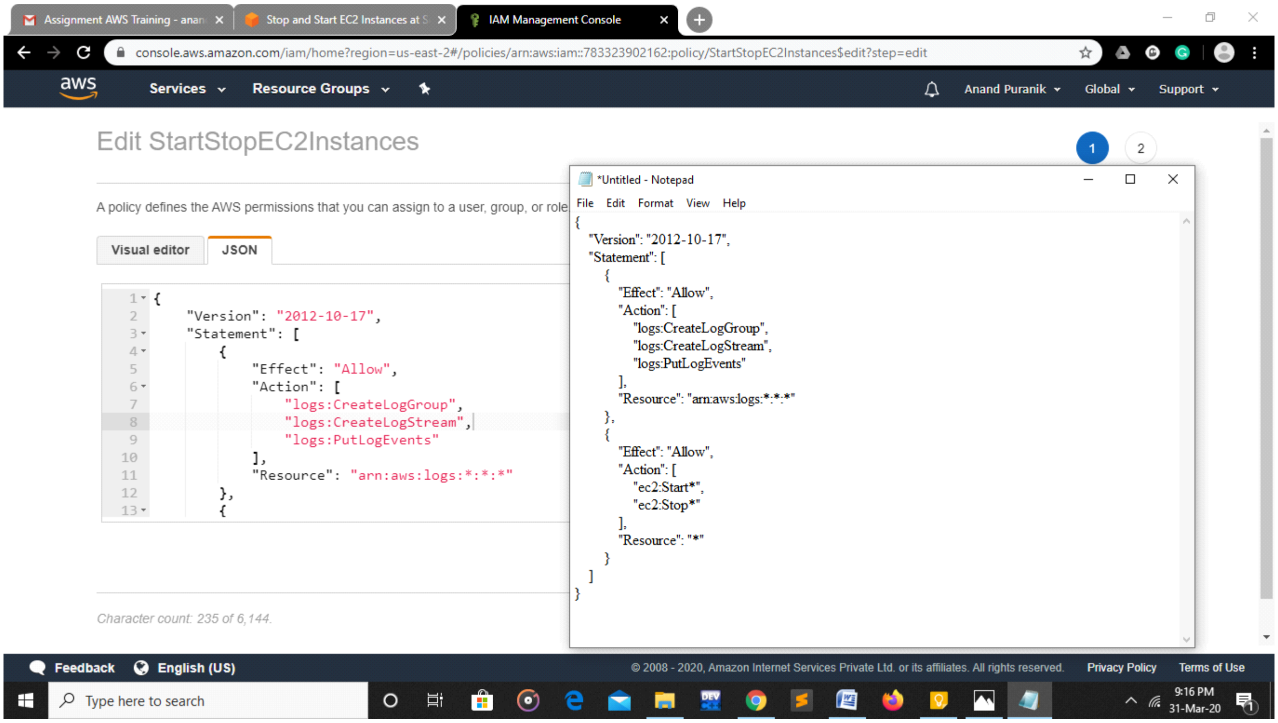
Assignment 1 - Write lambda function using role to create and Start EC2 instace

1. Create a custom AWS Identity and Access Management (IAM) policy and execution role for your Lambda function.

2. Create Lambda functions that stop and start your EC2 instances.

Create an IAM policy and role-



Edit StartStopEC2Instances

A policy defines the AWS permissions that you can assign to a user, group, or role

```
{
    "Version": "2012-10-17",
    "Statement": [
        {
            "Effect": "Allow",
            "Action": [
                "logs:CreateLogGroup",
                "logs:CreateLogStream",
                "logs:PutLogEvents"
            ],
            "Resource": "arn:aws:logs:*:*:*"
        },
        {
```

Character count: 235 of 6,144.

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Effect": "Allow",
      "Action": [
        "logs:CreateLogGroup",
        "logs:CreateLogStream",
        "logs:PutLogEvents"
      ],
      "Resource": "arn:aws:logs:*:*:*"
    },
    {
      "Effect": "Allow",
      "Action": [
        "ec2:Start*",
        "ec2:Stop*"
      ],
      "Resource": "*"
    }
  ]
}
```

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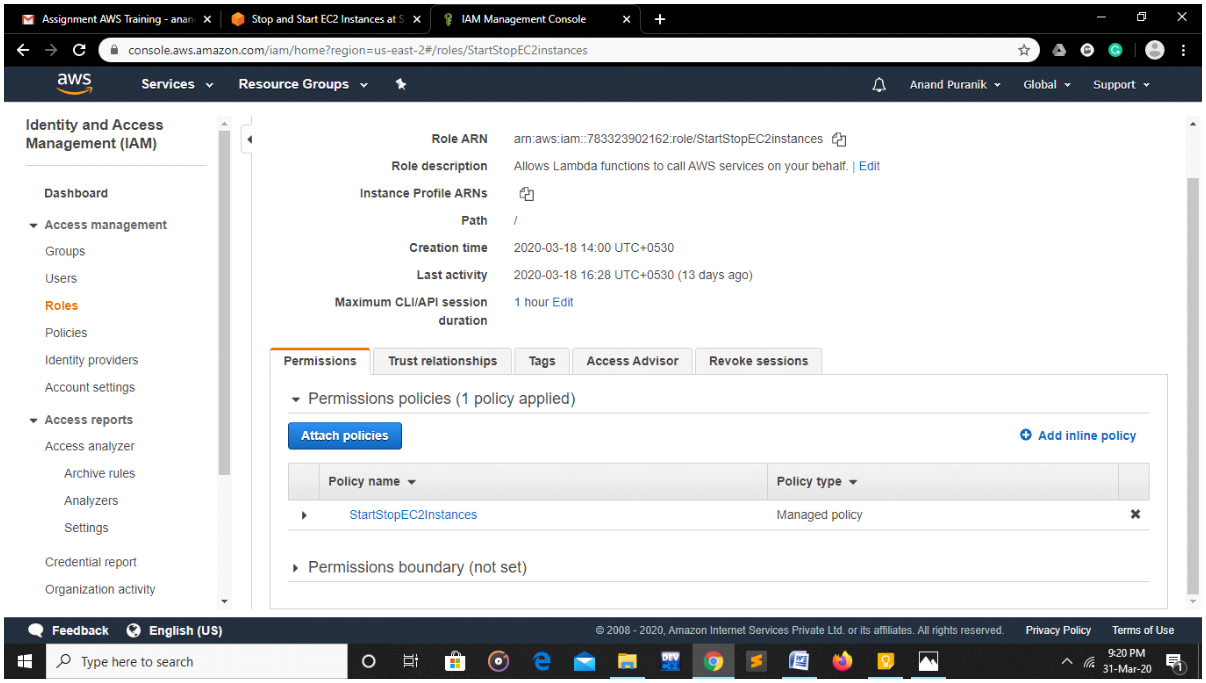
2. Create an IAM role for Lambda. When attaching a permissions policy, search for and choose the IAM policy that you created.



Role ARN arn:aws:iam::783323902162:role/StartStopEC2instances

Role description Allows Lambda functions to call AWS services on your behalf. | Edit

Instance Profile ARNs

Path /

Creation time 2020-03-18 14:00 UTC+0530

Last activity 2020-03-18 16:28 UTC+0530 (13 days ago)

Maximum CLI/API session duration 1 hour Edit

Permissions | Trust relationships | Tags | Access Advisor | Revoke sessions

Permissions policies (1 policy applied)

Attach policies

Add inline policy

Policy name	Policy type
StartStopEC2Instances	Managed policy

Permissions boundary (not set)

Create Lambda functions that stop and start your EC2 instances

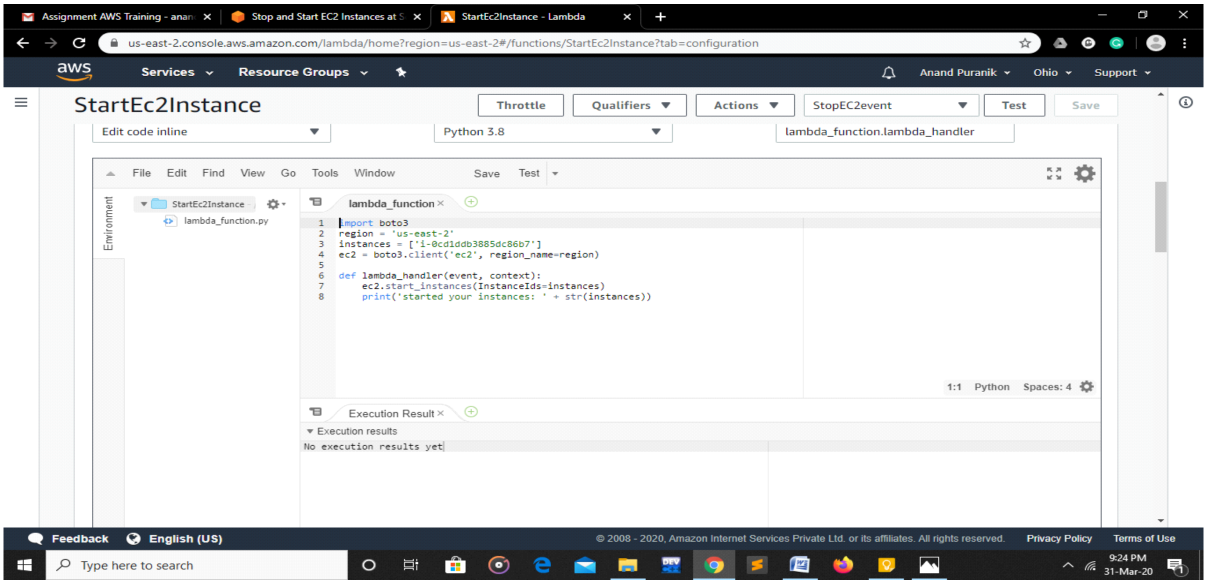
1. In the Lambda Function, choose Create function.

2. Choose Author from scratch.

3. Under Basic information, add the following:
For Function name, enter a name that identifies it as the function used to stop your EC2 instances. For example, "Start EC2Instances".

Under Permissions, expand Choose or create an execution role.
Under Execution role, choose Use an existing role.
Under Existing role, choose the IAM role that you created.

4. Choose Create function.



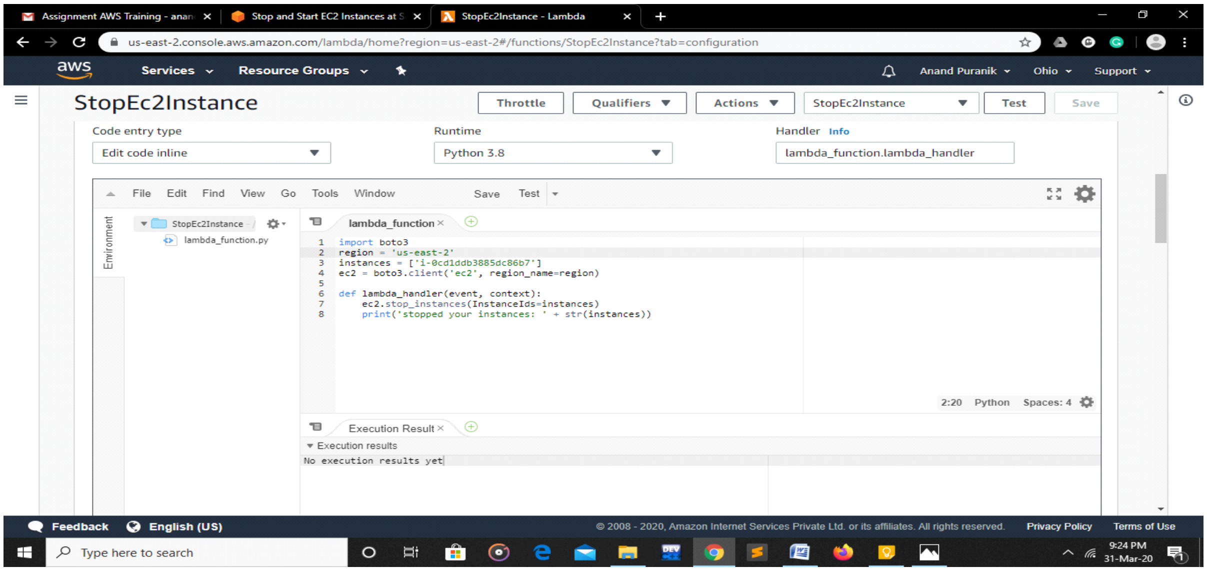
us-east-2.console.aws.amazon.com/lambda/home?region=us-east-2#/functions/StartEc2Instance?tab=configuration

StartEc2Instance

Edit code inline | Python 3.8 | lambda_function.lambda_handler

