AWS Admin – L2 Hands-on Assignment

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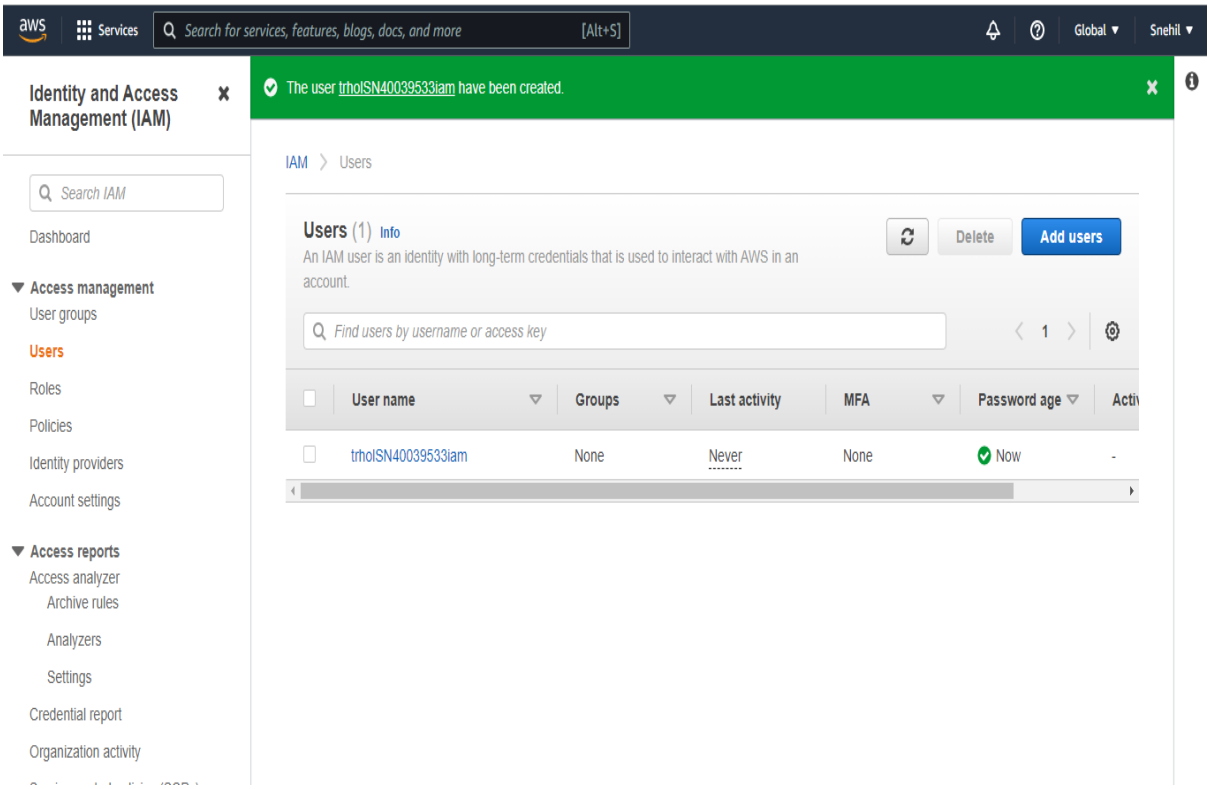
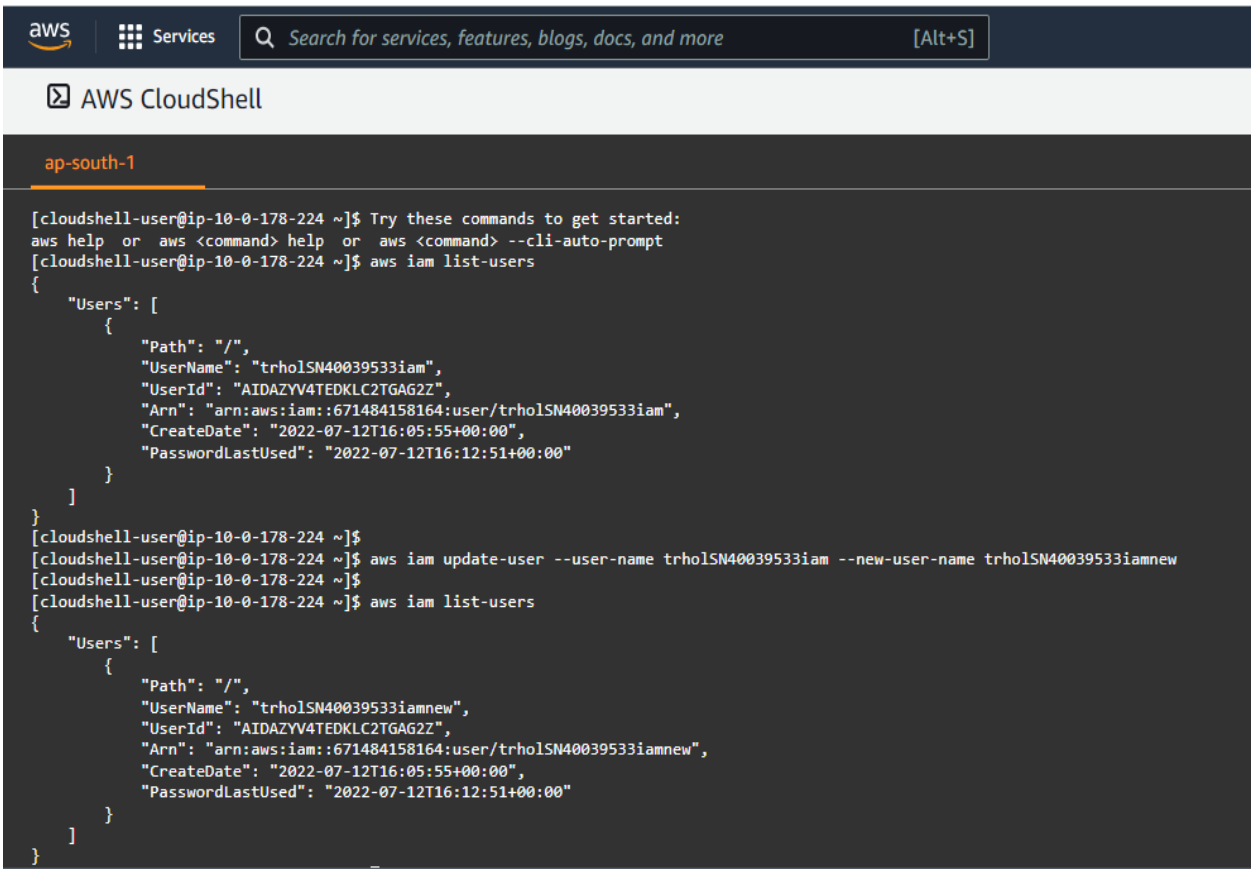
Email : ryasnehil44@live.com

Topic 1: User and Group Management

Assignment 1:

- Create user “trhol<EMP AD ID name>iam” using IAM.
- Rename user name to trhol<EMP AD ID name>iamnew”

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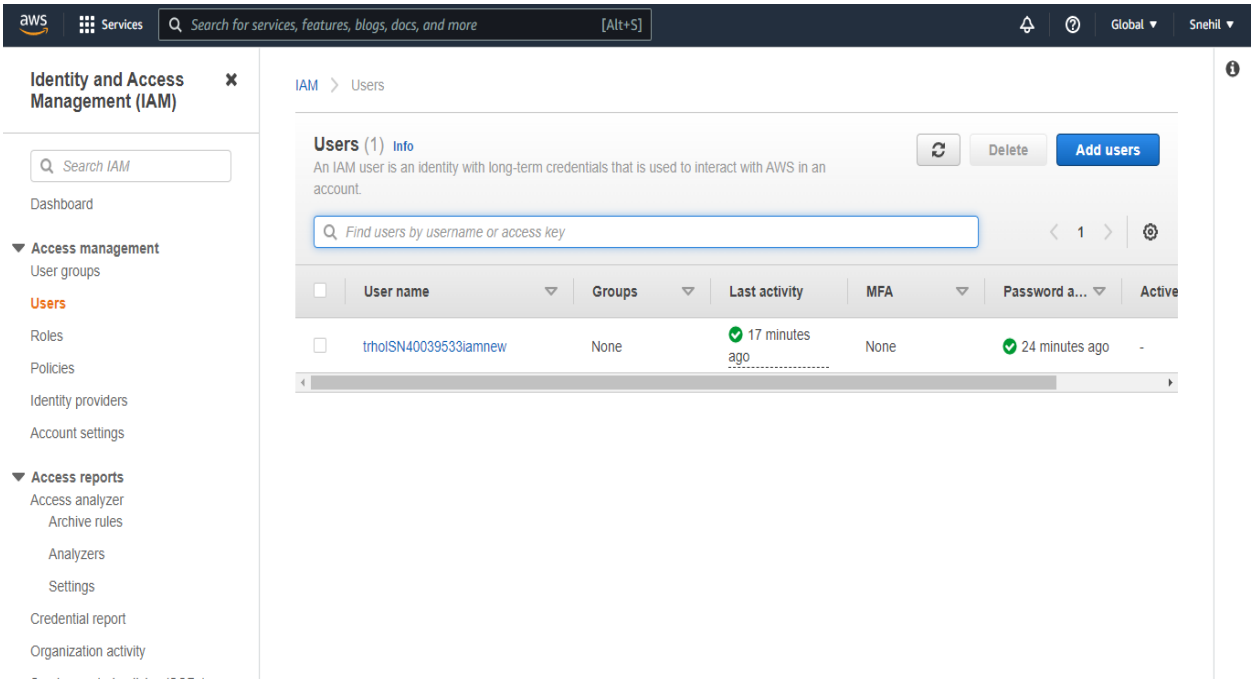
AWS CloudShell
ap-south-1
[cloudshell-user@ip-10-0-178-224 ~]$ Try these commands to get started:
aws help or aws <command> help or aws <command> --cli-auto-prompt
[cloudshell-user@ip-10-0-178-224 ~]$ aws iam list-users
{
"Users": [
{
"Path": "/",
"UserName": "trholSN40039533iam",
"UserId": "AIDAZYV4TEDKLC2TGAG2Z",
"Arn": "arn:aws:iam::671484158164:user/trholSN40039533iam",
"CreateDate": "2022-07-12T16:05:55+00:00",
"PasswordLastUsed": "2022-07-12T16:12:51+00:00"
}
]
}
[cloudshell-user@ip-10-0-178-224 ~]$
[cloudshell-user@ip-10-0-178-224 ~]$ aws iam update-user --user-name trholSN40039533iam --new-user-name trholSN40039533iamnew
[cloudshell-user@ip-10-0-178-224 ~]$
[cloudshell-user@ip-10-0-178-224 ~]$ aws iam list-users
{
"Users": [
{
"Path": "/",
"UserName": "trholSN40039533iamnew",
"UserId": "AIDAZYV4TEDKLC2TGAG2Z",
"Arn": "arn:aws:iam::671484158164:user/trholSN40039533iamnew",
"CreateDate": "2022-07-12T16:05:55+00:00",
"PasswordLastUsed": "2022-07-12T16:12:51+00:00"
}
]
}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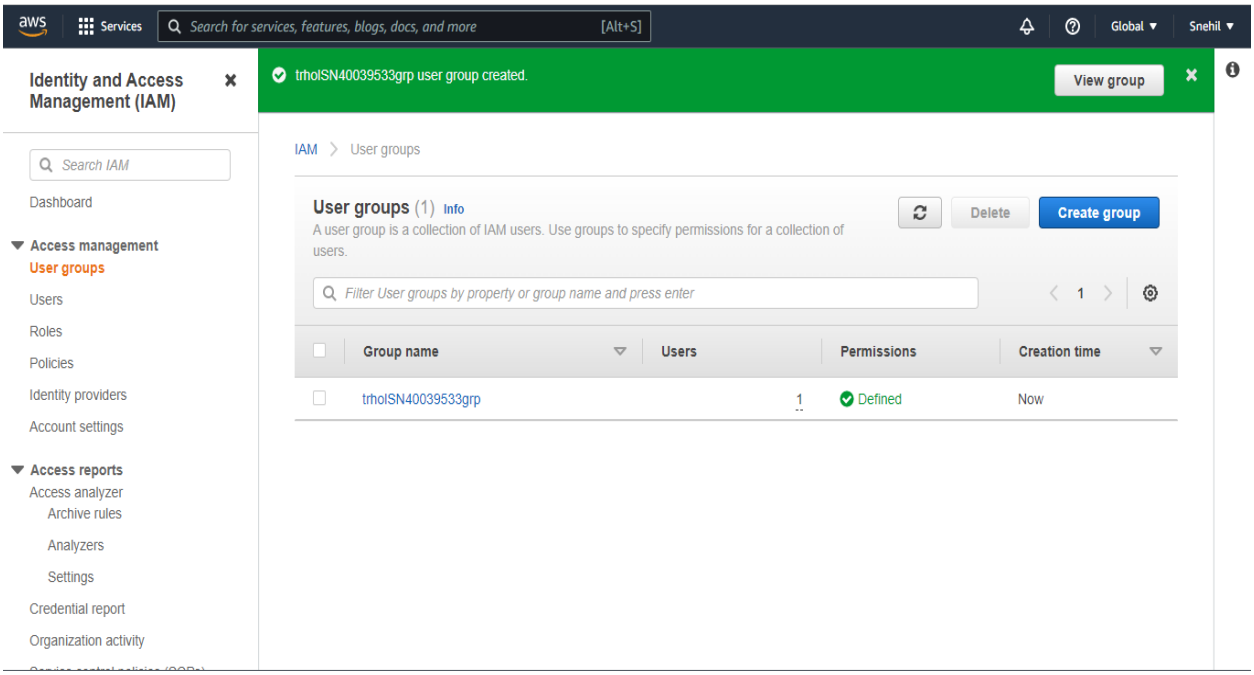
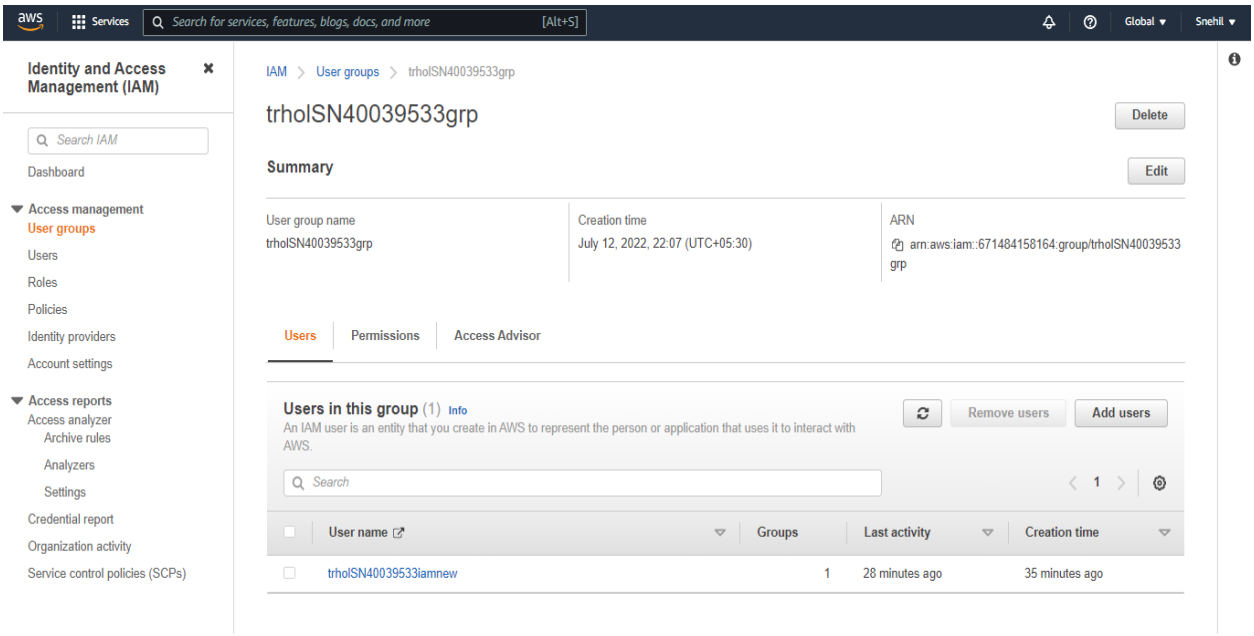
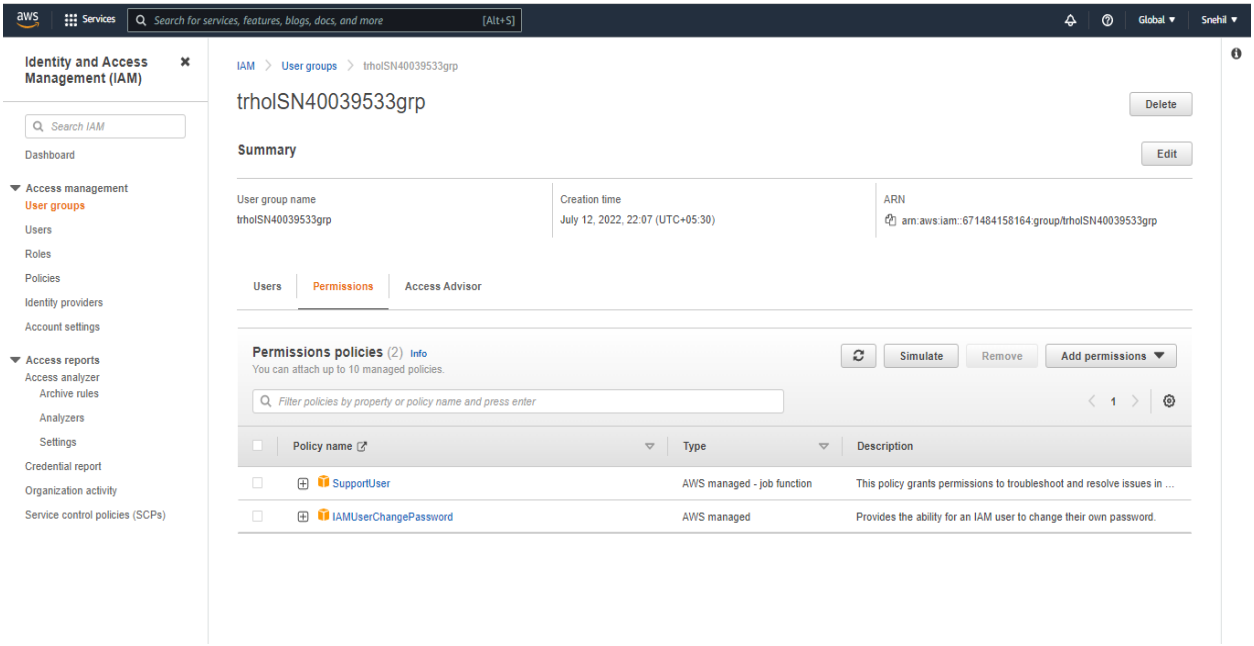
Users
Roles
Policies
Identity providers
Account settings
Access reports
Access analyzer
Archive rules
Analyzers
Settings
Credential report
Organization activity
IAM > Users
Users (1) Info
An IAM user is an identity with long-term credentials that is used to interact with AWS in an account.
Delete
Add users
Find users by username or access key
1
User name
Groups
Last activity
MFA
Password a...
Active
trholSN40039533iamnew
None
17 minutes ago
None
24 minutes ago
-

Assignment 2:

- Create IAM group “trhol<EMP AD ID name>grp” using IAM.
- Add users to this groups and assign permissions



