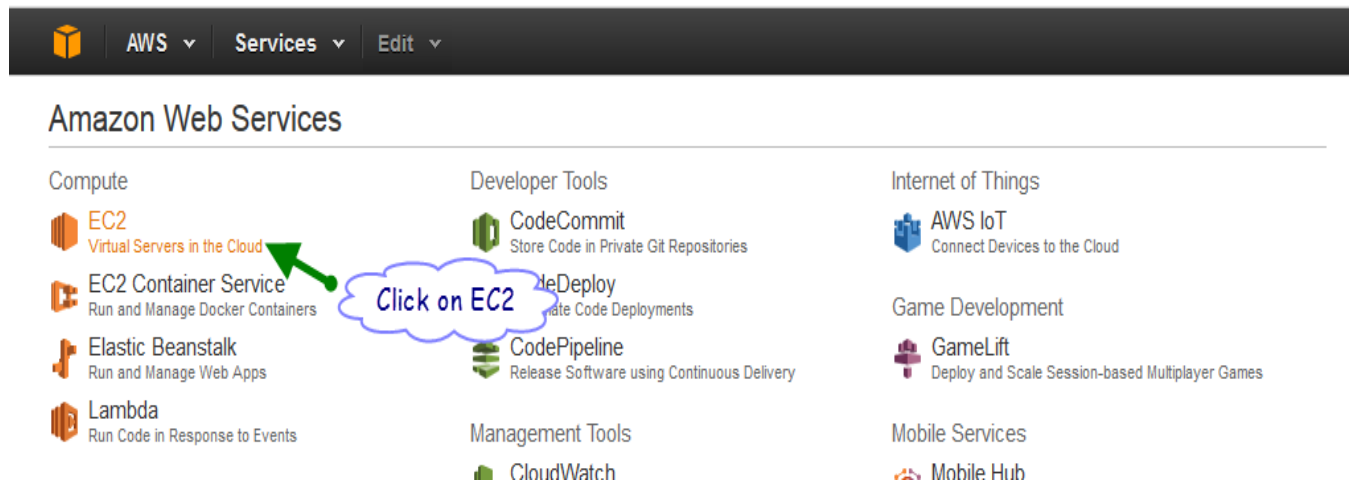
sg-a9b86bcd	test	vpc-adfea0c8	test
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Security Group: sg-a9b86bcd			
Description	Inbound	Outbound	Tags

