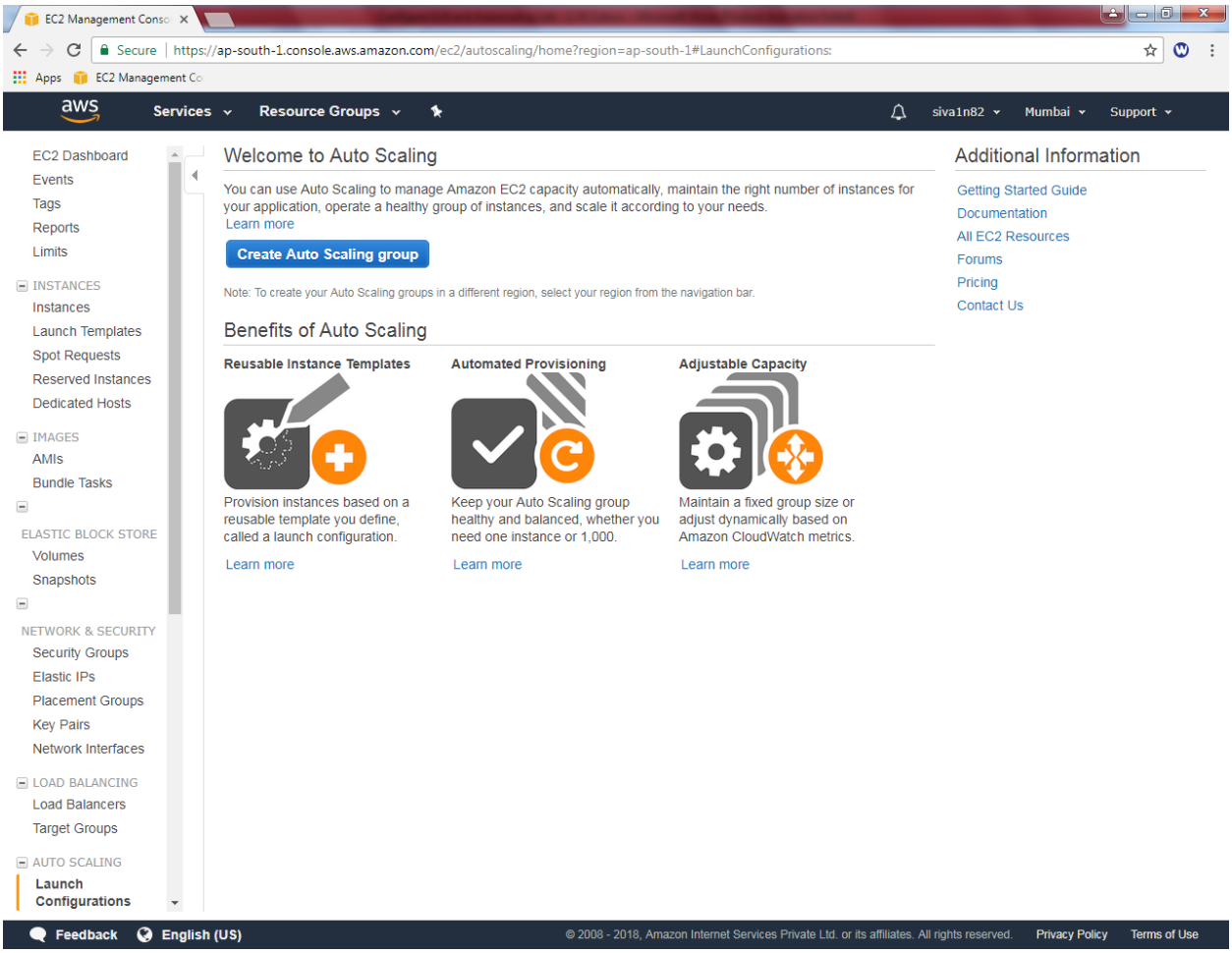
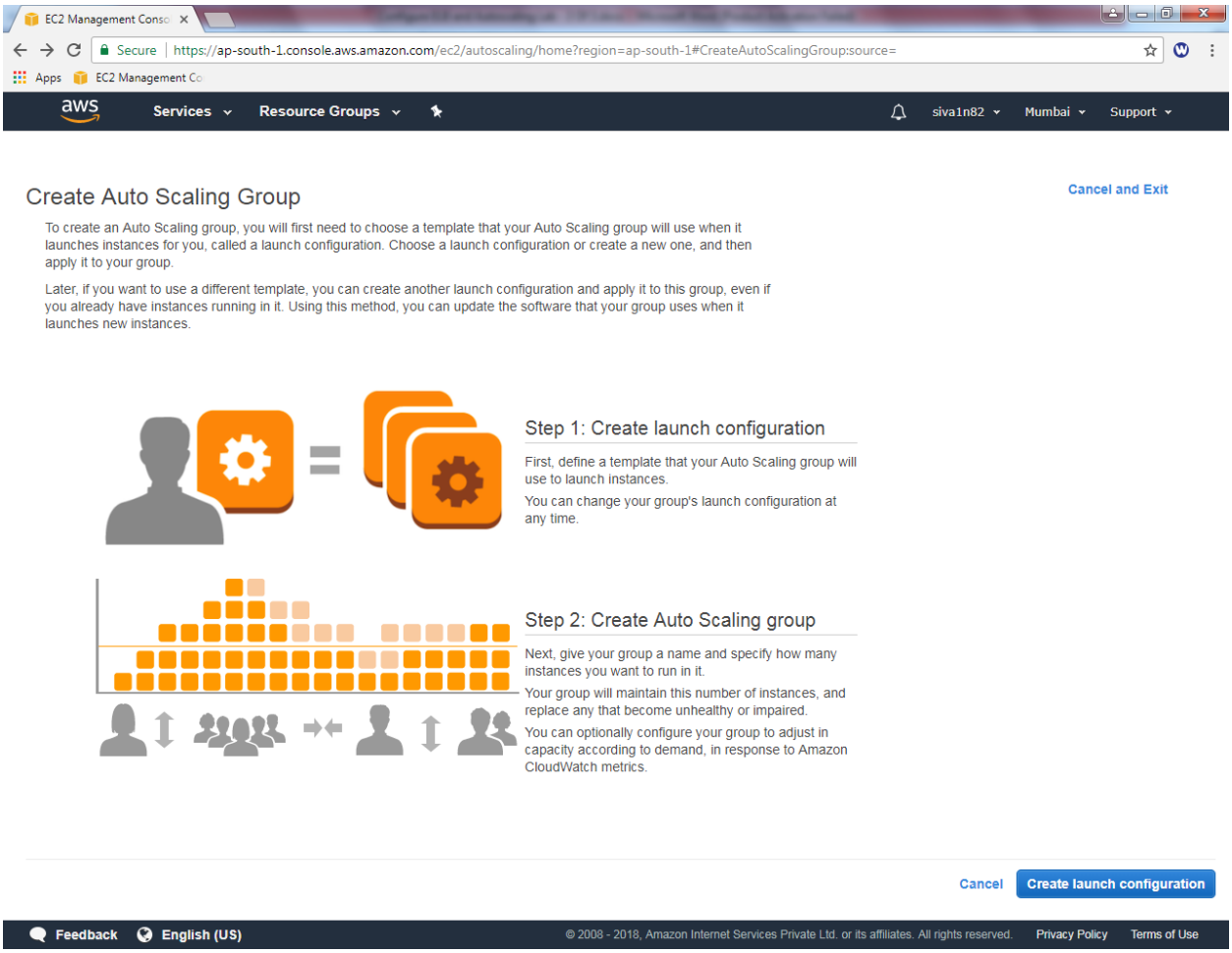
Configure ELB and Autoscaling Lab – 3 of 3

Note: Before configure autoscaling group, you need to stop the all linux webservers.

In EC2-Dashboard, click Launch configurations under “Auto Scaling”.

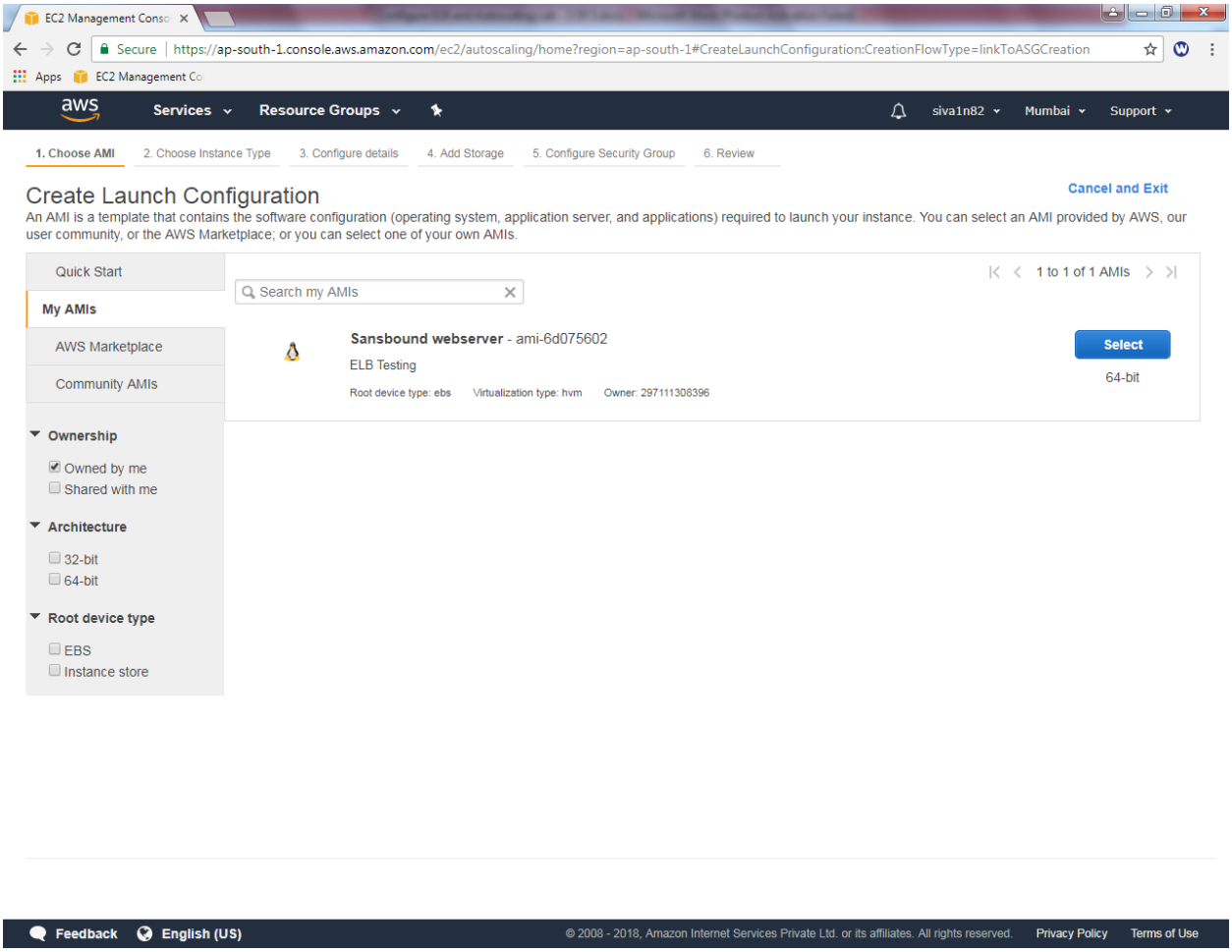


Click “create auto scaling group”.

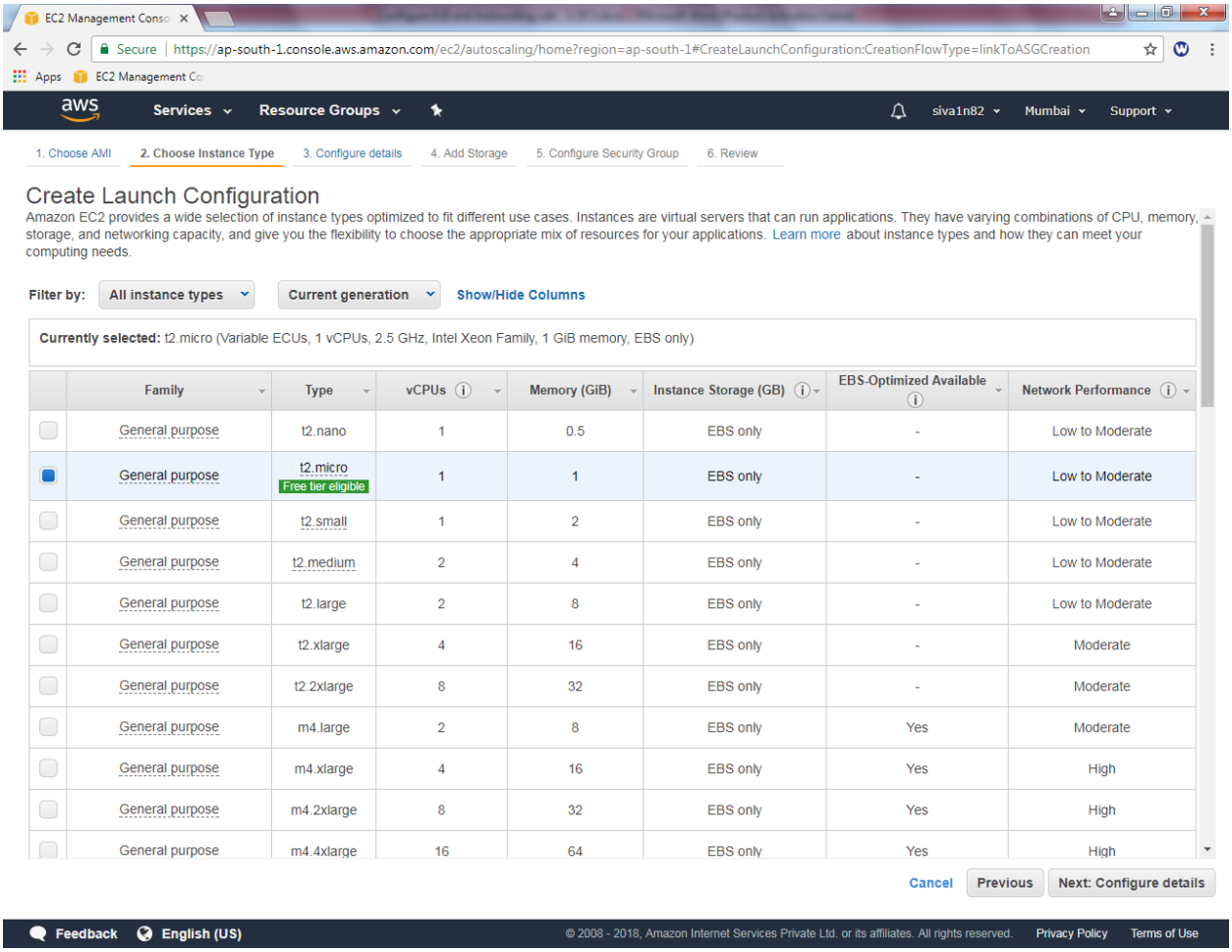


Click “Create Launch configuration”.