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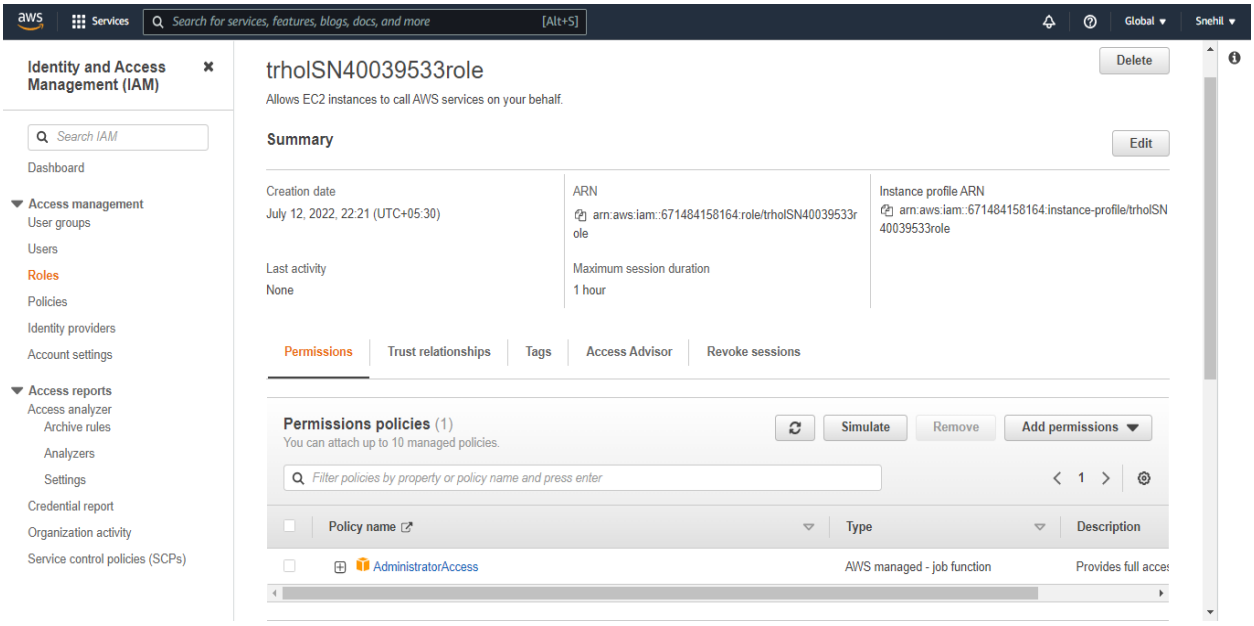
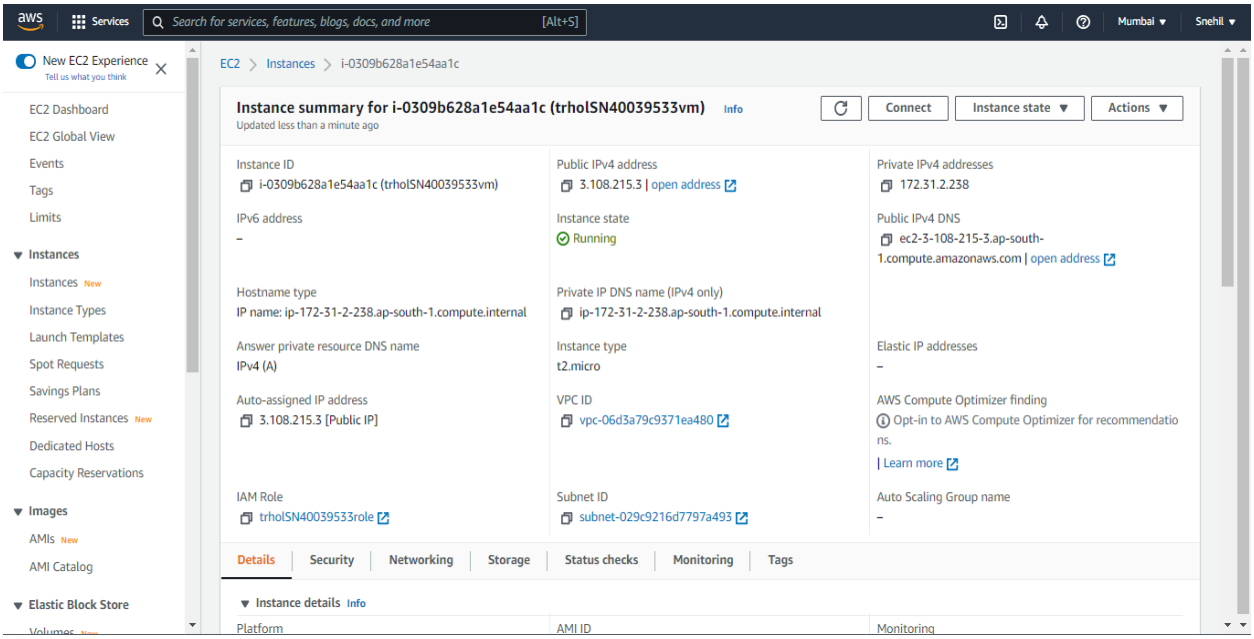
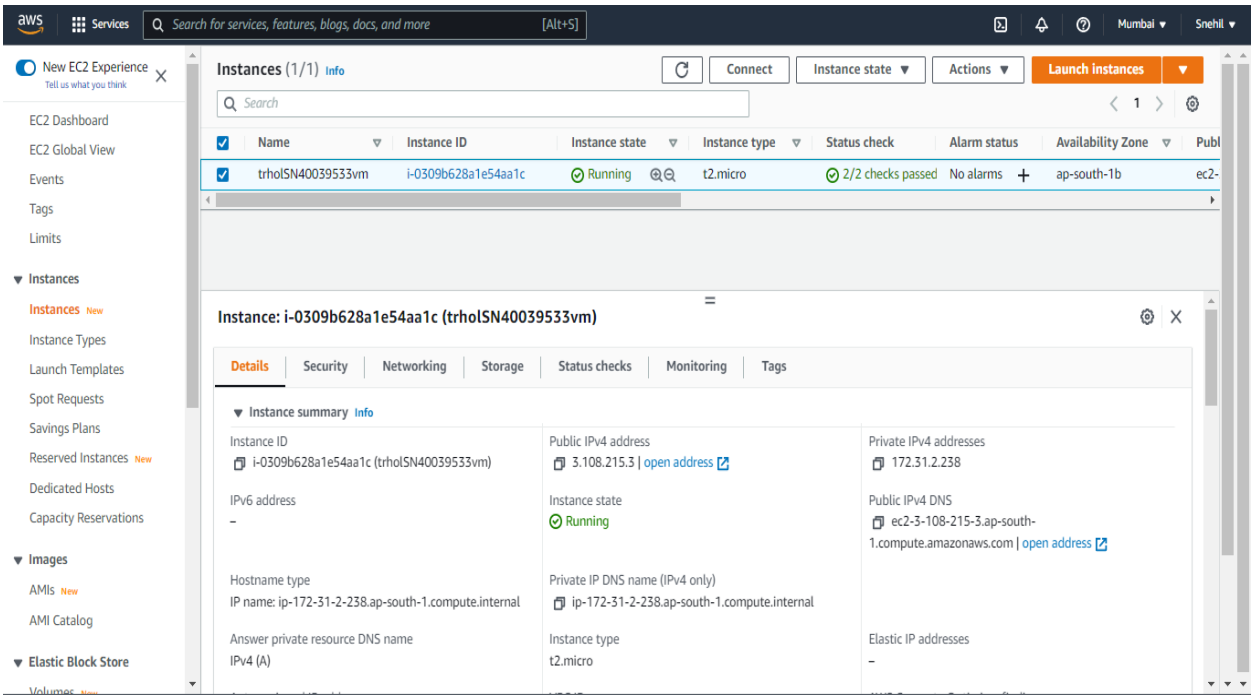
Analyzers
Settings
Credential report
Organization activity
Service control policies (SCPs)
IAM > User groups > trholSN40039533grp
trholSN40039533grp
Delete
Summary
Edit
User group name
trholSN40039533grp
Creation time
July 12, 2022, 22:07 (UTC+05:30)
ARN
arn:aws:iam::671484158164:group/trholSN40039533grp
Users
Permissions
Access Advisor
Permissions policies (2) Info
You can attach up to 10 managed policies.
Simulate
Remove
Add permissions
Filter policies by property or policy name and press enter
1
Policy name
Type
Description
SupportUser
AWS managed - job function
This policy grants permissions to troubleshoot and resolve issues in ...
IAMUserChangePassword
AWS managed
Provides the ability for an IAM user to change their own password.

Assignment 3:

- Create IAM role “trhol<EMP AD ID name>role”
- Using this Newly create IAM role to login to EC2 VM CLI without using Key pairs.



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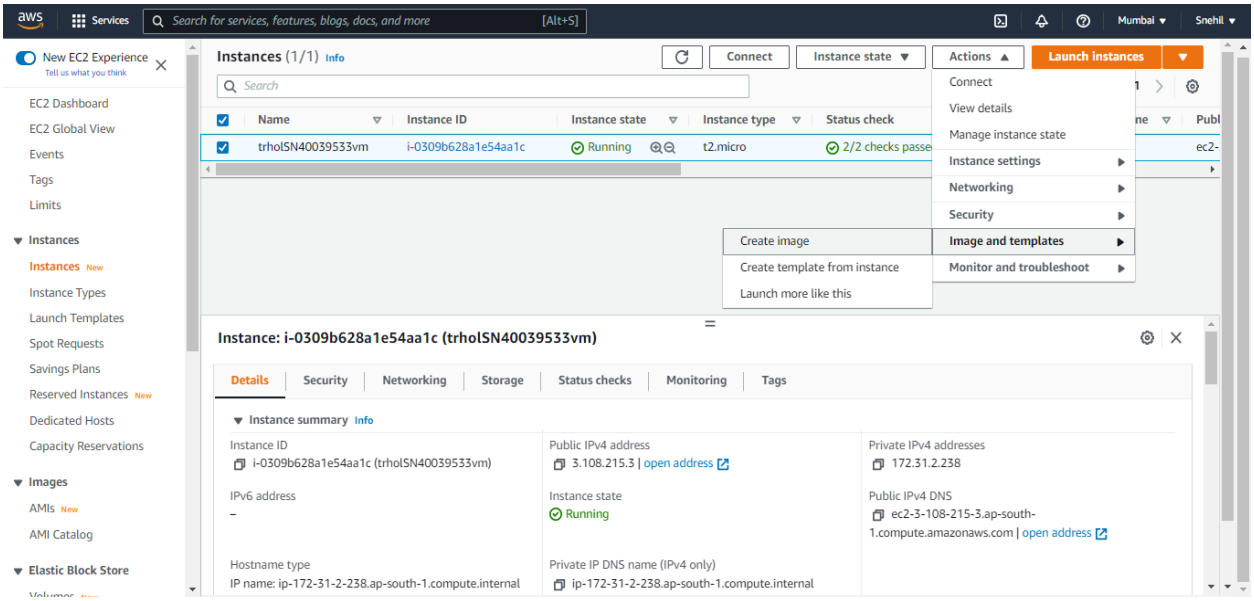
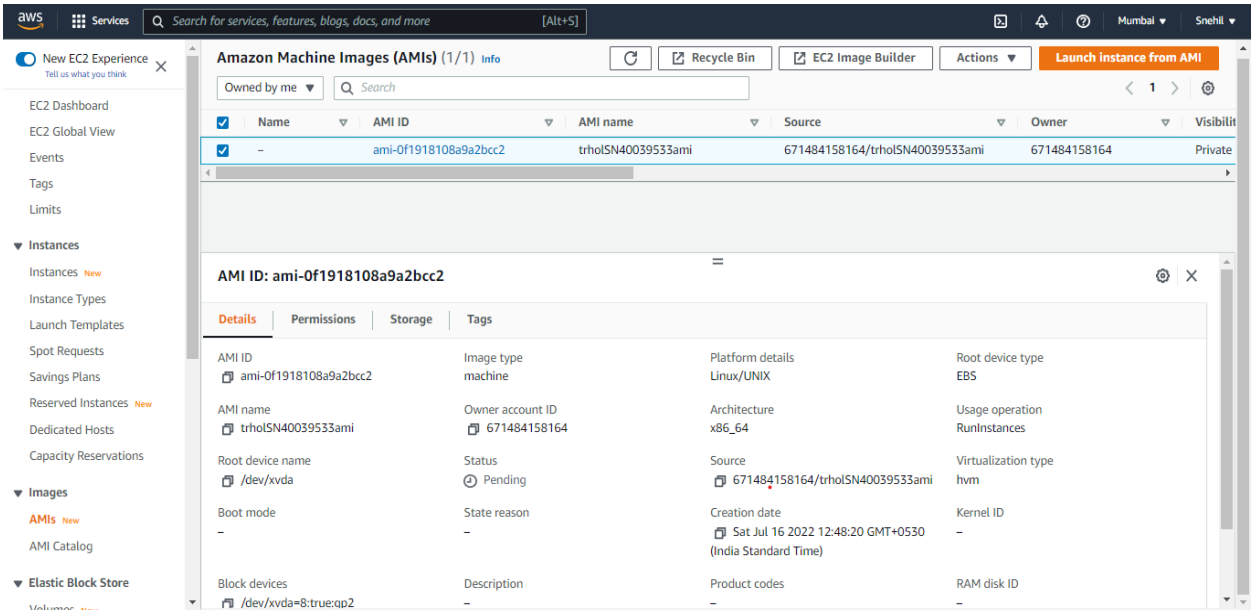
Instances (1/1) Info
Connect
Instance state
Actions
Launch instances
Search
Name
Instance ID
Instance state
Instance type
Status check
Alarm status
Availability Zone
trholSN40039533vm
i-0309b628a1e54aa1c
Running
t2.micro
2/2 checks passed
No alarms
ap-south-1b
Instance: i-0309b628a1e54aa1c (trholSN40039533vm)
Details
Security
Networking
Storage
Status checks
Monitoring
Tags
Instance summary Info
Instance ID
i-0309b628a1e54aa1c (trholSN40039533vm)
Public IPv4 address
3.108.215.3 | open address
Private IPv4 addresses
172.31.2.238
IPv6 address
–
Instance state
Running
Public IPv4 DNS
ec2-3-108-215-3.ap-south-1.compute.amazonaws.com | open address
Hostname type
IP name: ip-172-31-2-238.ap-south-1.compute.internal
Private IP DNS name (IPv4 only)
ip-172-31-2-238.ap-south-1.compute.internal
Answer private resource DNS name
IPv4 (A)
Instance type
t2.micro
Elastic IP addresses
–

Topic 2: Compute

Assignment 1:

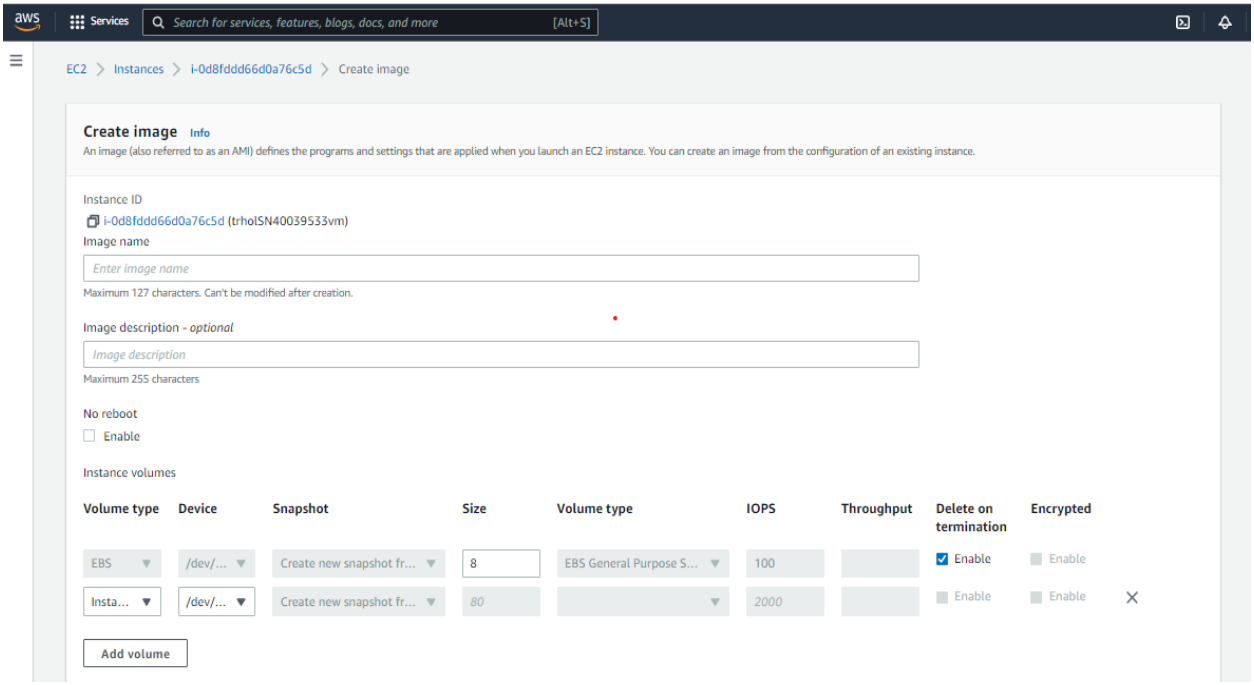
• Create EBS-Backed Linux AMI from the instance directly or from the EBS snapshot

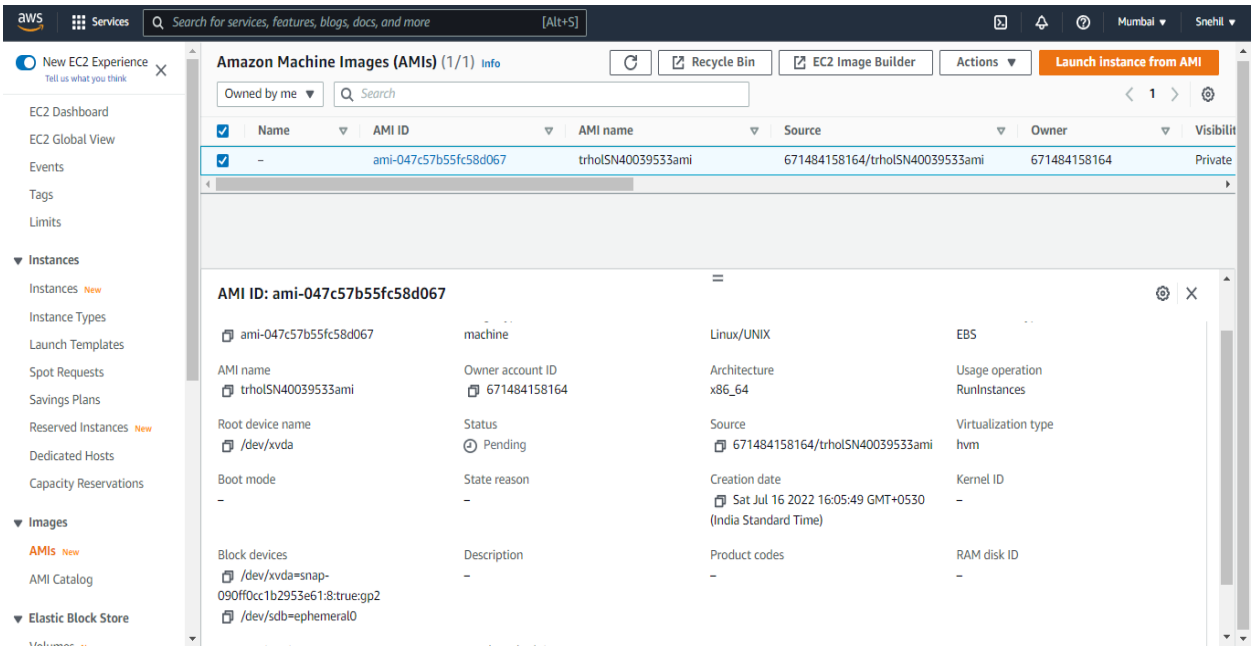




Assignment 2:

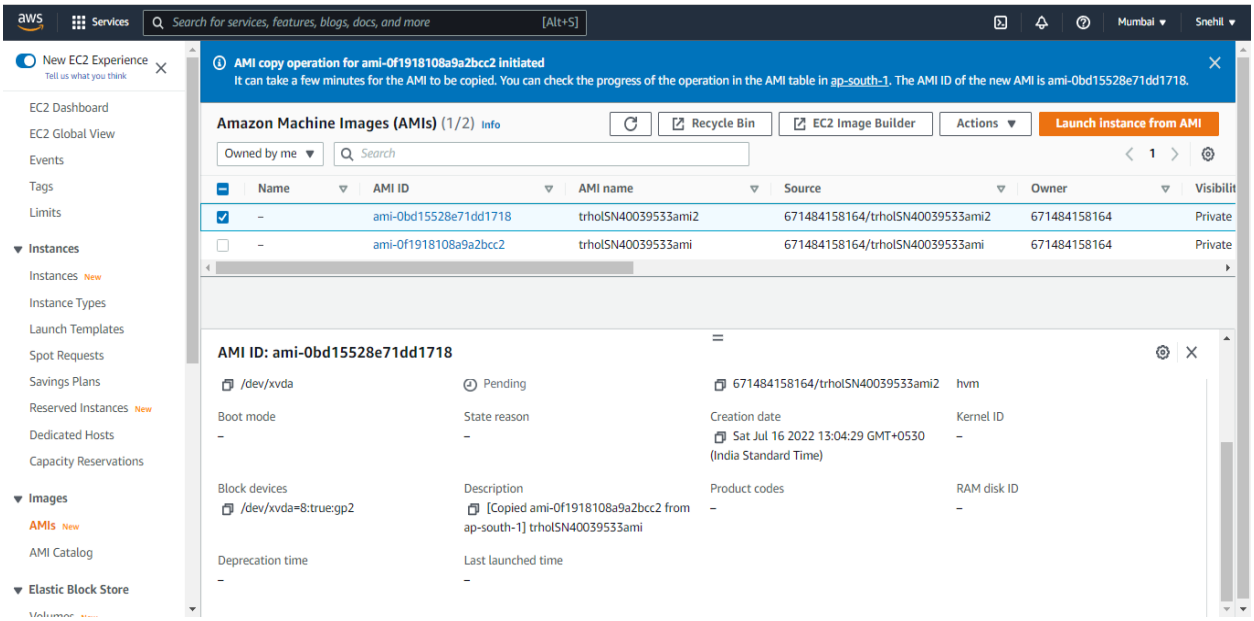
- Create Instance Store-Backed Linux AMI





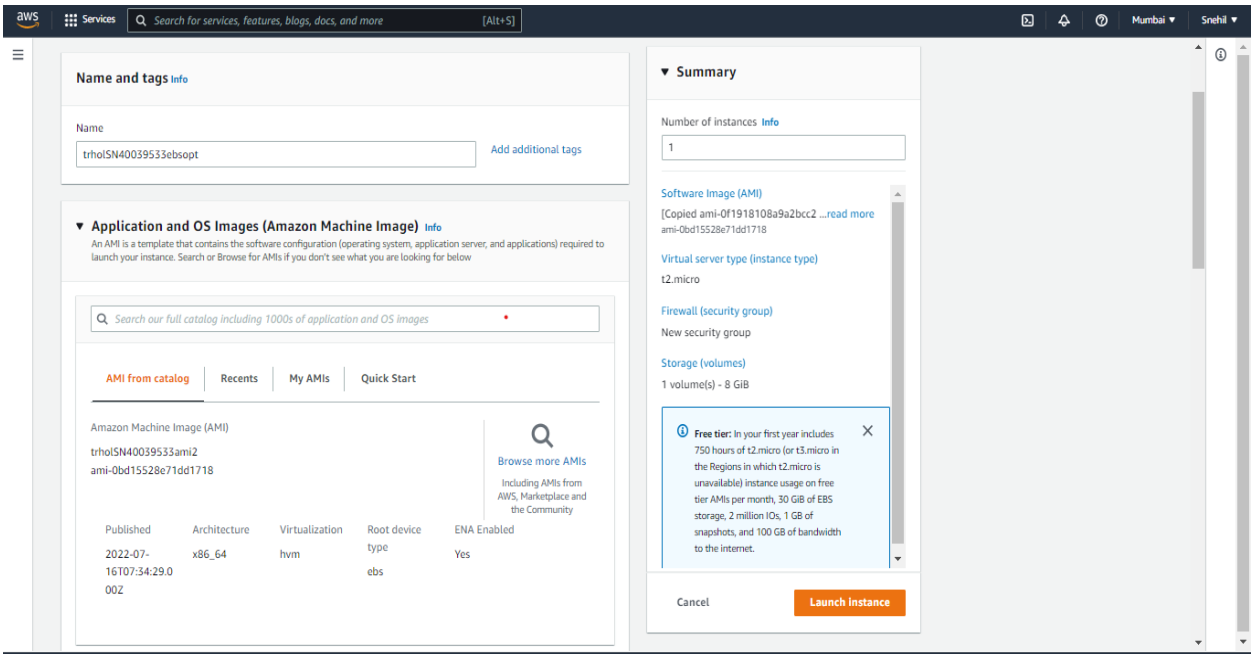
Assignment 3:

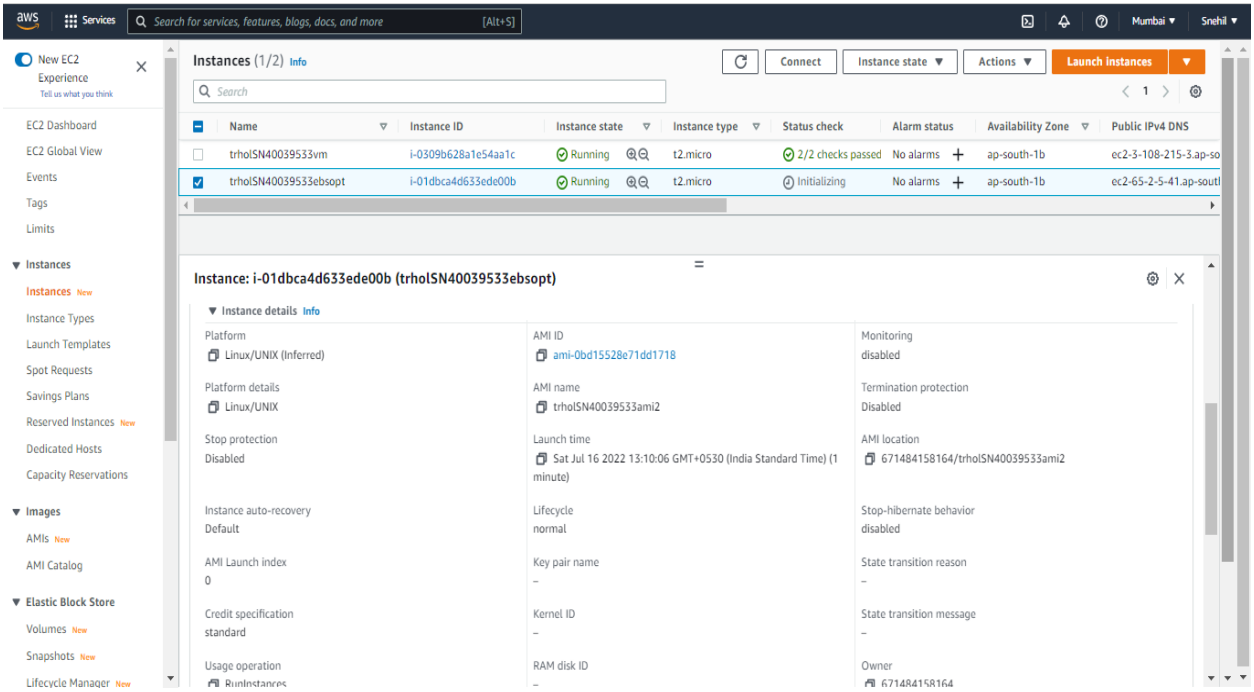
• Copy Amazon EBS-backed AMIs or instance store-backed AMIs and spin instance using copied AMI.