```
import boto3
region = 'us-east-2'
instances = ['i-0cd1ddb3885dc86b7']
ec2 = boto3.client('ec2', region_name=region)

def lambda_handler(event, context):
    ec2.start_instances(InstanceIds=instances)
    print('started your instances: ' + str(instances))
```

```
No execution results yet
```



us-east-2.console.aws.amazon.com/lambda/home?region=us-east-2#/functions/StopEc2Instance?tab=configuration

StopEc2Instance

Code entry type: Edit code inline

Runtime: Python 3.8

Handler: lambda_function.lambda_handler

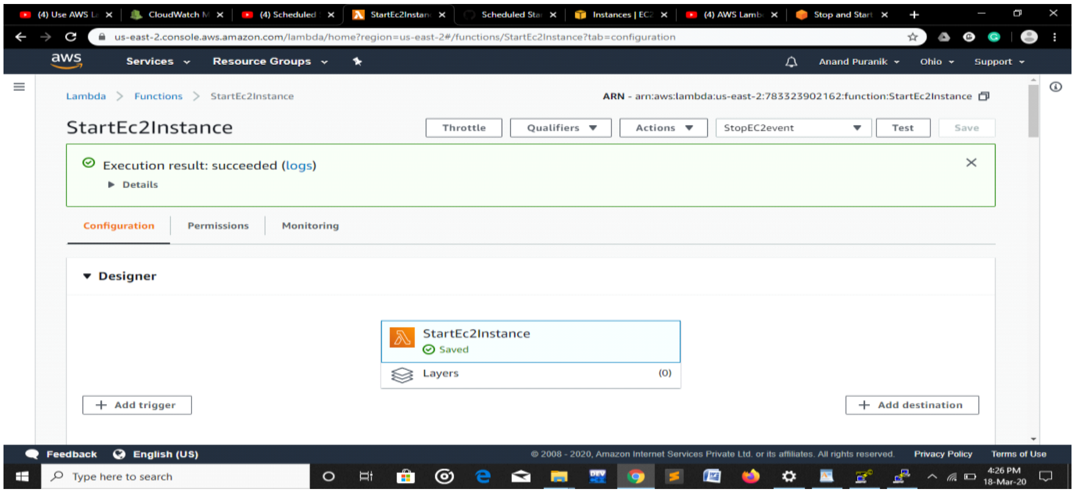
```
import boto3
region = 'us-east-2'
instances = ['i-0cd1ddb3885dc86b7']
ec2 = boto3.client('ec2', region_name=region)

def lambda_handler(event, context):
    ec2.stop_instances(InstanceIds=instances)
    print('stopped your instances: ' + str(instances))
```

