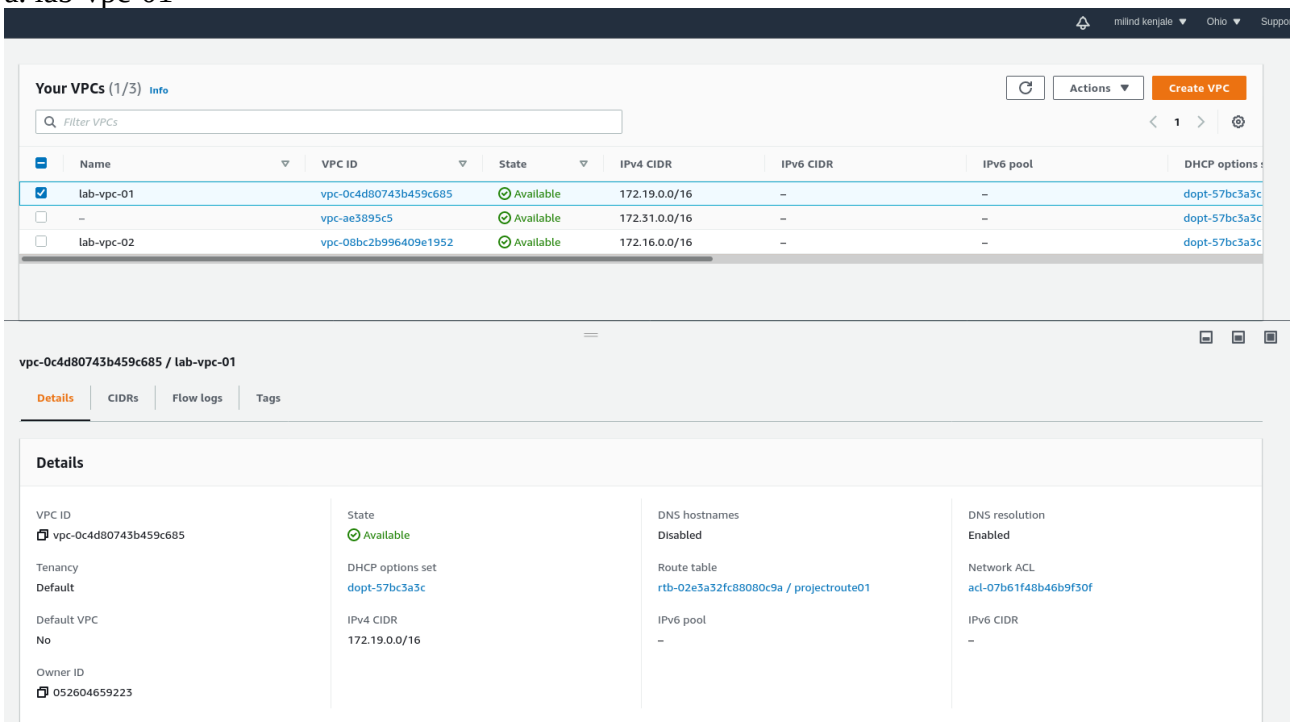
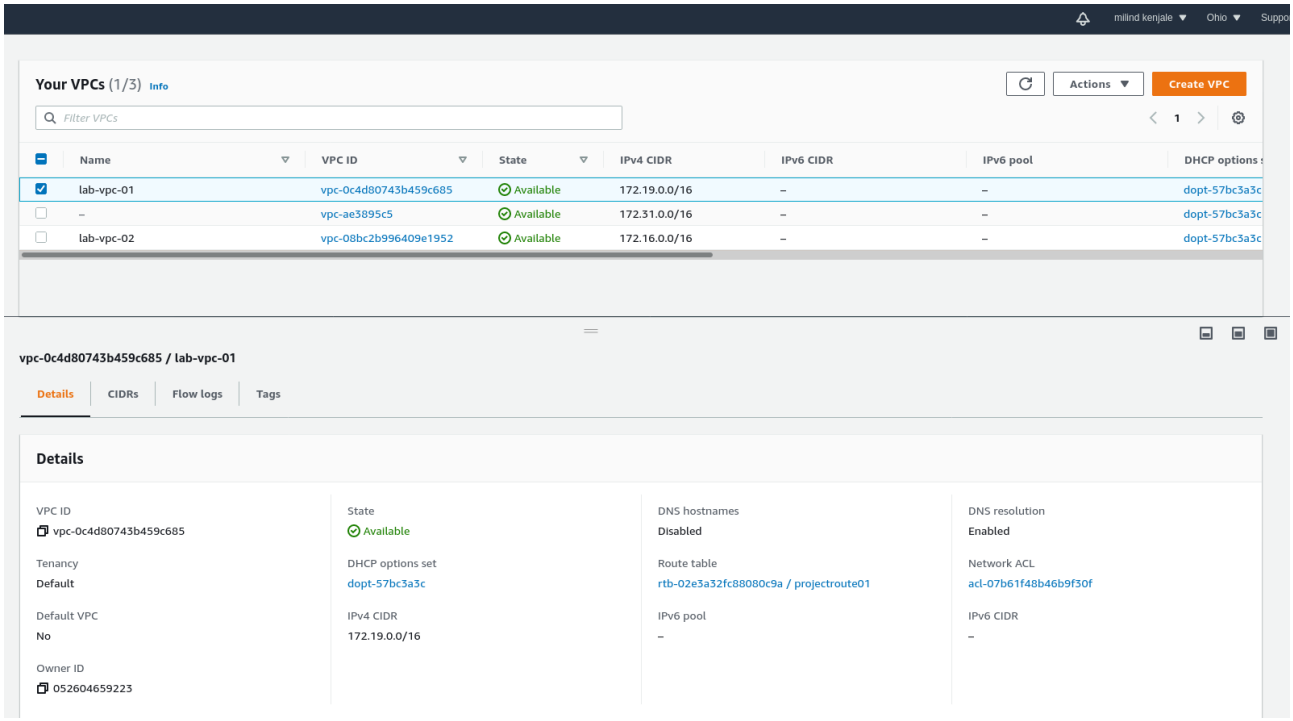
Project 1 Week 4: VPC Peering