Click “My AMIs” and select



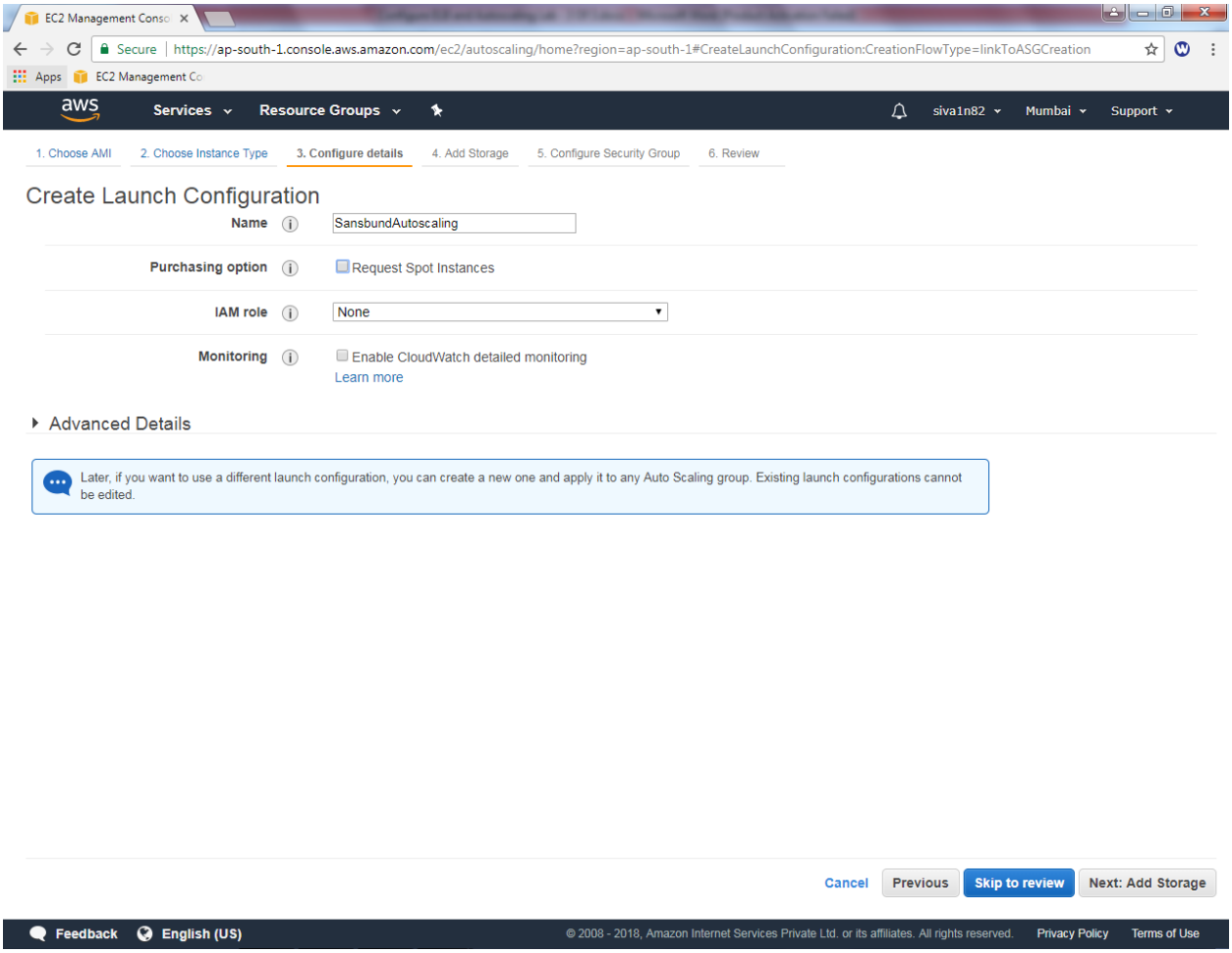
Select “t2.micro”



Click “Next”.

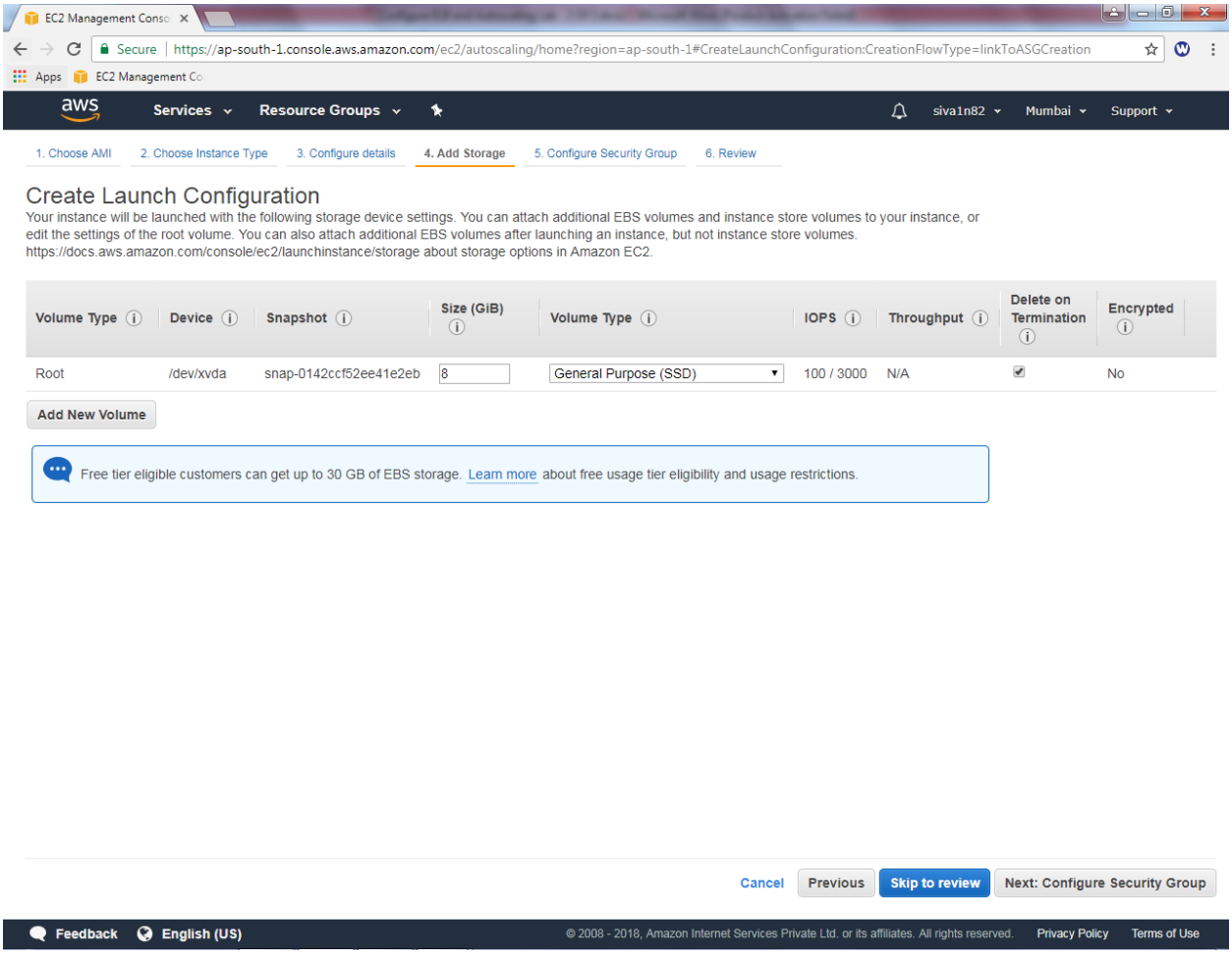
Create Launch Configuration,

Name : SansboundAutoscaling

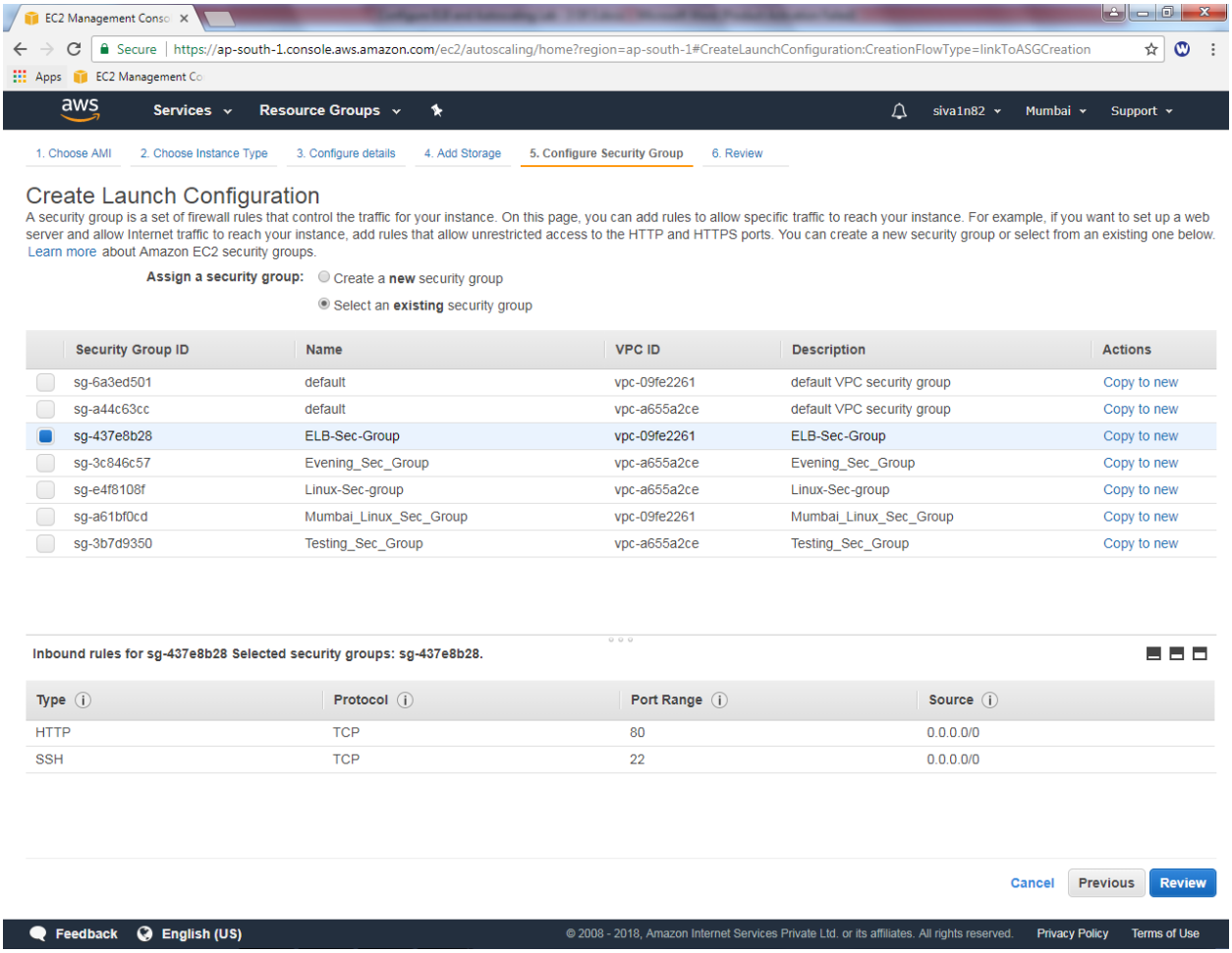


Click “Next”.

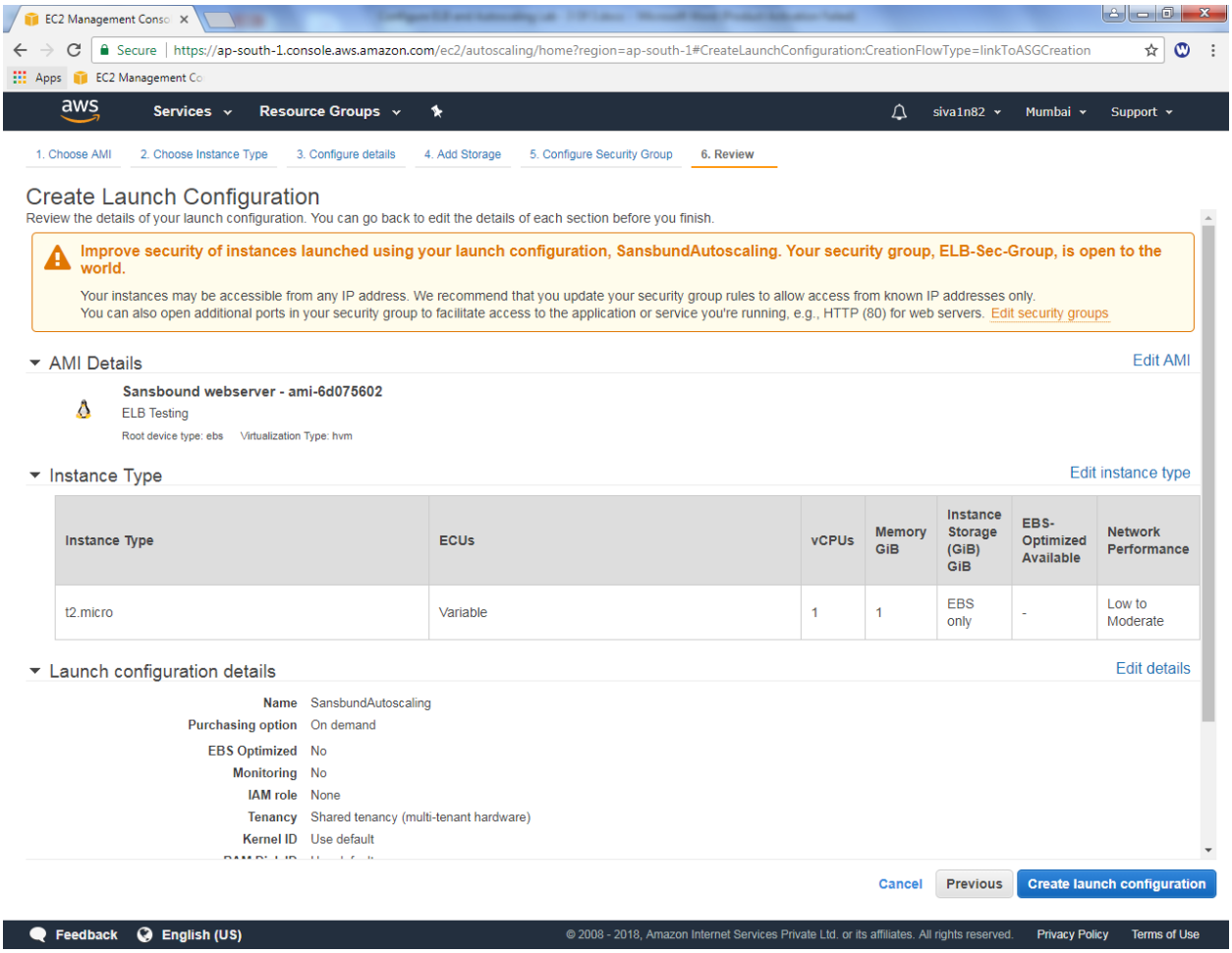
Leave settings as default and click ”Next”.



Select “ELB-Sec-Group”.



Click “Review”.