```
No execution results yet
```

- Under Basic settings, set Timeout to 10 seconds.

Testing ofr Lambda functions

1. In the Lambda Function, choose Functions.
2. Select one of the functions that you created.
3. Choose Actions, and then choose Test.
4. In the Configure test event dialog, choose Create new test event.
5. Enter an Event name, and then choose Create.
6. Choose Test to execute the function.


us-east-2.console.aws.amazon.com/lambda/home?region=us-east-2#/functions/StartEc2Instance?tab=configuration

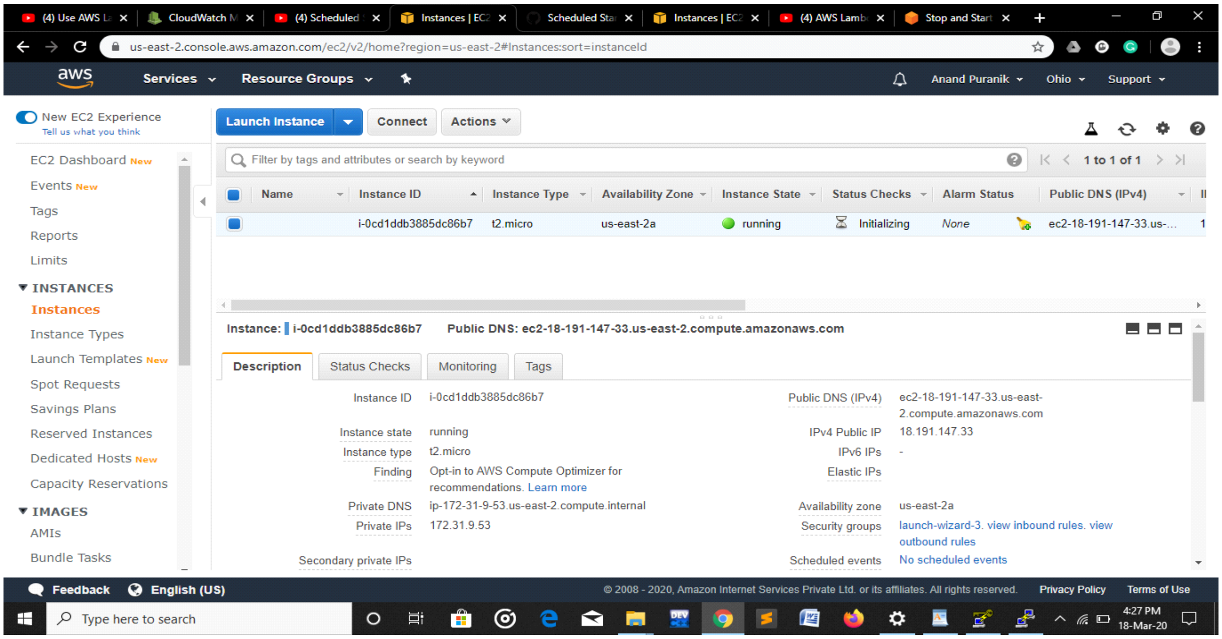
ARN - arn:aws:lambda:us-east-2:783323902162:function:StartEc2Instance

StartEc2Instance

StopEC2event

Execution result: succeeded (logs)

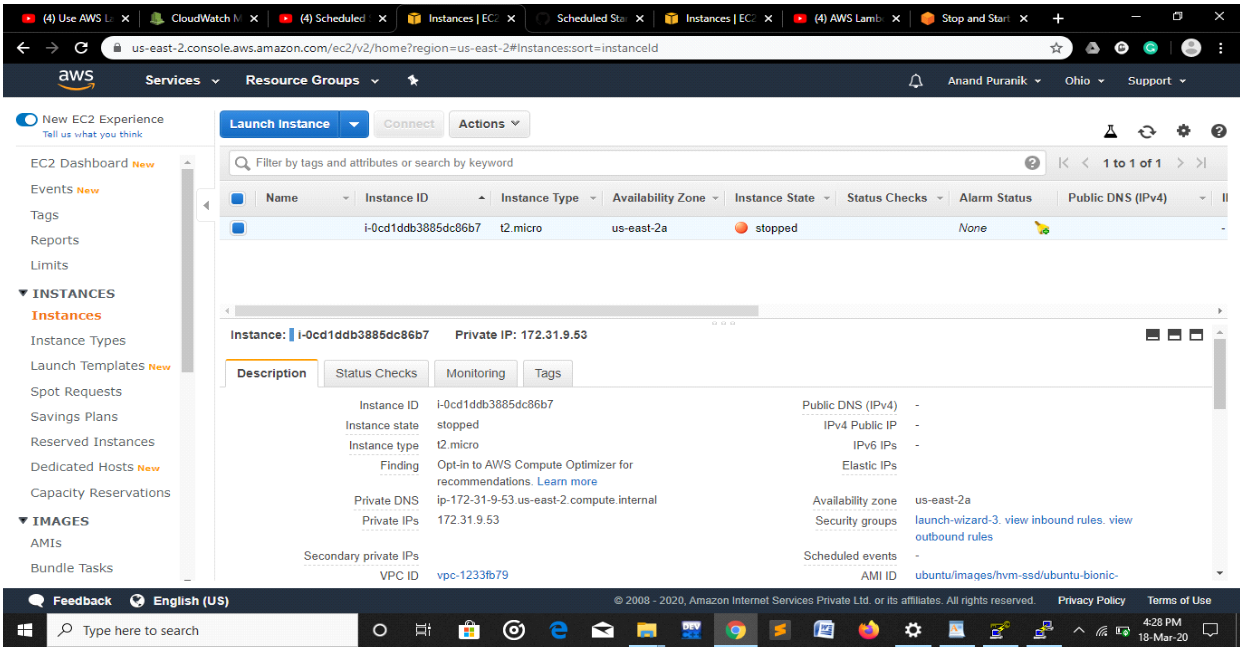
Output-



Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS (IPv4)
	i-0cd1ddb3885dc86b7	t2.micro	us-east-2a	running	Initializing	None	ec2-18-191-147-33.us-...

Instance: i-0cd1ddb3885dc86b7 Public DNS: ec2-18-191-147-33.us-east-2.compute.amazonaws.com

Instance ID	i-0cd1ddb3885dc86b7	Public DNS (IPv4)	ec2-18-191-147-33.us-east-2.compute.amazonaws.com
Instance state	running	IPv4 Public IP	18.191.147.33
Instance type	t2.micro	IPv6 IPs	-
Finding	Opt-in to AWS Compute Optimizer for recommendations. Learn more	Elastic IPs	
Private DNS	ip-172-31-9-53.us-east-2.compute.internal	Availability zone	us-east-2a
Private IPs	172.31.9.53	Security groups	launch-wizard-3. view inbound rules. view outbound rules
Secondary private IPs		Scheduled events	No scheduled events



Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS (IPv4)
	i-0cd1ddb3885dc86b7	t2.micro	us-east-2a	stopped		None	-

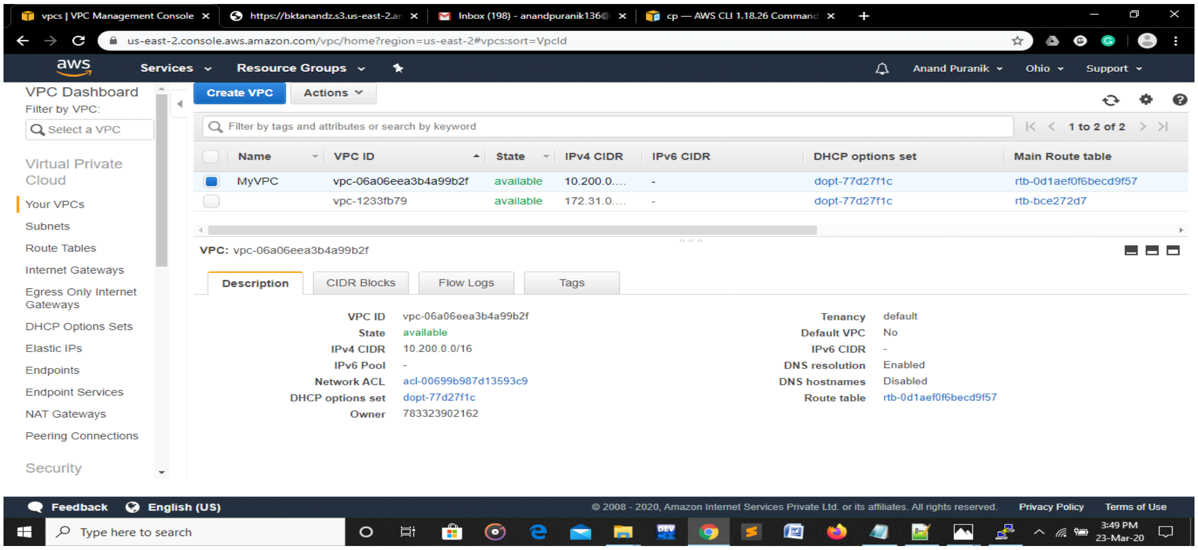
Instance: i-0cd1ddb3885dc86b7 Private IP: 172.31.9.53

Instance ID	i-0cd1ddb3885dc86b7	Public DNS (IPv4)	-
Instance state	stopped	IPv4 Public IP	-
Instance type	t2.micro	IPv6 IPs	-
Finding	Opt-in to AWS Compute Optimizer for recommendations. Learn more	Elastic IPs	
Private DNS	ip-172-31-9-53.us-east-2.compute.internal	Availability zone	us-east-2a
Private IPs	172.31.9.53	Security groups	launch-wizard-3. view inbound rules. view outbound rules
Secondary private IPs		Scheduled events	-
VPC ID	vpc-1233fb79	AMI ID	ubuntu/images/hvm-ssd/ubuntu-bionic-

Assignment 2

Creating VPC with public and private subnet , configure route table , connect ec2 private instance with public ec2 instance , upload sample file to newly created s3 bucket

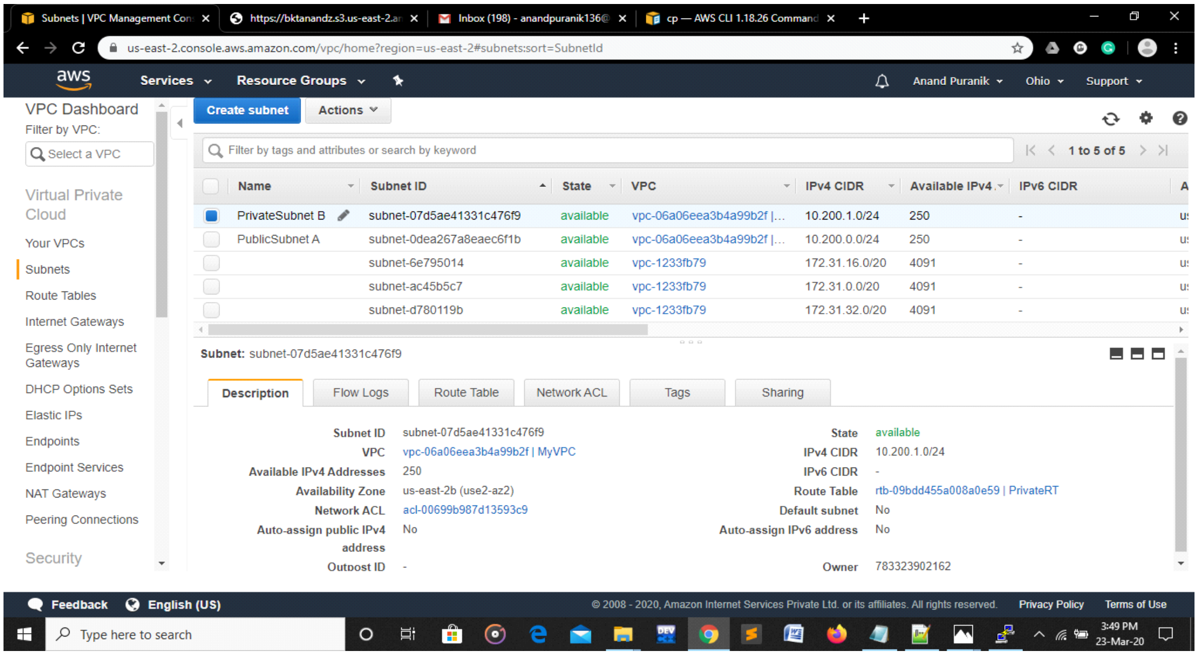
- VPC is created with CIDR block – 10.0.0.0/16
- 2 subnets are created &
  - Choose custom vpc which we created
  - Assign IPv4 CIDR block as giving ip range to subnet i.e 10.0.1.0/24



□	Name	VPC ID	State	IPv4 CIDR	IPv6 CIDR	DHCP options set	Main Route table
■	MyVPC	vpc-06a06eea3b4a99b2f	available	10.200.0....	-	dopt-77d27f1c	rtb-0d1aef0f6becd9f57
□		vpc-1233fb79	available	172.31.0....	-	dopt-77d27f1c	rtb-bce272d7

VPC: vpc-06a06eea3b4a99b2f

VPC ID	vpc-06a06eea3b4a99b2f	Tenancy	default
State	available	Default VPC	No
IPv4 CIDR	10.200.0.0/16	IPv6 CIDR	-
IPv6 Pool	-	DNS resolution	Enabled
Network ACL	acl-00699b987d13593c9	DNS hostnames	Disabled
DHCP options set	dopt-77d27f1c	Route table	rtb-0d1aef0f6becd9f57
Owner	783323902162		


Subnets | VPC Management Con
https://bktanandz.s3.us-east-2.a
Inbox (198) - anandpuranik136@
cp — AWS CLI 1.18.26 Command
us-east-2.console.aws.amazon.com/vpc/home?region=us-east-2#subnets:sort=SubnetId