SS1: VPCs List

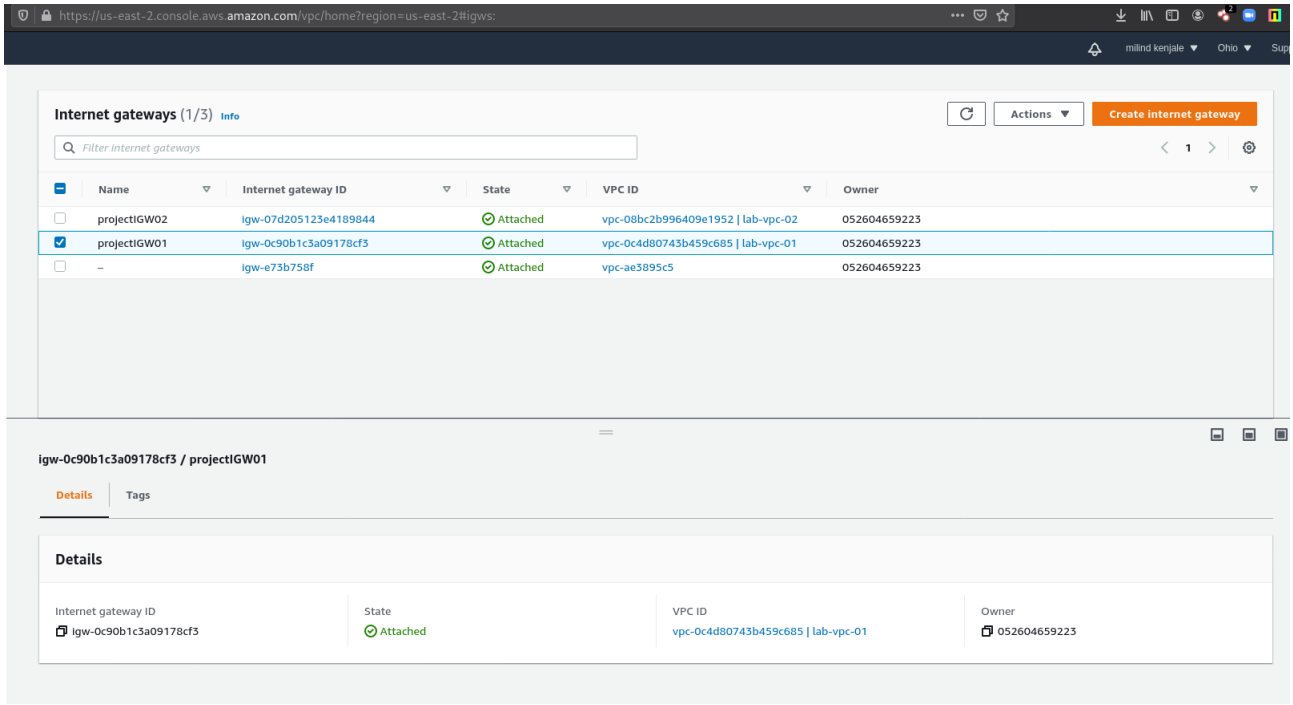
a. lab-vpc-01



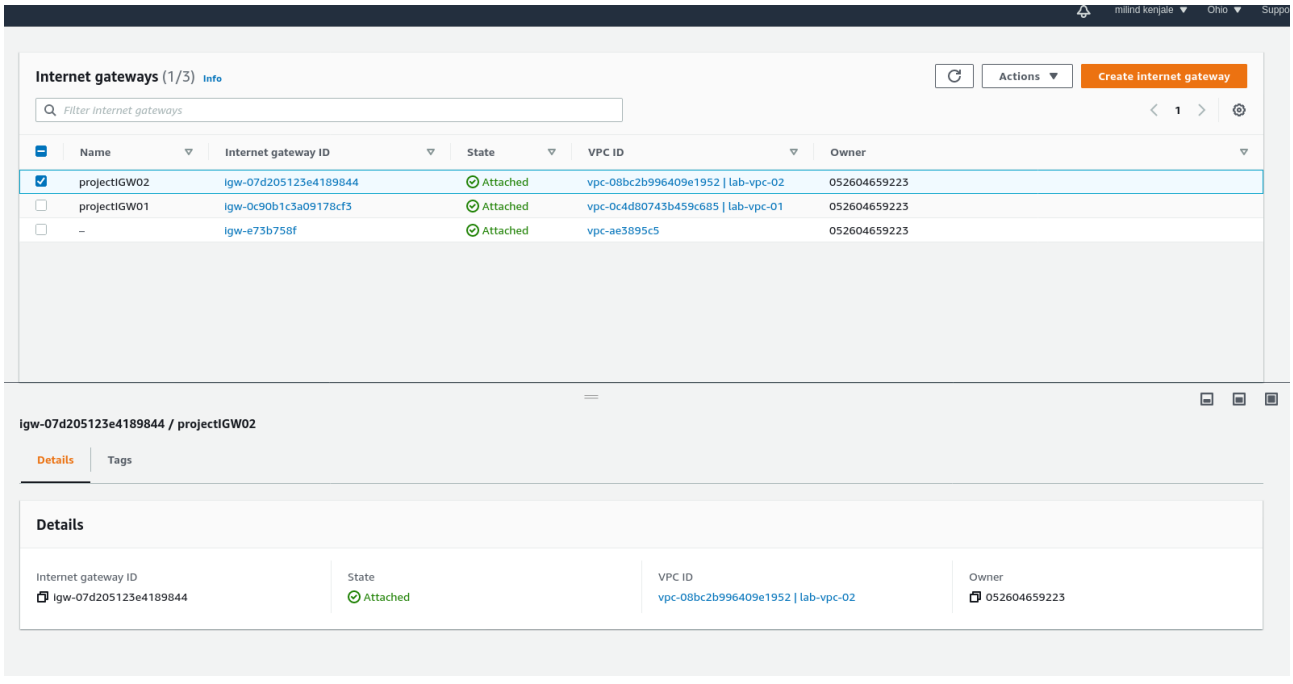