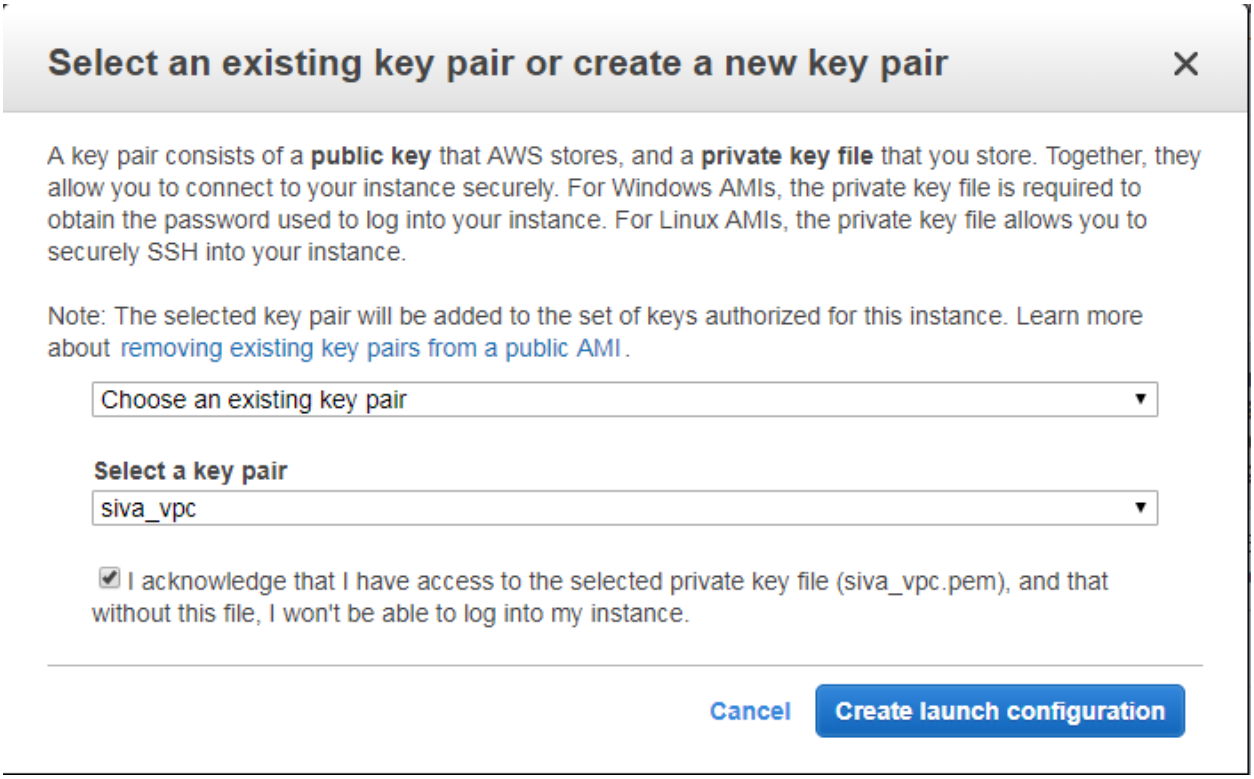
Click ”Create Launch configuration”.

While launch the instance, it asks select existing key pair or create a new key pair.

I will choose “Choose an existing key pair”.

Selecr the “siva_vpc” key pair.

Click “I acknowledge “check box.



Click “create Launch configuration”.

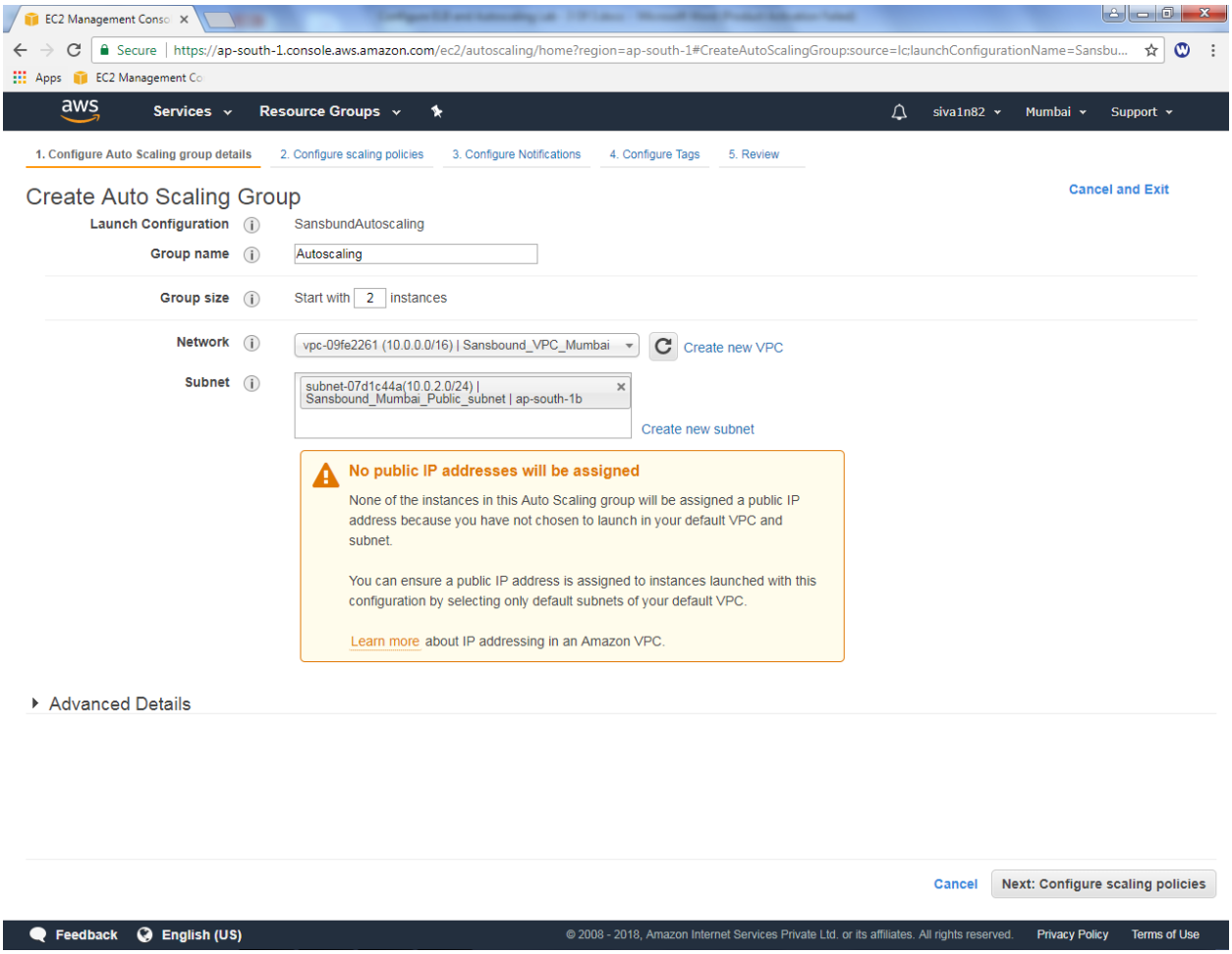
Now it’s creating Auto scaling group,

Group name : Autoscaling

Group size : **2 instances**

Network : Select Sansbound_VPC_Mumbai

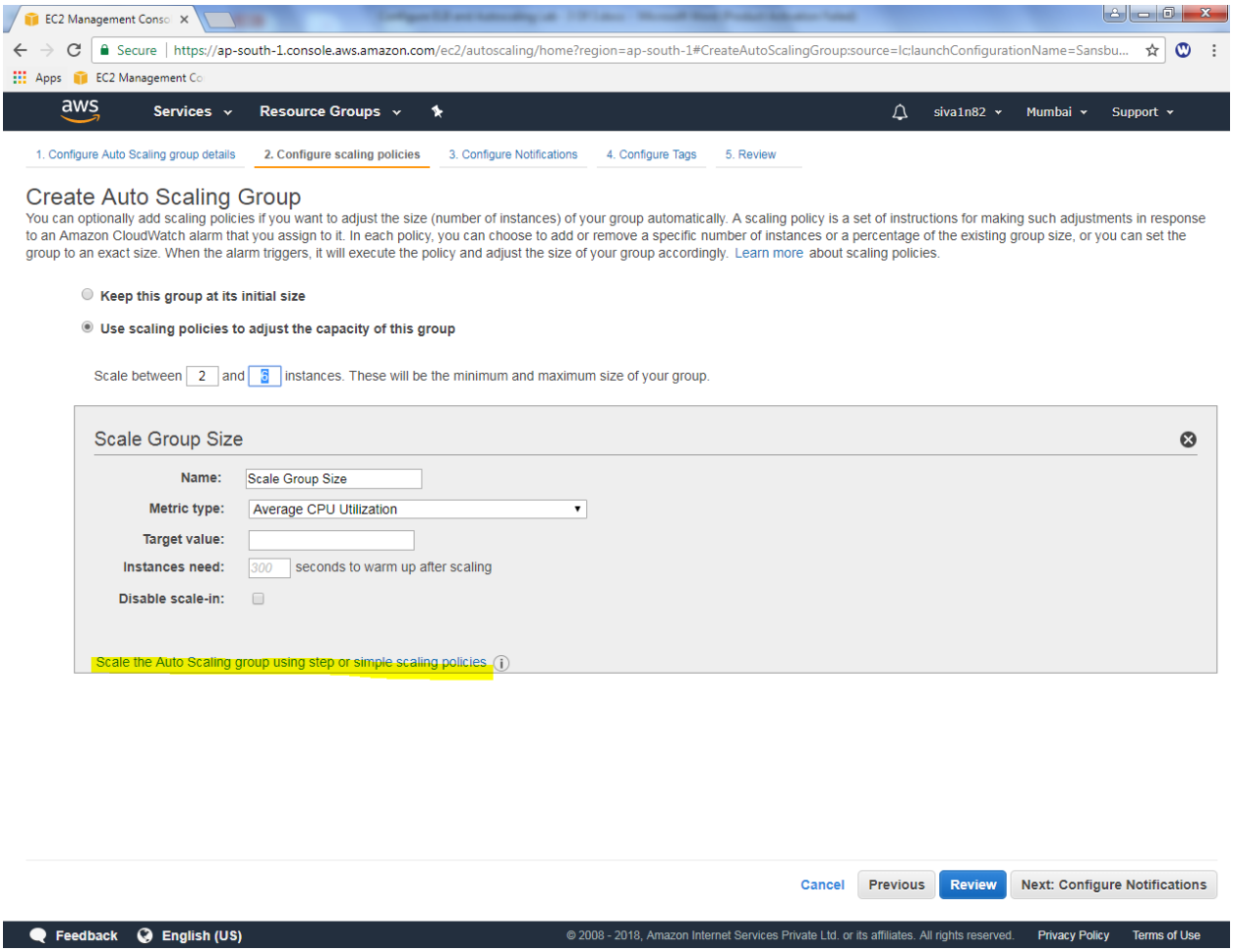
Subnet : **click the subnet box then only the subnet details will be shown**



Click “Next”.

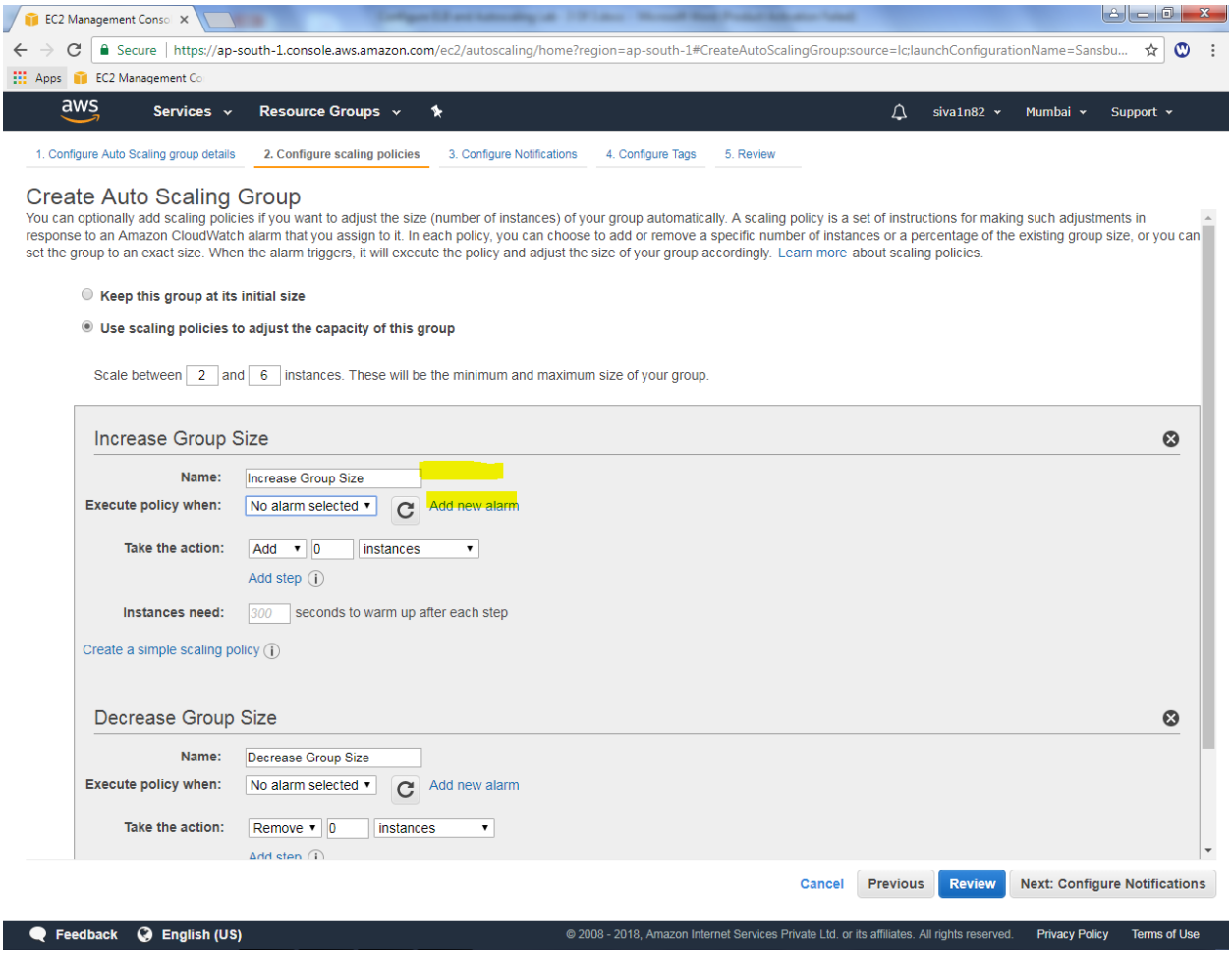
Select “Use scaling policies …..”

Scale between 2 and 6 instances (Mininum 2 and maximum 6 instances).



Click “Scale the auto scaling group using step or simple scaling policies”.