Services
Resource Groups
Anand Puranik
Ohio
Support
VPC Dashboard
Filter by VPC:
Select a VPC
Virtual Private Cloud
Your VPCs
Subnets
Route Tables
Internet Gateways
Egress Only Internet Gateways
DHCP Options Sets
Elastic IPs
Endpoints
Endpoint Services
NAT Gateways
Peering Connections
Security
Create subnet
Actions
Filter by tags and attributes or search by keyword
1 to 5 of 5
Feedback
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23-Mar-20

Name	Subnet ID	State	VPC	IPv4 CIDR	Available IPv4	IPv6 CIDR
PrivateSubnet B	subnet-07d5ae41331c476f9	available	vpc-06a06eea3b4a99b2f |...	10.200.1.0/24	250	-
PublicSubnet A	subnet-0dea267a8eaec6f1b	available	vpc-06a06eea3b4a99b2f |...	10.200.0.0/24	250	-
	subnet-6e795014	available	vpc-1233fb79	172.31.16.0/20	4091	-
	subnet-ac45b5c7	available	vpc-1233fb79	172.31.0.0/20	4091	-
	subnet-d780119b	available	vpc-1233fb79	172.31.32.0/20	4091	-

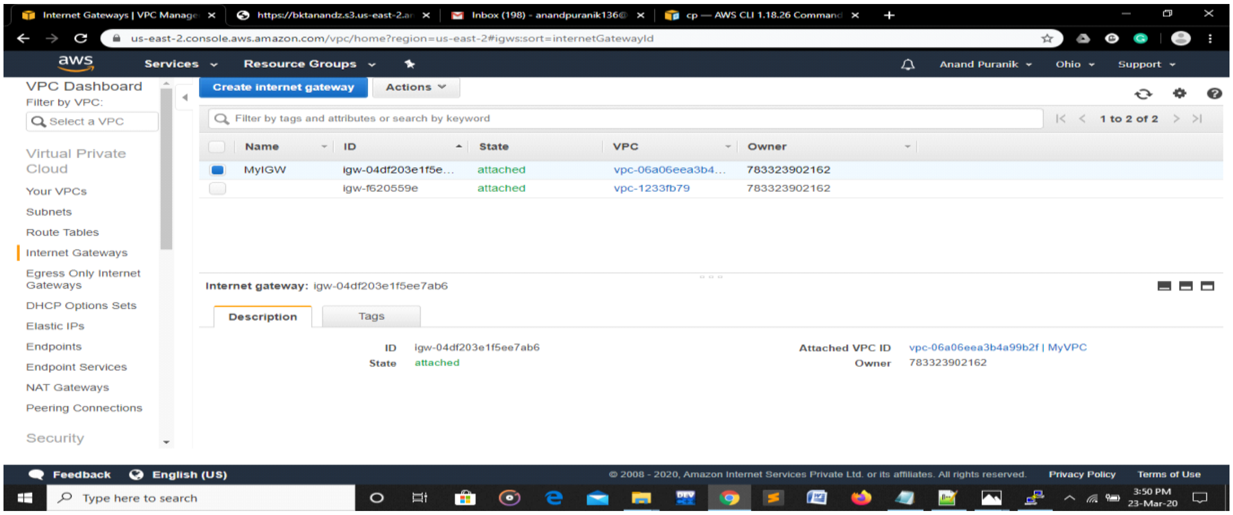
Subnet: subnet-07d5ae41331c476f9

Description | Flow Logs | Route Table | Network ACL | Tags | Sharing

Subnet ID	subnet-07d5ae41331c476f9	State	available
VPC	vpc-06a06eea3b4a99b2f | MyVPC	IPv4 CIDR	10.200.1.0/24
Available IPv4 Addresses	250	IPv6 CIDR	-
Availability Zone	us-east-2b (use2-az2)	Route Table	rtb-09bdd455a008a0e59 | PrivateRT
Network ACL	acl-00699b987d13593c9	Default subnet	No
Auto-assign public IPv4 address	No	Auto-assign IPv6 address	No
Outpost ID	-	Owner	783323902162

When creating Public subnet Modify auto assign IP - ON Auto-assign IPv4.

4. Further Internet Gateway is created and It is attached to the VPC


Internet Gateways | VPC Manage
https://bktanandz.s3.us-east-2.a
Inbox (198) - anandpuranik136@
cp — AWS CLI 1.18.26 Command
us-east-2.console.aws.amazon.com/vpc/home?region=us-east-2#igws:sort=internetGatewayId
Services
Resource Groups
Anand Puranik
Ohio
Support
VPC Dashboard
Filter by VPC:
Select a VPC
Virtual Private Cloud
Your VPCs
Subnets
Route Tables
Internet Gateways
Egress Only Internet Gateways
DHCP Options Sets
Elastic IPs
Endpoints
Endpoint Services
NAT Gateways
Peering Connections
Security
Create internet gateway
Actions
Filter by tags and attributes or search by keyword
1 to 2 of 2
Feedback
English (US)
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Type here to search
3:50 PM
23-Mar-20

Name	ID	State	VPC	Owner
MyIGW	igw-04df203e1f5e...	attached	vpc-06a06eea3b4...	783323902162
	igw-f620559e	attached	vpc-1233fb79	783323902162

Internet gateway: igw-04df203e1f5ee7ab6

Description | Tags

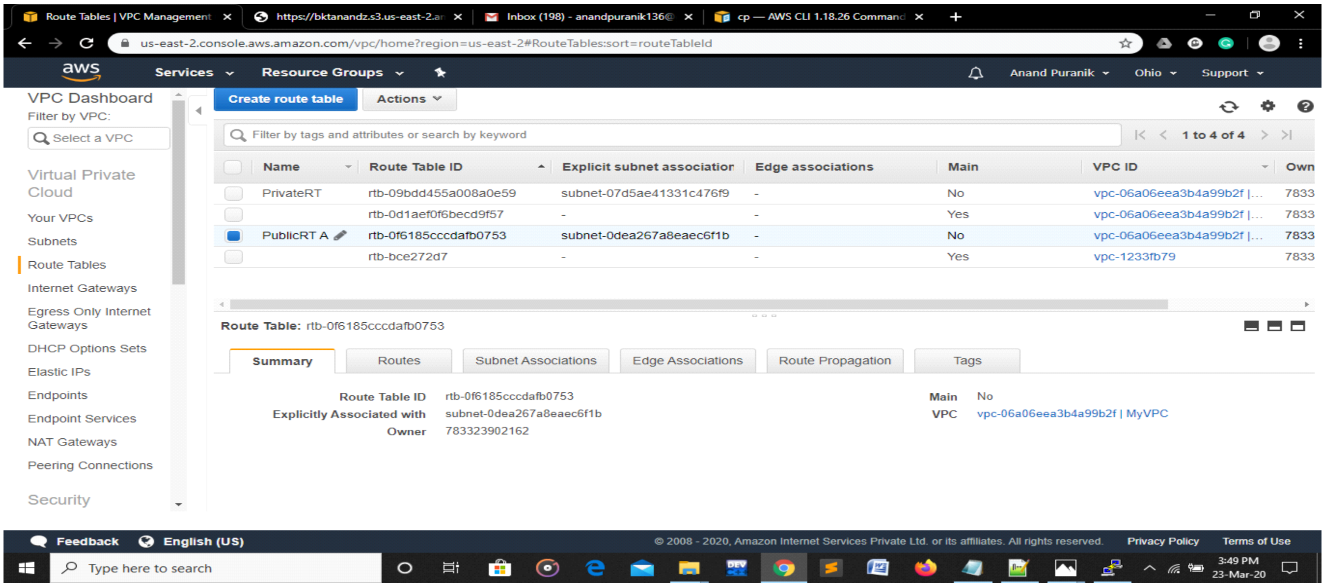
ID	igw-04df203e1f5ee7ab6	Attached VPC ID	vpc-06a06eea3b4a99b2f | MyVPC
State	attached	Owner	783323902162

5. Creating route table

  a. Select custom vpc while creating

  b. After creating Route set Target as Internet Gateway

  c. Associate Public Subnet to Public Route Table



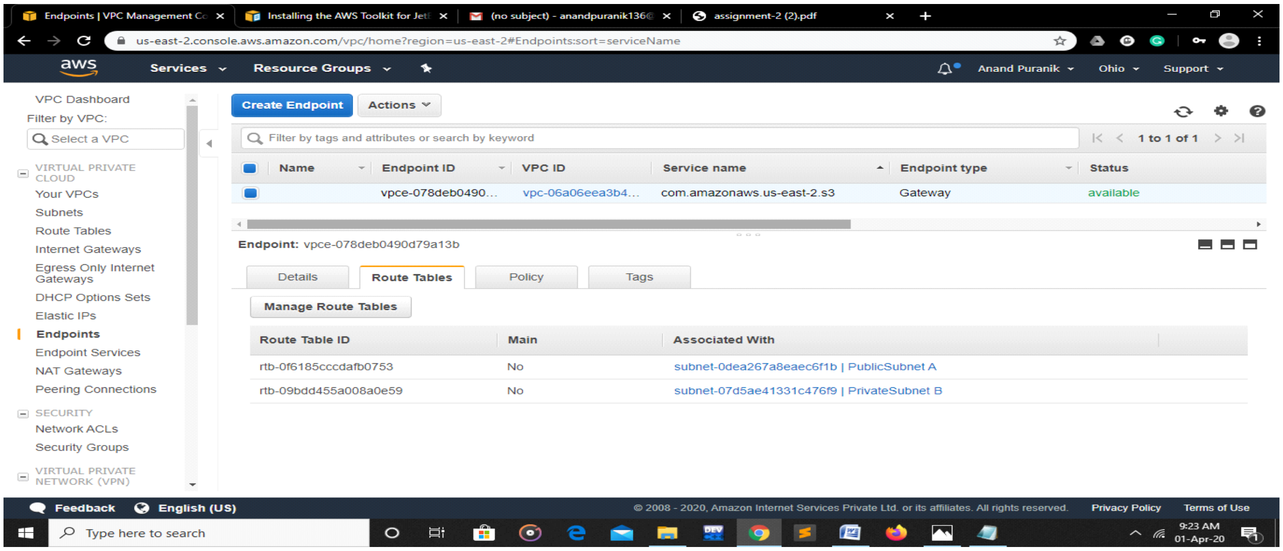
us-east-2.console.aws.amazon.com/vpc/home?region=us-east-2#RouteTables:sort=routeTableId

Name	Route Table ID	Explicit subnet association	Edge associations	Main	VPC ID	Own
PrivateRT	rtb-09bdd455a008a0e59	subnet-07d5ae41331c476f9	-	No	vpc-06a06eea3b4a99b2f |...	7833
	rtb-0d1aef0f6becd9f57	-	-	Yes	vpc-06a06eea3b4a99b2f |...	7833
PublicRT A	rtb-0f6185cccdafb0753	subnet-0dea267a8eaec6f1b	-	No	vpc-06a06eea3b4a99b2f |...	7833
	rtb-bce272d7	-	-	Yes	vpc-1233fb79	7833

Route Table: rtb-0f6185cccdafb0753