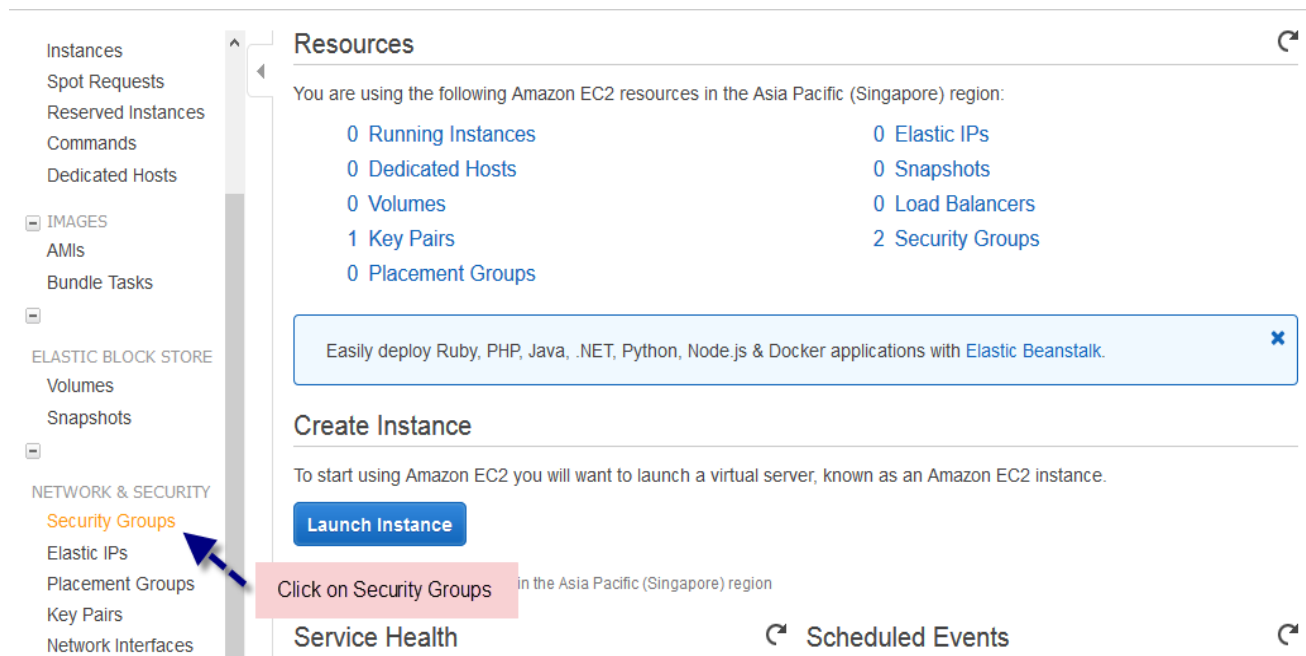
Edit			
------	--	--	--

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

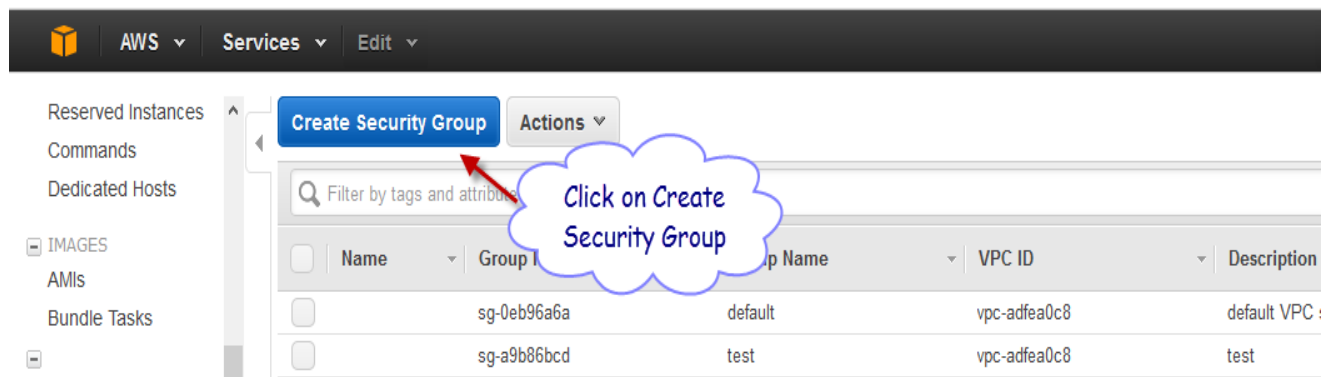
Once you logged in to AWS management console, go to EC2 section.