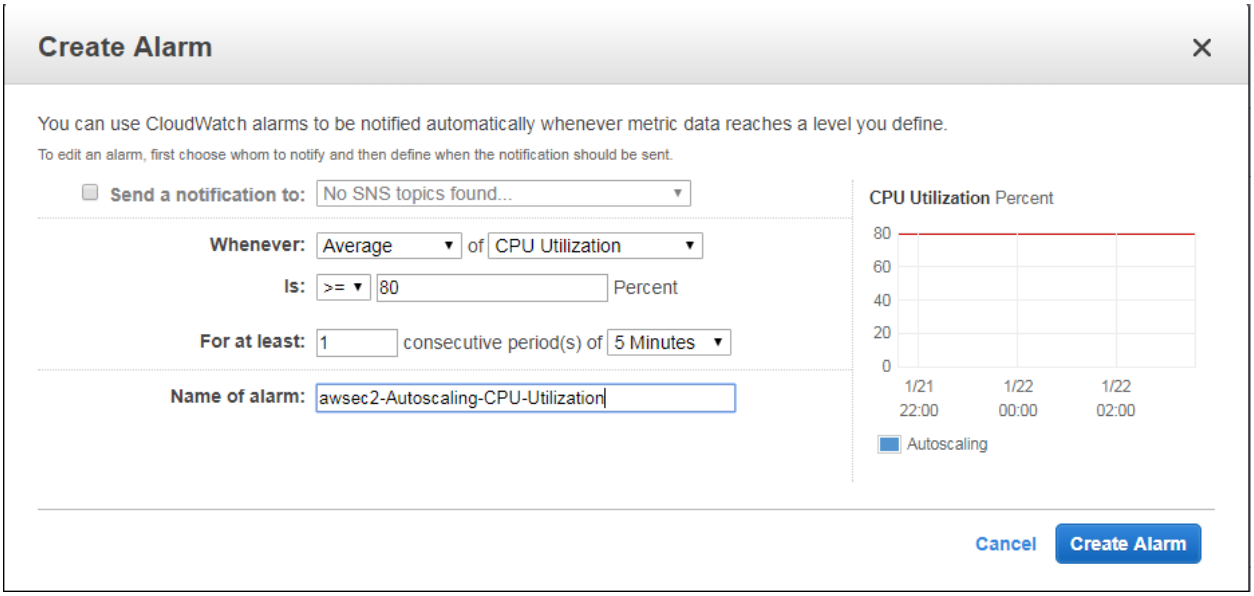
In Increase group size, click “**add new alarm”**



While creating alarm,

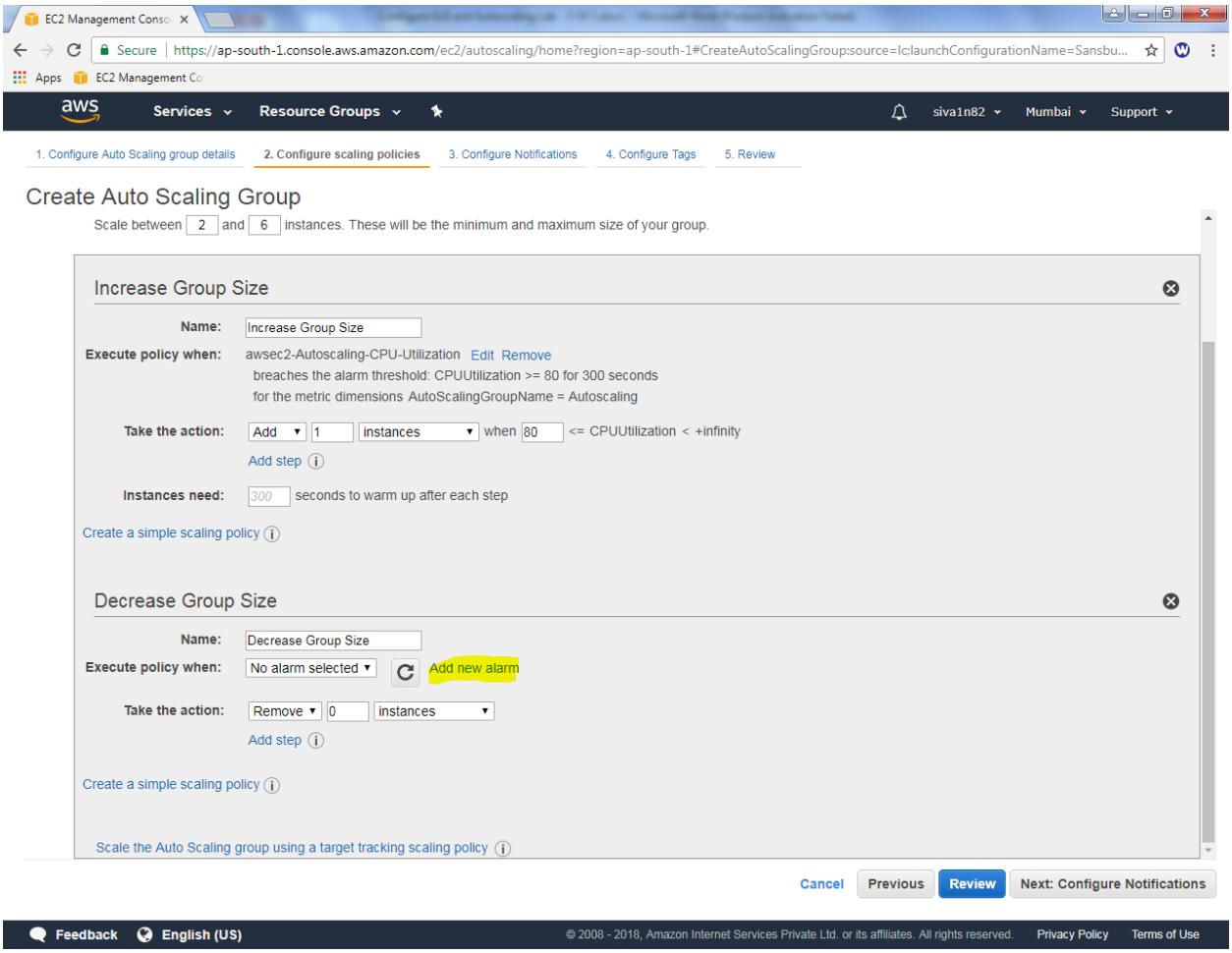
Uncheck the “send a notification to” checkbox.

When average of CPU utilization is >= 80 % one instance will be created.



Click “Create Alarm”

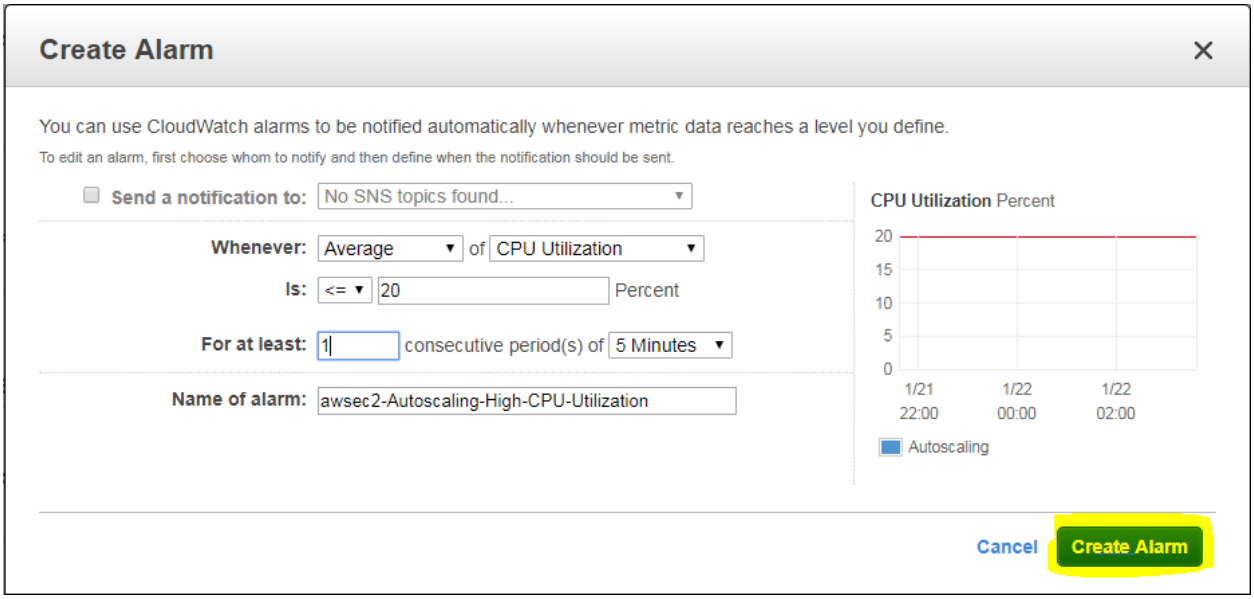
In Decrease group size, click “**add new alarm”**



While creating alarm,

Uncheck the “send a notification to” checkbox.

When average of CPU utilization is <= 20 % one instance will be deleted.

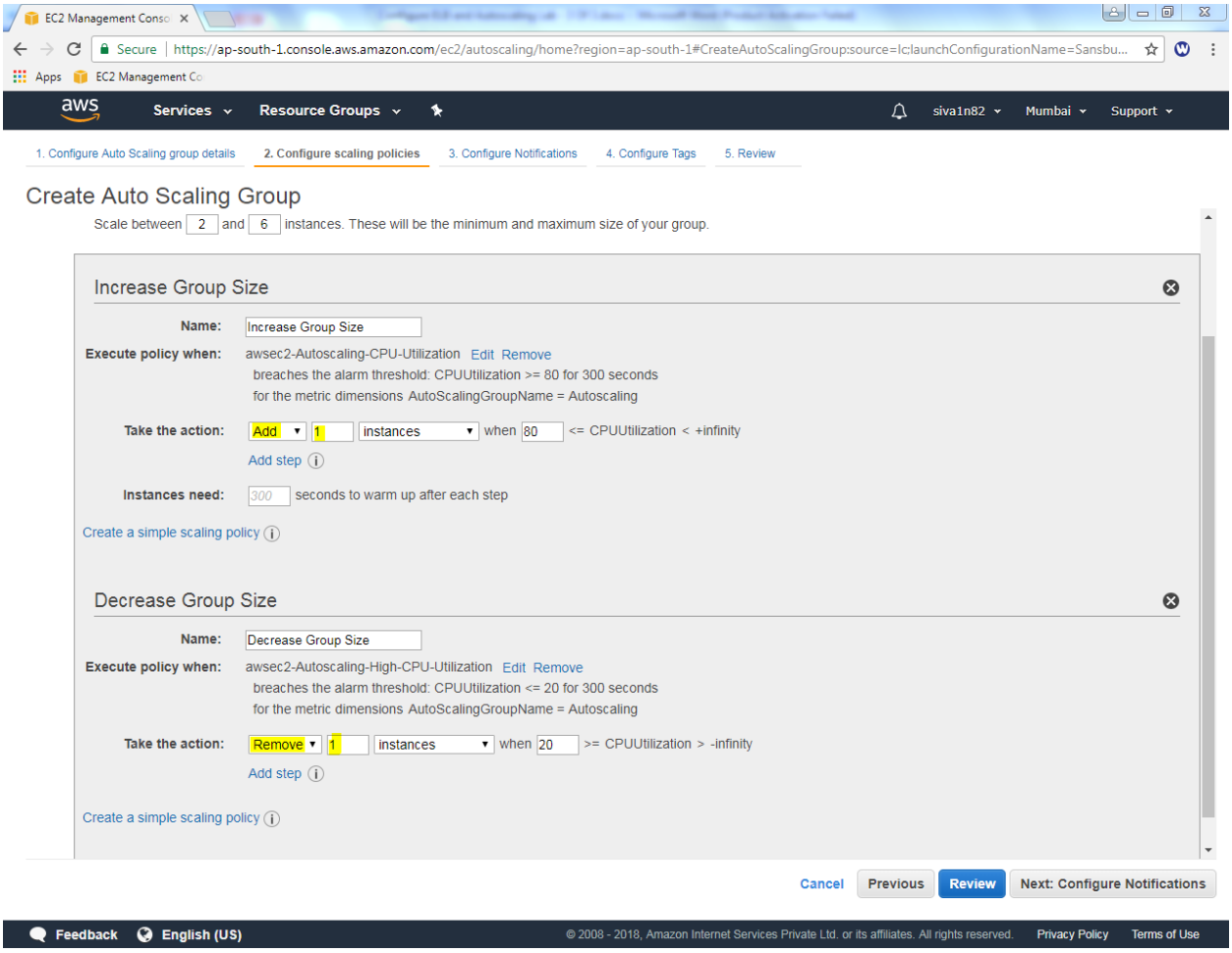


Click “Create Alarm”.

