Autoscaling of ec2 instances
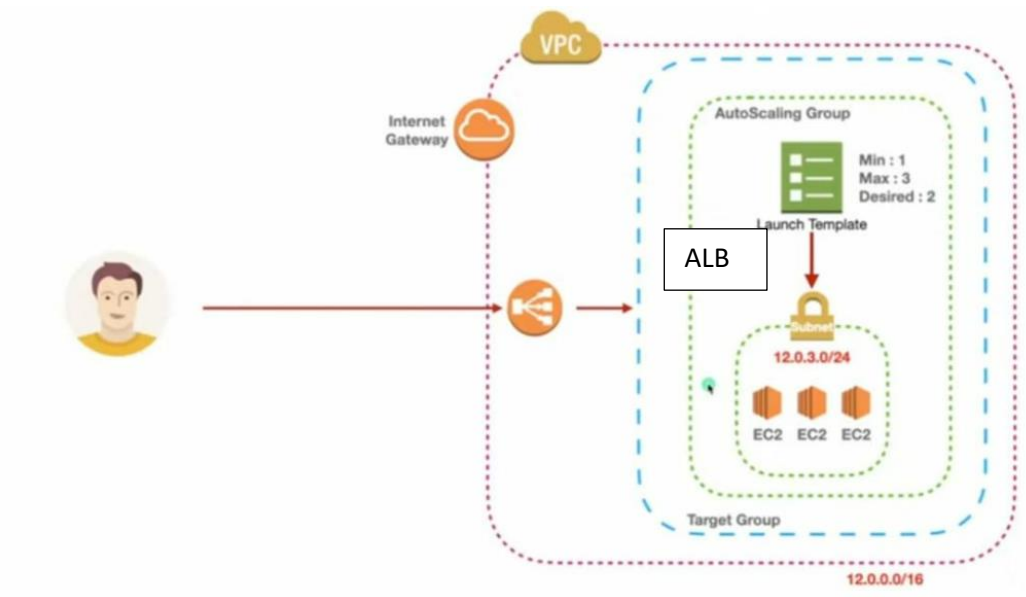

Steps:

Create 1 VPC-12.0.0./16

Create igw

Create 2 public subnet---12.0.1.0/24 & 12.0.3.0/24

Create route---subnet association, edit route

Ec2 instances are created by autoscaling grp(later)

Create target group---target-ec2-apache—Blank target group(No instances yet)—next--ok

Create load balancer—alb—select vpc—select 2 subnets—select one default security group & create a new security group (with inbound rule http)—select TG—next---done
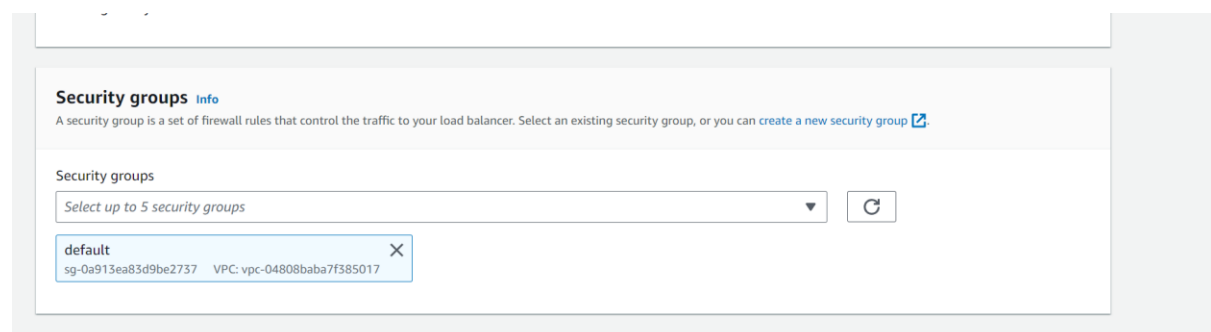
Security groups Info

A security group is a set of firewall rules that control the traffic to your load balancer. Select an existing security group, or you can create a new security group ↗.