Assignment 4:

- Spin up EBS Optimized instance VM with tag “trhol<EMP AD ID name>ebsopt”



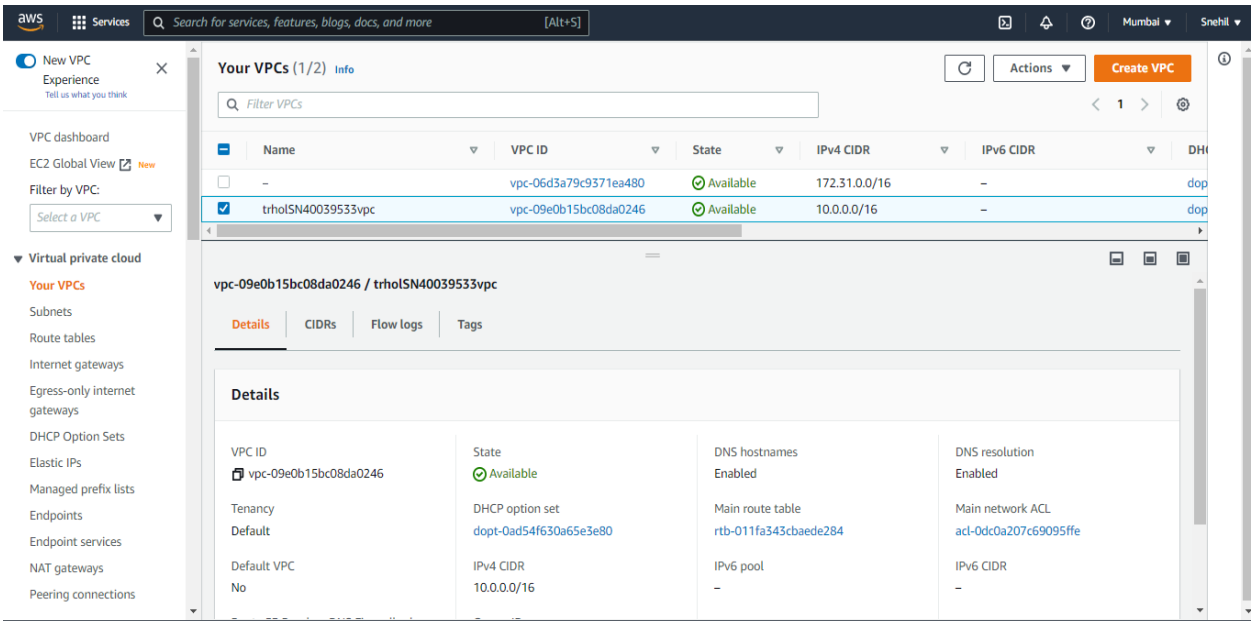


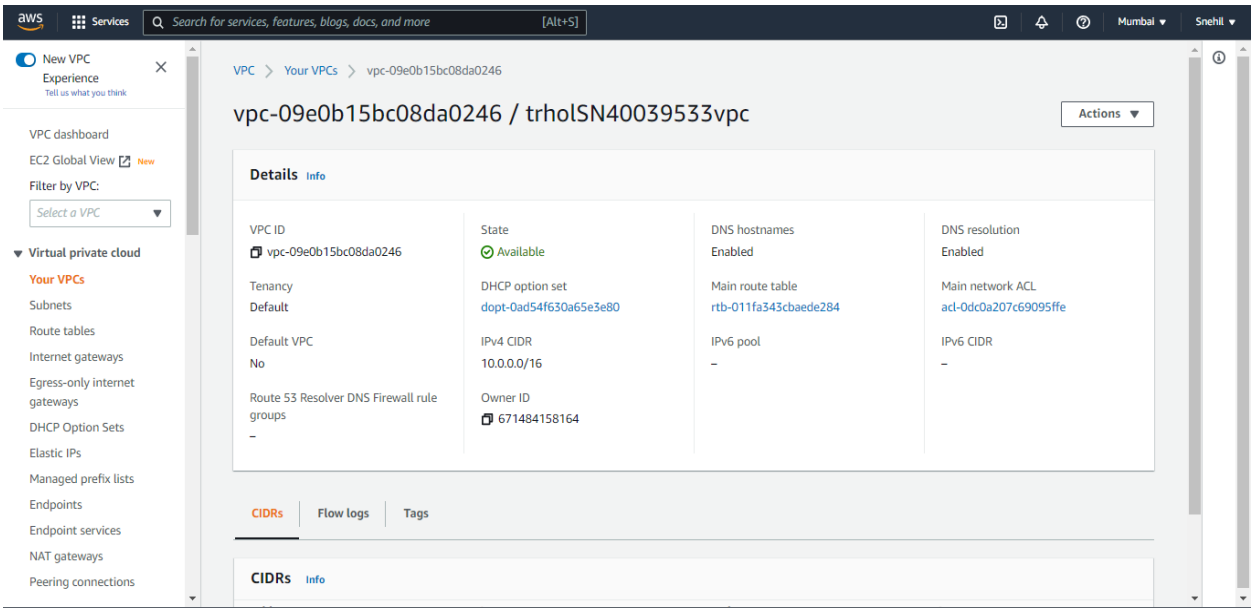
Topic 3: Networking

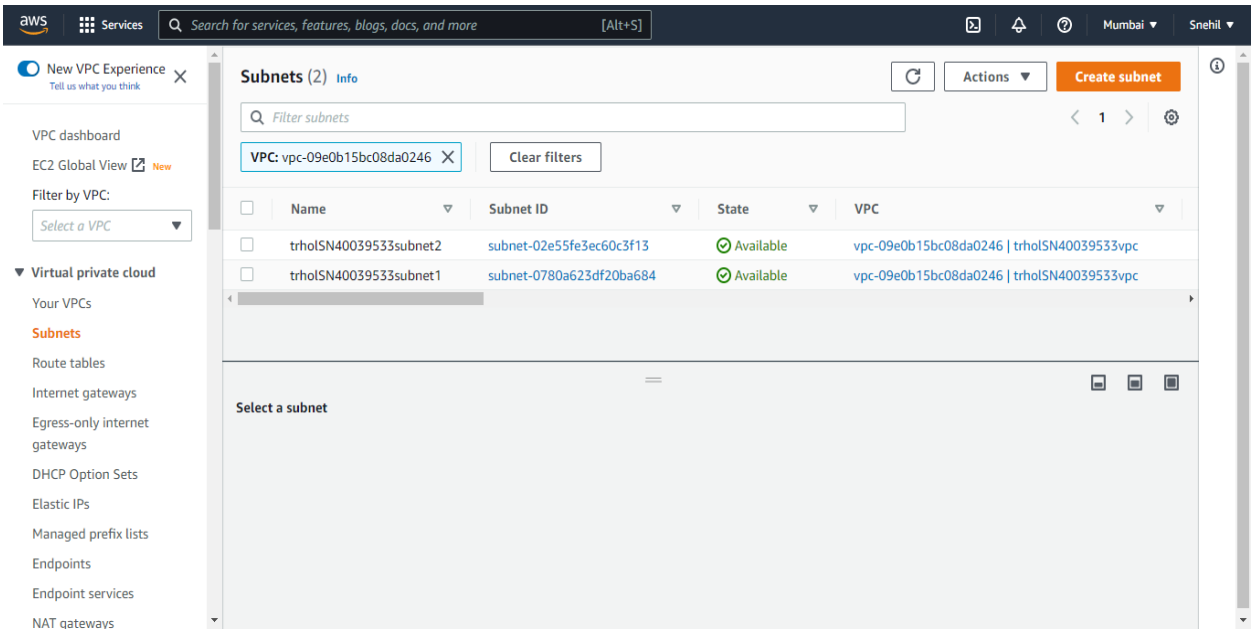
Assignment 1:

- Create VPC with tag “trhol<EMP AD ID name>vpc”

- Create two subnets (one public and private) within this VPC “trhol<EMP AD ID name>vpc” (Subnet Tag “trhol(<Emp AD ID>subnet1 and2) with appropriate security group, Internet gateway and NACL.