In Increase Group size

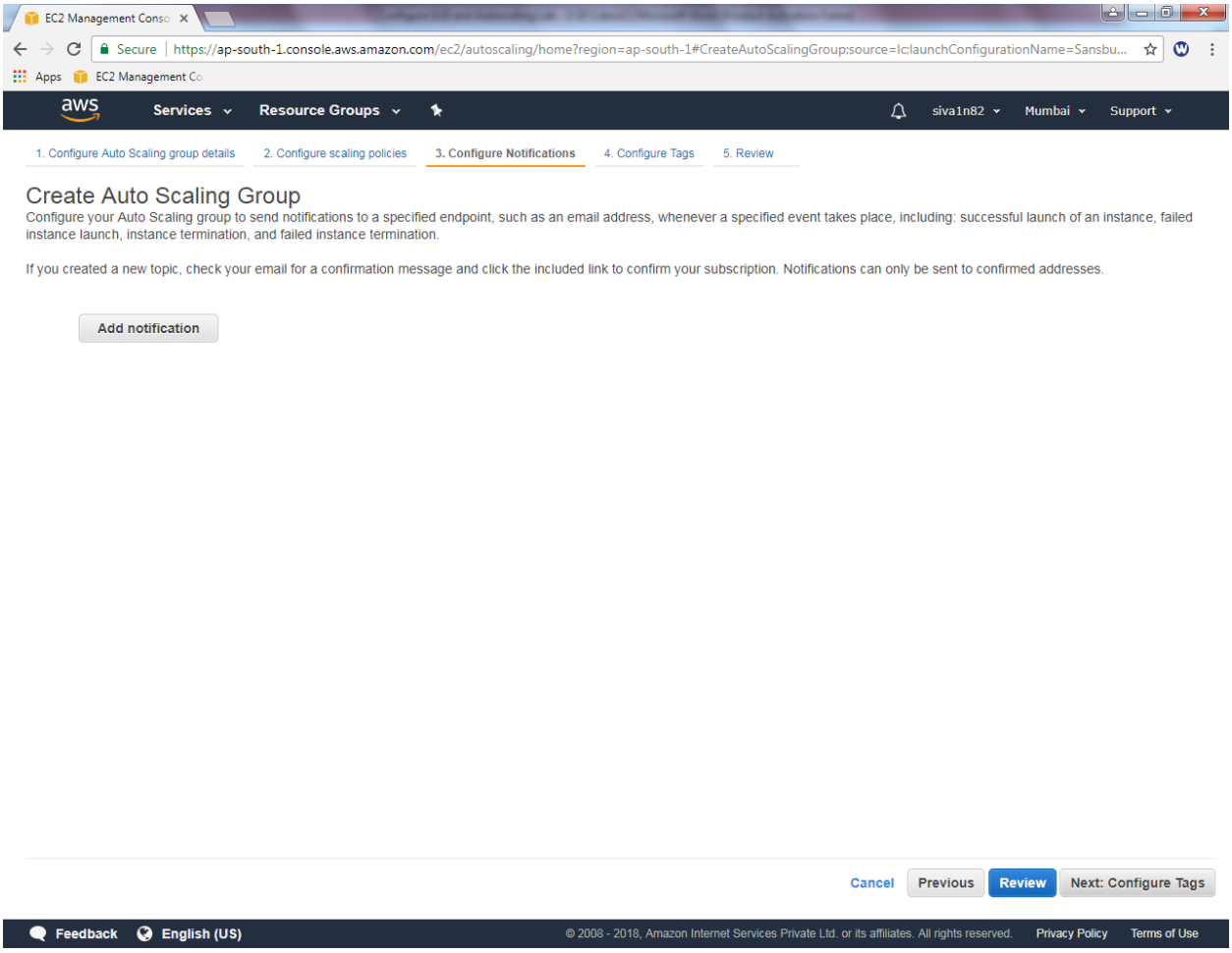
Add 1 instance when 80 %

Remove 1 instance when 20 %

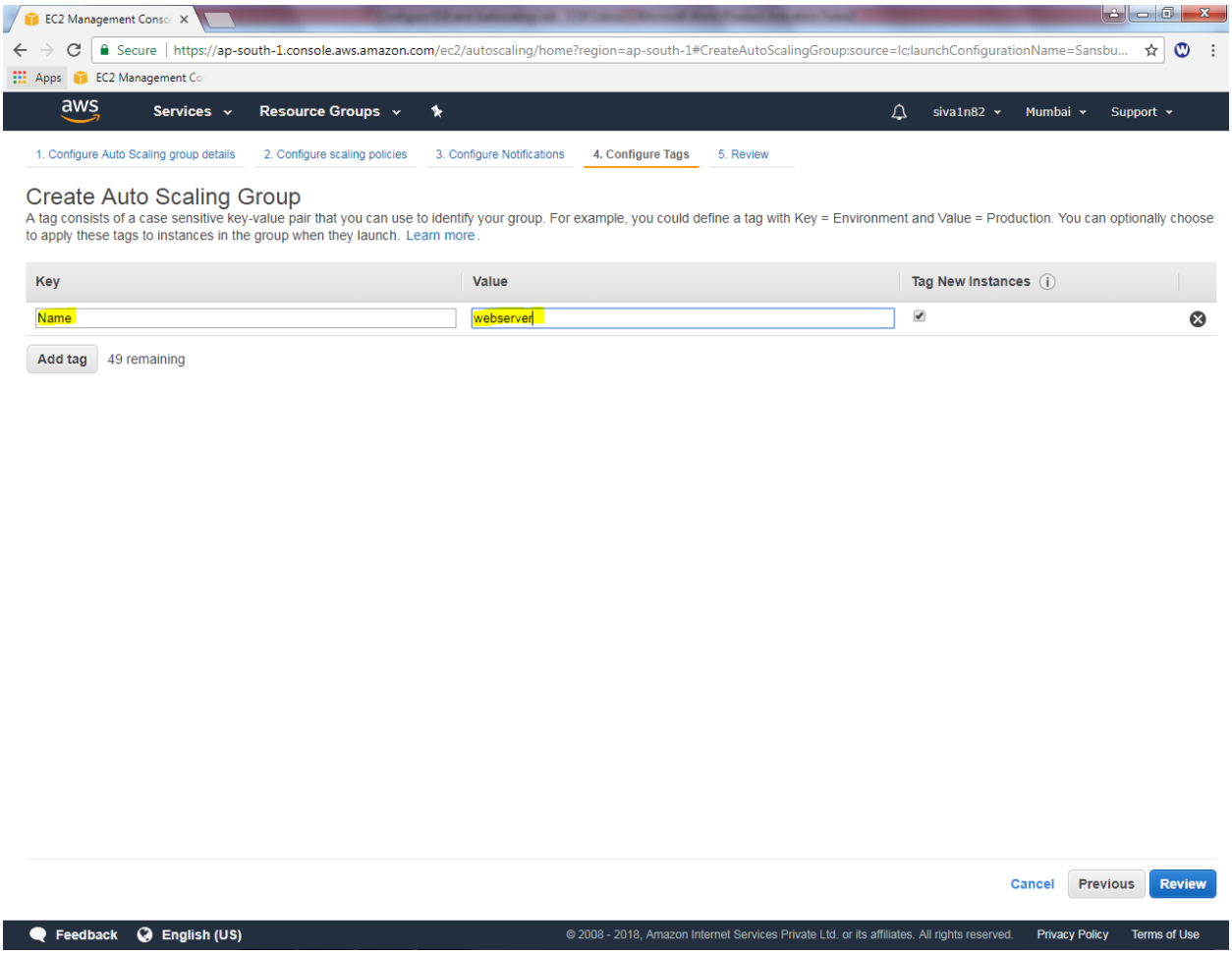


Click “Next”.

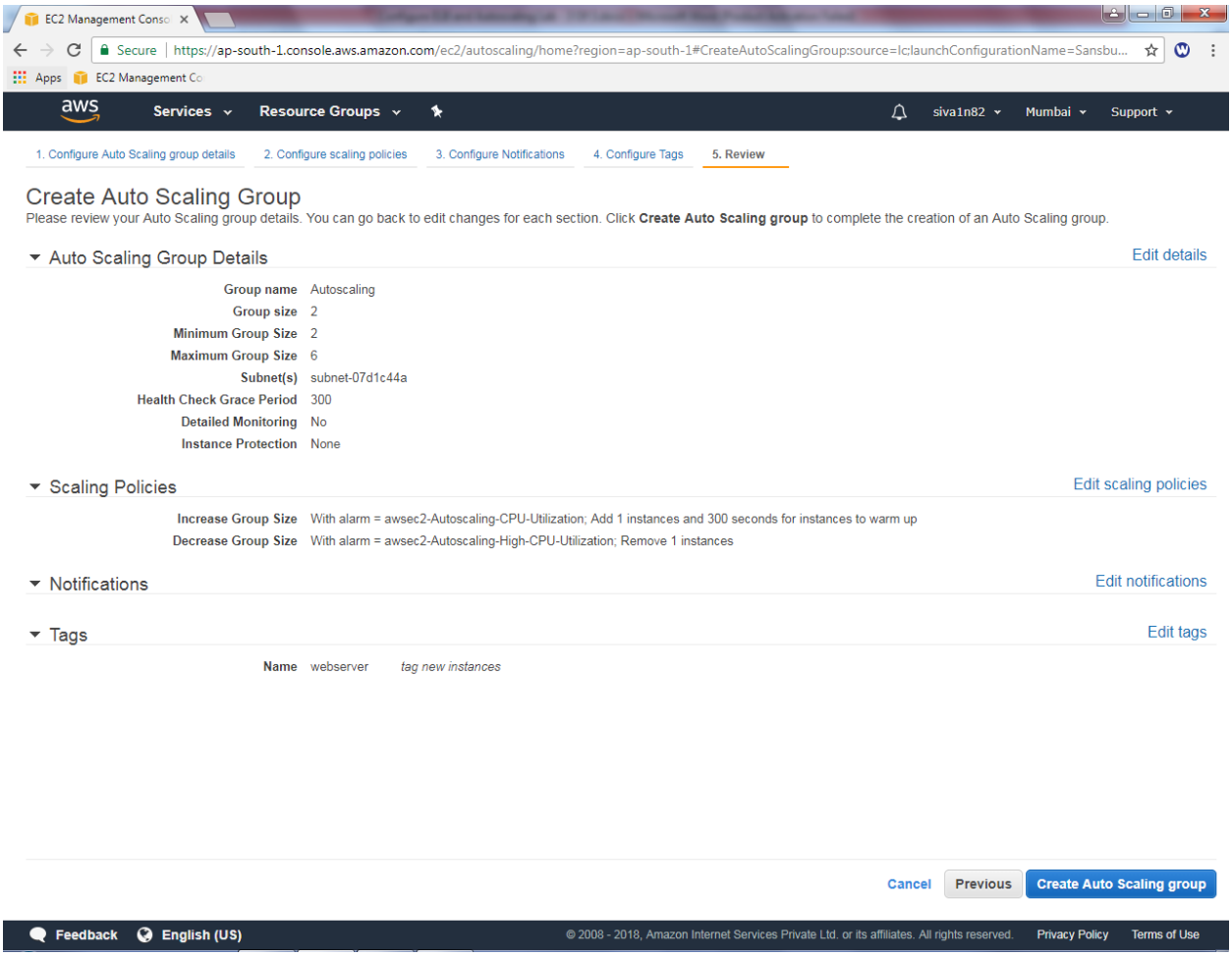
Leave default setting and click “Next”.



While creating auto scaling group, key as name and value as “Webserver”.

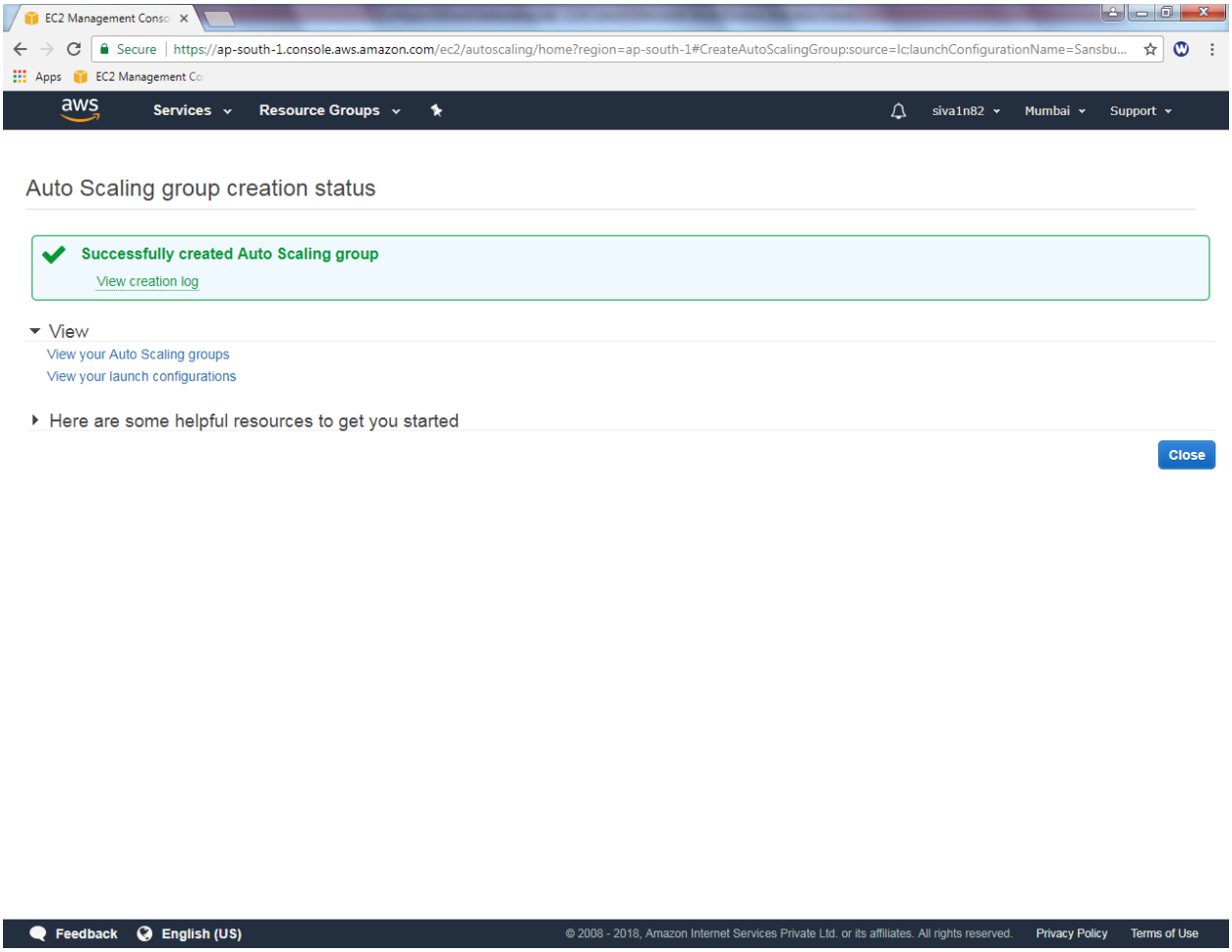


Click “Review”.

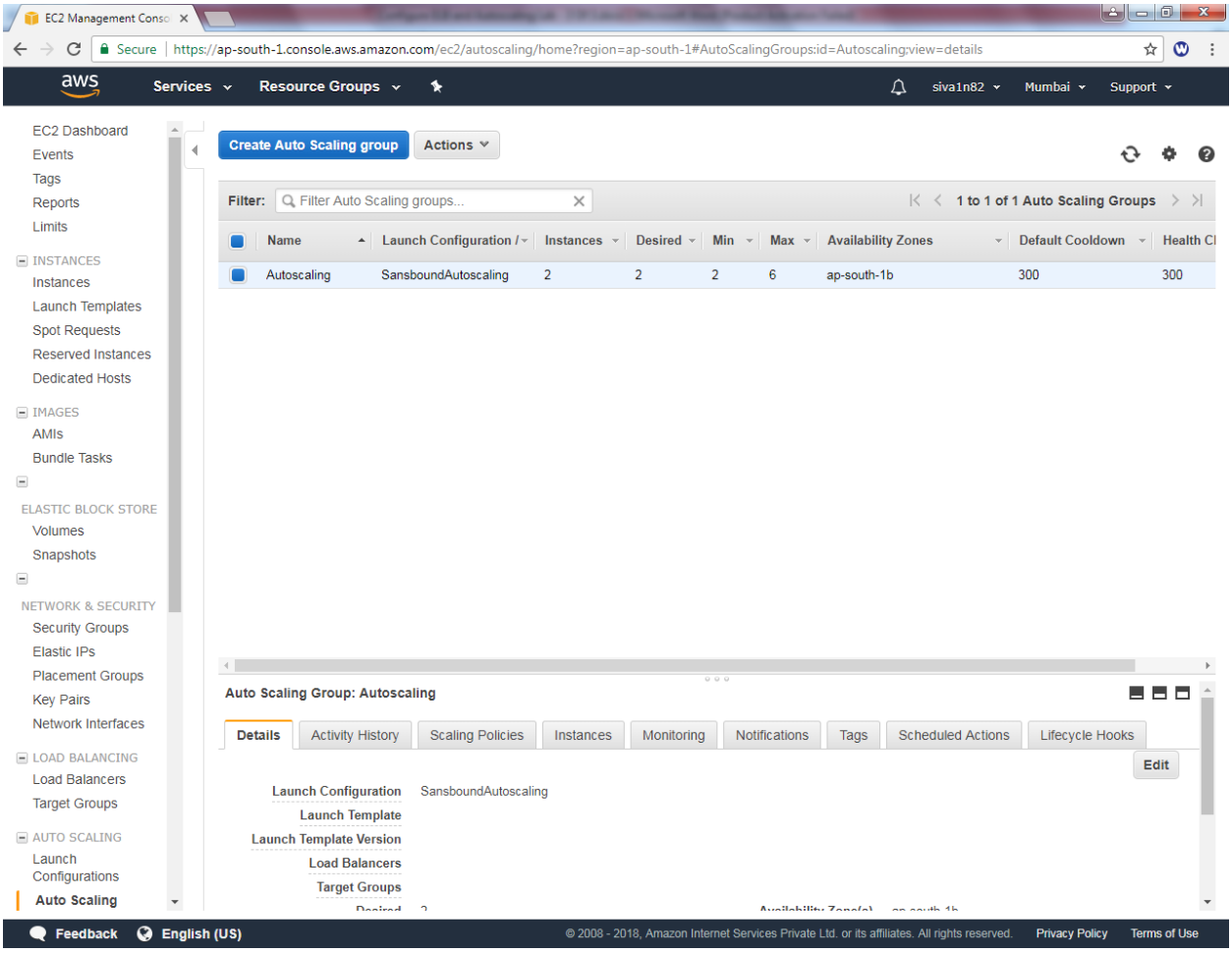


Click “Create Auto Scaling Group”.

Now the Auto scaling group has been created successfully.



Now we able to see 2 instances are created by auto scaling group.