Security groups

Select up to 5 security groups ▲ | ⟳

🔍

☑ default
  sg-0a913ea83d9be2737   VPC: vpc-04808baba7f385017

☑ alb-sg-for-http-request
  sg-0e781e1fdeb728194   VPC: vpc-04808baba7f385017

EC2 ＞ Security Groups ＞ sg-0e781e1fdeb728194 - alb-sg-for-http-request

sg-0e781e1fdeb728194 - alb-sg-for-http-request

Actions ▼

Details

Security group name	Security group ID	Description	VPC ID
🗐 alb-sg-for-http-request	🗐 sg-0e781e1fdeb728194	🗐 allow http req	🗐 vpc-04808baba7f385017 ↗
Owner	Inbound rules count	Outbound rules count	
🗐 389363067735	1 Permission entry	1 Permission entry	

Inbound rules | Outbound rules | Tags

Inbound rules (1/1)

⟳ | Manage tags | Edit inbound rules

🔍 Search   ＜ 1 ＞ ⚙

☑	Name ▽	Security group rule... ▽	IP version ▽	Type ▽	Protocol ▽
☑	–	sgr-03fdef396dba2d1dd	IPv4	HTTP	TCP

Create autoscaling grp---create---name it--- create template launch(create a template)---

Select OS,Key pair,type of instance,Do not include subnet,select SG,Assign IP (enable)--- include user data script---create the template---

Next---Default(1)----select VPC—Subnet---Attach existing LB—Select TG—select the health check—set it the period delay to 20 sec ---Desired instance 2, Min instance :1, Max instance 3---Done.

Output:

Instances (3) Info

[↻] | Connect | Instance state ▼ | Actions ▼ | **Launch instances** ▼

Find Instance by attribute or tag (case-sensitive)

Any state ▼ | < 1 > ⚙

☐	Name ✎ ▽	Instance ID	Instance state ▽	Instance type ▽	Status check	Alarm status	Availability Zo
☐		i-0c29929ff4e04c001	⊖ Terminated 🔍 🔍	t2.micro	–	View alarms +	us-east-2b
☐		i-079b2817b883c893a	⊘ Running 🔍 🔍	t2.micro	⊘ 2/2 checks passed	View alarms +	us-east-2a
☐		i-0d921aafc05bc945e	⊘ Pending 🔍 🔍	t2.micro	–	View alarms +	us-east-2b

Instances (3) Info

[↻] | Connect | Instance state ▼ | Actions ▼ | **Launch instances** ▼

Find Instance by attribute or tag (case-sensitive)

Any state ▼ | < 1 > ⚙

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EC2 > Auto Scaling groups > asg-ec2-test-demo

asg-ec2-test-demo

Details | Activity | Automatic scaling | **Instance management** | Monitoring | Instance refresh

Instances (2)

[↻] | Actions ▼

Filter instances

< 1 > ⚙

☐	Instance ID ▲	Lifecycle ▽	Instanc... ▽	Weight... ▽	Launch... ▽	Availab... ▽	Health ... ▽
☐	i-079b2817b883c893a 🔗	InService	t2.micro	-	lt-ec2 🔗 | Vers	us-east-2a	⊘ Healthy
☐	i-0c29929ff4e04c001 🔗	InService	t2.micro	-	lt-ec2 🔗 | Vers	us-east-2b	⚠ Unhealthy..

EC2 > Auto Scaling groups > asg-ec2-test-demo

asg-ec2-test-demo

Details | Activity | Automatic scaling | **Instance management** | Monitoring | Instance refresh

Instances (3)

[↻] | Actions ▼

Filter instances

< 1 > ⚙

☐	Instance ID ▲	Lifecycle ▽	Instanc... ▽	Weight... ▽	Launch... ▽	Availab... ▽	Health ... ▽
☐	i-079b2817b883c893a 🔗	InService	t2.micro	-	lt-ec2 🔗 | Vers	us-east-2a	⊘ Healthy
☐	i-0c29929ff4e04c001 🔗	Terminating	t2.micro	-	lt-ec2 🔗 | Vers	us-east-2b	⚠ Unhealthy..
☐	i-0d921aafc05bc945e 🔗	InService	t2.micro	-	lt-ec2 🔗 | Vers	us-east-2b	⊘ Healthy

Therefor Desired Two instance are automatically launched , If ay instance is unhealthy, Autoscaling grp template will automatically create the health instances.