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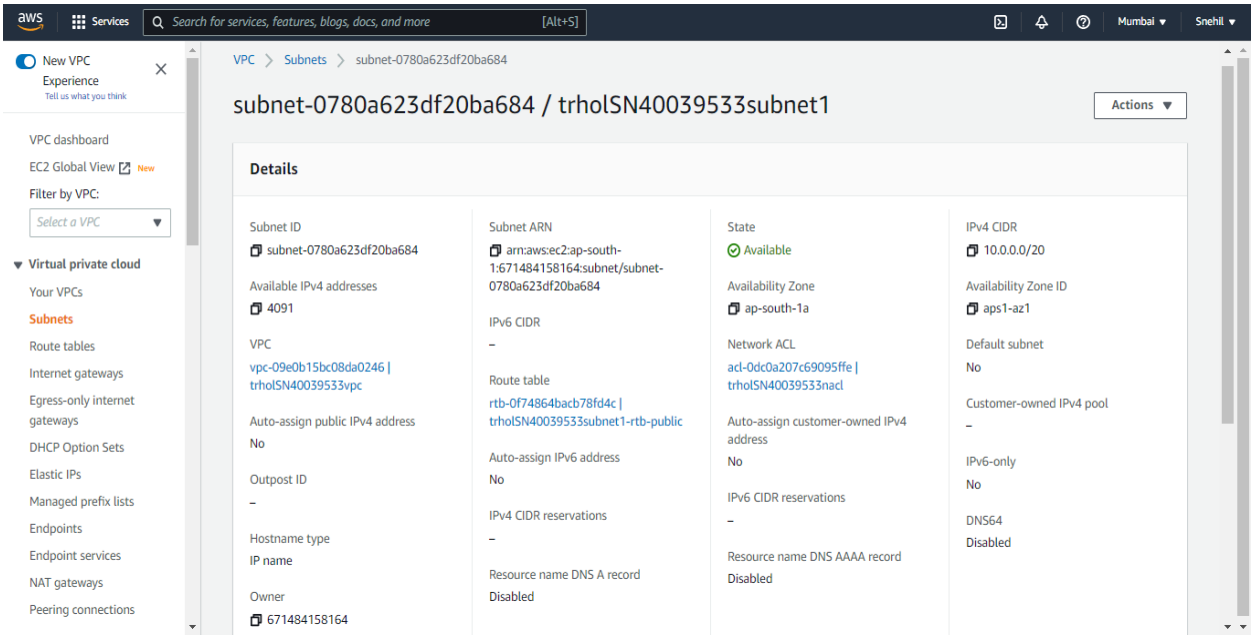
Subnets (2) Info
Actions
Create subnet
Filter subnets
1
VPC: vpc-09e0b15bc08da0246
Clear filters
Name
Subnet ID
State
VPC
trholSN40039533subnet2
subnet-02e55fe3ec60c3f13
Available
vpc-09e0b15bc08da0246 | trholSN40039533vpc
trholSN40039533subnet1
subnet-0780a623df20ba684
Available
vpc-09e0b15bc08da0246 | trholSN40039533vpc
Select a subnet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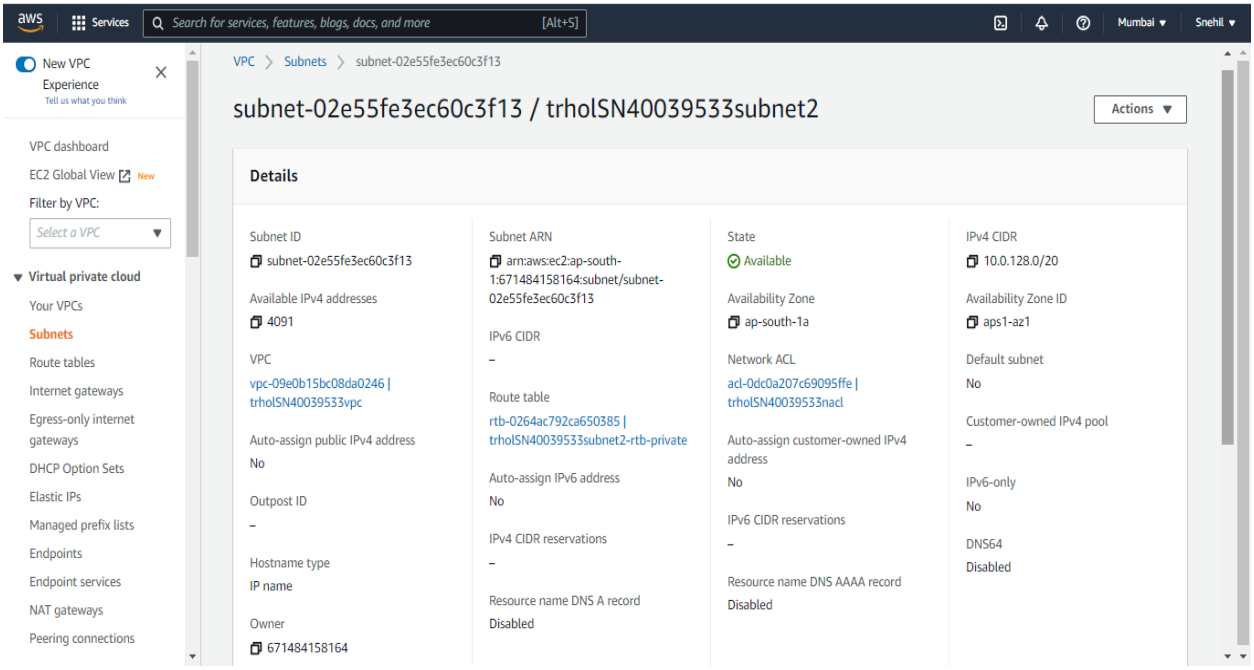
Peering connections
VPC > Subnets > subnet-0780a623df20ba684
subnet-0780a623df20ba684 / trholSN40039533subnet1
Actions
Details
Subnet ID
subnet-0780a623df20ba684
Subnet ARN
arn:aws:ec2:ap-south-1:671484158164:subnet/subnet-0780a623df20ba684
State
Available
IPv4 CIDR
10.0.0.0/20
Available IPv4 addresses
4091
IPv6 CIDR
–
Availability Zone
ap-south-1a
Availability Zone ID
aps1-az1
VPC
vpc-09e0b15bc08da0246 | trholSN40039533vpc
Route table
rtb-0f74864bacb78fd4c | trholSN40039533subnet1-rtb-public
Network ACL
acl-0dc0a207c69095ffe | trholSN40039533nacl
Default subnet
No
Auto-assign public IPv4 address
No
Auto-assign IPv6 address
No
Auto-assign customer-owned IPv4 address
No
Customer-owned IPv4 pool
–
Outpost ID
–
IPv4 CIDR reservations
–
IPv6 CIDR reservations
–
IPv6-only
No
Hostname type
IP name
Resource name DNS A record
Disabled
Resource name DNS AAAA record
Disabled
DNS64
Disabled
Owner
671484158164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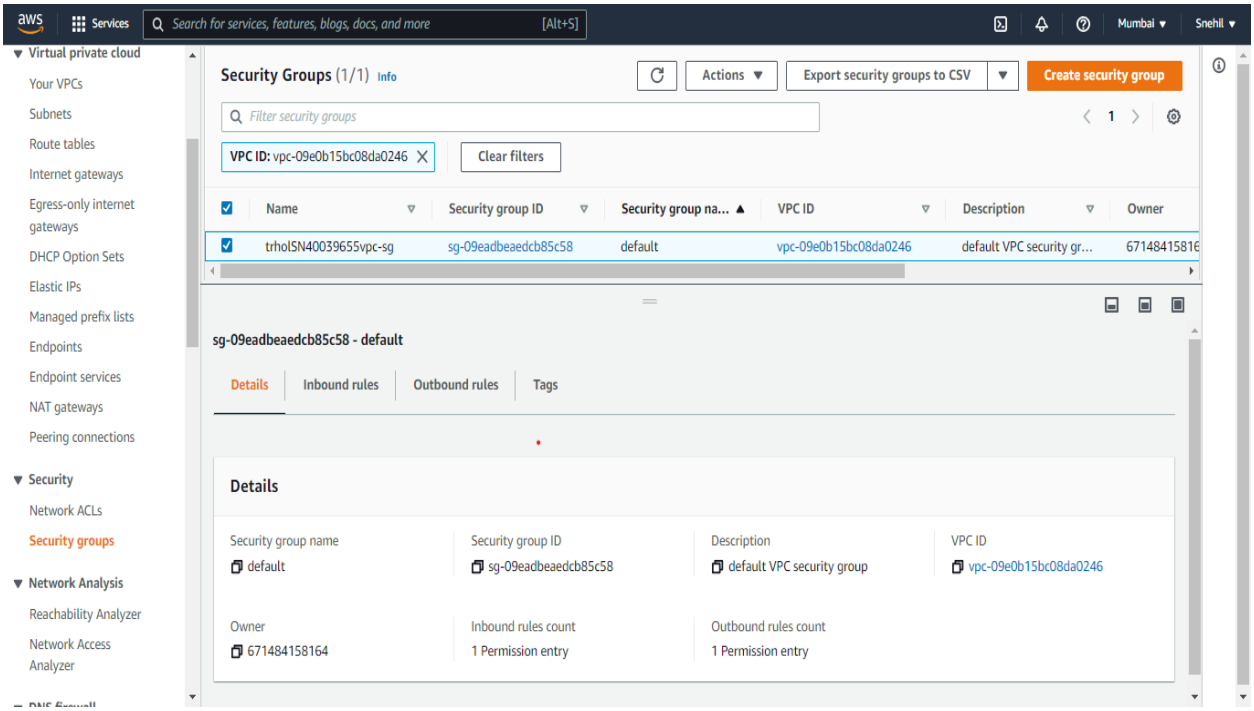
Peering connections
VPC > Subnets > subnet-02e55fe3ec60c3f13
subnet-02e55fe3ec60c3f13 / trholSN40039533subnet2
Actions
Details
Subnet ID
subnet-02e55fe3ec60c3f13
Available IPv4 addresses
4091
VPC
vpc-09e0b15bc08da0246 | trholSN40039533vpc
Auto-assign public IPv4 address
No
Outpost ID
–
Hostname type
IP name
Owner
671484158164
Subnet ARN
arn:aws:ec2:ap-south-1:671484158164:subnet/subnet-02e55fe3ec60c3f13
IPv6 CIDR
–
Route table
rtb-0264ac792ca650385 | trholSN40039533subnet2-rtb-private
Auto-assign IPv6 address
No
IPv4 CIDR reservations
–
Resource name DNS A record
Disabled
State
Available
Availability Zone
ap-south-1a
Network ACL
acl-0dc0a207c69095ffe | trholSN40039533nacl
Auto-assign customer-owned IPv4 address
No
IPv6 CIDR reservations
–
Resource name DNS AAAA record
Disabled
IPv4 CIDR
10.0.128.0/20
Availability Zone ID
aps1-az1
Default subnet
No
Customer-owned IPv4 pool
–
IPv6-only
No
DNS64
Disabled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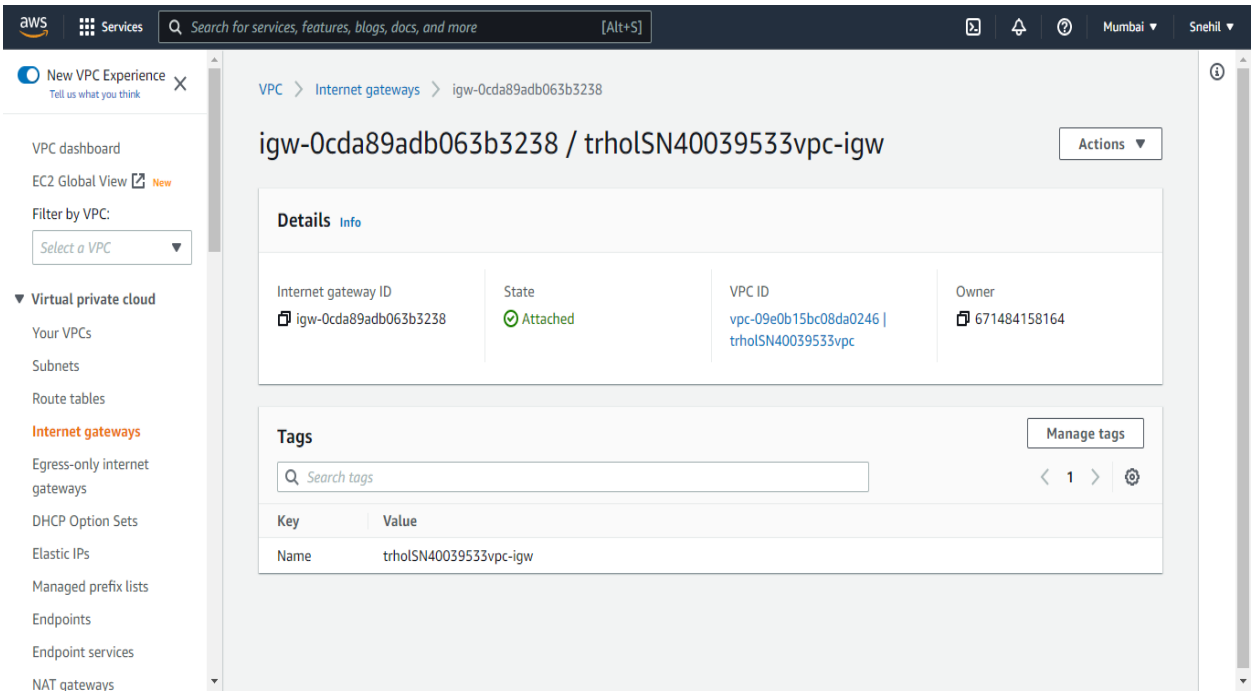
Security groups
Network Analysis
Reachability Analyzer
Network Access Analyzer
Security Groups (1/1) Info
Actions
Export security groups to CSV
Create security group
Filter security groups
1
VPC ID: vpc-09e0b15bc08da0246
Clear filters
Name
Security group ID
Security group na...
VPC ID
Description
Owner
trholSN40039655vpc-sg
sg-09eadbeaedcb85c58
default
vpc-09e0b15bc08da0246
default VPC security gr...
sg-09eadbeaedcb85c58 - default
Details
Inbound rules
Outbound rules
Tags
Details
Security group name
default
Security group ID
sg-09eadbeaedcb85c58
Description
default VPC security group
VPC ID
vpc-09e0b15bc08da0246
Owner
671484158164
Inbound rules count
1 Permission entry
Outbound rules count
1 Permission entry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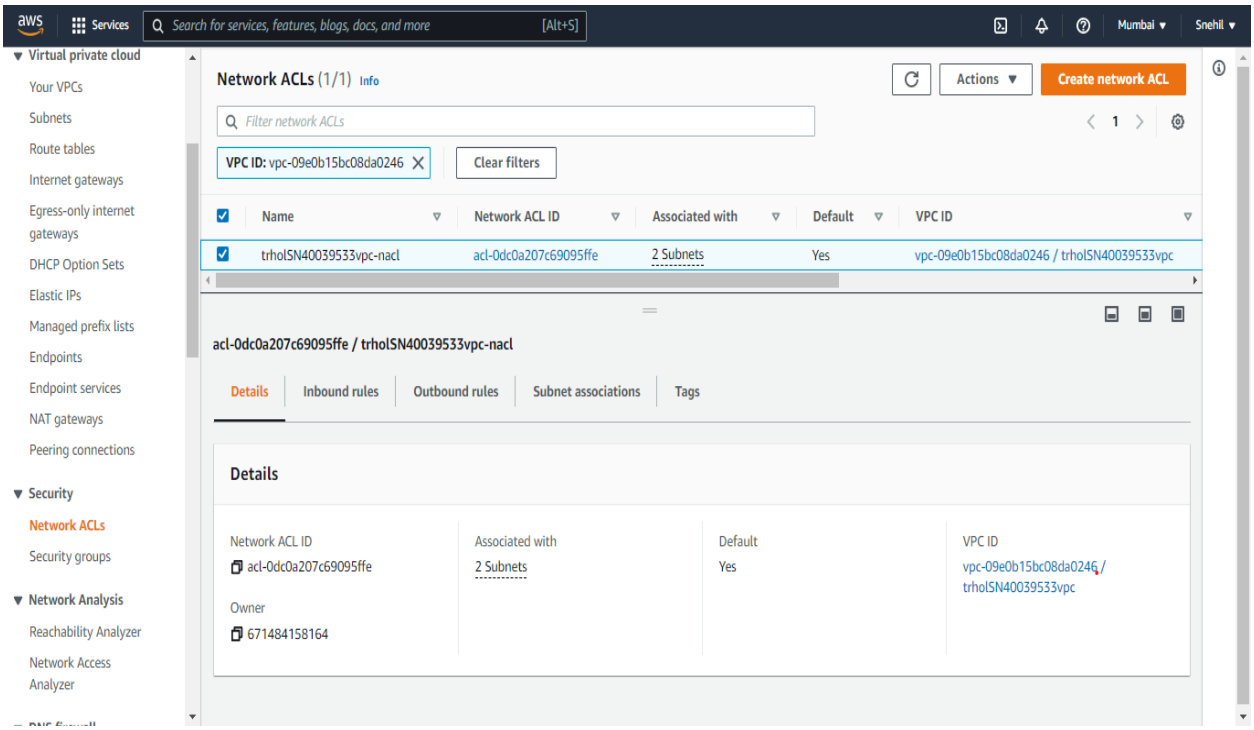
VPC > Internet gateways > igw-0cda89adb063b3238
igw-0cda89adb063b3238 / trholSN40039533vpc-igw
Actions
Details Info
Internet gateway ID
igw-0cda89adb063b3238
State
Attached
VPC ID
vpc-09e0b15bc08da0246 | trholSN40039533vpc
Owner
671484158164
Tags
Manage tags
Search tags
1
Key
Value
Name
trholSN40039533vpc-igw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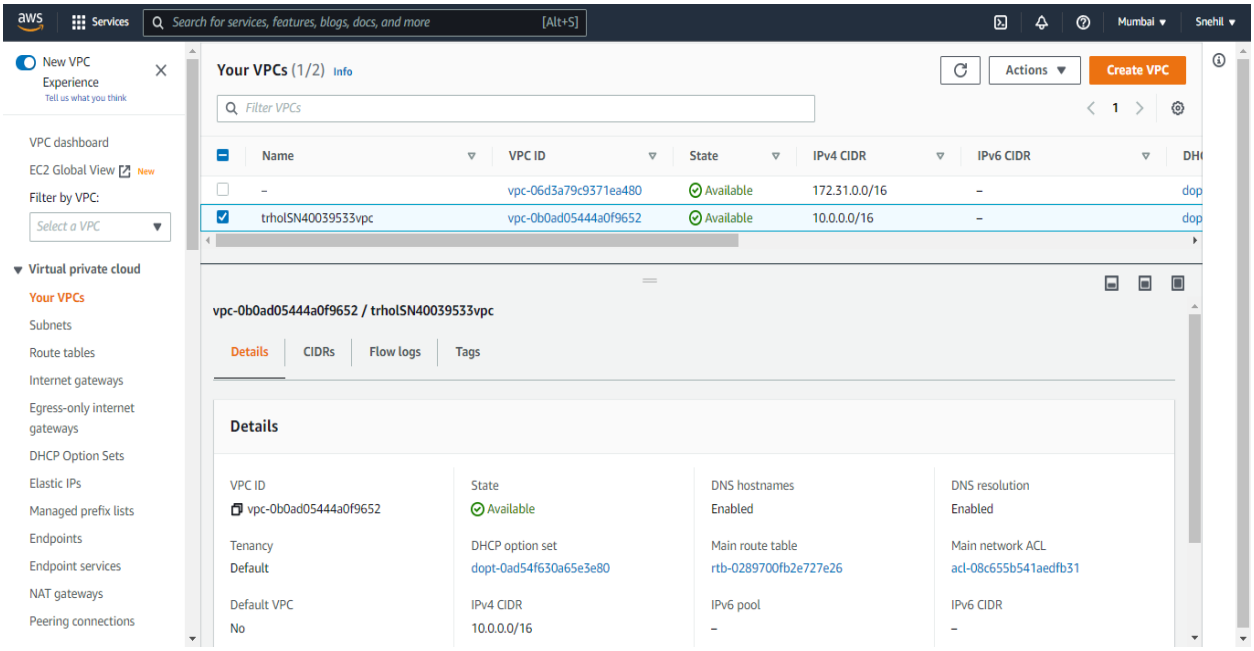
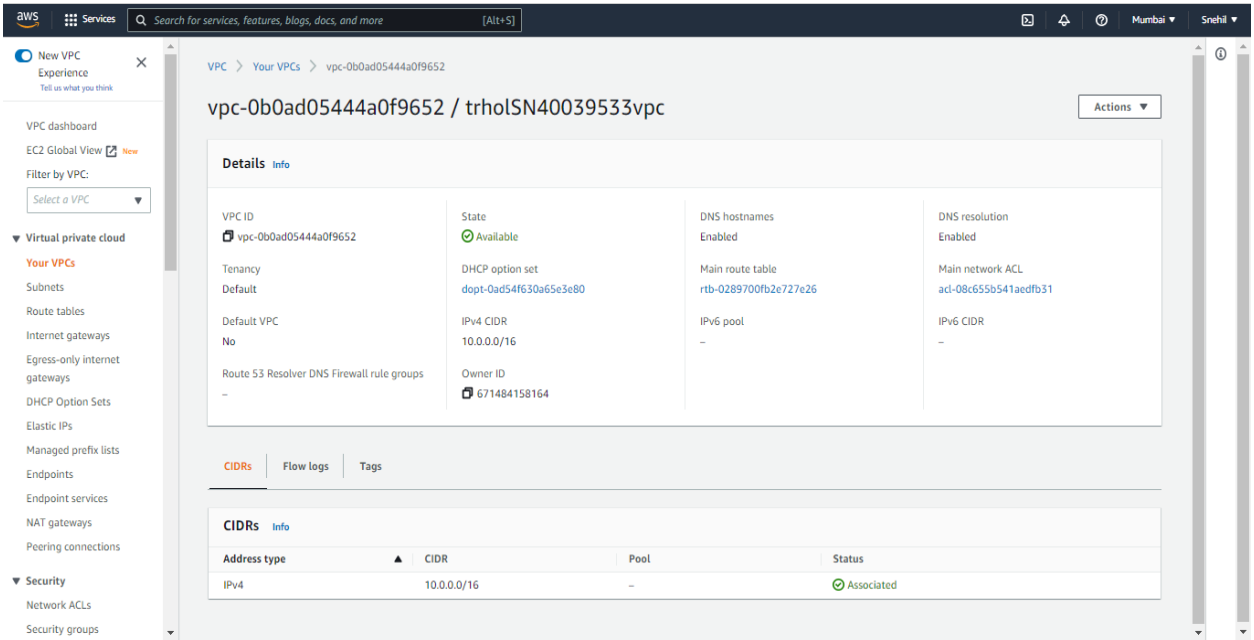
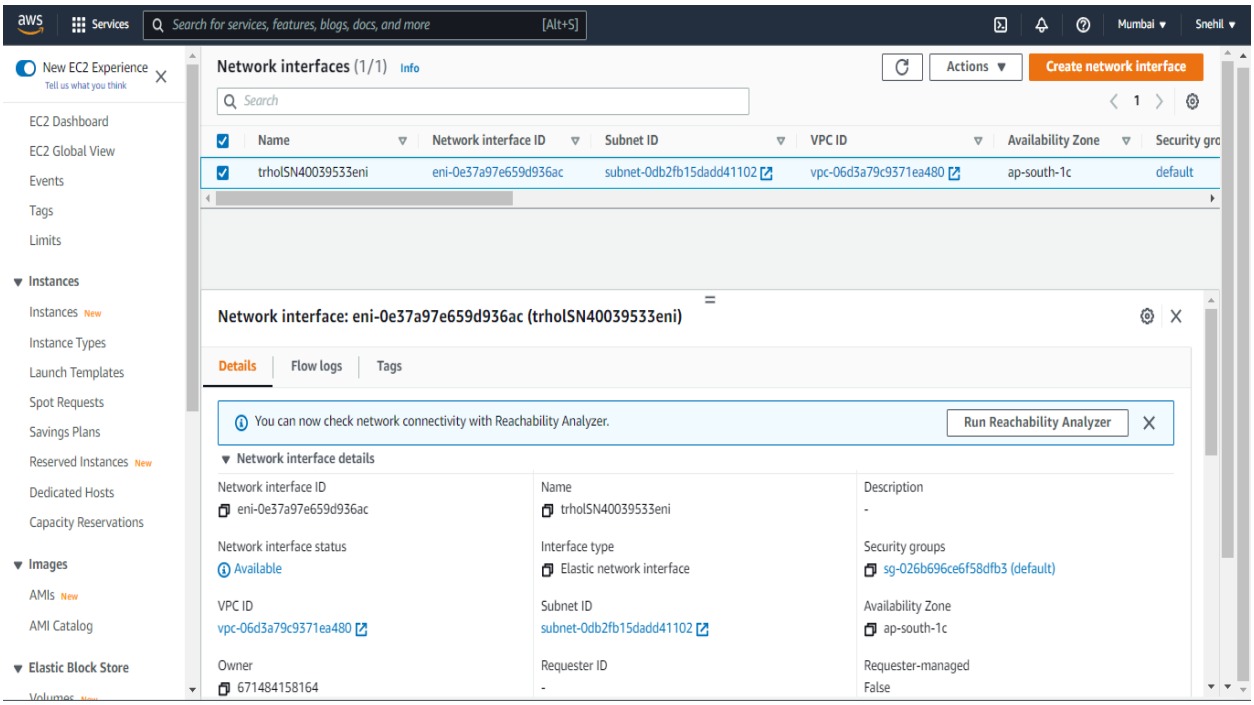
Security
Network ACLs
Security groups
Network Analysis
Reachability Analyzer
Network Access Analyzer
Network ACLs (1/1) Info
Actions
Create network ACL
Filter network ACLs
1
VPC ID: vpc-09e0b15bc08da0246
Clear filters
Name
Network ACL ID
Associated with
Default
VPC ID
trholSN40039533vpc-nacl
acl-0dc0a207c69095ffe
2 Subnets
Yes
vpc-09e0b15bc08da0246 / trholSN40039533vpc
acl-0dc0a207c69095ffe / trholSN40039533vpc-nacl
Details
Inbound rules
Outbound rules
Subnet associations
Tags
Details
Network ACL ID
acl-0dc0a207c69095ffe
Associated with
2 Subnets
Default
Yes
VPC ID
vpc-09e0b15bc08da0246 / trholSN40039533vpc
Owner
671484158164

Assignment 2:

- Create VPC with tag “trhol<EMP AD ID name>vpc”
- Create ENI with tag “trhol<EMP AD ID name>eni” and attach it to the instance “trhol<EMP AD ID name>vm”



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Instances
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Instance Types
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Spot Requests
Savings Plans
Reserved Instances New
Dedicated Hosts
Capacity Reservations
Images
AMIs New
AMI Catalog
Elastic Block Store
Network interfaces (1/1) Info
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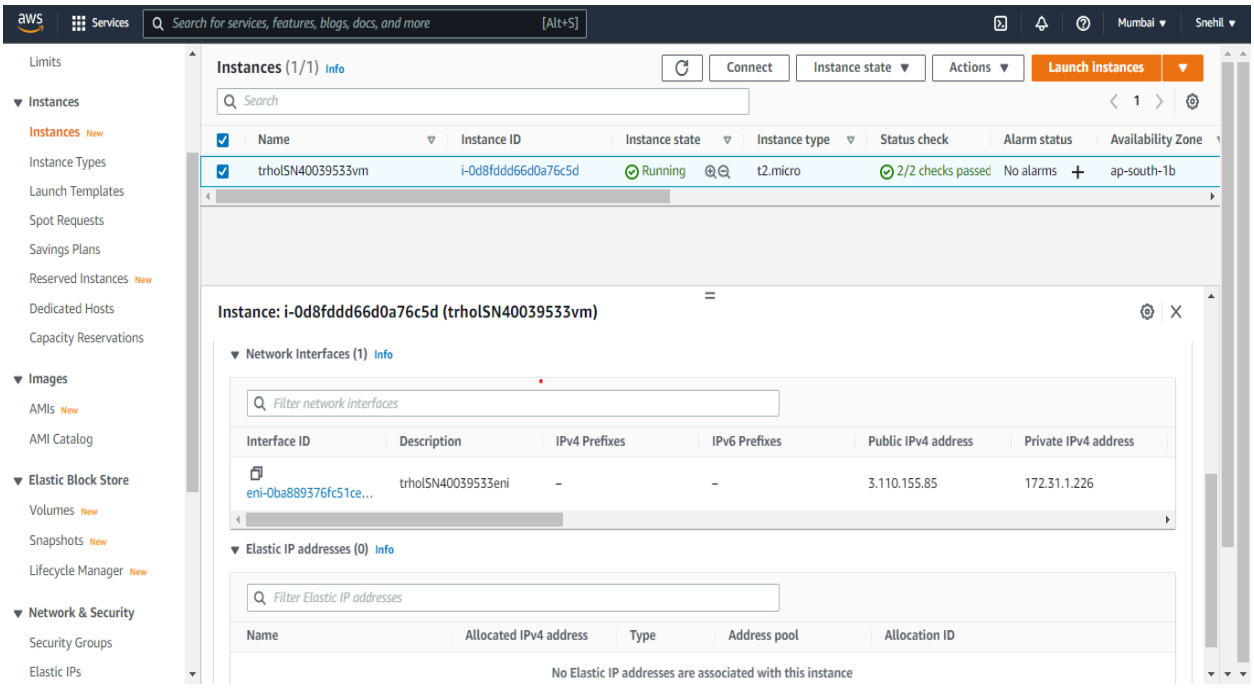
Create network interface
Search
Name
Network interface ID
Subnet ID
VPC ID
Availability Zone
Security gro
trholSN40039533eni
eni-0e37a97e659d936ac
subnet-0db2fb15dadd41102
vpc-06d3a79c9371ea480
ap-south-1c
default
Network interface: eni-0e37a97e659d936ac (trholSN40039533eni)
Details
Flow logs
Tags
You can now check network connectivity with Reachability Analyzer.
Run Reachability Analyzer
Network interface details
Network interface ID
eni-0e37a97e659d936ac
Name
trholSN40039533eni
Description
-
Network interface status
Available
Interface type
Elastic network interface
Security groups
sg-026b696ce6f58dfb3 (default)
VPC ID
vpc-06d3a79c9371ea480
Subnet ID
subnet-0db2fb15dadd41102
Availability Zone
ap-south-1c
Owner
671484158164
Requester ID
-
Requester-managed
False