EC2 Management Conso
Secure | https://ap-south-1.console.aws.amazon.com/ec2/autoscaling/home?region=ap-south-1#AutoScalingGroups:id=Autoscaling;view=details
aws
Services
Resource Groups
sivaln82
Mumbai
Support
EC2 Dashboard
Events
Tags
Reports
Limits
INSTANCES
Instances
Launch Templates
Spot Requests
Reserved Instances
Dedicated Hosts
IMAGES
AMIs
Bundle Tasks
ELASTIC BLOCK STORE
Volumes
Snapshots
NETWORK & SECURITY
Security Groups
Elastic IPs
Placement Groups
Key Pairs
Network Interfaces
LOAD BALANCING
Load Balancers
Target Groups
AUTO SCALING
Launch Configurations
Auto Scaling
Create Auto Scaling group
Actions
Filter:
Filter Auto Scaling groups...
1 to 1 of 1 Auto Scaling Groups
Name
Launch Configuration
Instances
Desired
Min
Max
Availability Zones
Default Cooldown
Health Cl
Autoscaling
SansboundAutoscaling
2
2
2
6
ap-south-1b
300
300
Auto Scaling Group: Autoscaling
Details
Activity History
Scaling Policies
Instances
Monitoring
Notifications
Tags
Scheduled Actions
Lifecycle Hooks
Edit
Launch Configuration
SansboundAutoscaling
Launch Template
Launch Template Version
Load Balancers
Target Groups
Feedback
English (US)
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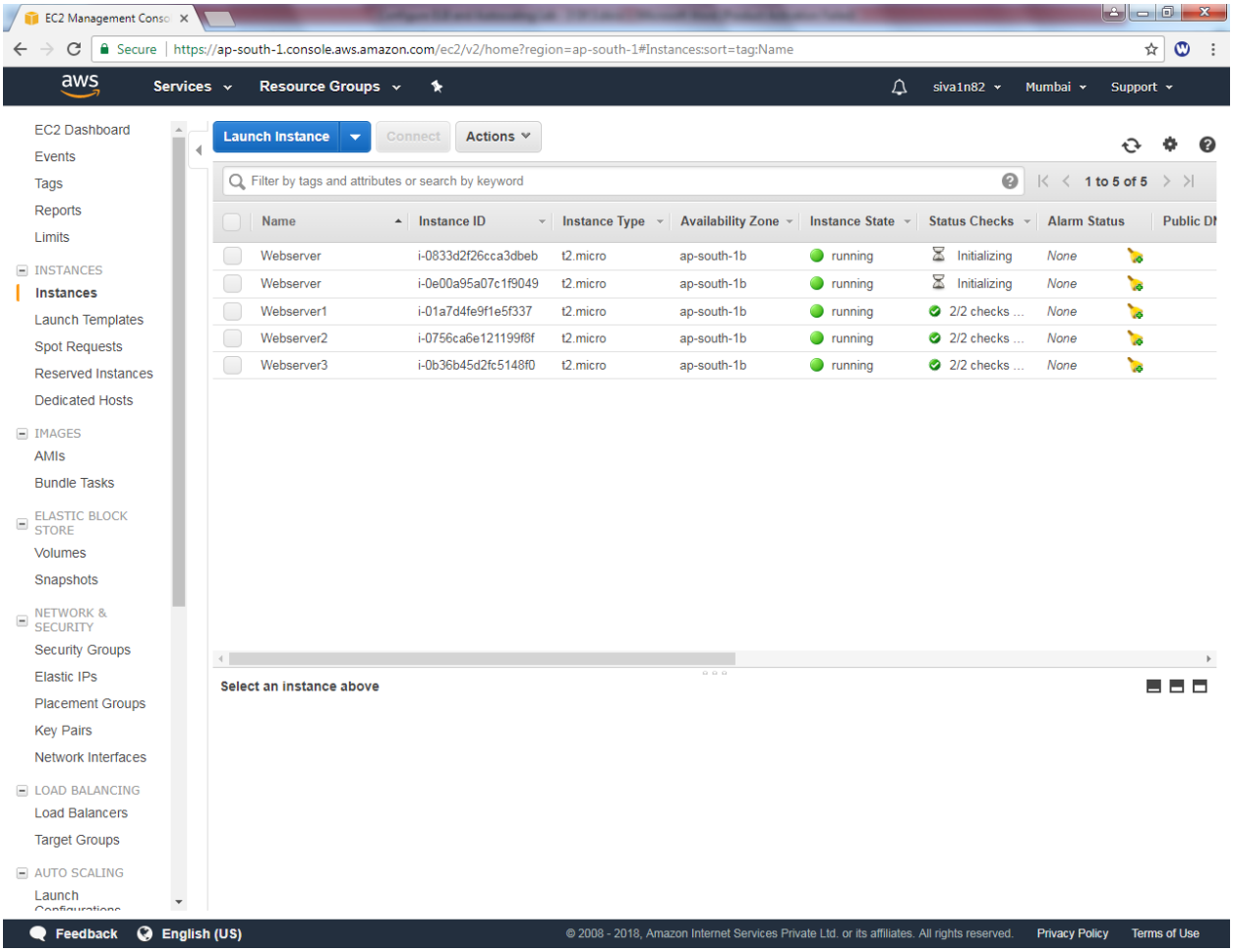
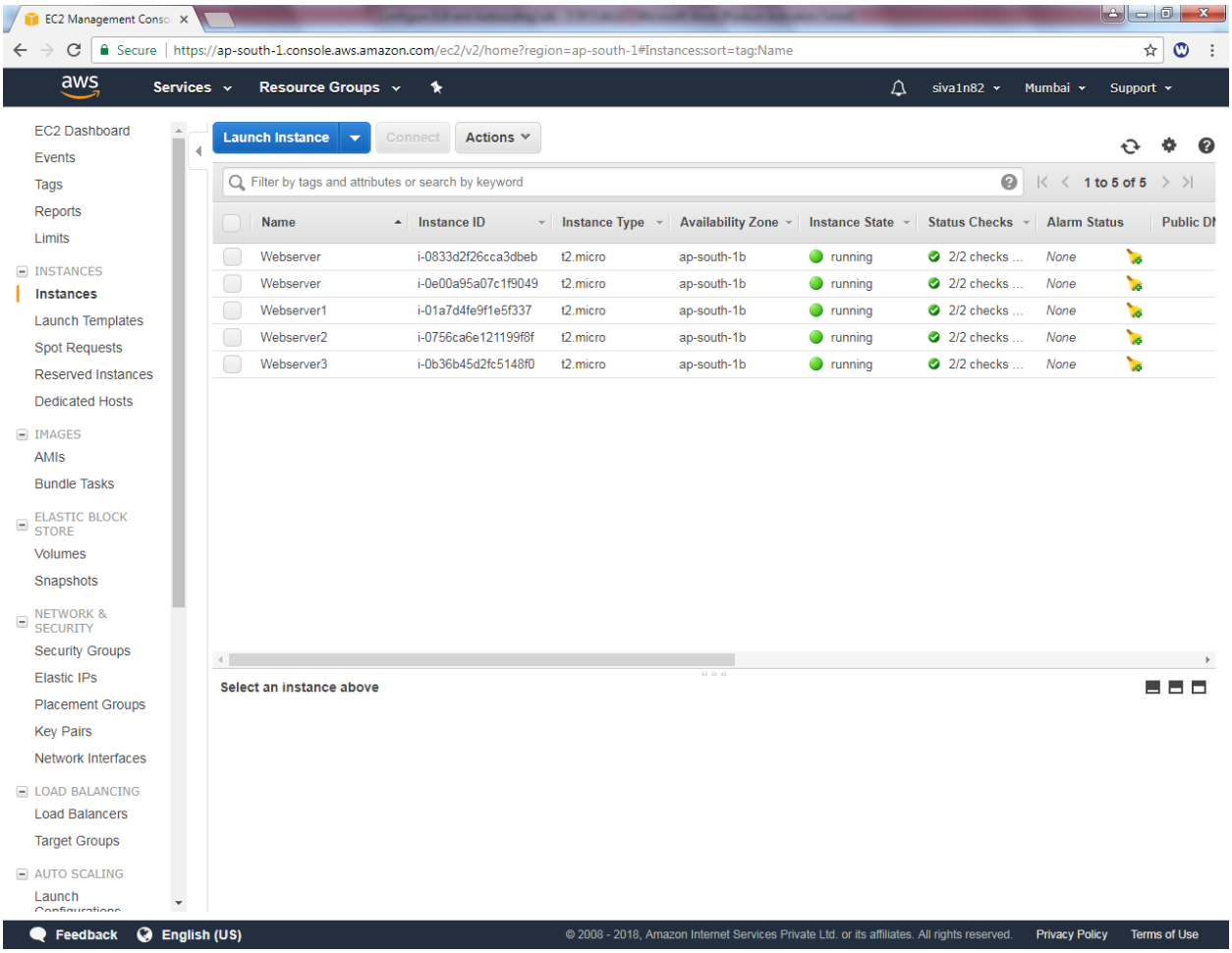
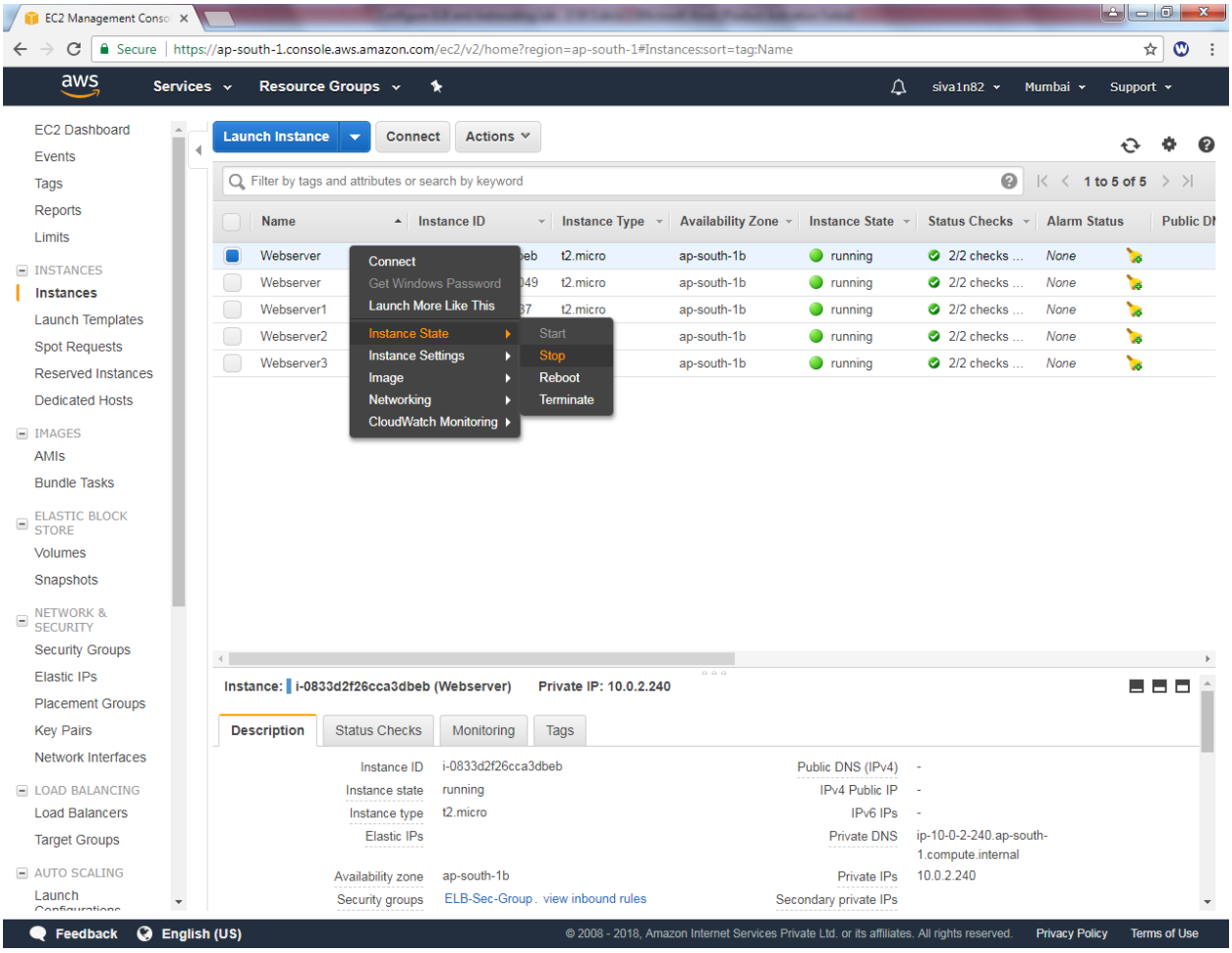
Click “Instances”, you can able to see that two instances in a initializing state. Please upto 2/2 status checks.



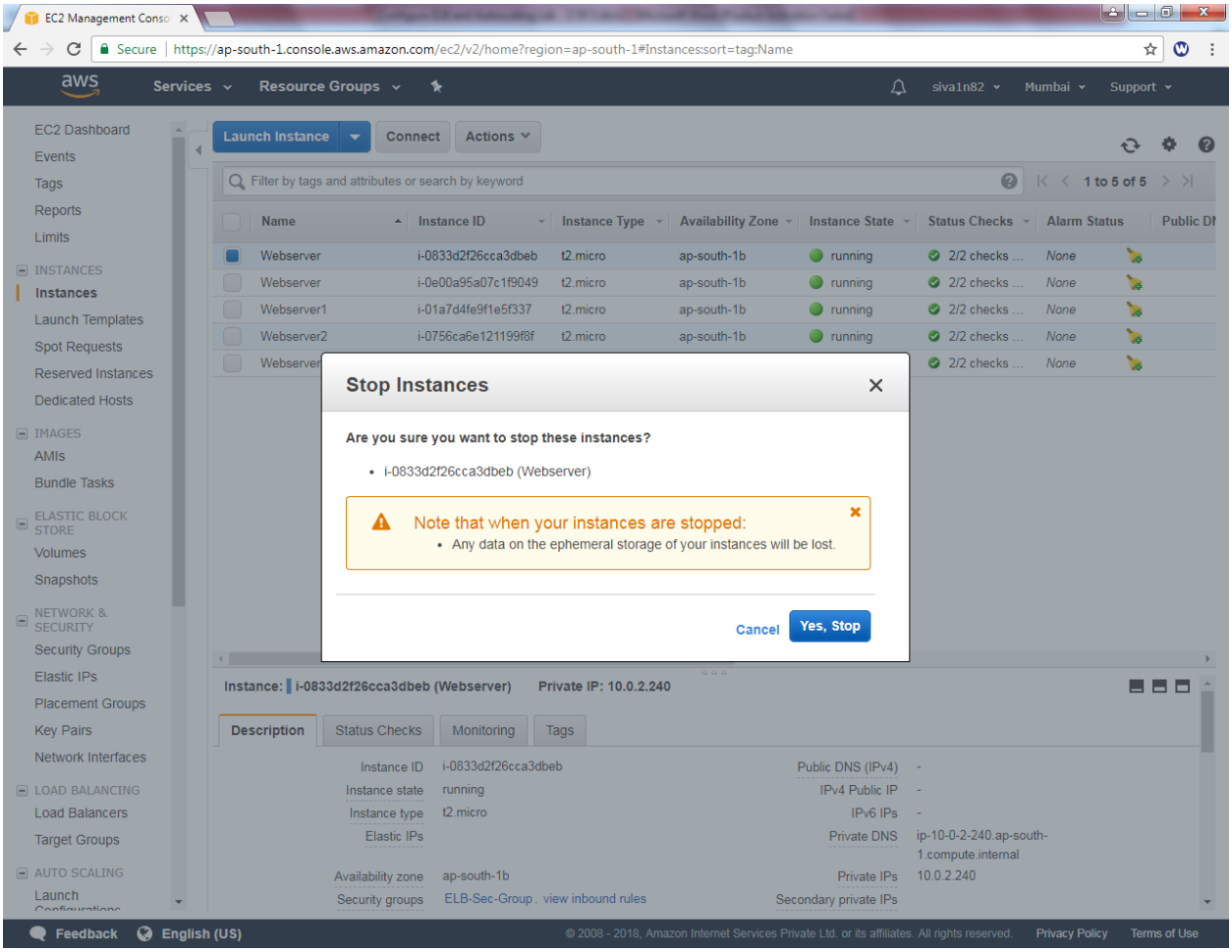
We can able to see 5 instances are in 2/2 status checks. Out of 5 servers only 2 servers are in Auto scale group which is in the name of “webserver”.