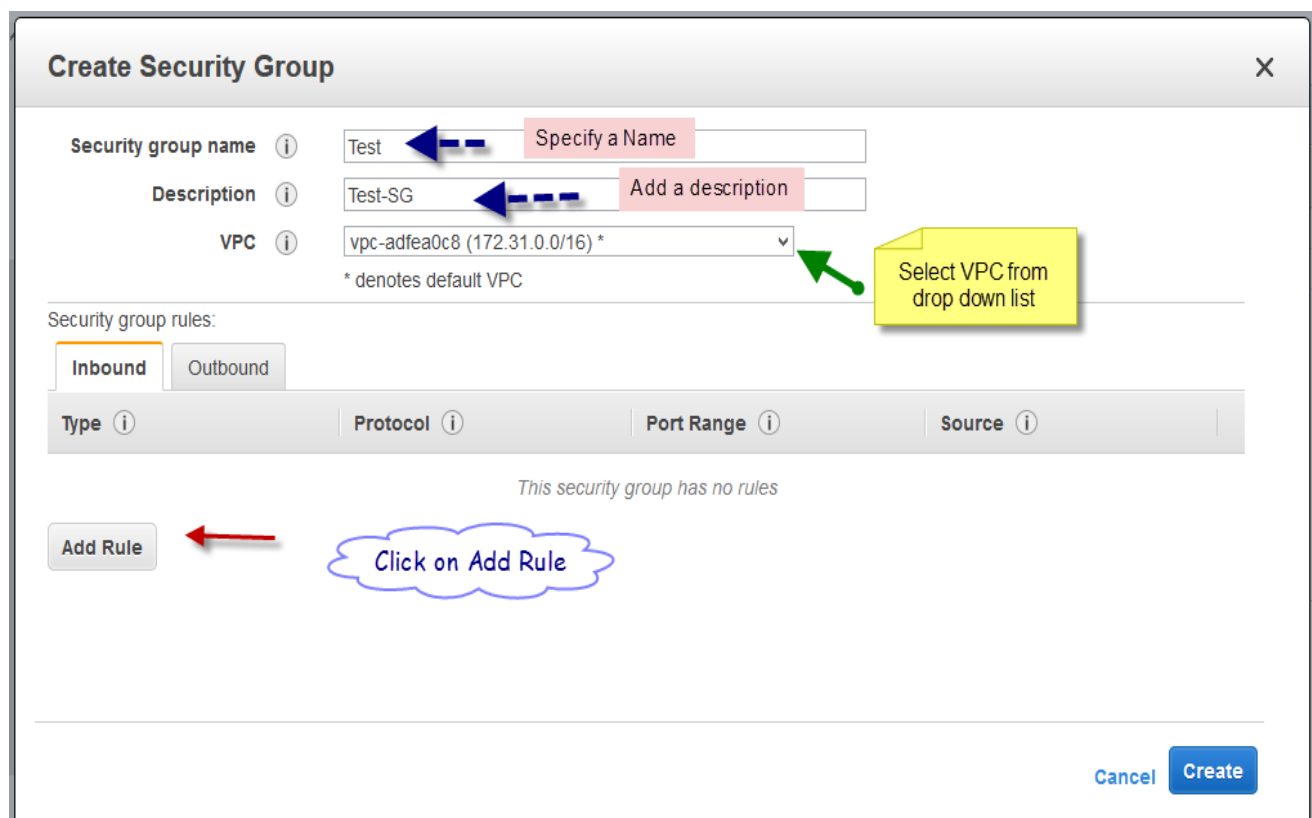
Click on Security groups section under NETWORK & SECURITY from the left pane.



Click on Create Security Group to create a new security group.