aws
Services
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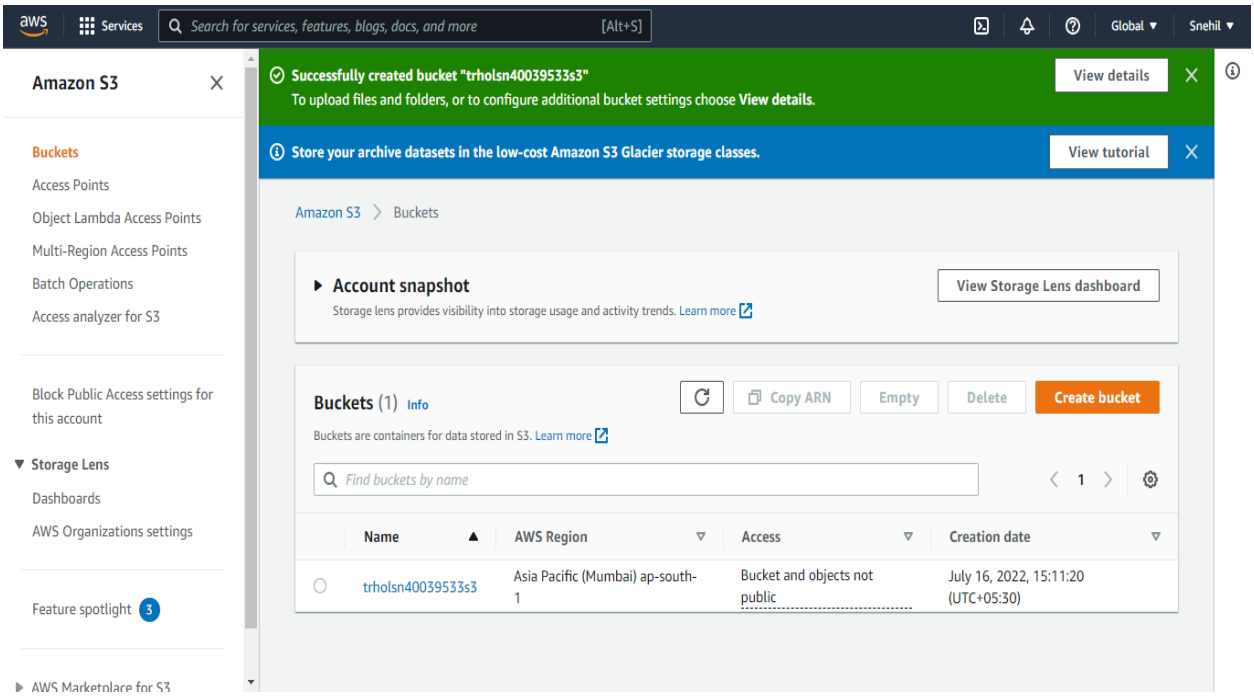
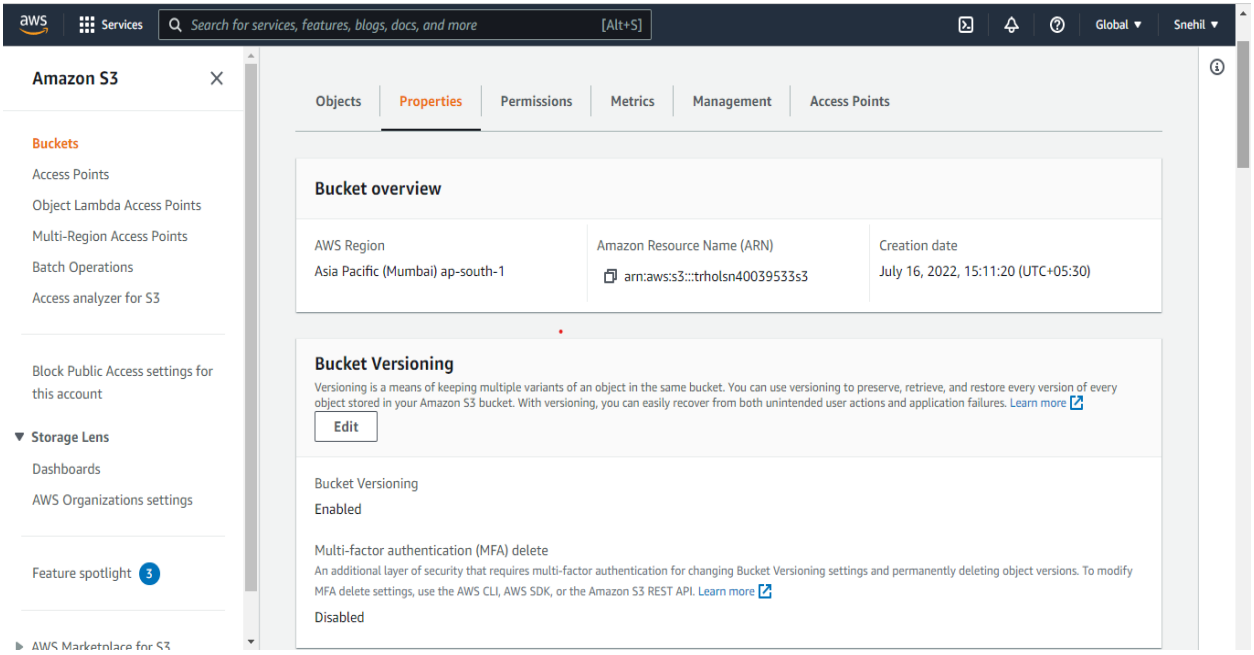
Mumbai
Snehil
Limits
Instances
Instances New
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances New
Dedicated Hosts
Capacity Reservations
Images
AMIs New
AMI Catalog
Elastic Block Store
Volumes New
Snapshots New
Lifecycle Manager New
Network & Security
Security Groups
Elastic IPs
Instances (1/1) Info
Connect
Instance state
Actions
Launch instances
Search
Name
Instance ID
Instance state
Instance type
Status check
Alarm status
Availability Zone
trholSN40039533vm
i-0d8fddd66d0a76c5d
Running
t2.micro
2/2 checks passed
No alarms
ap-south-1b
Instance: i-0d8fddd66d0a76c5d (trholSN40039533vm)
Network Interfaces (1) Info
Filter network interfaces
Interface ID
Description
IPv4 Prefixes
IPv6 Prefixes
Public IPv4 address
Private IPv4 address
eni-0ba889376fc51ce...
trholSN40039533eni
-
-
3.110.155.85
172.31.1.226
Elastic IP addresses (0) Info
Filter Elastic IP addresses
Name
Allocated IPv4 address
Type
Address pool
Allocation ID
No Elastic IP addresses are associated with this instance

Topic 4: Storage

Assignment 1:

- Create S3 Bucket with name “trhol<EMP AD ID name>s3” with versioning
- Create file name “trholawsl1”.
- Upload the object onto S3
- View the Object and its proprieties
- Delete the Object
- Restore the object trholawsl1 from versioned objects.
- Delete the bucket

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Services
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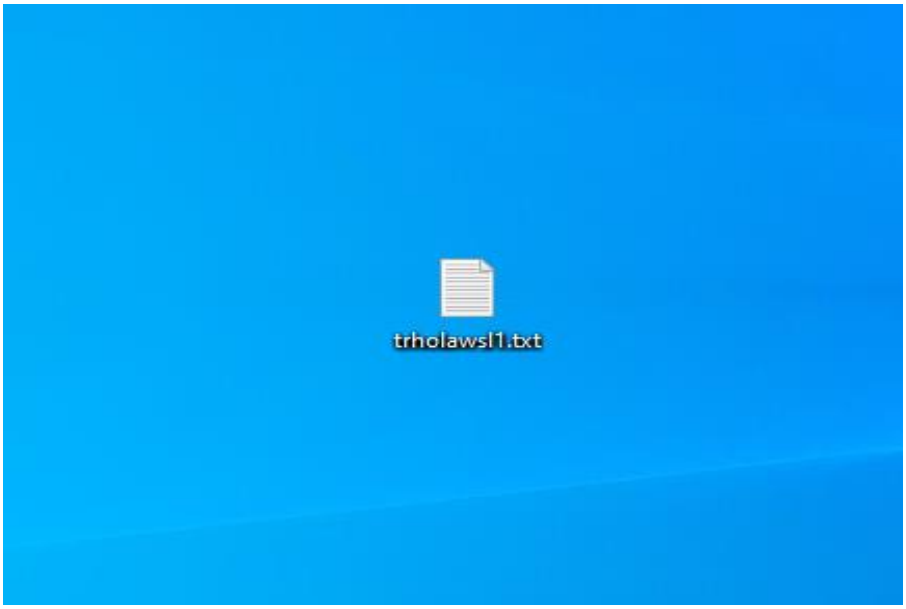
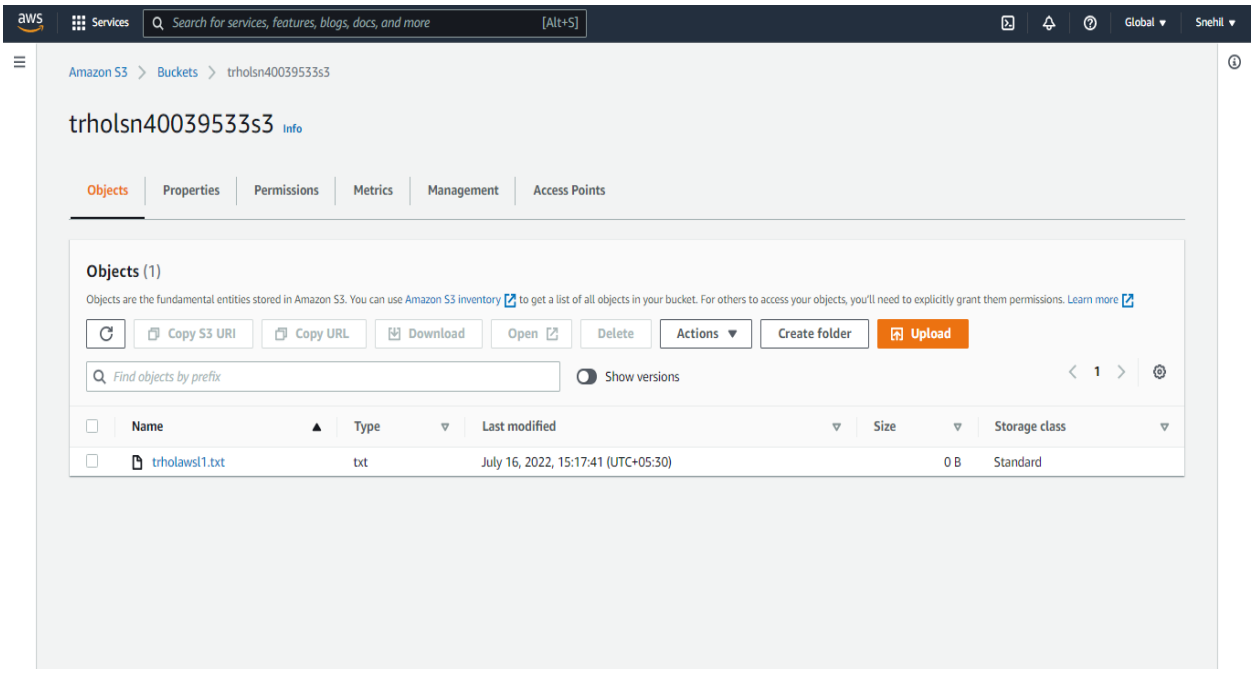
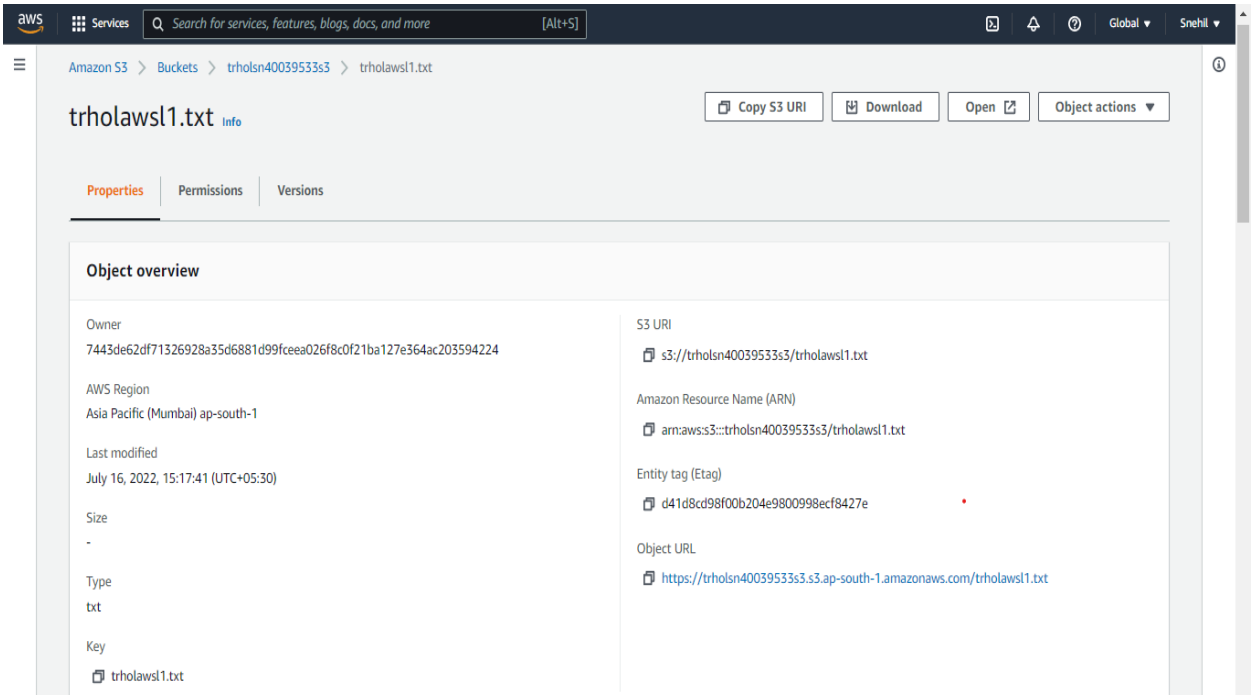
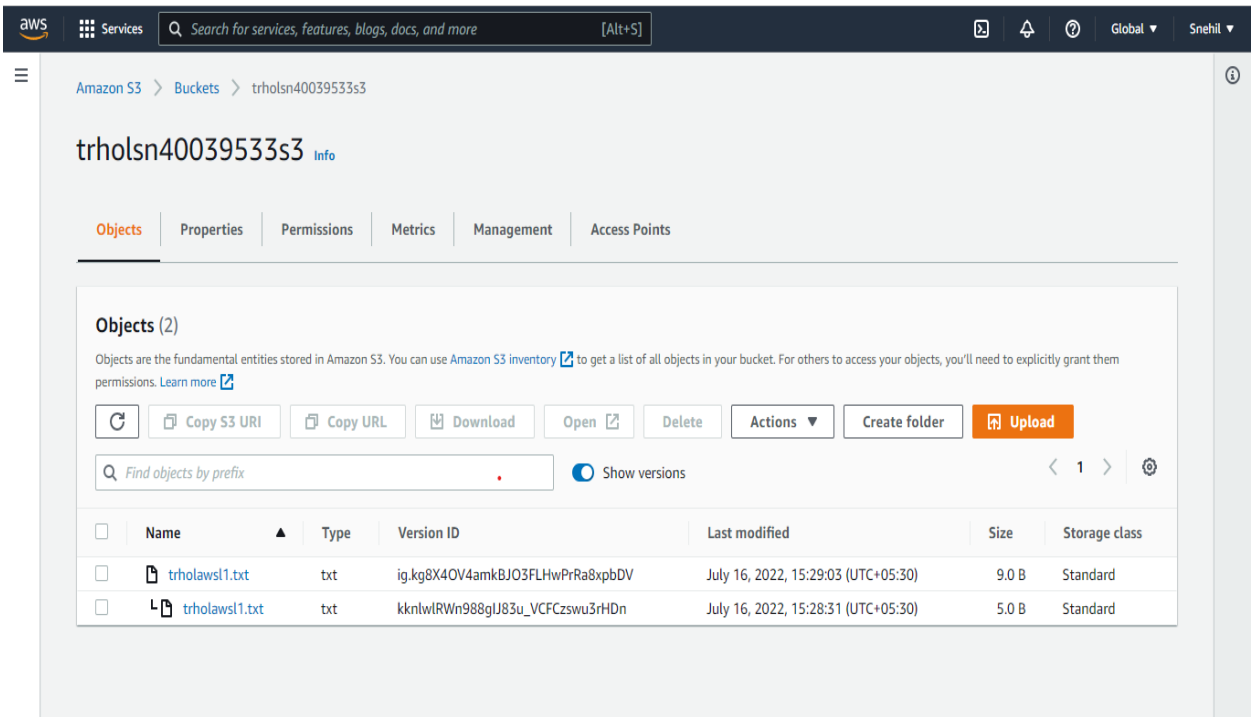
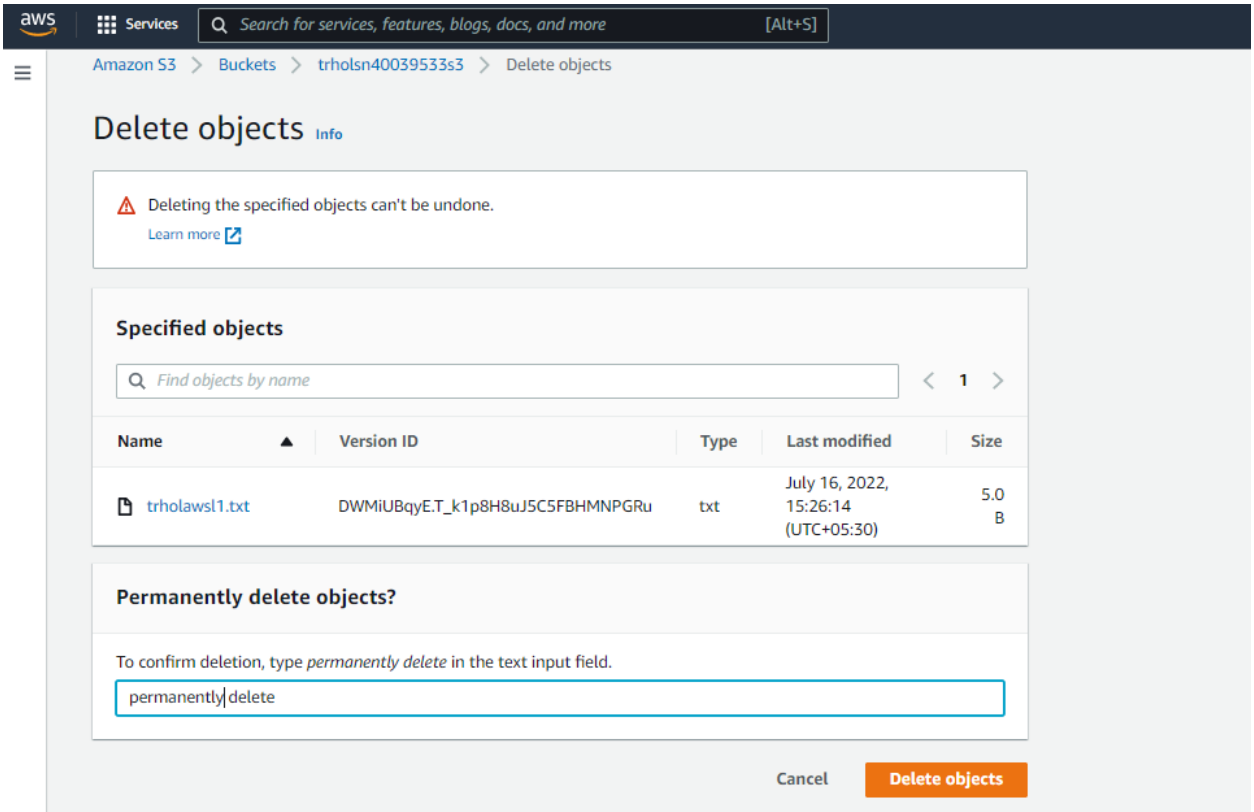
Global
Snehil
Amazon S3
Buckets
Access Points
Object Lambda Access Points
Multi-Region Access Points
Batch Operations
Access analyzer for S3
Block Public Access settings for this account
Storage Lens
Dashboards
AWS Organizations settings
Feature spotlight 3
Objects
Properties
Permissions
Metrics
Management
Access Points
Bucket overview
AWS Region
Asia Pacific (Mumbai) ap-south-1
Amazon Resource Name (ARN)
arn:aws:s3:::trholsn40039533s3
Creation date
July 16, 2022, 15:11:20 (UTC+05:30)
Bucket Versioning
Versioning is a means of keeping multiple variants of an object in the same bucket. You can use versioning to preserve, retrieve, and restore every version of every object stored in your Amazon S3 bucket. With versioning, you can easily recover from both unintended user actions and application failures. Learn more
Edit
Bucket Versioning
Enabled
Multi-factor authentication (MFA) delete
An additional layer of security that requires multi-factor authentication for changing Bucket Versioning settings and permanently deleting object versions. To modify MFA delete settings, use the AWS CLI, AWS SDK, or the Amazon S3 REST API. Learn more
Disabled

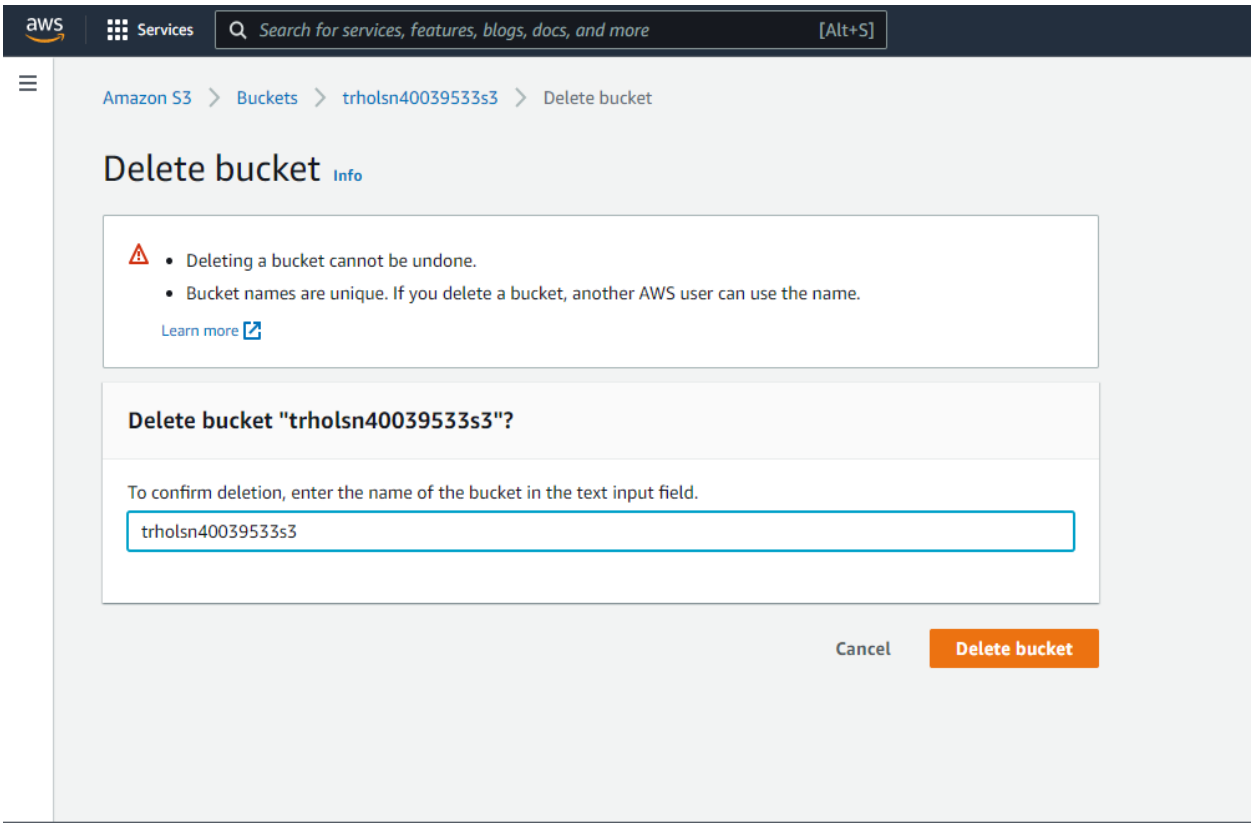

trholawsl1.txt


Services
Search for services, features, blogs, docs, and more [Alt+S]
Global
Snehil
Amazon S3 > Buckets > trholsn40039533s3
trholsn40039533s3 Info
Objects
Properties
Permissions
Metrics
Management
Access Points
Objects (1)
Objects are the fundamental entities stored in Amazon S3. You can use Amazon S3 inventory to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. Learn more
Copy S3 URI
Copy URL
Download
Open
Delete
Actions
Create folder
Upload
Find objects by prefix
Show versions
1
Name
Type
Last modified
Size
Storage class
trholawsl1.txt
txt
July 16, 2022, 15:17:41 (UTC+05:30)
0 B
Standard