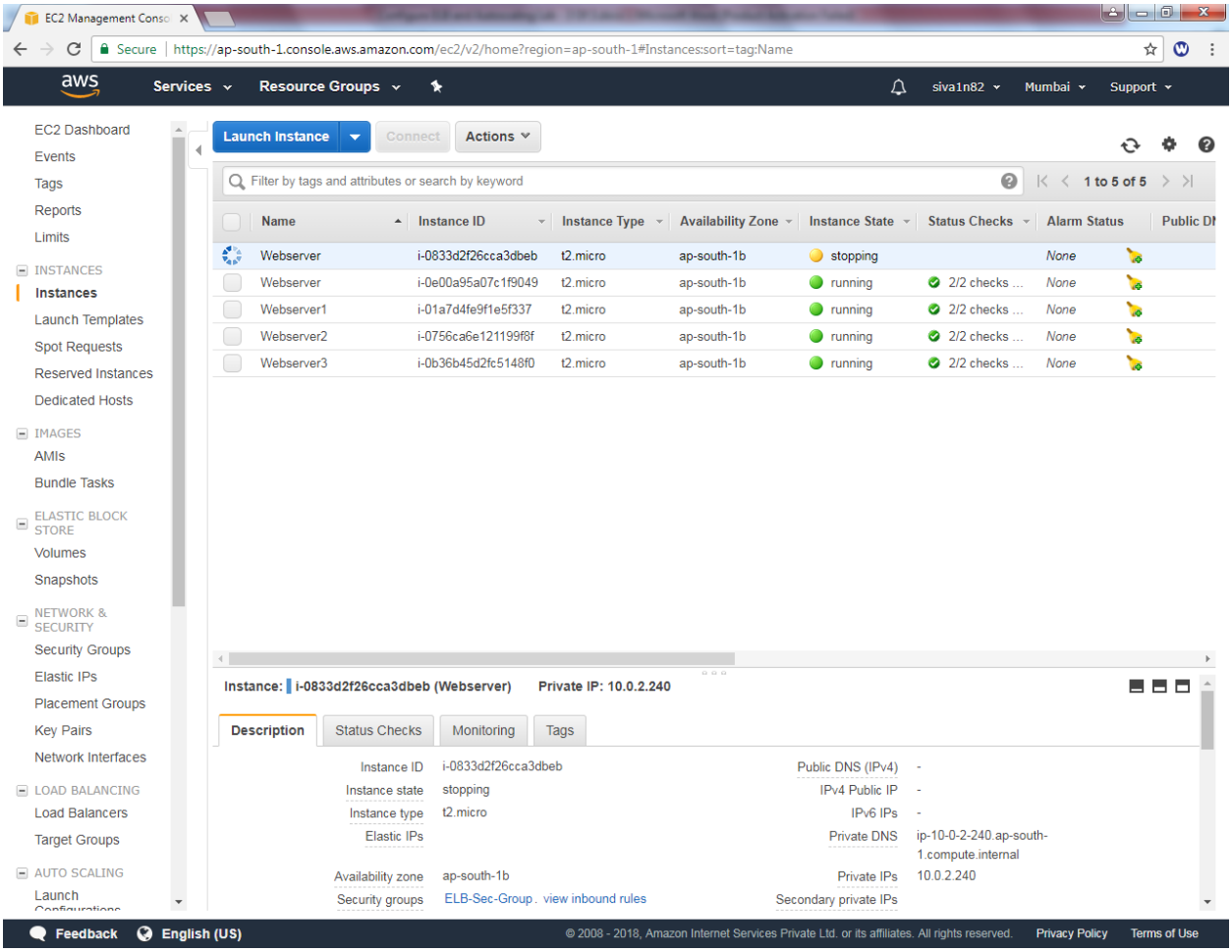
Select instance, Instance state → Stop.



Click “Yes, stop”.



It’s getting “stop”


EC2 Management Conso
Secure | https://ap-south-1.console.aws.amazon.com/ec2/v2/home?region=ap-south-1#Instances:sort=tag:Name
aws
Services
Resource Groups
siva1n82
Mumbai
Support
EC2 Dashboard
Events
Tags
Reports
Limits
INSTANCES
Instances
Launch Templates
Spot Requests
Reserved Instances
Dedicated Hosts
IMAGES
AMIs
Bundle Tasks
ELASTIC BLOCK STORE
Volumes
Snapshots
NETWORK & SECURITY
Security Groups
Elastic IPs
Placement Groups
Key Pairs
Network Interfaces
LOAD BALANCING
Load Balancers
Target Groups
AUTO SCALING
Launch
Launch Instance
Connect
Actions
Filter by tags and attributes or search by keyword
1 to 5 of 5
Name
Instance ID
Instance Type
Availability Zone
Instance State
Status Checks
Alarm Status
Webserver i-0833d2f26cca3dbeb t2.micro ap-south-1b stopping None
Webserver i-0e00a95a07c1f9049 t2.micro ap-south-1b running 2/2 checks ... None
Webserver1 i-01a7d4fe9f1e5f337 t2.micro ap-south-1b running 2/2 checks ... None
Webserver2 i-0756ca6e121199f8f t2.micro ap-south-1b running 2/2 checks ... None
Webserver3 i-0b36b45d2fc5148f0 t2.micro ap-south-1b running 2/2 checks ... None
Instance: i-0833d2f26cca3dbeb (Webserver) Private IP: 10.0.2.240
Description
Status Checks
Monitoring
Tags
Instance ID i-0833d2f26cca3dbeb
Instance state stopping
Instance type t2.micro
Elastic IPs
Availability zone ap-south-1b
Security groups ELB-Sec-Group. view inbound rules
Public DNS (IPv4) -
IPv4 Public IP -
IPv6 IPs -
Private DNS ip-10-0-2-240.ap-south-1.compute.internal
Private IPs 10.0.2.240
Secondary private IPs
Feedback
English (US)
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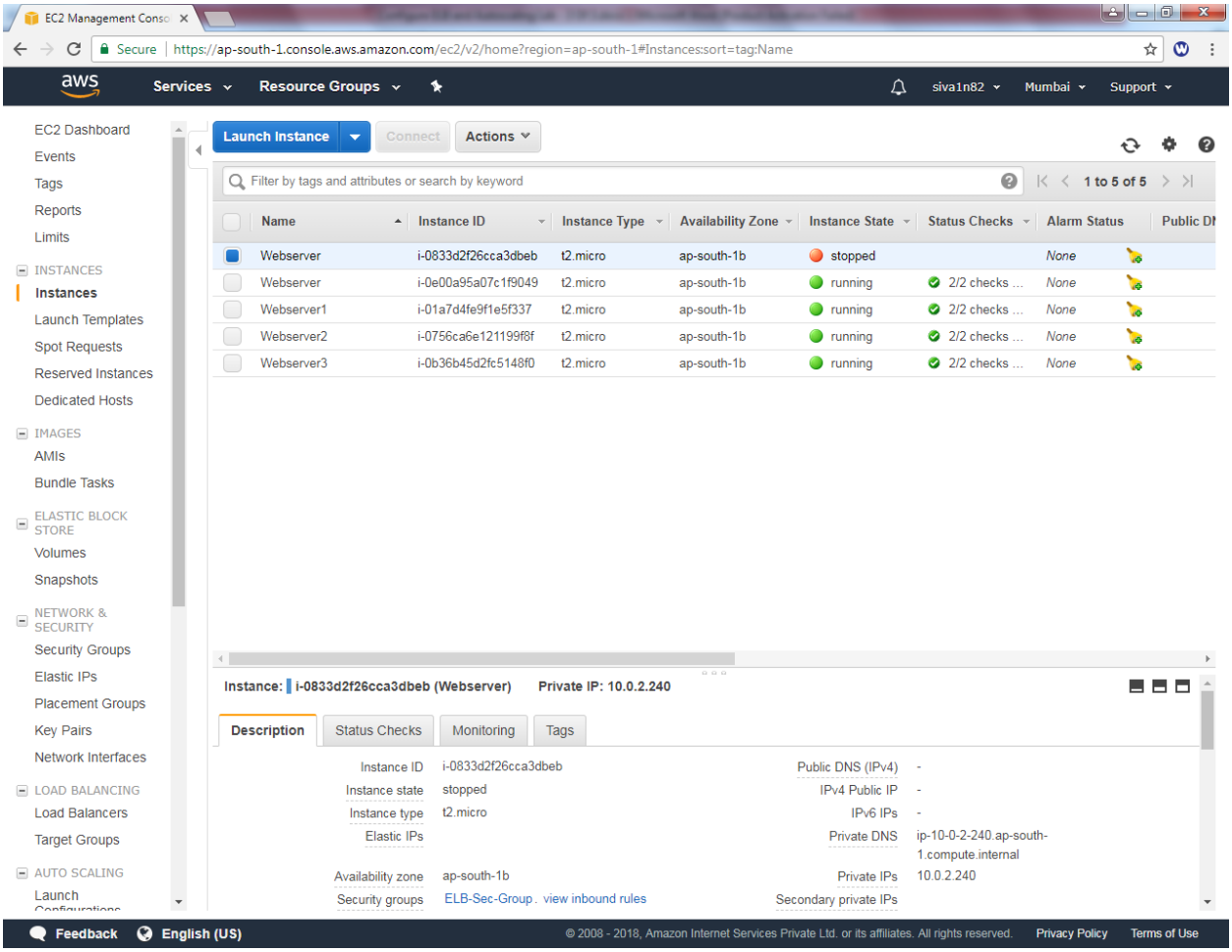
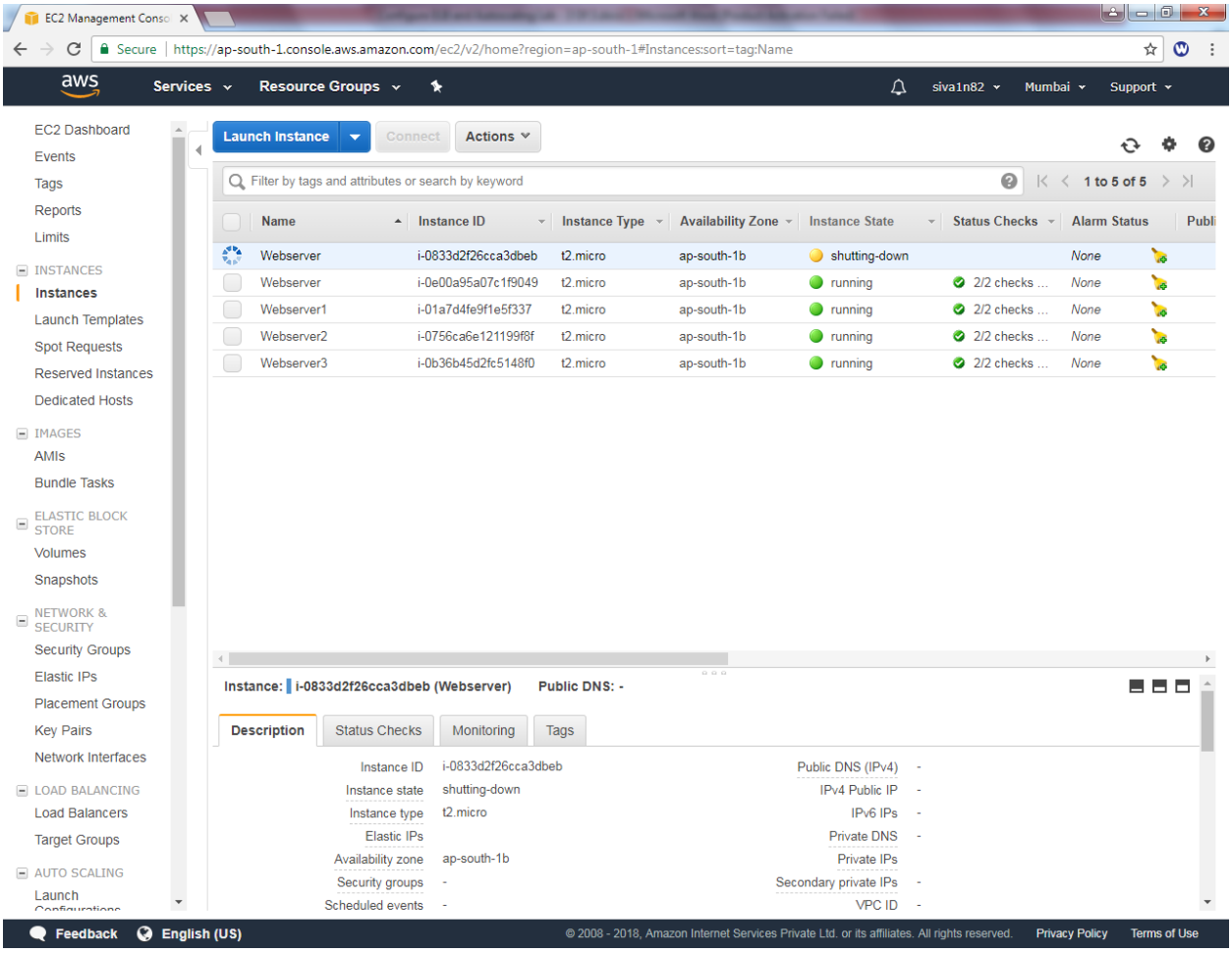
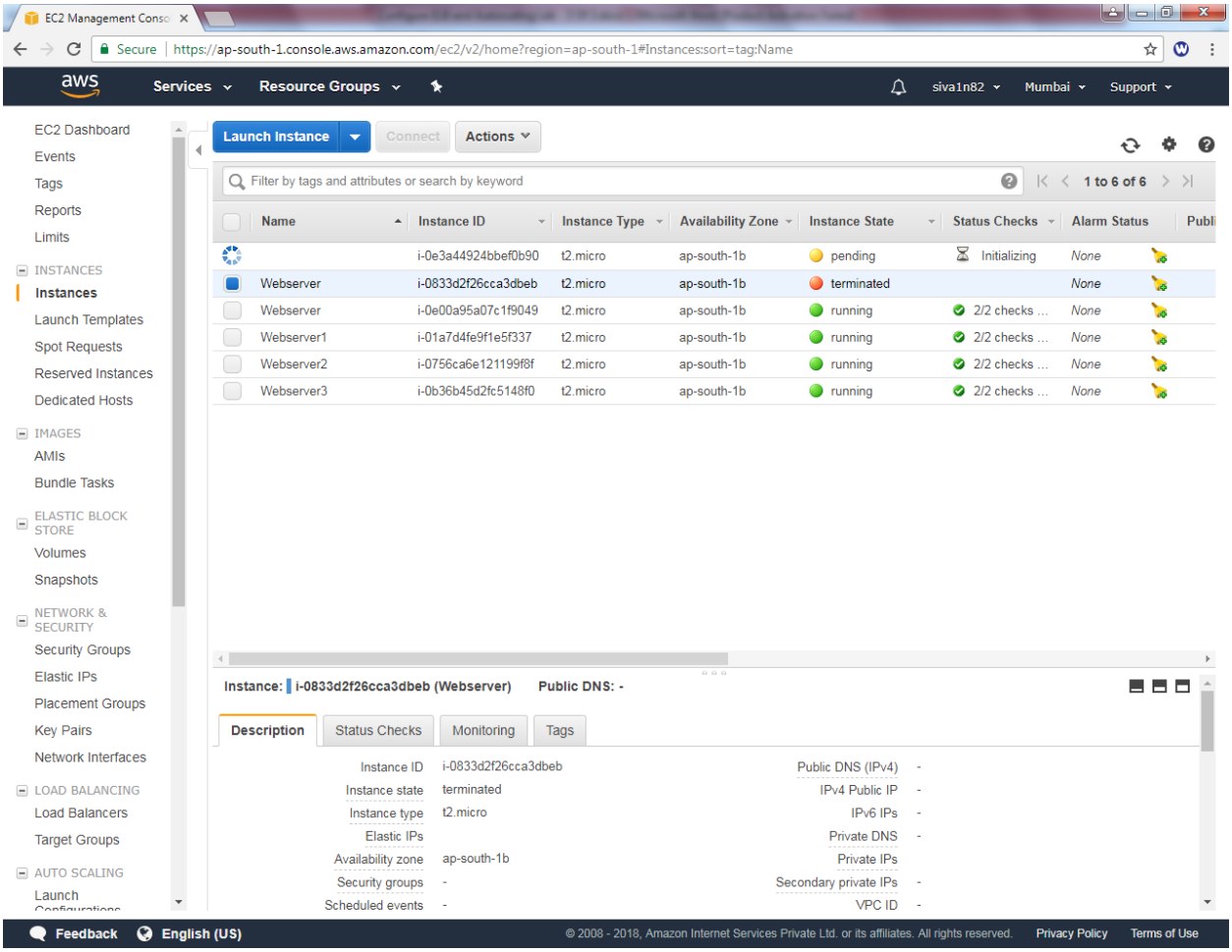
It’s in stopped state now.