Route Table ID rtb-0f6185cccdafb0753
Explicitly Associated with subnet-0dea267a8eaec6f1b
Owner 783323902162
Main No
VPC vpc-06a06eea3b4a99b2f | MyVPC

Creating end point to custom vpc and attach to private subnet



us-east-2.console.aws.amazon.com/vpc/home?region=us-east-2#Endpoints:sort=serviceName

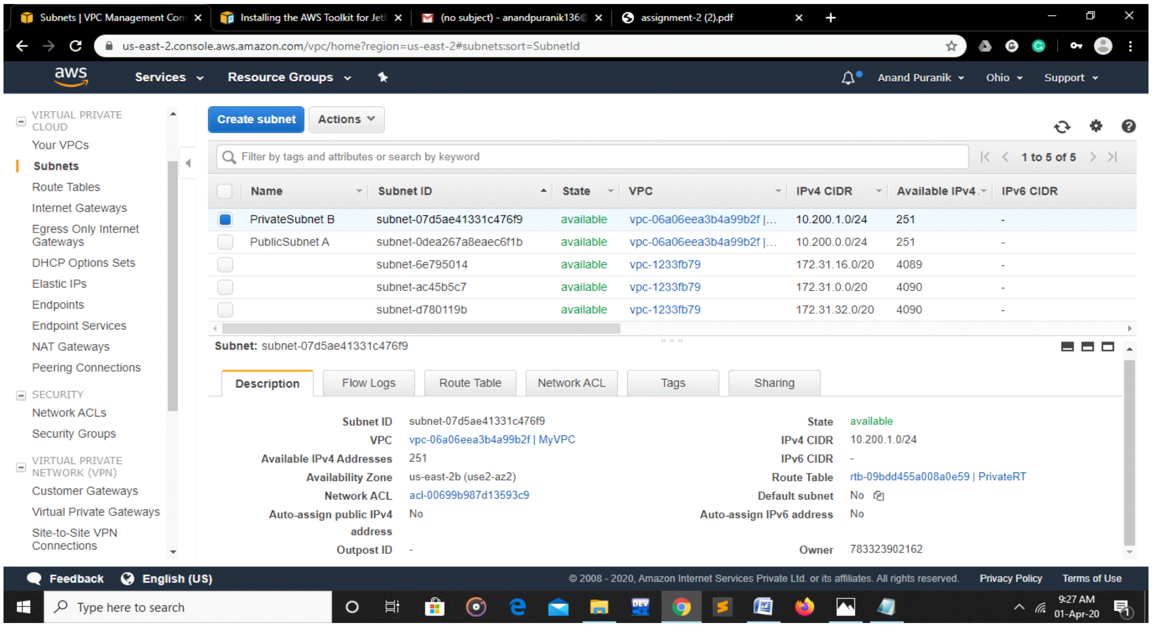
Name	Endpoint ID	VPC ID	Service name	Endpoint type	Status
	vpce-078deb0490...	vpc-06a06eea3b4...	com.amazonaws.us-east-2.s3	Gateway	available

Endpoint: vpce-078deb0490d79a13b

Route Table ID	Main	Associated With
rtb-0f6185cccdafb0753	No	subnet-0dea267a8eaec6f1b | PublicSubnet A
rtb-09bdd455a008a0e59	No	subnet-07d5ae41331c476f9 | PrivateSubnet B

Select Custom VPC

Select public/private subnet

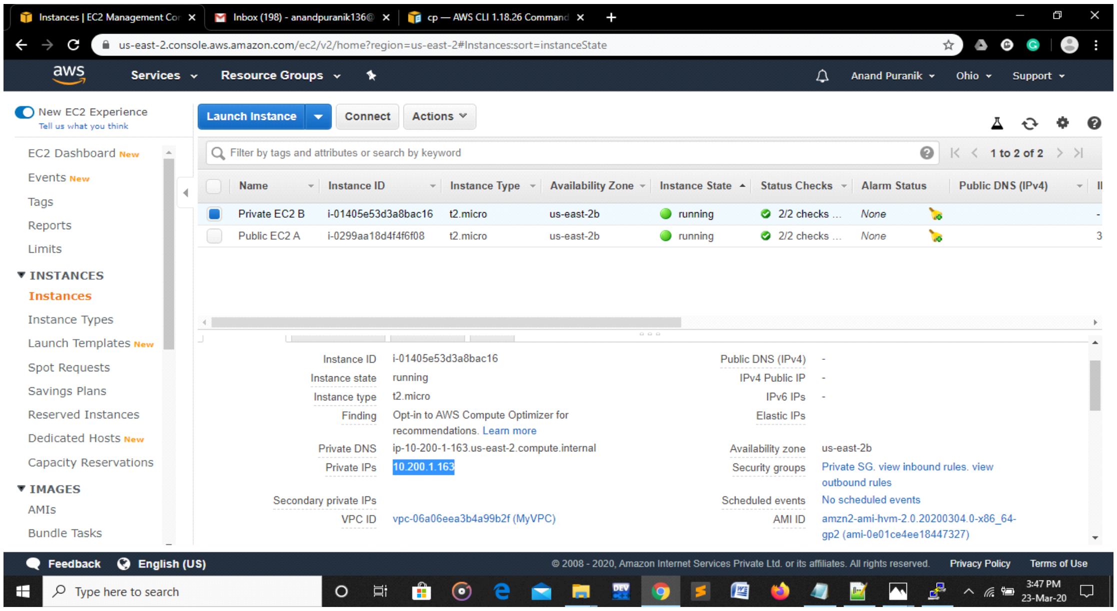


Name	Subnet ID	State	VPC	IPv4 CIDR	Available IPv4	IPv6 CIDR
PrivateSubnet B	subnet-07d5ae41331c476f9	available	vpc-06a06eea3b4a99b2f |...	10.200.1.0/24	251	-
PublicSubnet A	subnet-0dea267a8eaec6f1b	available	vpc-06a06eea3b4a99b2f |...	10.200.0.0/24	251	-
	subnet-6e795014	available	vpc-1233fb79	172.31.16.0/20	4089	-
	subnet-ac45b5c7	available	vpc-1233fb79	172.31.0.0/20	4090	-
	subnet-d780119b	available	vpc-1233fb79	172.31.32.0/20	4090	-

Subnet: subnet-07d5ae41331c476f9

Subnet ID	subnet-07d5ae41331c476f9	State	available
VPC	vpc-06a06eea3b4a99b2f | MyVPC	IPv4 CIDR	10.200.1.0/24
Available IPv4 Addresses	251	IPv6 CIDR	-
Availability Zone	us-east-2b (use2-az2)	Route Table	rtb-09bdd455a008a0e59 | PrivateRT
Network ACL	acl-00699b987d13593c9	Default subnet	No
Auto-assign public IPv4 address	No	Auto-assign IPv6 address	No
Outpost ID	-	Owner	783323902162

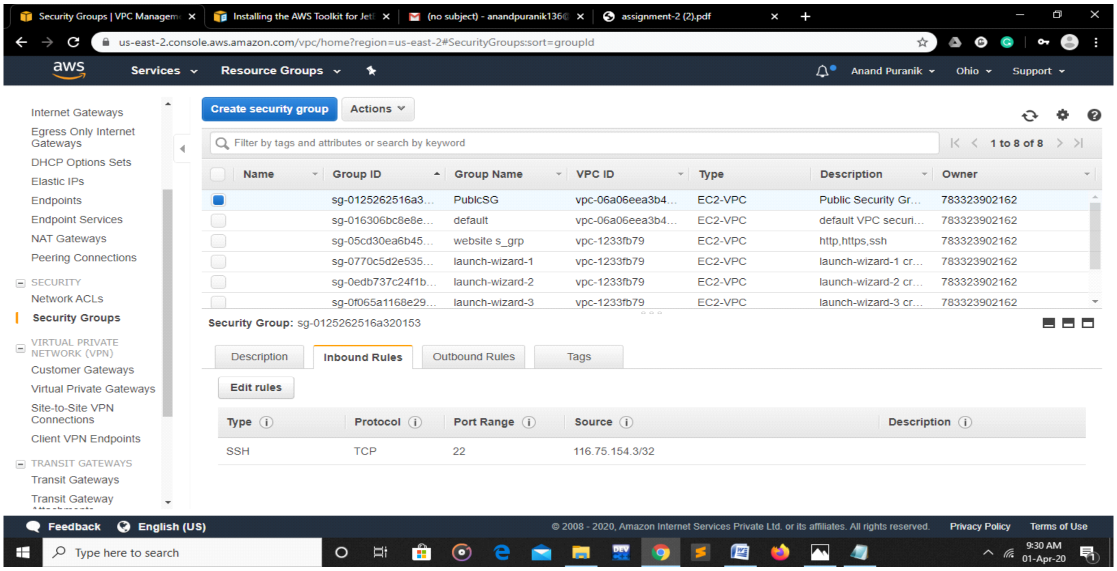
Create Two EC2 Instances-



Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS (IPv4)
Private EC2 B	i-01405e53d3a8bac16	t2.micro	us-east-2b	● running	✓ 2/2 checks ...	*None*	-
Public EC2 A	i-0299aa18d4f4f6f08	t2.micro	us-east-2b	● running	✓ 2/2 checks ...	*None*	3

Instance ID	i-01405e53d3a8bac16	Public DNS (IPv4)	-
Instance state	running	IPv4 Public IP	-
Instance type	t2.micro	IPv6 IPs	-
Finding	Opt-in to AWS Compute Optimizer for recommendations. Learn more	Elastic IPs	
Private DNS	ip-10-200-1-163.us-east-2.compute.internal	Availability zone	us-east-2b
Private IPs	10.200.1.163	Security groups	Private SG. view inbound rules. view outbound rules
Secondary private IPs		Scheduled events	No scheduled events
VPC ID	vpc-06a06eea3b4a99b2f (MyVPC)	AMI ID	amzn2-ami-hvm-2.0.20200304.0-x86_64-gp2 (ami-0e01ce4ee18447327)

Create Security Groups-



☐	Name	Group ID	Group Name	VPC ID	Type	Description	Owner
☑		sg-0125262516a3…	PublcSG	vpc-06a06eea3b4…	EC2-VPC	Public Security Gr…	783323902162
☐		sg-016306bc8e8e…	default	vpc-06a06eea3b4…	EC2-VPC	default VPC securi…	783323902162
☐		sg-05cd30ea6b45…	website s_grp	vpc-1233fb79	EC2-VPC	http,https,ssh	783323902162
☐		sg-0770c5d2e535…	launch-wizard-1	vpc-1233fb79	EC2-VPC	launch-wizard-1 cr…	783323902162
☐		sg-0edb737c24f1b…	launch-wizard-2	vpc-1233fb79	EC2-VPC	launch-wizard-2 cr…	783323902162
☐		sg-0f065a1168e29…	launch-wizard-3	vpc-1233fb79	EC2-VPC	launch-wizard-3 cr…	783323902162

Security Group: sg-0125262516a320153

Type	Protocol	Port Range	Source	Description
SSH	TCP	22	116.75.154.3/32	

Feedback
English (US)
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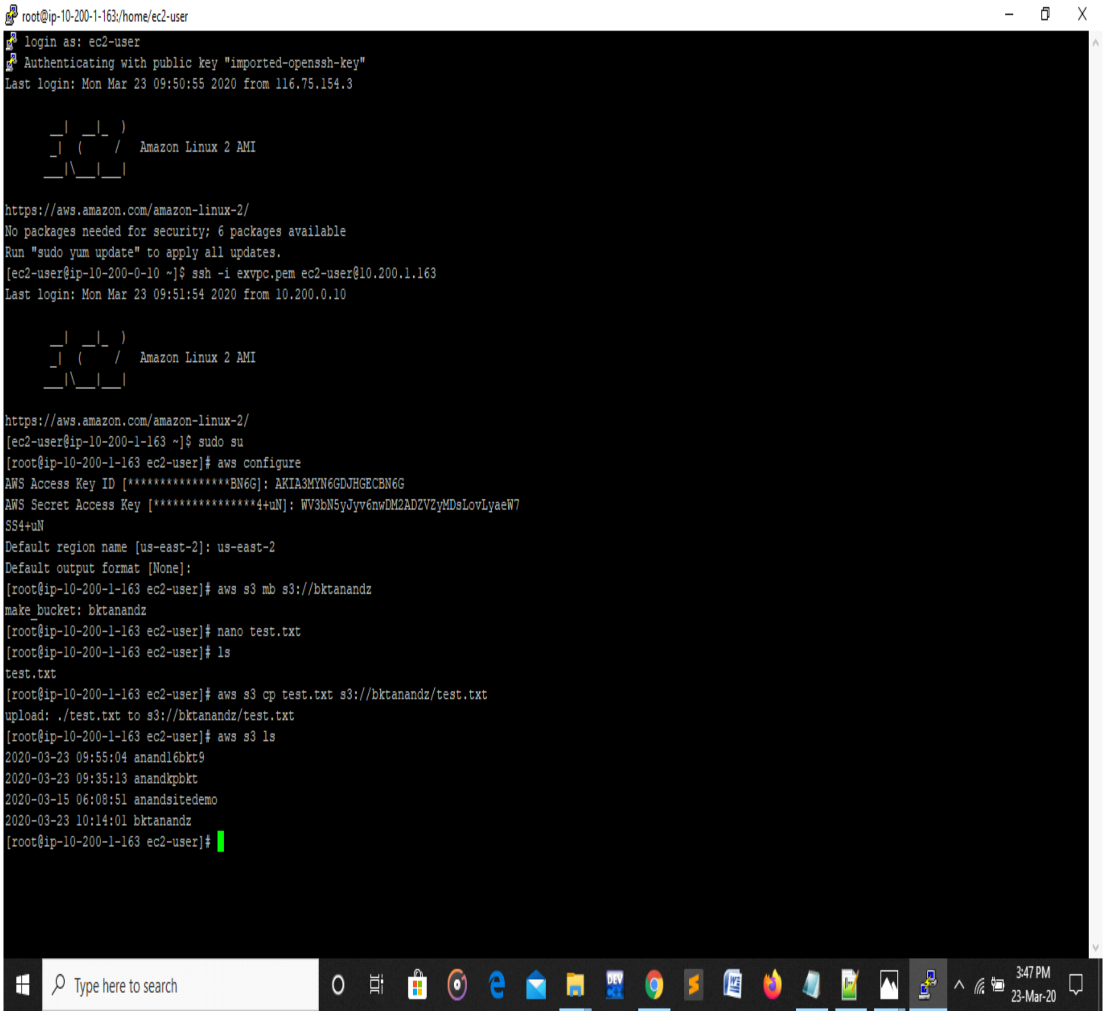
Type here to search
9:30 AM
01-Apr-20