Services
Search for services, features, blogs, docs, and more [Alt+S]
Global
Snehil
Amazon S3 > Buckets > trholsn40039533s3 > trholawsl1.txt
trholawsl1.txt Info
Copy S3 URI
Download
Open
Object actions
Properties
Permissions
Versions
Object overview
Owner
7443de62df71326928a35d6881d99fceea026f8c0f21ba127e364ac203594224
AWS Region
Asia Pacific (Mumbai) ap-south-1
Last modified
July 16, 2022, 15:17:41 (UTC+05:30)
Size
-
Type
txt
Key
trholawsl1.txt
S3 URI
s3://trholsn40039533s3/trholawsl1.txt
Amazon Resource Name (ARN)
arn:aws:s3:::trholsn40039533s3/trholawsl1.txt
Entity tag (Etag)
d41d8cd98f00b204e9800998ecf8427e
Object URL
https://trholsn40039533s3.s3.ap-south-1.amazonaws.com/trholawsl1.txt

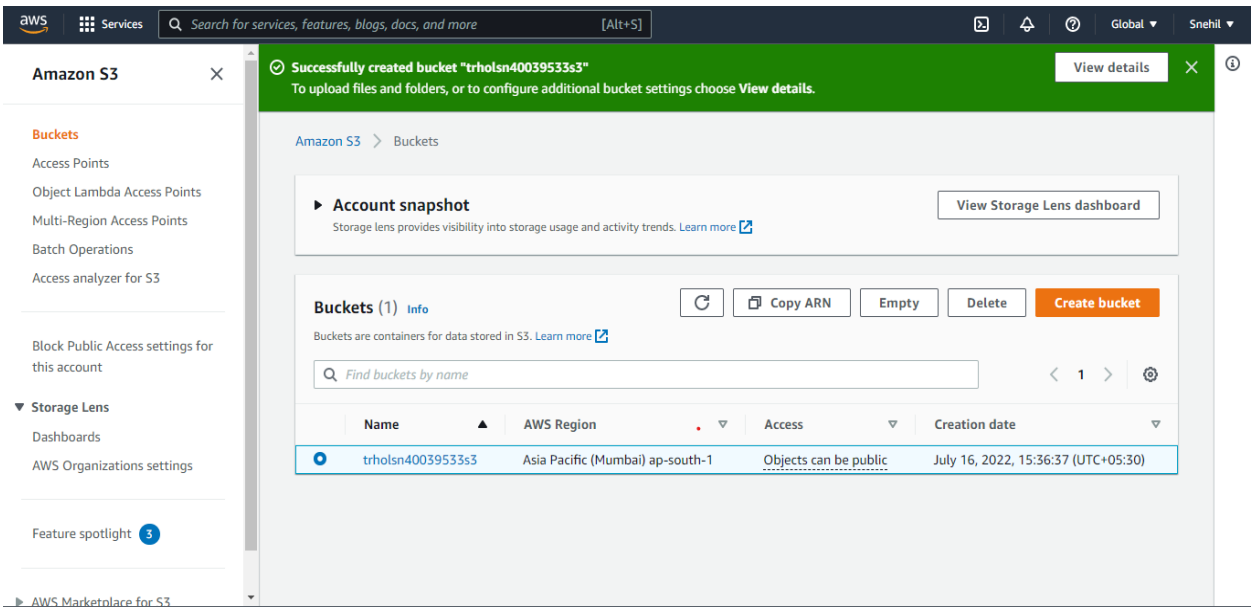

aws
Services
Search for services, features, blogs, docs, and more
[Alt+S]
Global
Snehil
Amazon S3 > Buckets > trholsn40039533s3
trholsn40039533s3 Info
Objects
Properties
Permissions
Metrics
Management
Access Points
Objects (2)
Objects are the fundamental entities stored in Amazon S3. You can use Amazon S3 inventory to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. Learn more
Copy S3 URI
Copy URL
Download
Open
Delete
Actions
Create folder
Upload
Find objects by prefix
Show versions
1
Name
Type
Version ID
Last modified
Size
Storage class
trholawsl1.txt
txt
ig.kg8X4OV4amkBJO3FLHwPrRa8xpbDV
July 16, 2022, 15:29:03 (UTC+05:30)
9.0 B
Standard
trholawsl1.txt
txt
kknlwlRWn988gIJ83u_VCFCzswu3rHDn
July 16, 2022, 15:28:31 (UTC+05:30)
5.0 B
Standard

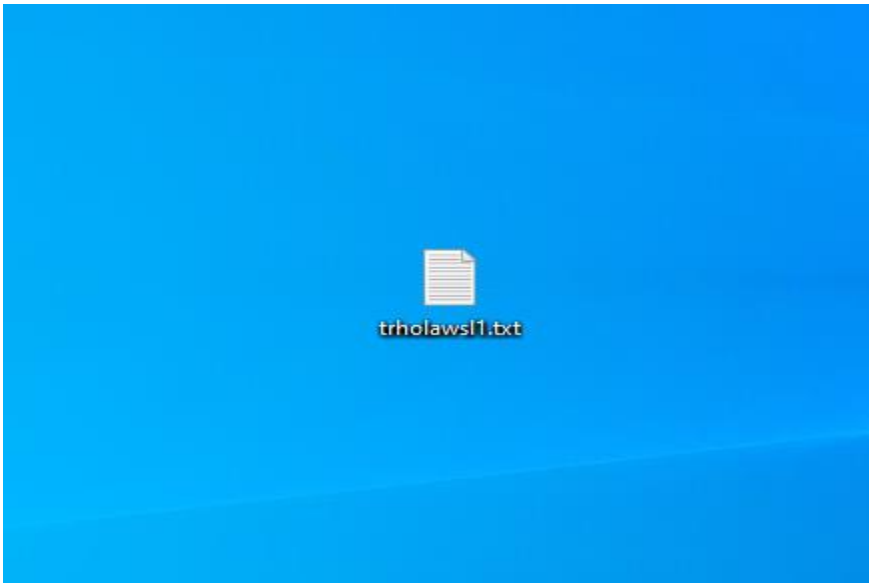

aws
Services
Search for services, features, blogs, docs, and more
[Alt+S]
Amazon S3 > Buckets > trholsn40039533s3 > Delete objects
Delete objects Info
Deleting the specified objects can't be undone.
Learn more
Specified objects
Find objects by name
1
Name
Version ID
Type
Last modified
Size
trholawsl1.txt
DWMiUBqyE.T_k1p8H8uJ5C5FBHMNPGRu
txt
July 16, 2022, 15:26:14 (UTC+05:30)
5.0 B
Permanently delete objects?
To confirm deletion, type permanently delete in the text input field.
permanently delete
Cancel
Delete objects

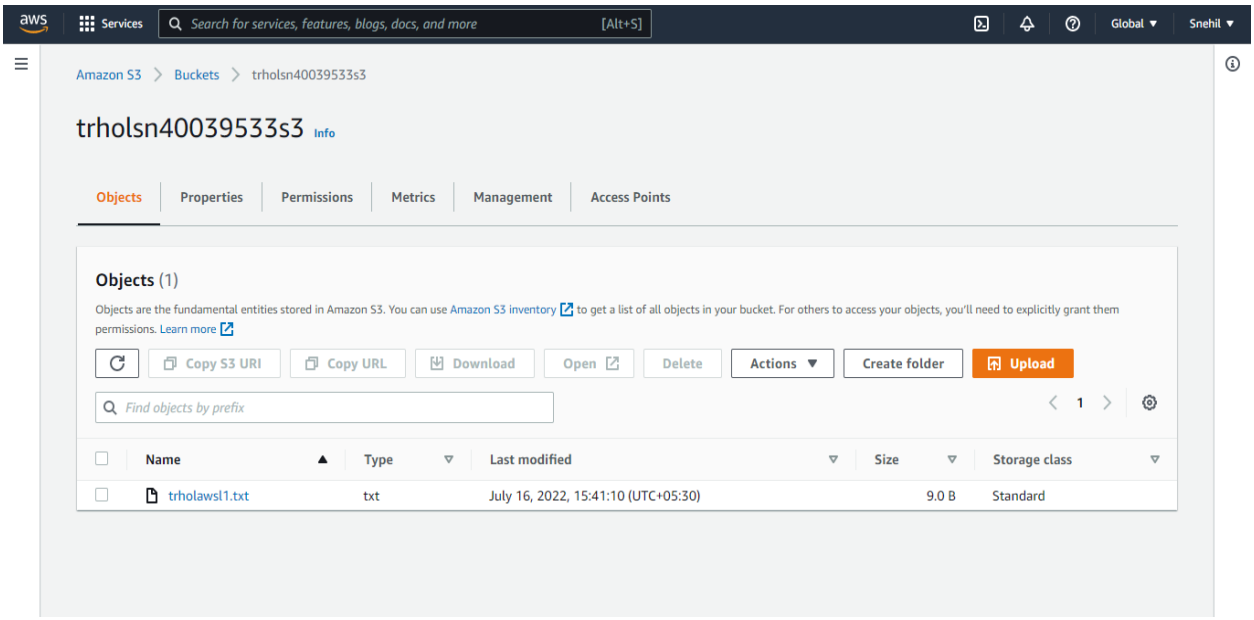

aws
Services
Search for services, features, blogs, docs, and more
[Alt+S]
Amazon S3 > Buckets > trholsn40039533s3 > Delete bucket
Delete bucket Info
Deleting a bucket cannot be undone.
Bucket names are unique. If you delete a bucket, another AWS user can use the name.
Learn more
Delete bucket "trholsn40039533s3"?
To confirm deletion, enter the name of the bucket in the text input field.
trholsn40039533s3
Cancel
Delete bucket

Assignment 2:

- Create S3 Bucket with name ““trhol<EMP AD ID name>s3”
- Create file name “trholawsl1”
- Upload the object onto S3
- Setup lifecycle rule between Standard and Glacier.
- Test the object movement using lifecycle rule.



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Services
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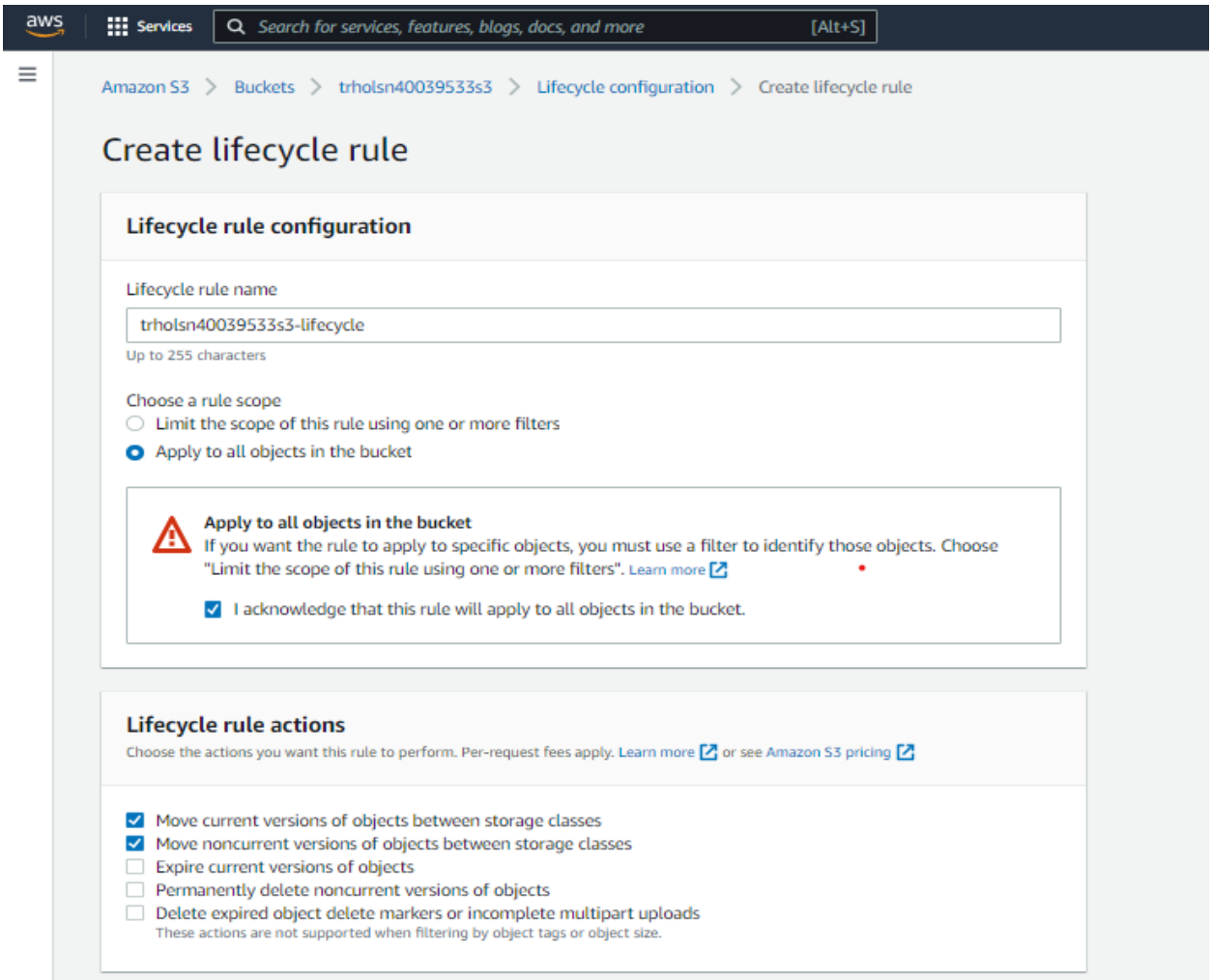
Global
Snehil
Amazon S3 > Buckets > trholsn40039533s3
trholsn40039533s3 Info
Objects
Properties
Permissions
Metrics
Management
Access Points
Objects (1)
Objects are the fundamental entities stored in Amazon S3. You can use Amazon S3 inventory to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. Learn more
Copy S3 URI
Copy URL
Download
Open
Delete
Actions
Create folder
Upload
Find objects by prefix
1
Name
Type
Last modified
Size
Storage class
trholawsl1.txt
txt
July 16, 2022, 15:41:10 (UTC+05:30)
9.0 B
Standard


aws
Services
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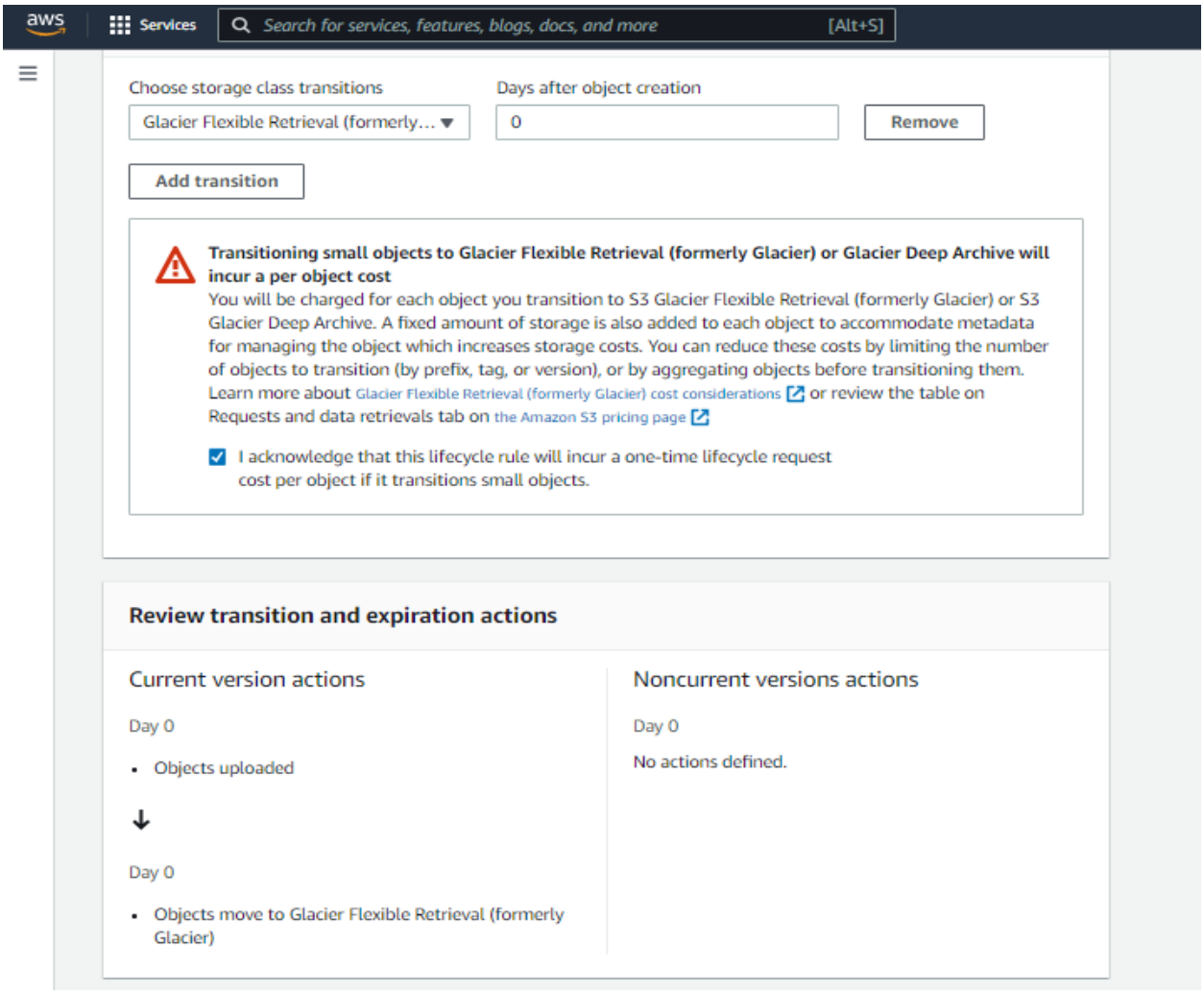
Amazon S3 > Buckets > trholsn40039533s3 > Lifecycle configuration > Create lifecycle rule
Create lifecycle rule
Lifecycle rule configuration
Lifecycle rule name
trholsn40039533s3-lifecycle
Up to 255 characters
Choose a rule scope
Limit the scope of this rule using one or more filters
Apply to all objects in the bucket
Apply to all objects in the bucket
If you want the rule to apply to specific objects, you must use a filter to identify those objects. Choose "Limit the scope of this rule using one or more filters". Learn more
I acknowledge that this rule will apply to all objects in the bucket.
Lifecycle rule actions
Choose the actions you want this rule to perform. Per-request fees apply. Learn more or see Amazon S3 pricing
Move current versions of objects between storage classes
Move noncurrent versions of objects between storage classes
Expire current versions of objects
Permanently delete noncurrent versions of objects
Delete expired object delete markers or incomplete multipart uploads
These actions are not supported when filtering by object tags or object size.