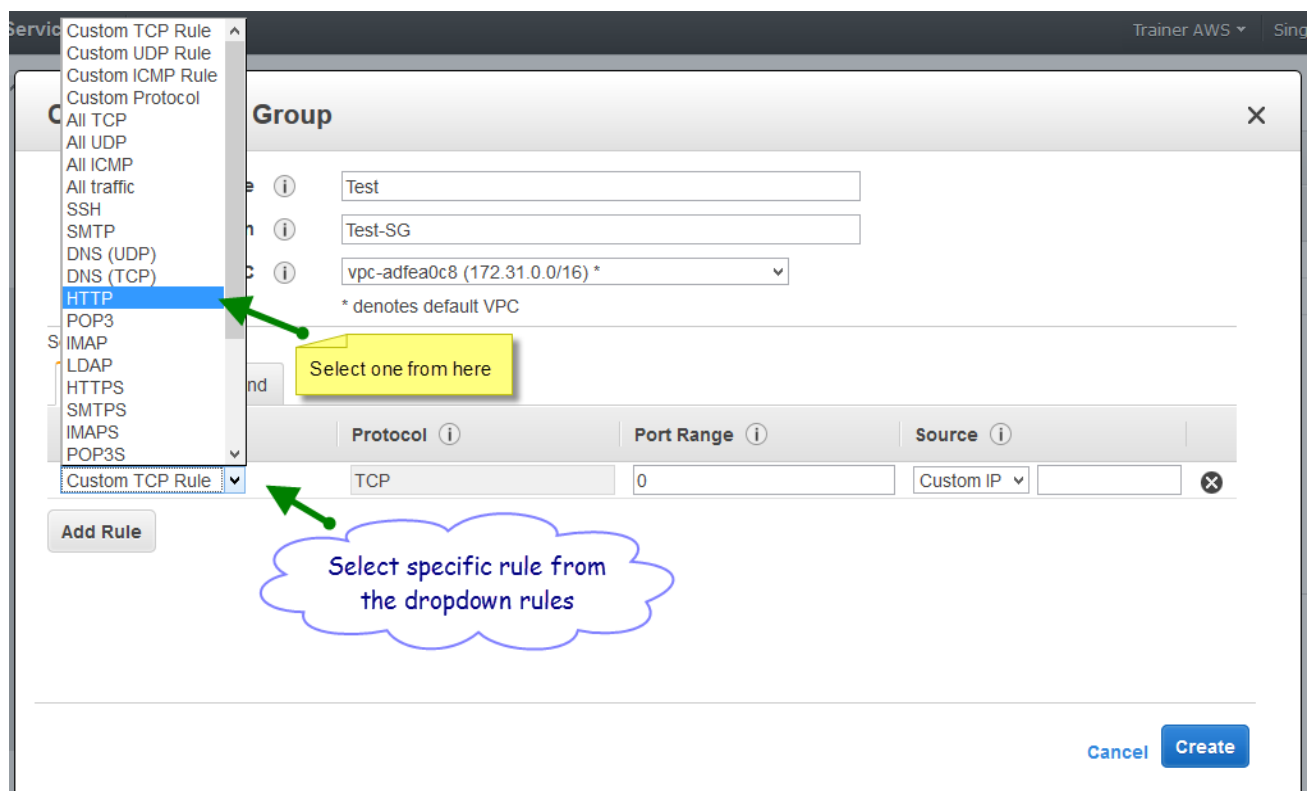
A popup window will come then specify the Security Group name, add a description, select VPC from the VPC drop down list (It will only display VPC's available on your region) and then click on Add Rule to add rules to your security group.



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.

Create Security Group

×

Security group name ⓘ

Test

Description ⓘ

Test-SG

VPC ⓘ

vpc-adfea0c8 (172.31.0.0/16) *

* denotes default VPC

Security group rules:

Inbound

Outbound

Type ⓘ	Protocol ⓘ	Port Range ⓘ	Source ⓘ
HTTP ▾	TCP	80	<div>Anywhere ▾</div> <div>0.0.0.0/0</div> <div>×</div>