```
login as: ec2-user
Authenticating with public key "imported-openssh-key"
Last login: Mon Mar 23 09:50:55 2020 from 116.75.154.3

       __|  __|_  )
       _|  (     /   Amazon Linux 2 AMI
      ___|\___|___|

https://aws.amazon.com/amazon-linux-2/
No packages needed for security; 6 packages available
Run "sudo yum update" to apply all updates.
[ec2-user@ip-10-200-0-10 ~]$ ssh -i exvpc.pem ec2-user@10.200.1.163
Last login: Mon Mar 23 09:51:54 2020 from 10.200.0.10

       __|  __|_  )
       _|  (     /   Amazon Linux 2 AMI
      ___|\___|___|

https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-10-200-1-163 ~]$ sudo su
[root@ip-10-200-1-163 ec2-user]# aws configure
AWS Access Key ID [****************BN6G]: AKIA3MYN6GDJHGECBN6G
AWS Secret Access Key [****************4+uN]: WV3bN5yJyv6nwDM2ADZVZyMDsLovLyaeW7
SS4+uN
Default region name [us-east-2]: us-east-2
Default output format [None]:
[root@ip-10-200-1-163 ec2-user]# aws s3 mb s3://bktanandz
make_bucket: bktanandz
[root@ip-10-200-1-163 ec2-user]# nano test.txt
[root@ip-10-200-1-163 ec2-user]# ls
test.txt
[root@ip-10-200-1-163 ec2-user]# aws s3 cp test.txt s3://bktanandz/test.txt
upload: ./test.txt to s3://bktanandz/test.txt
[root@ip-10-200-1-163 ec2-user]# aws s3 ls
2020-03-23 09:55:04 anand16bkt9
2020-03-23 09:35:13 anandkpbkt
2020-03-15 06:08:51 anandsitedemo
2020-03-23 10:14:01 bktanandz
[root@ip-10-200-1-163 ec2-user]#
```

With the help of putty connection is established.

Connecting Public EC2 with Private EC2 using SSH cmd Command & .pem file.

Create IAM user to access s3 bucket :

a. Create user group by having S3 full (access) as a policy

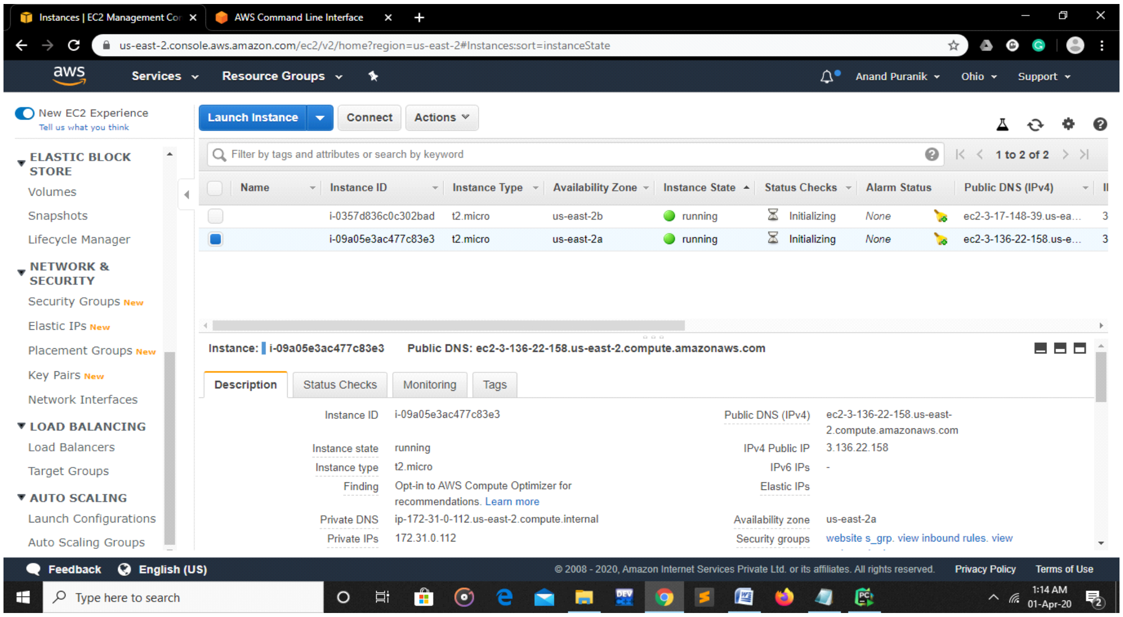
b. Attach user which we created

- **Bucket is created using aws S3 mb S3://btkanandz**
- **Upload file using aws s3 cp s3://bktanandz**

Assignment 3

Create autoscaling of instance with min and Max load on the basis of cpu
Attach the instance to Alb

1.creating 2 ec2 instances



Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS (IPv4)
	i-0357d836c0c302bad	t2.micro	us-east-2b	● running	Initializing	None	ec2-3-17-148-39.us-ea...
	i-09a05e3ac477c83e3	t2.micro	us-east-2a	● running	Initializing	None	ec2-3-136-22-158.us-e...

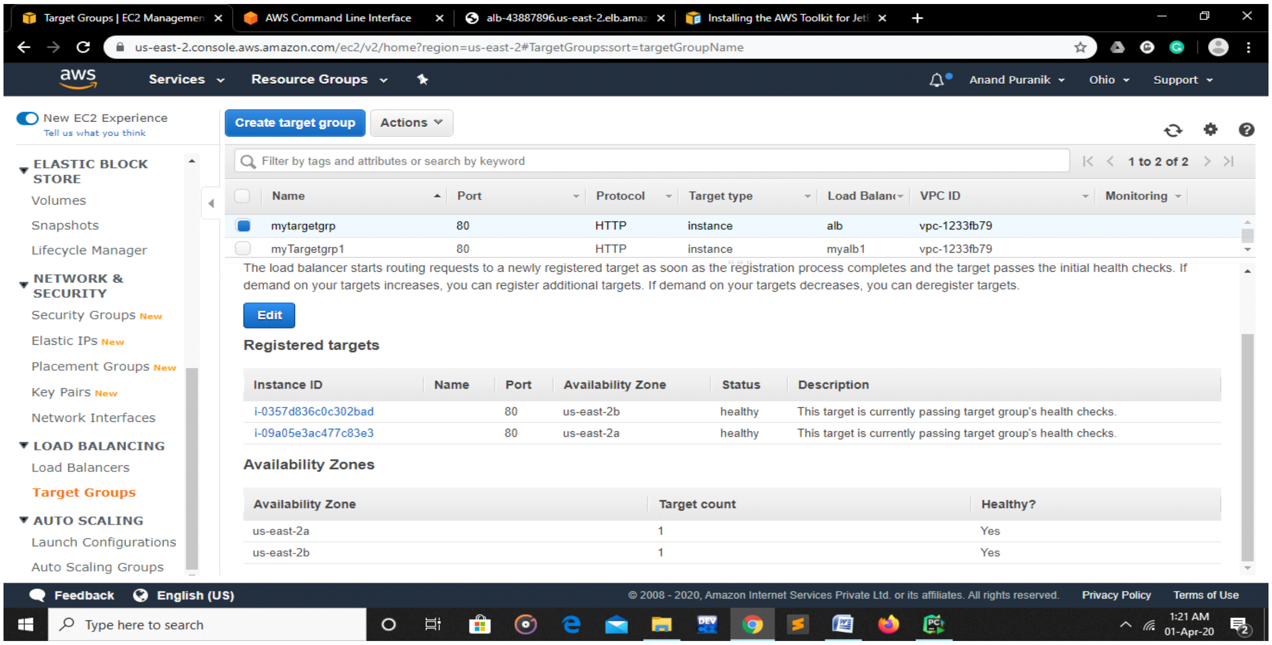
Instance: i-09a05e3ac477c83e3   Public DNS: ec2-3-136-22-158.us-east-2.compute.amazonaws.com

Description | Status Checks | Monitoring | Tags

Instance ID i-09a05e3ac477c83e3
Instance state running
Instance type t2.micro
Finding Opt-in to AWS Compute Optimizer for recommendations. Learn more
Private DNS ip-172-31-0-112.us-east-2.compute.internal
Private IPs 172.31.0.112

Public DNS (IPv4) ec2-3-136-22-158.us-east-2.compute.amazonaws.com
IPv4 Public IP 3.136.22.158
IPv6 IPs -
Elastic IPs
Availability zone us-east-2a
Security groups website s_grp. view inbound rules. view

2. creating target group:



Name	Port	Protocol	Target type	Load Balan	VPC ID	Monitoring
mytargetgrp	80	HTTP	instance	alb	vpc-1233fb79	
myTargetgrp1	80	HTTP	instance	myalb1	vpc-1233fb79	

The load balancer starts routing requests to a newly registered target as soon as the registration process completes and the target passes the initial health checks. If demand on your targets increases, you can register additional targets. If demand on your targets decreases, you can deregister targets.

Registered targets

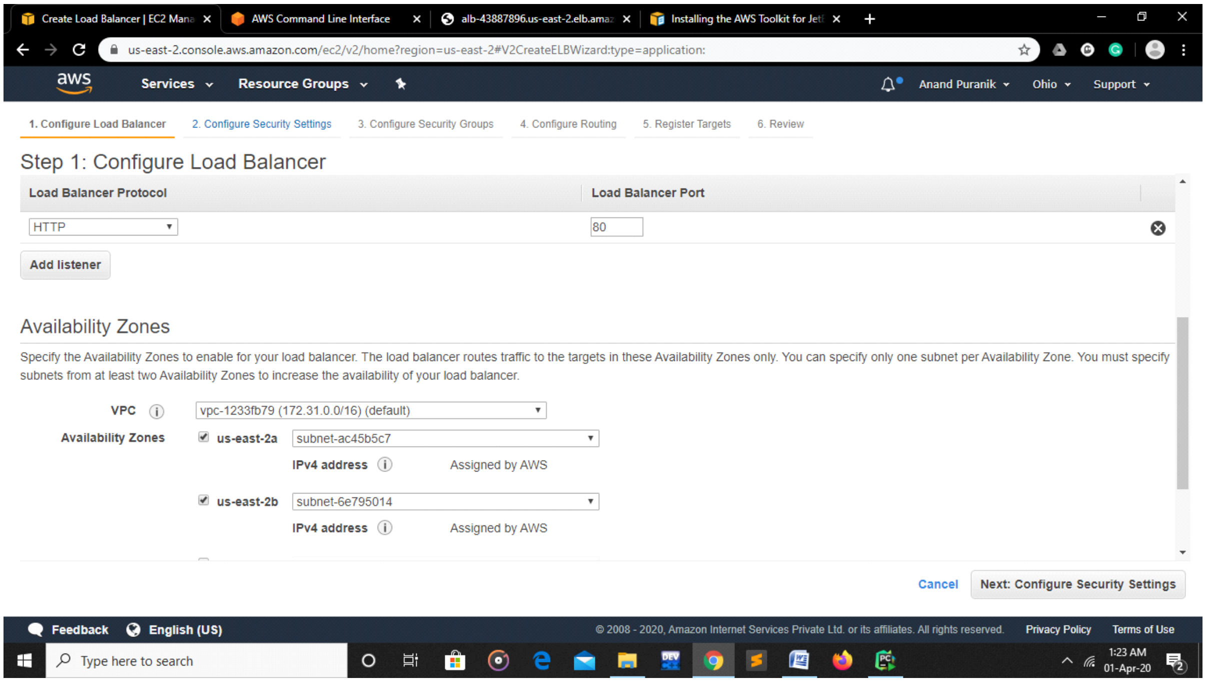
Instance ID	Name	Port	Availability Zone	Status	Description
i-0357d836c0c302bad		80	us-east-2b	healthy	This target is currently passing target group's health checks.
i-09a05e3ac477c83e3		80	us-east-2a	healthy	This target is currently passing target group's health checks.

Availability Zones

Availability Zone	Target count	Healthy?
us-east-2a	1	Yes
us-east-2b	1	Yes

3. creating alb

default vpc using atleat 2 subnet


Create Load Balancer | EC2 Mana
AWS Command Line Interface
alb-43887896.us-east-2.elb.ama
Installing the AWS Toolkit for Jet
us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#V2CreateELBWizard:type=application:
Services
Resource Groups
Anand Puranik
Ohio
Support
1. Configure Load Balancer
2. Configure Security Settings