aws
Services
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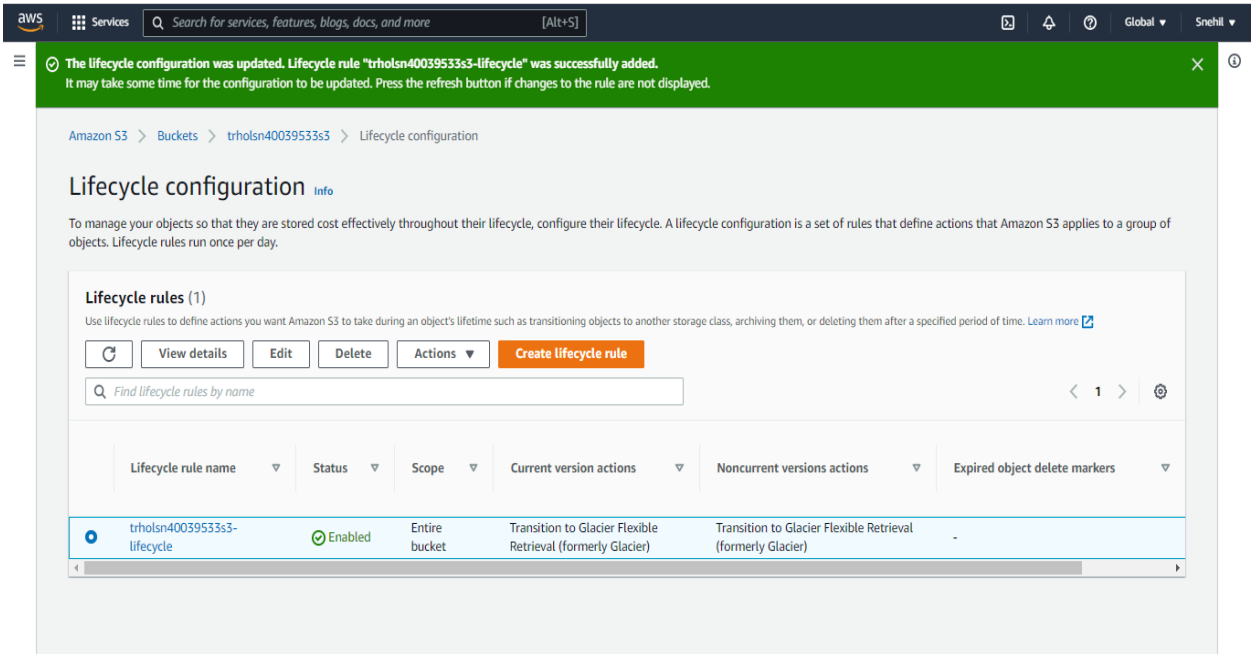
Choose storage class transitions
Glacier Flexible Retrieval (formerly...
Days after object creation
0
Remove
Add transition
Transitioning small objects to Glacier Flexible Retrieval (formerly Glacier) or Glacier Deep Archive will incur a per object cost
You will be charged for each object you transition to S3 Glacier Flexible Retrieval (formerly Glacier) or S3 Glacier Deep Archive. A fixed amount of storage is also added to each object to accommodate metadata for managing the object which increases storage costs. You can reduce these costs by limiting the number of objects to transition (by prefix, tag, or version), or by aggregating objects before transitioning them.
Learn more about Glacier Flexible Retrieval (formerly Glacier) cost considerations or review the table on Requests and data retrievals tab on the Amazon S3 pricing page
I acknowledge that this lifecycle rule will incur a one-time lifecycle request cost per object if it transitions small objects.
Review transition and expiration actions
Current version actions
Day 0
Objects uploaded
Day 0
Objects move to Glacier Flexible Retrieval (formerly Glacier)
Noncurrent versions actions
Day 0
No actions defined.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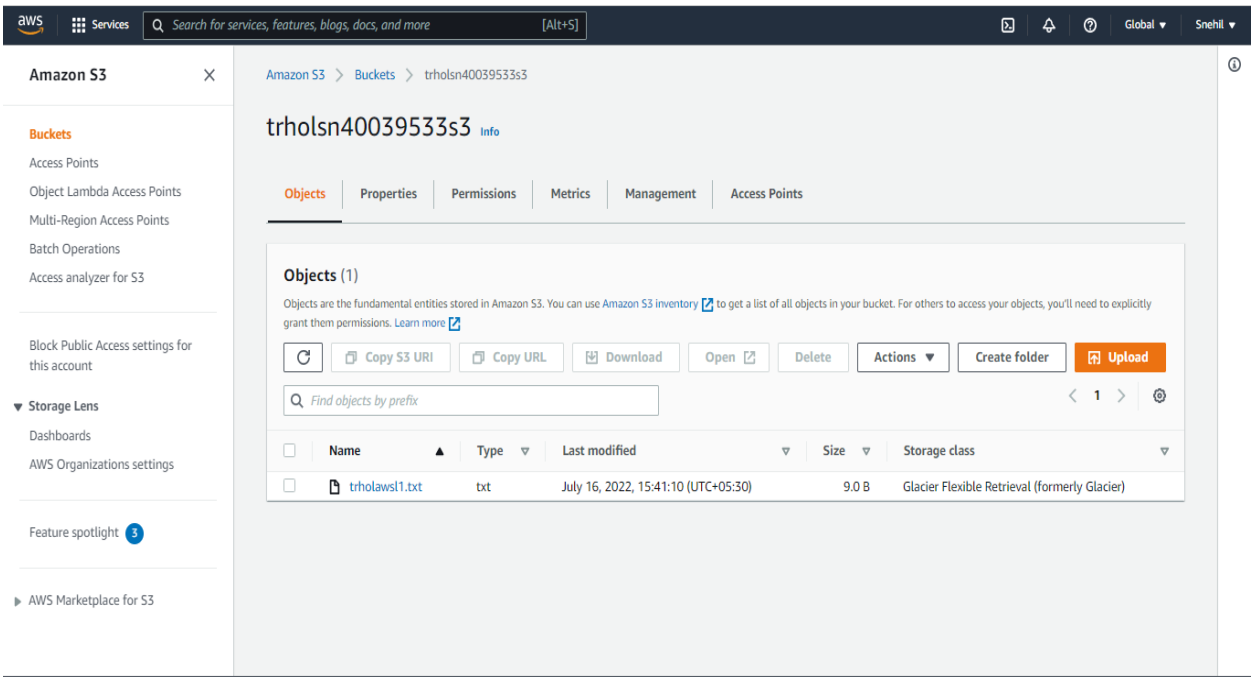
The lifecycle configuration was updated. Lifecycle rule "trholsn40039533s3-lifecycle" was successfully added.
It may take some time for the configuration to be updated. Press the refresh button if changes to the rule are not displayed.
Amazon S3 > Buckets > trholsn40039533s3 > Lifecycle configuration
Lifecycle configuration Info
To manage your objects so that they are stored cost effectively throughout their lifecycle, configure their lifecycle. A lifecycle configuration is a set of rules that define actions that Amazon S3 applies to a group of objects. Lifecycle rules run once per day.
Lifecycle rules (1)
Use lifecycle rules to define actions you want Amazon S3 to take during an object's lifetime such as transitioning objects to another storage class, archiving them, or deleting them after a specified period of time. Learn more
View details
Edit
Delete
Actions
Create lifecycle rule
Find lifecycle rules by name
1
Lifecycle rule name
Status
Scope
Current version actions
Noncurrent versions actions
Expired object delete markers
trholsn40039533s3-lifecycle
Enabled
Entire bucket
Transition to Glacier Flexible Retrieval (formerly Glacier)
Transition to Glacier Flexible Retrieval (formerly Glacier)
-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Global
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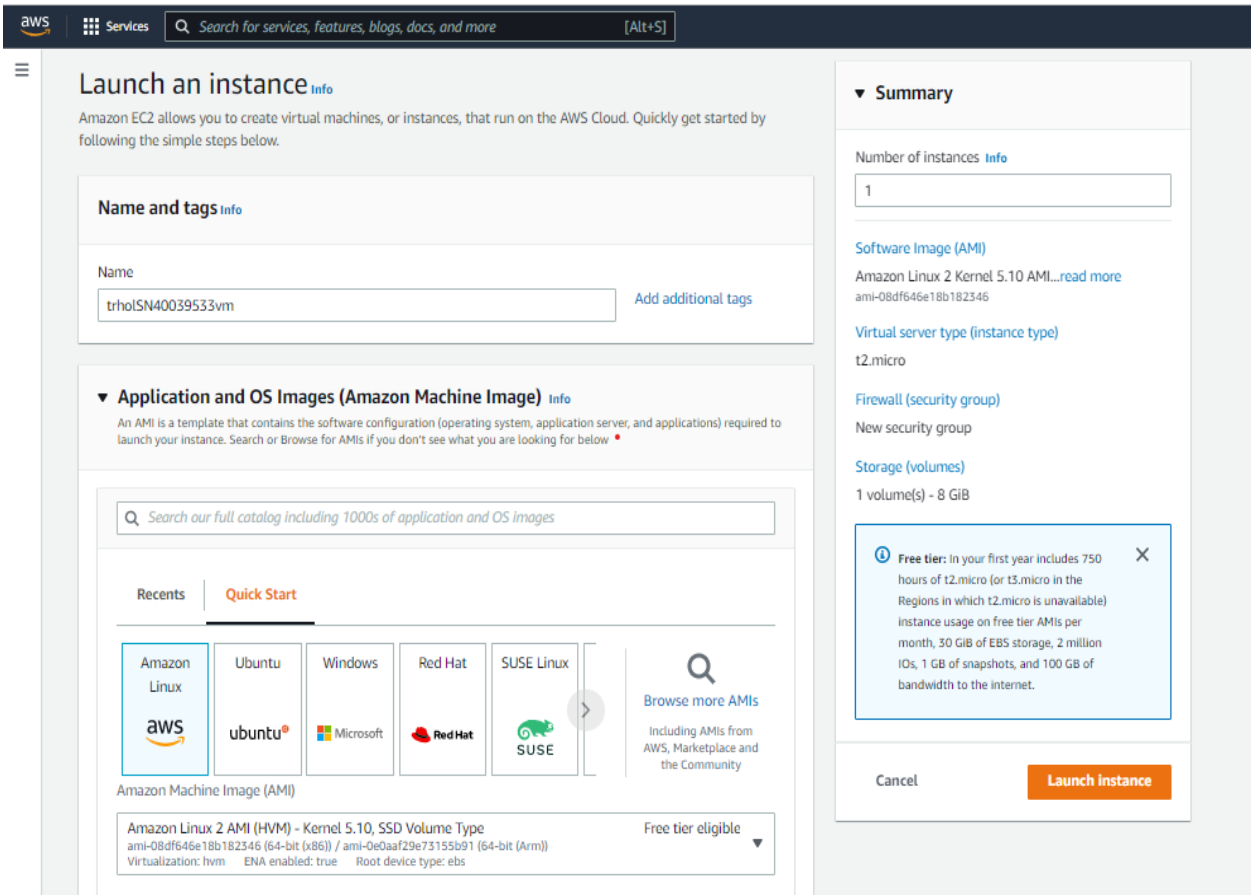
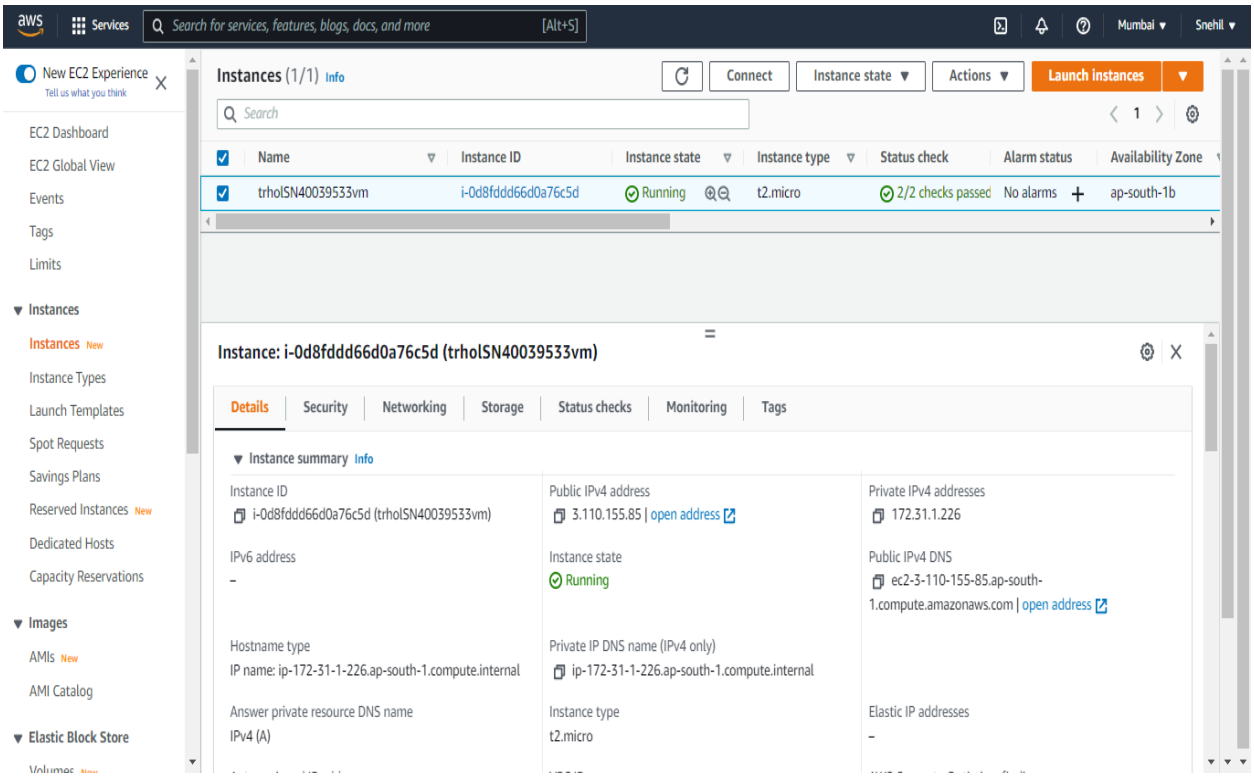
Amazon S3
Buckets
Access Points
Object Lambda Access Points
Multi-Region Access Points
Batch Operations
Access analyzer for S3
Block Public Access settings for this account
Storage Lens
Dashboards
AWS Organizations settings
Feature spotlight
3
AWS Marketplace for S3
Amazon S3 > Buckets > trholsn40039533s3
trholsn40039533s3 Info
Objects
Properties
Permissions
Metrics
Management
Access Points
Objects (1)
Objects are the fundamental entities stored in Amazon S3. You can use Amazon S3 inventory to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. Learn more
Copy S3 URI
Copy URL
Download
Open
Delete
Actions
Create folder
Upload
Find objects by prefix
1
Name
Type
Last modified
Size
Storage class
trholawsl1.txt
txt
July 16, 2022, 15:41:10 (UTC+05:30)
9.0 B
Glacier Flexible Retrieval (formerly Glacier)

Assignment 3:

- Create VM (instance Type t2.micro) with tag “trhol<EMP AD ID name>vm” using Amazon Linux AMI
- Add ephemeral disks to the VM “trhol<EMP AD ID name>eph”
- Remove disks from VM “trhol<EMP AD ID name>eph”
- Delete VM “trhol<EMP AD ID name>vm”




Services
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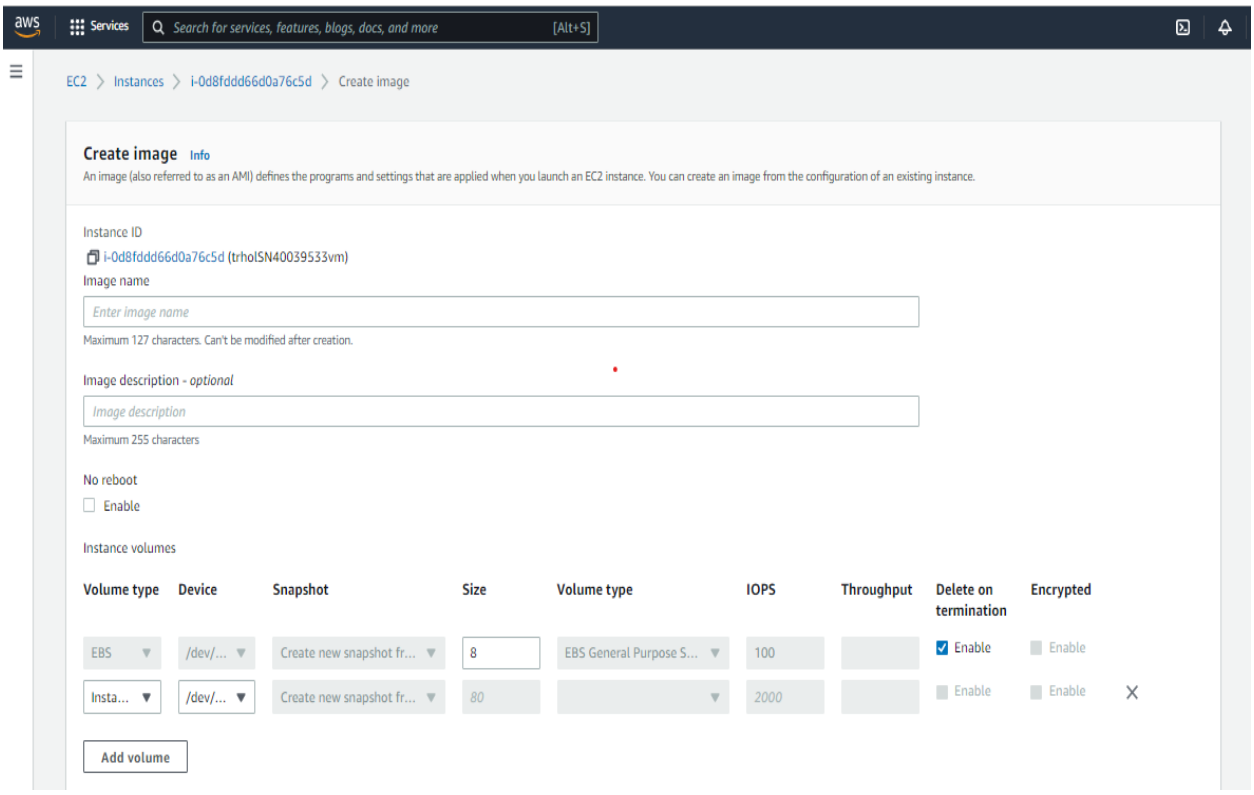
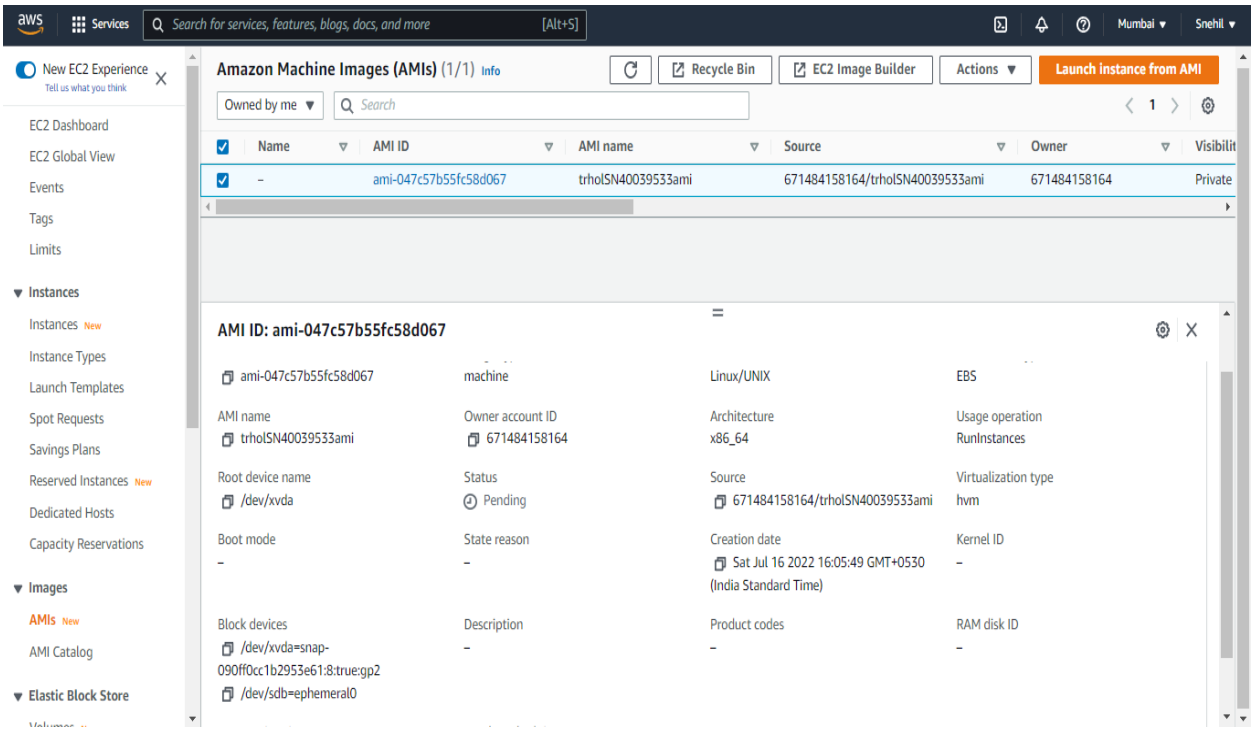
Mumbai
Snehil
New EC2 Experience
Tell us what you think
EC2 Dashboard
EC2 Global View
Events
Tags
Limits
Instances
Instances New
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances New
Dedicated Hosts
Capacity Reservations
Images
AMIs New
AMI Catalog
Elastic Block Store
Instances (1/1) Info
Connect
Instance state
Actions
Launch instances
Search
Name
Instance ID
Instance state
Instance type
Status check
Alarm status
Availability Zone
trholSN40039533vm
i-0d8fddd66d0a76c5d
Running
t2.micro
2/2 checks passed
No alarms
ap-south-1b
Instance: i-0d8fddd66d0a76c5d (trholSN40039533vm)
Details
Security
Networking
Storage
Status checks
Monitoring
Tags
Instance summary Info
Instance ID
i-0d8fddd66d0a76c5d (trholSN40039533vm)
Public IPv4 address
3.110.155.85 | open address
Private IPv4 addresses
172.31.1.226
IPv6 address
–
Instance state
Running
Public IPv4 DNS
ec2-3-110-155-85.ap-south-1.compute.amazonaws.com | open address
Hostname type
IP name: ip-172-31-1-226.ap-south-1.compute.internal
Private IP DNS name (IPv4 only)
ip-172-31-1-226.ap-south-1.compute.internal
Answer private resource DNS name
IPv4 (A)
Instance type
t2.micro
Elastic IP addresses
–


Services
Search for services, features, blogs, docs, and more [Alt+S]
EC2 > Instances > i-0d8fddd66d0a76c5d > Create image
Create image Info
An image (also referred to as an AMI) defines the programs and settings that are applied when you launch an EC2 instance. You can create an image from the configuration of an existing instance.
Instance ID
i-0d8fddd66d0a76c5d (trholSN40039533vm)
Image name
Enter image name
Maximum 127 characters. Can't be modified after creation.
Image description - optional
Image description
Maximum 255 characters
No reboot
Enable
Instance volumes
Volume type
Device
Snapshot
Size
Volume type
IOPS
Throughput
Delete on termination
Encrypted
EBS
/dev/...
Create new snapshot fr...
8
EBS General Purpose S...
100
Enable
Enable
Insta...
/dev/...
Create new snapshot fr...
80
2000
Enable
Enable
Add volume