Add Rule

Click create to create rule

Cancel

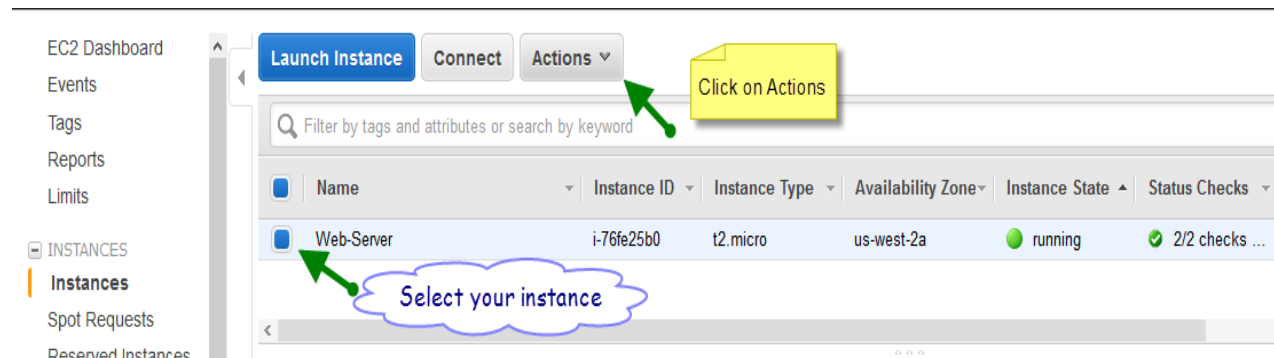
Create

Select from source IP Address

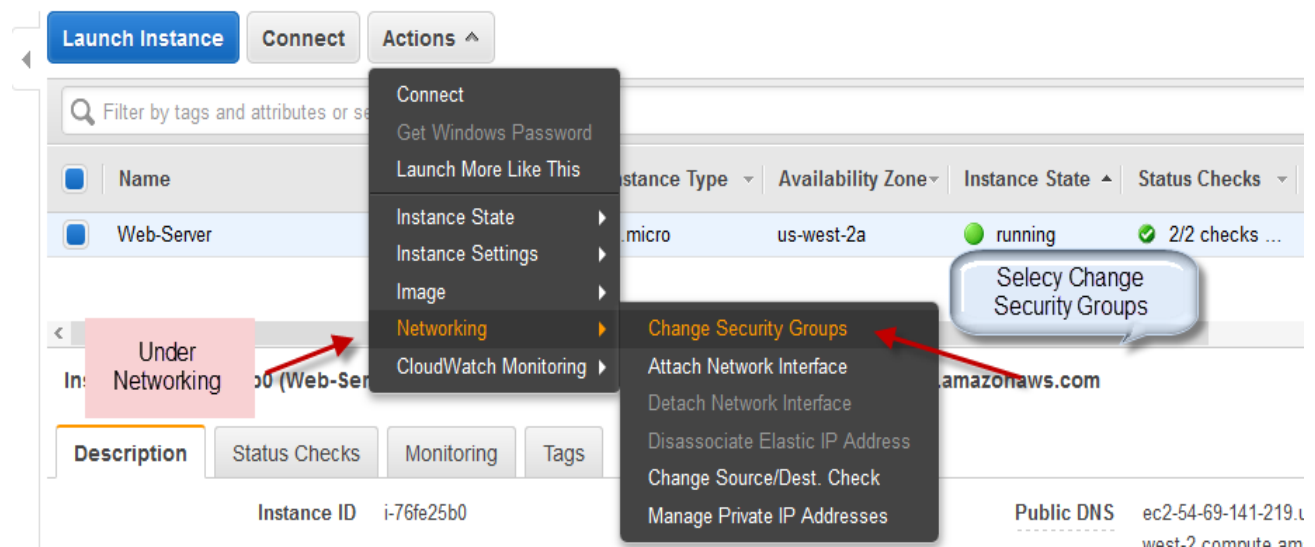
The same will applies to Outbound as well, where we can restrict either by Port or by IP address.

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.

Change Security Groups

Instance ID:i-76fe25b0

Interface ID:eni-7a5e2633

Select Security Group(s) to associate with your instance

	Security Group ID	Security Group Name	Description
<input type="checkbox"/>	sg-c1d420a6	AD	AD
<input type="checkbox"/>	sg-8b2bf1ef	default	default VPC security group
<input type="checkbox"/>	sg-05	http-test	http-test
<input type="checkbox"/>	sg-e933df8e	Mail	Mail
<input checked="" type="checkbox"/>	sg-cf88caa8	test	test
<input checked="" type="checkbox"/>	sg-1f7d557b	Training	Training SG
<input checked="" type="checkbox"/>	sg-1a2cf67e	web	web server

Select SG

Cancel

Assign Security Groups