3. Configure Security Groups
4. Configure Routing
5. Register Targets
6. Review
Add listener
Cancel
Next: Configure Security Settings
Feedback
English (US)
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Privacy Policy
Terms of Use
Type here to search
1:23 AM
01-Apr-20

Step 1: Configure Load Balancer

Load Balancer Protocol	Load Balancer Port
HTTP	80

Availability Zones

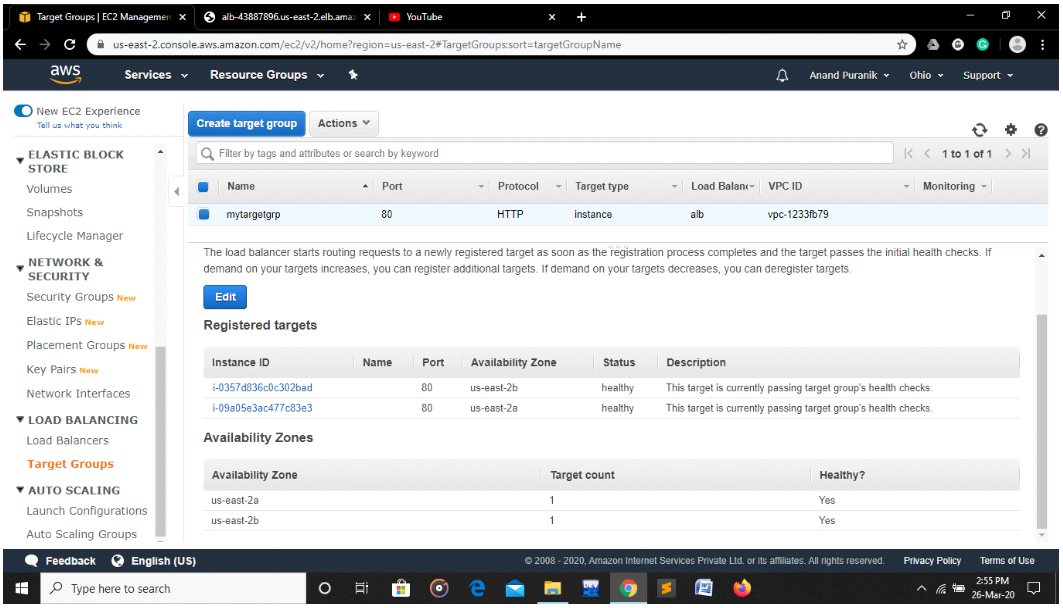
Specify the Availability Zones to enable for your load balancer. The load balancer routes traffic to the targets in these Availability Zones only. You can specify only one subnet per Availability Zone. You must specify subnets from at least two Availability Zones to increase the availability of your load balancer.

VPC: vpc-1233fb79 (172.31.0.0/16) (default)

Availability Zones:
☑ us-east-2a subnet-ac45b5c7
IPv4 address: Assigned by AWS

☑ us-east-2b subnet-6e795014
IPv4 address: Assigned by AWS

Giving existing target grp-



Name	Port	Protocol	Target type	Load Balanc	VPC ID	Monitoring
mytargetgrp	80	HTTP	instance	alb	vpc-1233fb79	

The load balancer starts routing requests to a newly registered target as soon as the registration process completes and the target passes the initial health checks. If demand on your targets increases, you can register additional targets. If demand on your targets decreases, you can deregister targets.

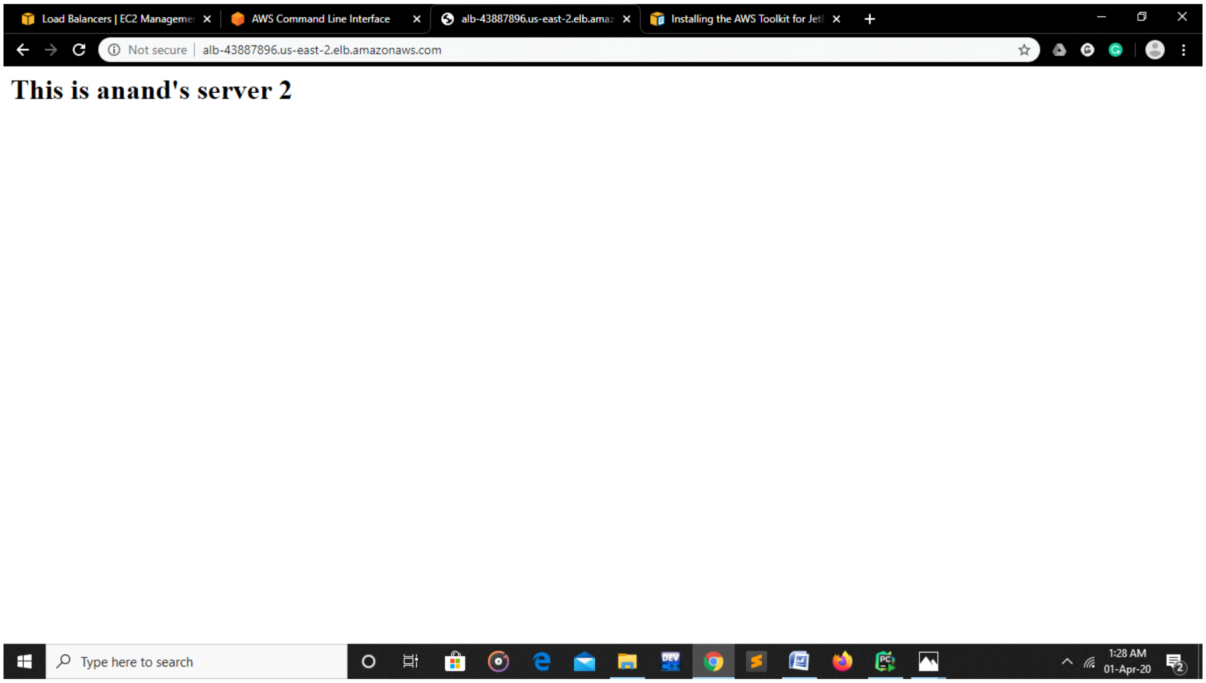
Registered targets

Instance ID	Name	Port	Availability Zone	Status	Description
i-0357d836c0c302bad		80	us-east-2b	healthy	This target is currently passing target group's health checks.
i-09a05e3ac477c83e3		80	us-east-2a	healthy	This target is currently passing target group's health checks.

Availability Zones

Availability Zone	Target count	Healthy?
us-east-2a	1	Yes
us-east-2b	1	Yes

4. Copy the DNS address and test the results


Load Balancers | EC2 Manageme
AWS Command Line Interface
alb-43887896.us-east-2.elb.amaz
Installing the AWS Toolkit for Jet
Not secure
alb-43887896.us-east-2.elb.amazonaws.com
Type here to search
1:28 AM
01-Apr-20

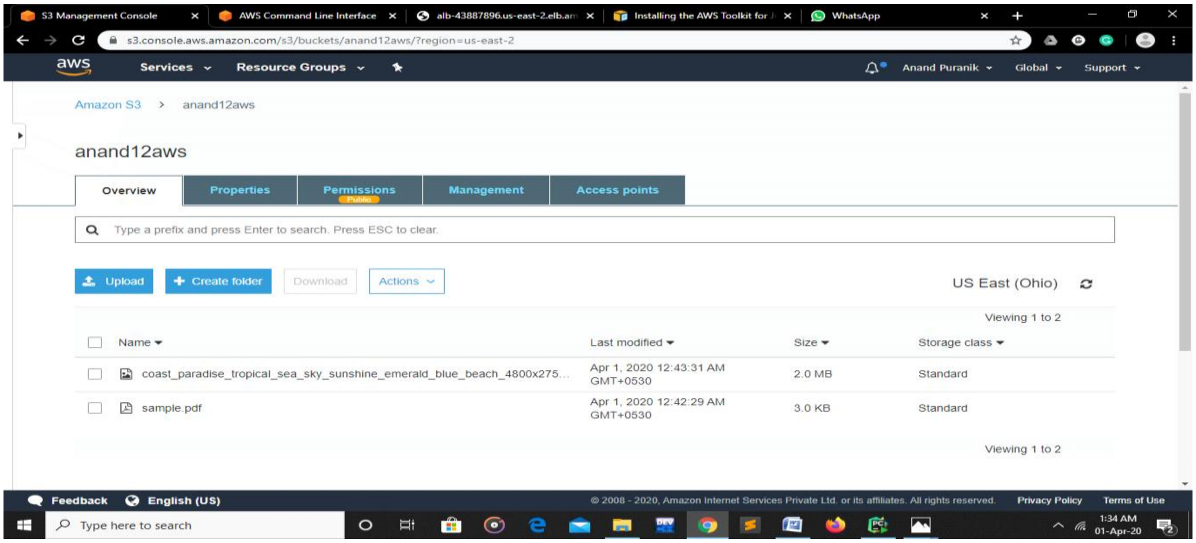
This is anand's server 2

Assignment 4

Create a bucket policy Upload some images pdf Which will give public access only to images and not to PDF

Steps

- Creating s3 bucket



anand12aws

Type a prefix and press Enter to search. Press ESC to clear.

Viewing 1 to 2

Name	Last modified	Size	Storage class
coast_paradise_tropical_sea_sky_sunshine_emerald_blue_beach_4800x275...	Apr 1, 2020 12:43:31 AM GMT+0530	2.0 MB	Standard
sample.pdf	Apr 1, 2020 12:42:29 AM GMT+0530	3.0 KB	Standard

Viewing 1 to 2

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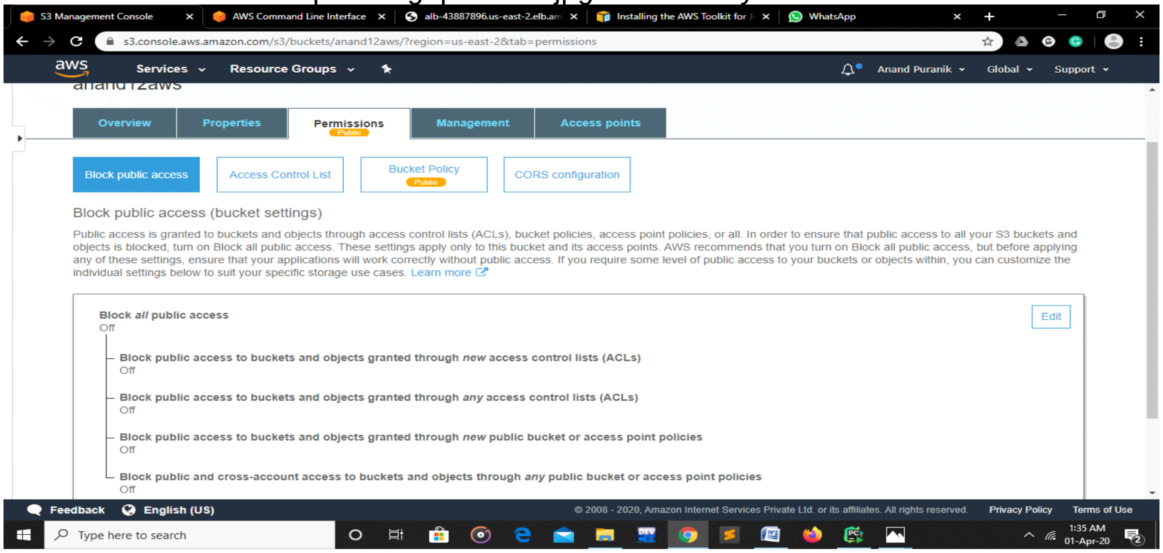
a. While creating s3 bucket choose Block all public access “Off”
b. Uploading .pdf and .jpg file to newly created bucket



Block public access (bucket settings)

Public access is granted to buckets and objects through access control lists (ACLs), bucket policies, access point policies, or all. In order to ensure that public access to all your S3 buckets and objects is blocked, turn on Block all public access. These settings apply only to this bucket and its access points. AWS recommends that you turn on Block all public access, but before applying any of these settings, ensure that your applications will work correctly without public access. If you require some level of public access to your buckets or objects within, you can customize the individual settings below to suit your specific storage use cases. Learn more

Block *all* public access
Off

- Block public access to buckets and objects granted through *new* access control lists (ACLs)
  Off
- Block public access to buckets and objects granted through *any* access control lists (ACLs)
  Off
- Block public access to buckets and objects granted through *new* public bucket or access point policies
  Off
- Block public and cross-account access to buckets and objects through *any* public bucket or access point policies
  Off

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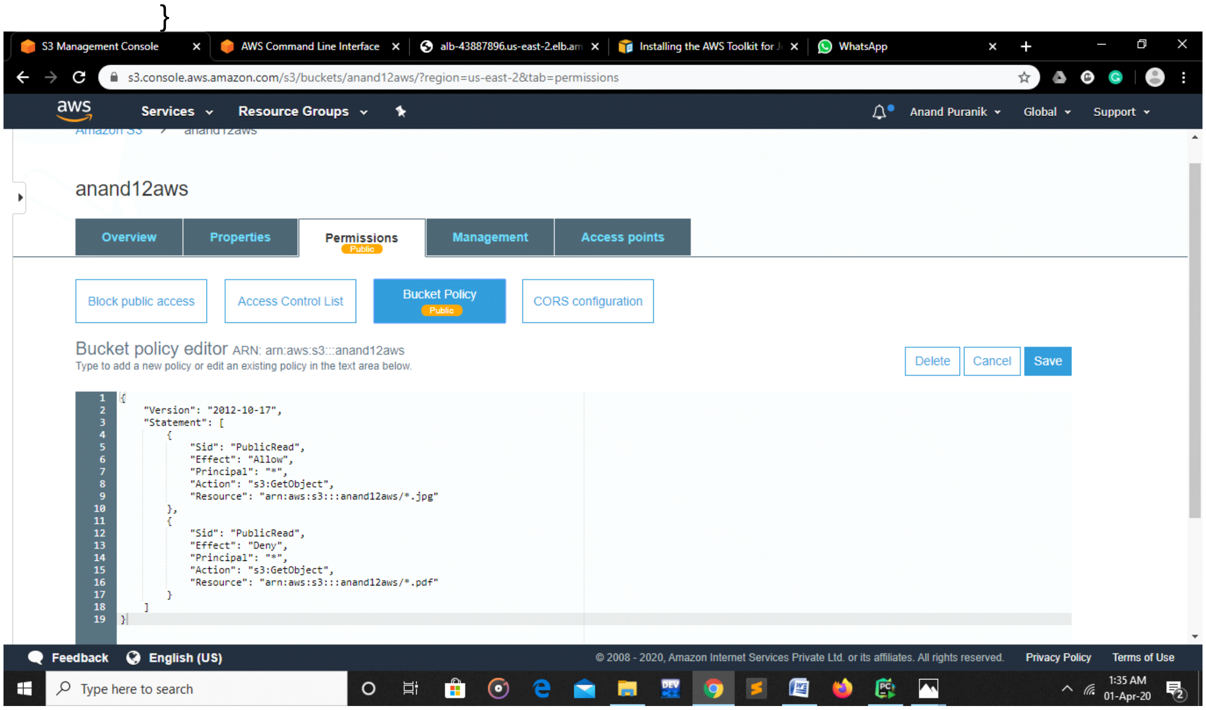
1. Creating bucket policy using following code:

```
{
   "Version": "2012-10-17",
   "Statement": [
      {
         "Sid": "PublicRead",
         "Effect": "Allow",
         "Principal": "*",
         "Action": "s3:GetObject",
         "Resource": "arn:aws:s3:::anand12aws/*.jpg"
      },       {
         "Sid": "PublicRead",
         "Effect": "Deny",
         "Principal": "*",
         "Action": "s3:GetObject",
         "Resource": "arn:aws:s3:::anand12aws/*.pdf"
      }
   ]
}
```



Bucket policy editor ARN: arn:aws:s3:::anand12aws
Type to add a new policy or edit an existing policy in the text area below.

```
{
    "Version": "2012-10-17",
    "Statement": [
        {
            "Sid": "PublicRead",
            "Effect": "Allow",
            "Principal": "*",
            "Action": "s3:GetObject",
            "Resource": "arn:aws:s3:::anand12aws/*.jpg"
        },
        {
            "Sid": "PublicRead",
            "Effect": "Deny",
            "Principal": "*",
            "Action": "s3:GetObject",
            "Resource": "arn:aws:s3:::anand12aws/*.pdf"
        }
    ]
}
```

Assignment 5

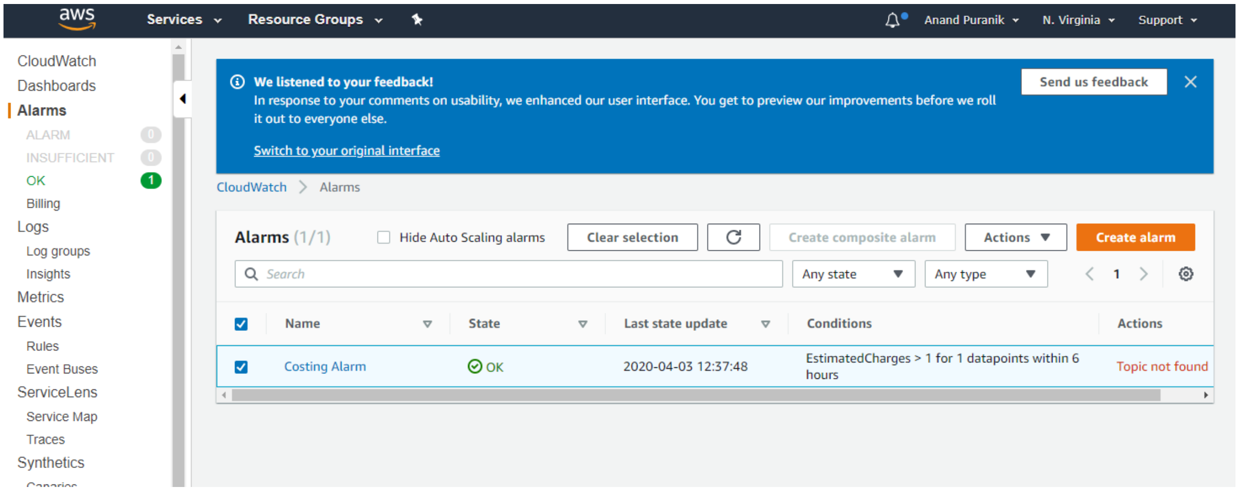
1. Create a billing alarm on your account to check if your account billing exceeds $1 for the current month.

To enable the monitoring of estimated charges

1. Open the Billing and Cost Management console
2. In the navigation pane, choose **Billing Preferences**.
3. Choose **Receive Billing Alerts**.
4. Choose **Save preferences**.

To create a billing alarm using the CloudWatch console

1. Select N Virginia
2. In the navigation pane, choose **Alarms**, **Create Alarm**.

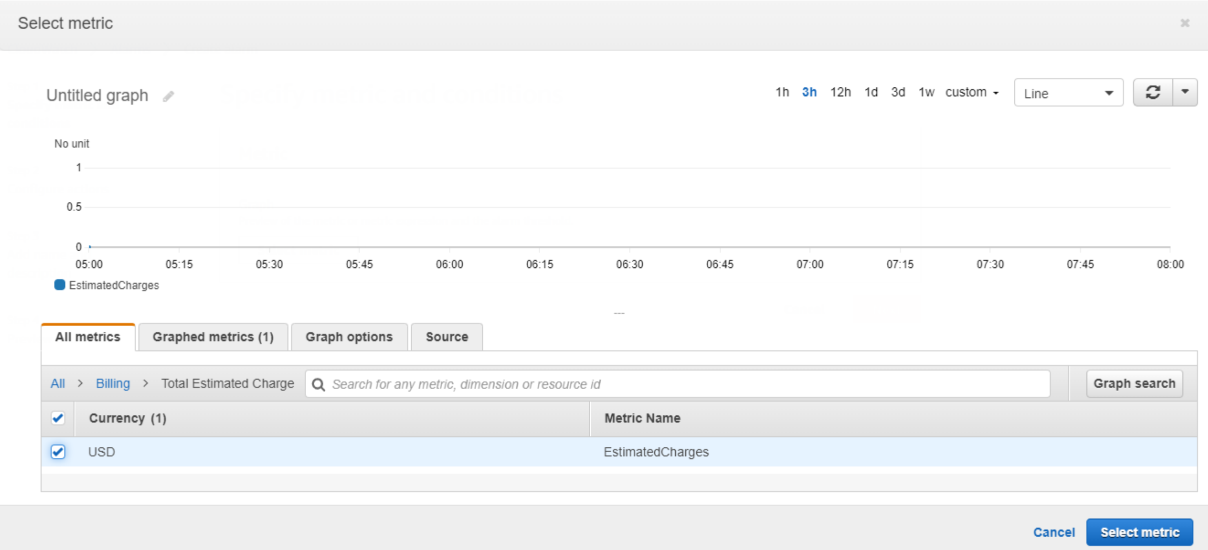


We listened to your feedback!
In response to your comments on usability, we enhanced our user interface. You get to preview our improvements before we roll it out to everyone else.

Switch to your original interface

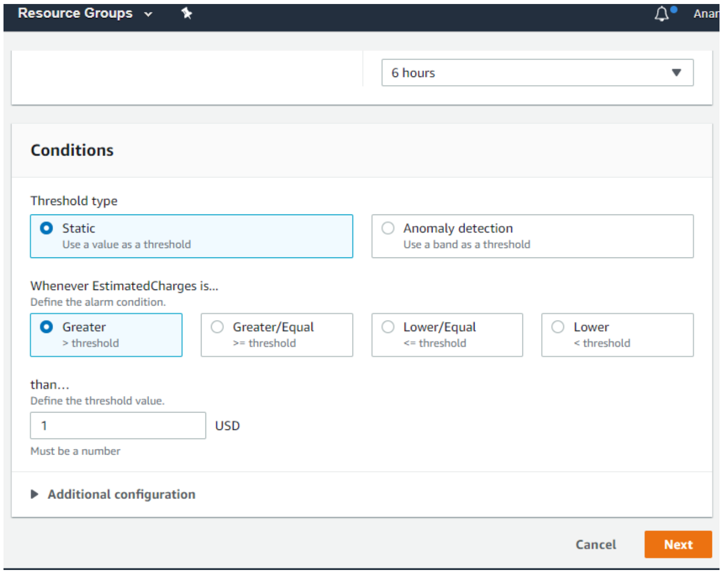
☑	Name	State	Last state update	Conditions	Actions
☑	Costing Alarm	✓ OK	2020-04-03 12:37:48	EstimatedCharges > 1 for 1 datapoints within 6 hours	Topic not found

3. Choose **Select metric**. In the **All metrics** tab, choose **Billing**, **Total Estimated Charge**.
4. Select the check box next to **EstimatedCharges**, and choose **Select metric**.



☑	Currency (1)	Metric Name
☑	USD	EstimatedCharges

5. Under **Conditions**, choose **Static**.
6. For **Whenever EstimatedCharges is**, choose **Greater**.
7. For **than**, enter the monetary amount (for example, `1$`) that must be exceeded to trigger the alarm.



Resource Groups ⌄ Anar

6 hours ▼

Conditions

Threshold type

● Static
Use a value as a threshold

○ Anomaly detection
Use a band as a threshold

Whenever EstimatedCharges is...
Define the alarm condition.

● Greater
> threshold

○ Greater/Equal
>= threshold

○ Lower/Equal
<= threshold

○ Lower
< threshold

than...
Define the threshold value.

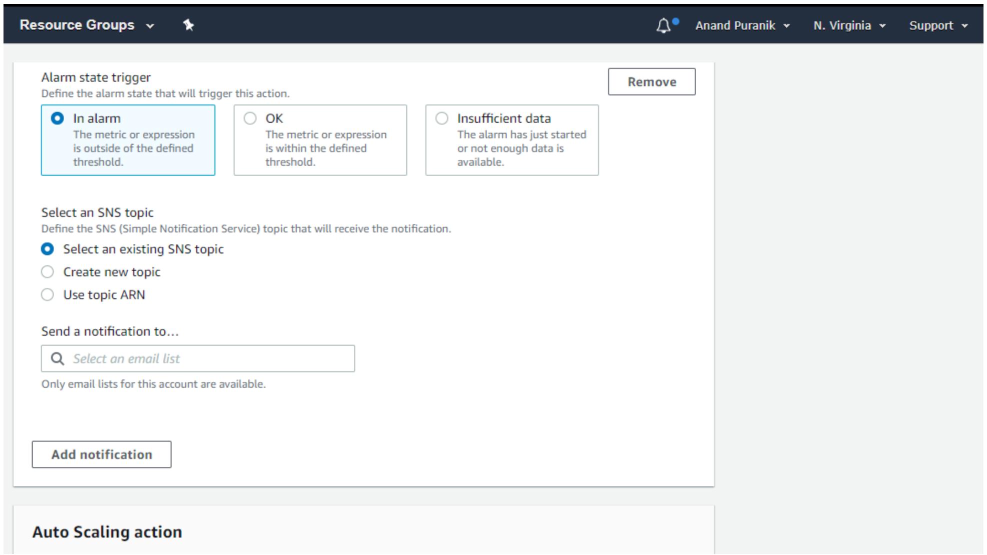
1 USD

Must be a number

▶ Additional configuration

Cancel Next

8. Choose **Next**.



Resource Groups ⌄ Anand Puranik ▾ N. Virginia ▾ Support ▾

Alarm state trigger
Define the alarm state that will trigger this action.

Remove

● In alarm
The metric or expression is outside of the defined threshold.

○ OK
The metric or expression is within the defined threshold.

○ Insufficient data
The alarm has just started or not enough data is available.

Select an SNS topic
Define the SNS (Simple Notification Service) topic that will receive the notification.

● Select an existing SNS topic
○ Create new topic
○ Use topic ARN

Send a notification to...

Select an email list

Only email lists for this account are available.

Add notification

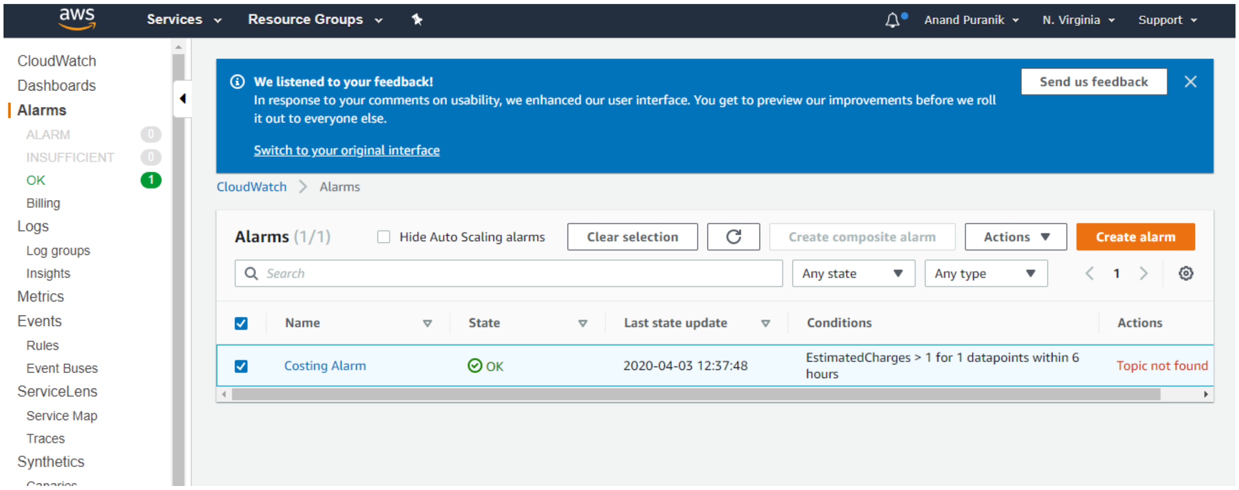
Auto Scaling action

9. Under **Notification**, select an SNS topic to notify when the alarm is in alarm state.

   To have the alarm send multiple notifications for the same alarm state or for different alarm states, choose **Add notification**.

10. When finished, choose **Next**.
11. Enter a name and description for the alarm. The name must contain only ASCII characters. Then choose **Next**.

12. Under **Preview and create**, confirm that the information and conditions are what you want, then choose **Create alarm**.



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In response to your comments on usability, we enhanced our user interface. You get to preview our improvements before we roll it out to everyone else.

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☑	Name	State	Last state update	Conditions	Actions
☑	Costing Alarm	✓ OK	2020-04-03 12:37:48	EstimatedCharges > 1 for 1 datapoints within 6 hours	Topic not found