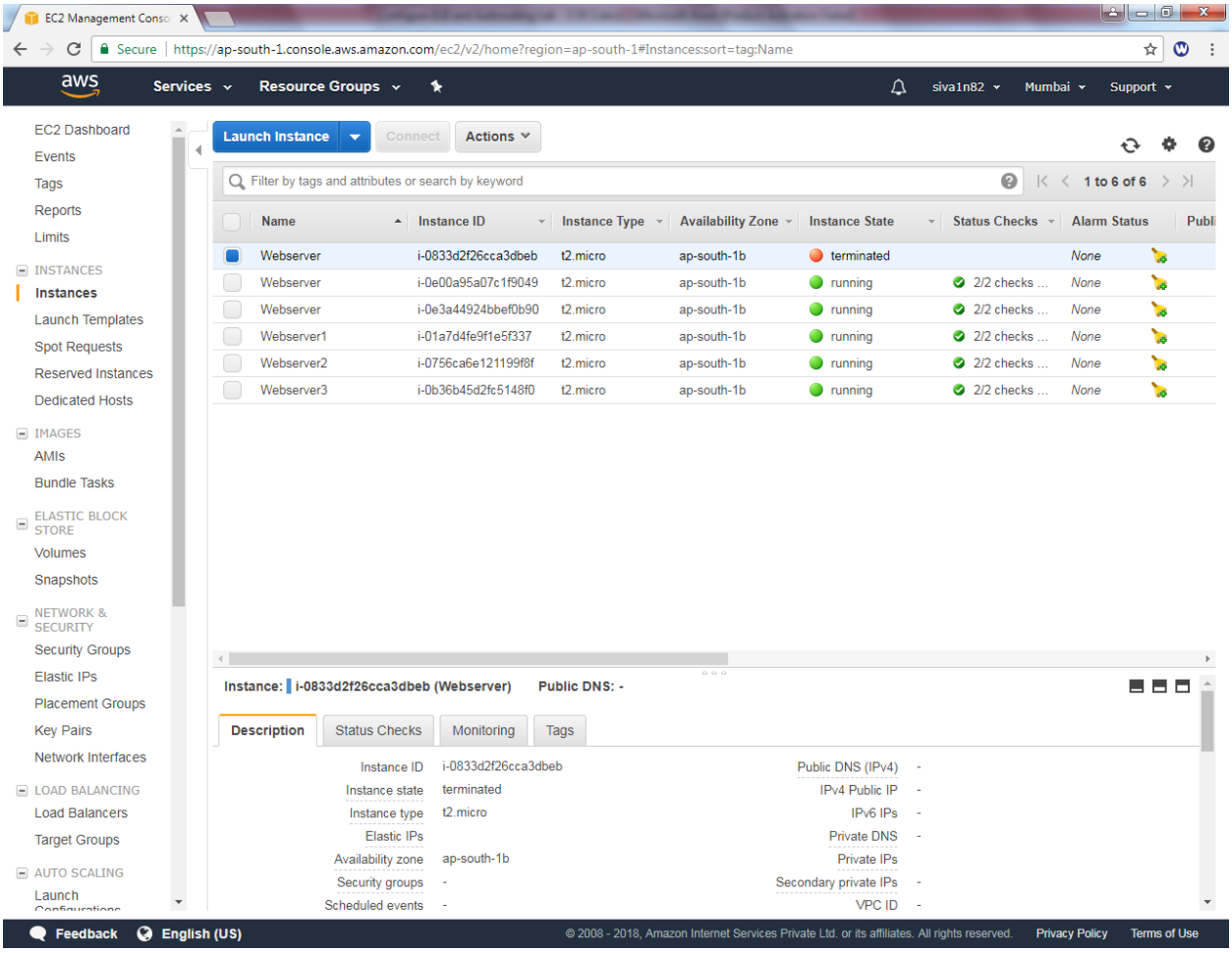
Now it's moved to shutting down state.



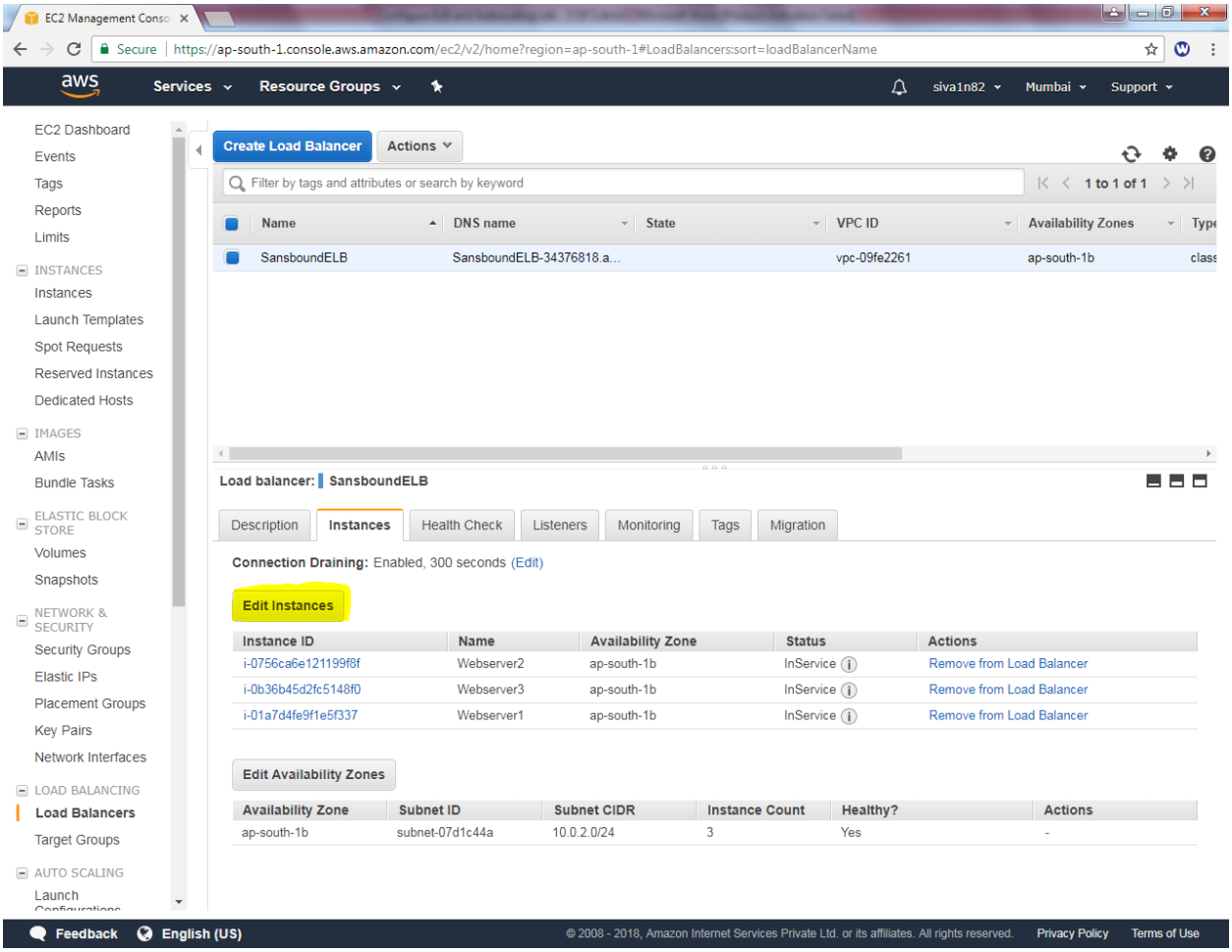
Now stopped instance has been terminated and creating new instance.



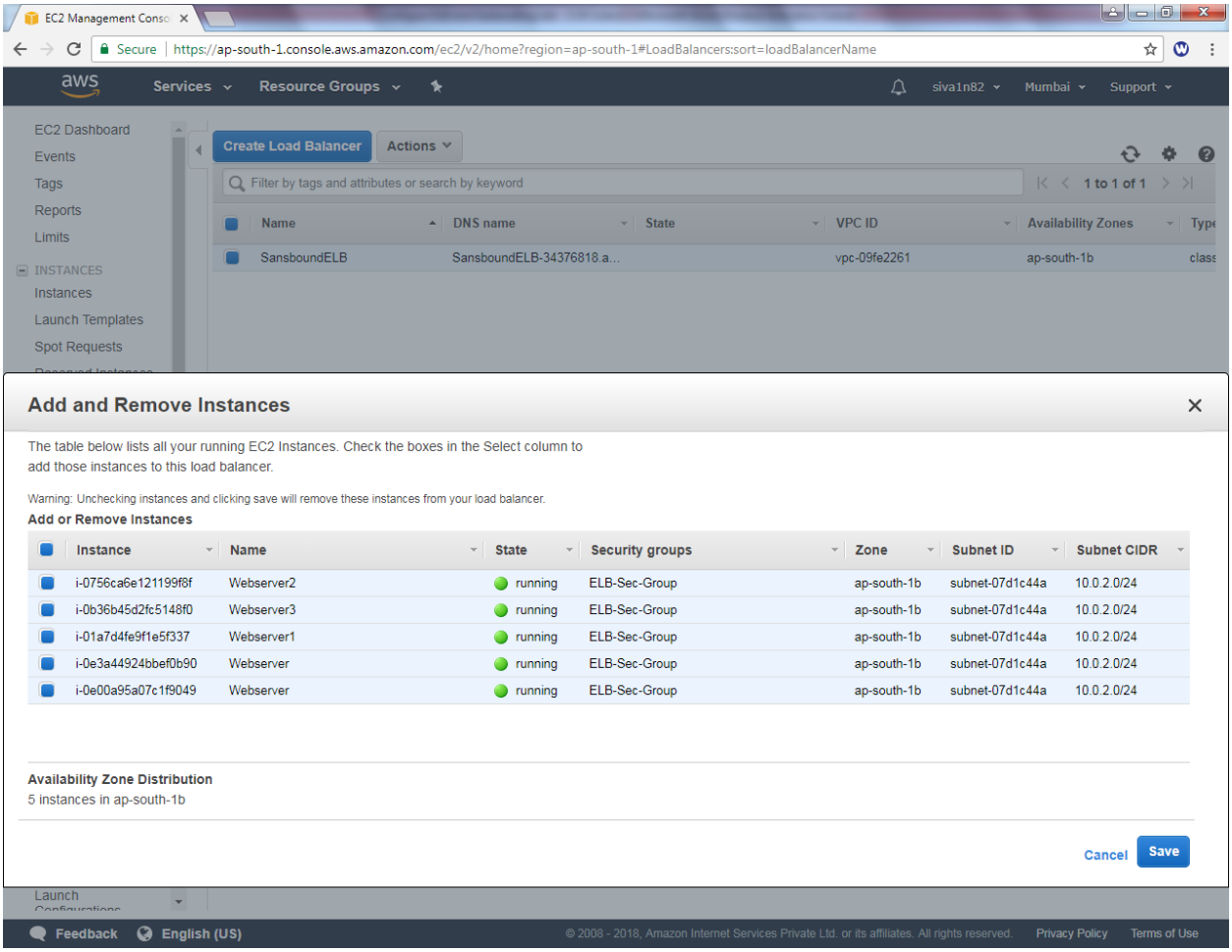
Now 2 instances in Autoscaling group and other 3 instances member of Loadbalancer is up.



Click “Edit Instances”

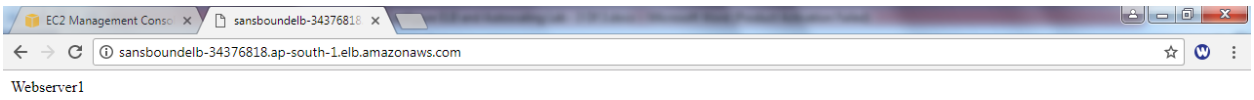


Need to add remaining two instances into Loadbalancer.

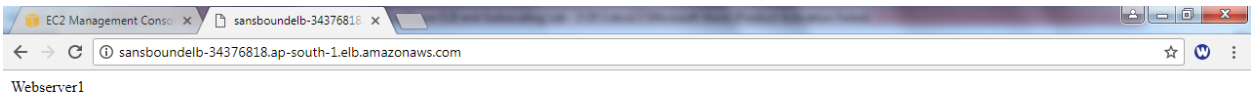


Click “Save”. Wait for 1-2 minutes to refresh the session. If exact output not comes please fresh the browser until the output comes. After that you will get output.

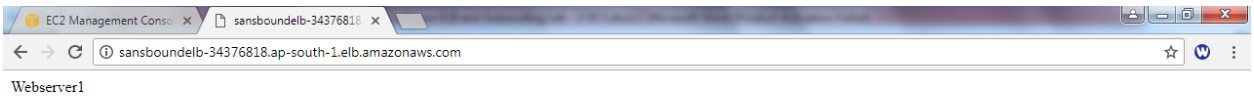
Webserver1


EC2 Management Conso
sansboundelb-3437681
sansboundelb-34376818.ap-south-1.elb.amazonaws.com
Webserver1

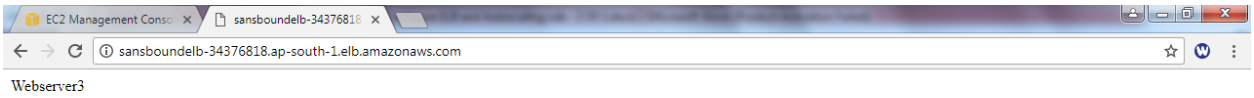
Webserver1


EC2 Management Conso
sansboundelb-3437681
sansboundelb-34376818.ap-south-1.elb.amazonaws.com
Webserver1

Webserver1


EC2 Management Conso
sansboundelb-3437681
sansboundelb-34376818.ap-south-1.elb.amazonaws.com
Webserver1

Webserver3


EC2 Management Conso
sansboundelb-34376818
sansboundelb-34376818.ap-south-1.elb.amazonaws.com
Webserver3

Webserver2


EC2 Management Conso
sansboundelb-34376818
sansboundelb-34376818.ap-south-1.elb.amazonaws.com
Webserver2