Services
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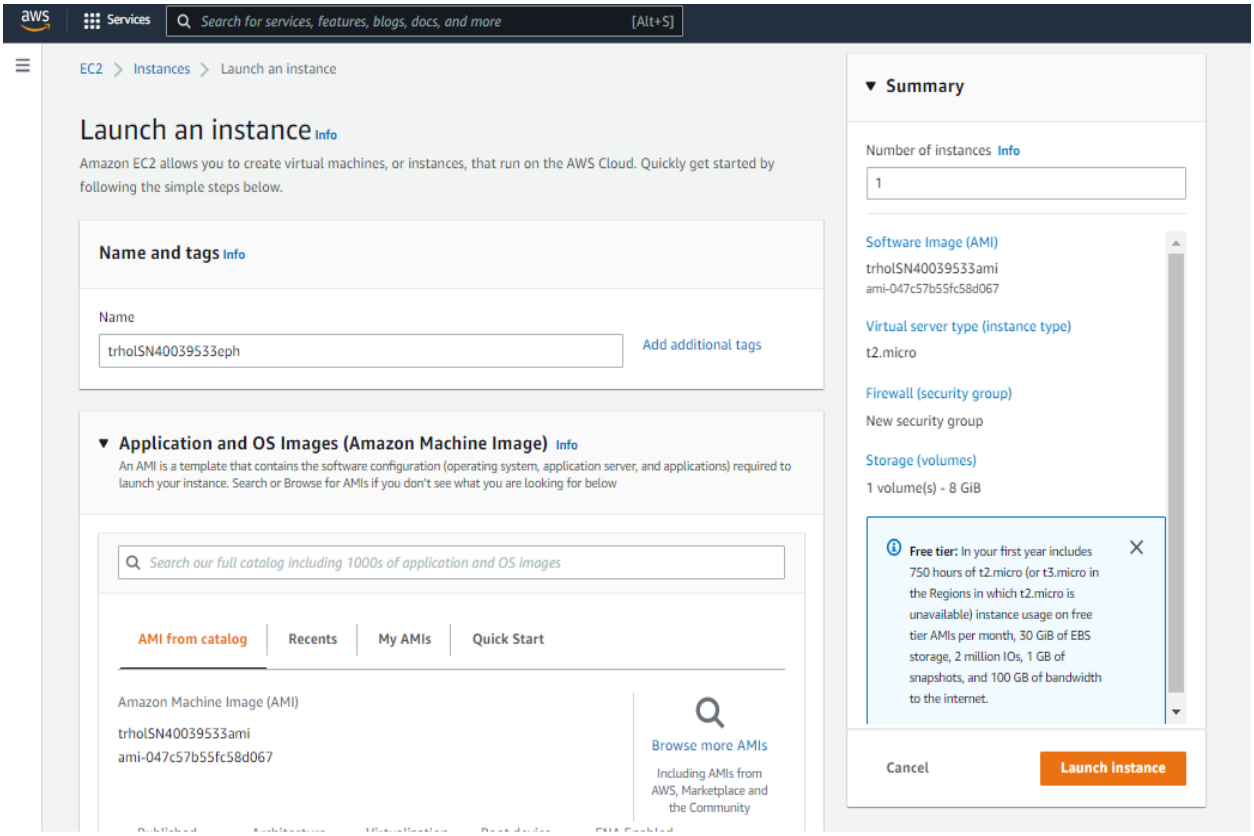
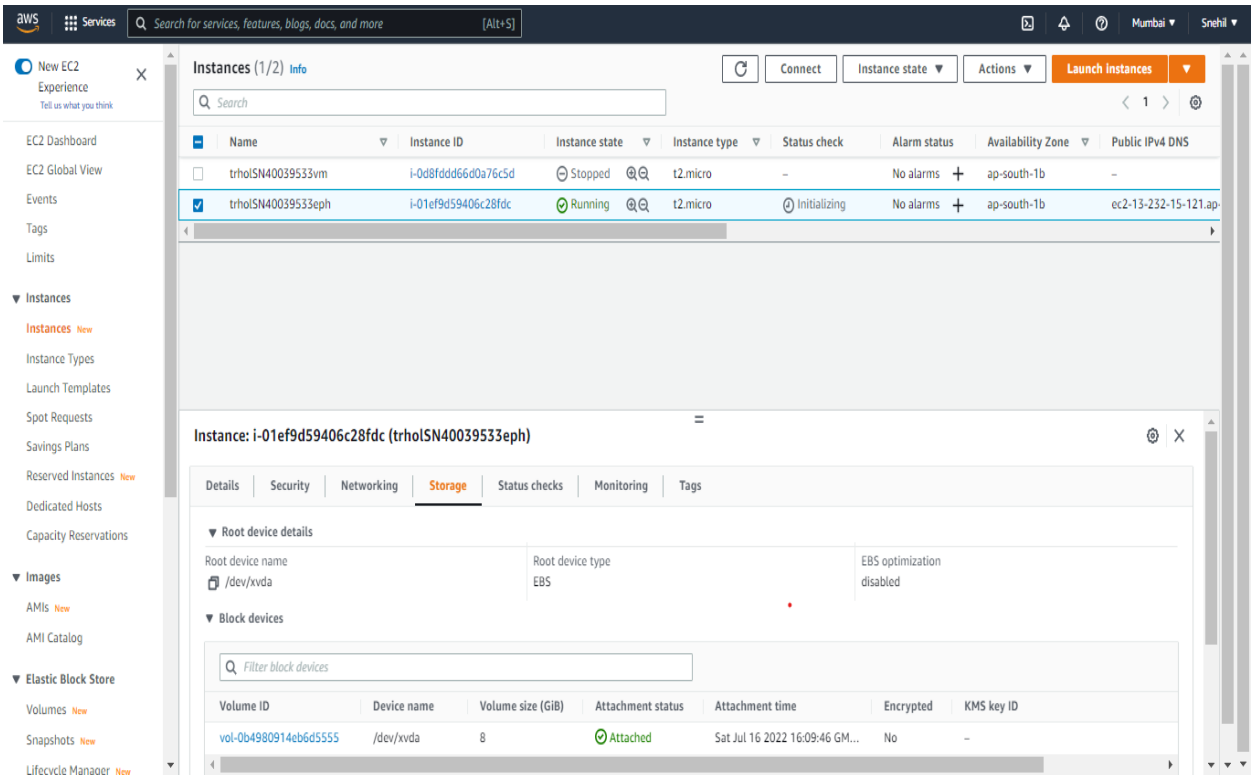
Mumbai
Snehil
New EC2 Experience
Tell us what you think
EC2 Dashboard
EC2 Global View
Events
Tags
Limits
Instances
Instances New
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances New
Dedicated Hosts
Capacity Reservations
Images
AMIs New
AMI Catalog
Elastic Block Store
Amazon Machine Images (AMIs) (1/1) Info
Recycle Bin
EC2 Image Builder
Actions
Launch instance from AMI
Owned by me
Search
Name
AMI ID
AMI name
Source
Owner
Visibilit
ami-047c57b55fc58d067
trholSN40039533ami
671484158164/trholSN40039533ami
671484158164
Private
AMI ID: ami-047c57b55fc58d067
ami-047c57b55fc58d067
machine
Linux/UNIX
EBS
AMI name
trholSN40039533ami
Owner account ID
671484158164
Architecture
x86_64
Usage operation
RunInstances
Root device name
/dev/xvda
Status
Pending
Source
671484158164/trholSN40039533ami
Virtualization type
hvm
Boot mode
–
State reason
–
Creation date
Sat Jul 16 2022 16:05:49 GMT+0530 (India Standard Time)
Kernel ID
–
Block devices
/dev/xvda=snap-090ff0cc1b2953e61:8:true:gp2
/dev/sdb=ephemeral0
Description
–
Product codes
–
RAM disk ID
–


Services
Search for services, features, blogs, docs, and more [Alt+S]
EC2 > Instances > Launch an instance
Launch an instance Info
Amazon EC2 allows you to create virtual machines, or instances, that run on the AWS Cloud. Quickly get started by following the simple steps below.
Name and tags Info
Name
trholSN40039533eph
Add additional tags
Application and OS Images (Amazon Machine Image) Info
An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below
Search our full catalog including 1000s of application and OS images
AMI from catalog
Recents
My AMIs
Quick Start
Amazon Machine Image (AMI)
trholSN40039533ami
ami-047c57b55fc58d067
Browse more AMIs
Including AMIs from AWS, Marketplace and the Community
Summary
Number of instances Info
1
Software Image (AMI)
trholSN40039533ami
ami-047c57b55fc58d067
Virtual server type (instance type)
t2.micro
Firewall (security group)
New security group
Storage (volumes)
1 volume(s) - 8 GiB
Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 30 GiB of EBS storage, 2 million IOs, 1 GB of snapshots, and 100 GB of bandwidth to the internet.
Cancel
Launch instance


Services
Search for services, features, blogs, docs, and more [Alt+S]
Mumbai
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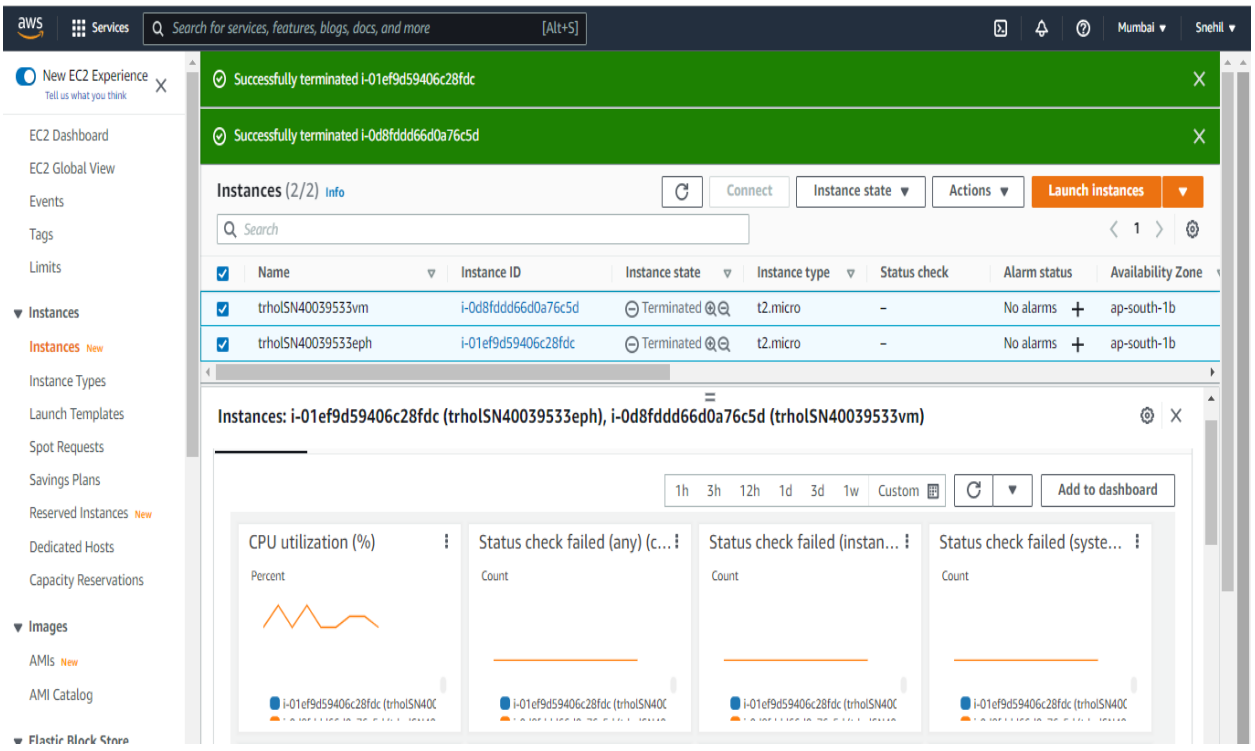
New EC2 Experience
Tell us what you think
EC2 Dashboard
EC2 Global View
Events
Tags
Limits
Instances
Instances New
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances New
Dedicated Hosts
Capacity Reservations
Images
AMIs New
AMI Catalog
Elastic Block Store
Volumes New
Snapshots New
Lifecycle Manager New
Instances (1/2) Info
Connect
Instance state
Actions
Launch instances
Search
Name
Instance ID
Instance state
Instance type
Status check
Alarm status
Availability Zone
Public IPv4 DNS
trholSN40039533vm
i-0d8fddd66d0a76c5d
Stopped
t2.micro
No alarms
ap-south-1b
trholSN40039533eph
i-01ef9d59406c28fdc
Running
t2.micro
Initializing
No alarms
ap-south-1b
ec2-13-232-15-121.ap-
Instance: i-01ef9d59406c28fdc (trholSN40039533eph)
Details
Security
Networking
Storage
Status checks
Monitoring
Tags
Root device details
Root device name
/dev/xvda
Root device type
EBS
EBS optimization
disabled
Block devices
Filter block devices
Volume ID
Device name
Volume size (GiB)
Attachment status
Attachment time
Encrypted
KMS key ID
vol-0b4980914eb6d5555
/dev/xvda
8
Attached
Sat Jul 16 2022 16:09:46 GM...
No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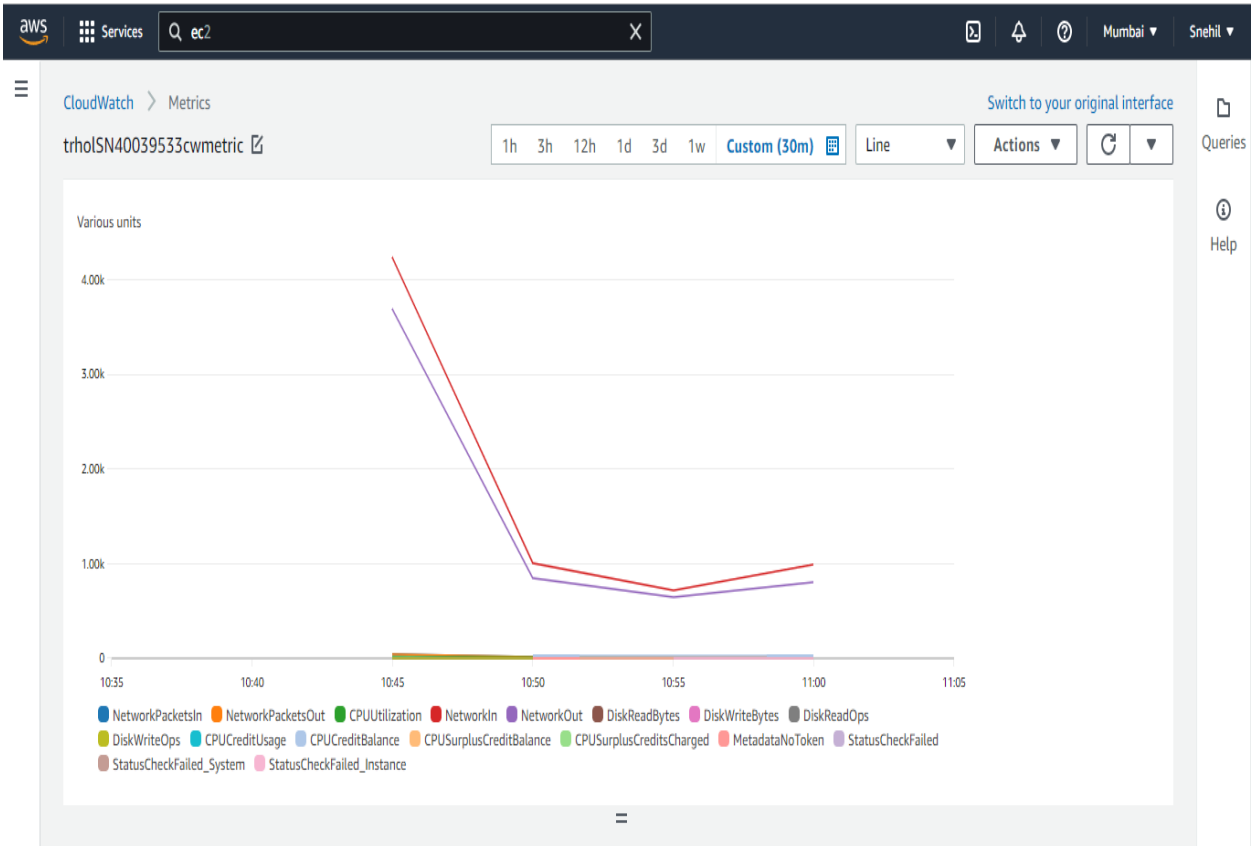
Instances New
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances New
Dedicated Hosts
Capacity Reservations
Images
AMIs New
AMI Catalog
Elastic Block Store
Successfully terminated i-01ef9d59406c28fdc
Successfully terminated i-0d8fddd66d0a76c5d
Instances (2/2) Info
Connect
Instance state
Actions
Launch instances
Search
Name
Instance ID
Instance state
Instance type
Status check
Alarm status
Availability Zone
trholSN40039533vm
i-0d8fddd66d0a76c5d
Terminated
t2.micro
No alarms
ap-south-1b
trholSN40039533eph
i-01ef9d59406c28fdc
Terminated
t2.micro
No alarms
ap-south-1b
Instances: i-01ef9d59406c28fdc (trholSN40039533eph), i-0d8fddd66d0a76c5d (trholSN40039533vm)
1h
3h
12h
1d
3d
1w
Custom
Add to dashboard
CPU utilization (%)
Percent
Status check failed (any) (c...
Count
Status check failed (instan...
Count
Status check failed (syste...
Count

Topic 6: Management & Monitoring

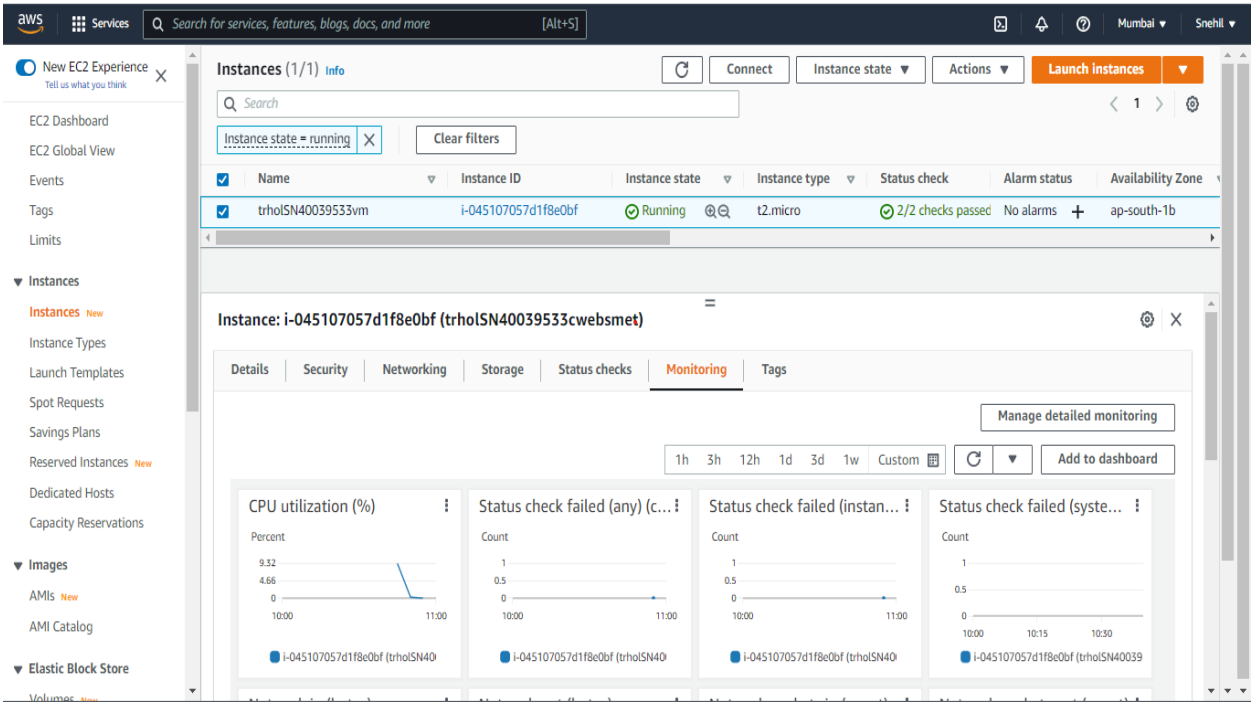
Assignment 1:

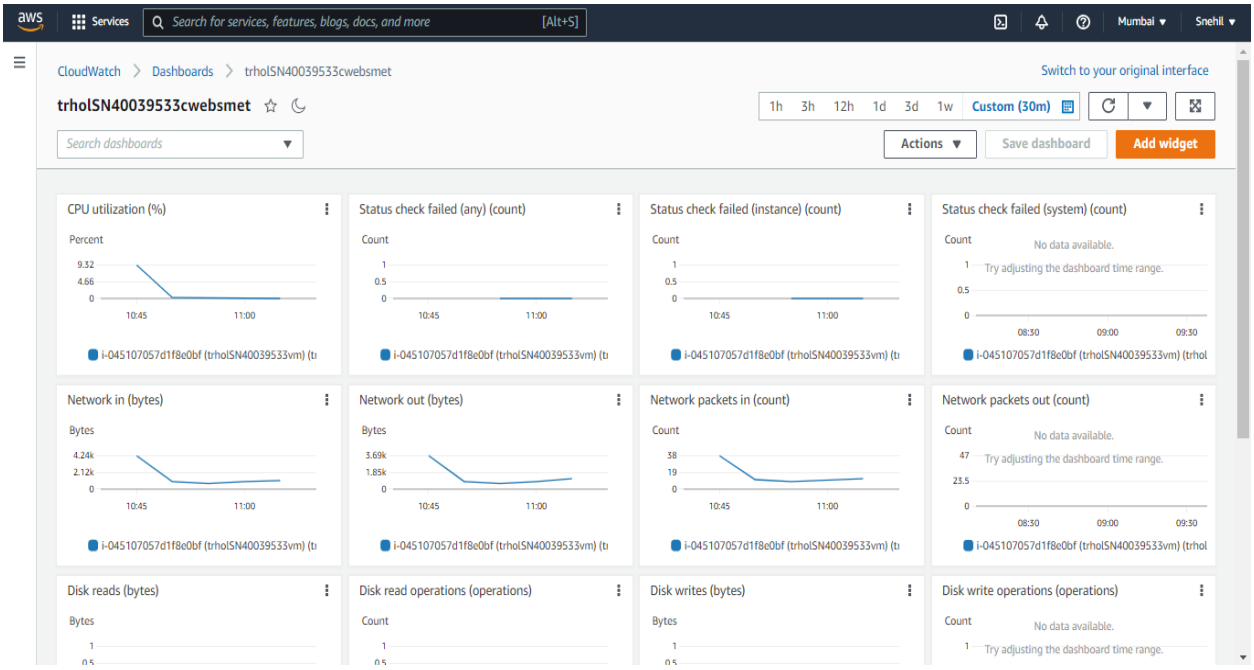
• Create custom CloudWatch metric to monitor with tag “trhol<EMP AD ID name>cwmetric”



Assignment 2:

• Configure CloudWatch monitoring on an EBS backed EC2 instance with tag “trhol<EMP AD ID name>cwebsmet”





Topic 6: Database

Assignment 1:

• Create RDS database using “t2.micro” instance class DB size as 20 Gib and tag “trhol<EMP AD ID name>rds”