b. lab-vpc-02



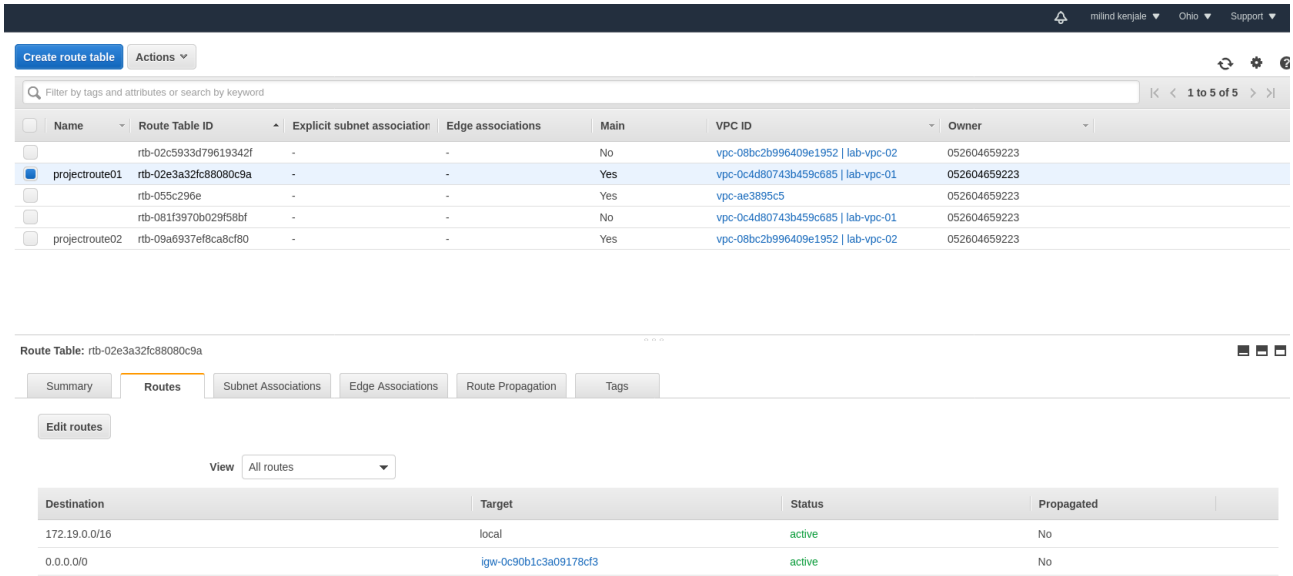
SS2: IGW List
a. IGW01



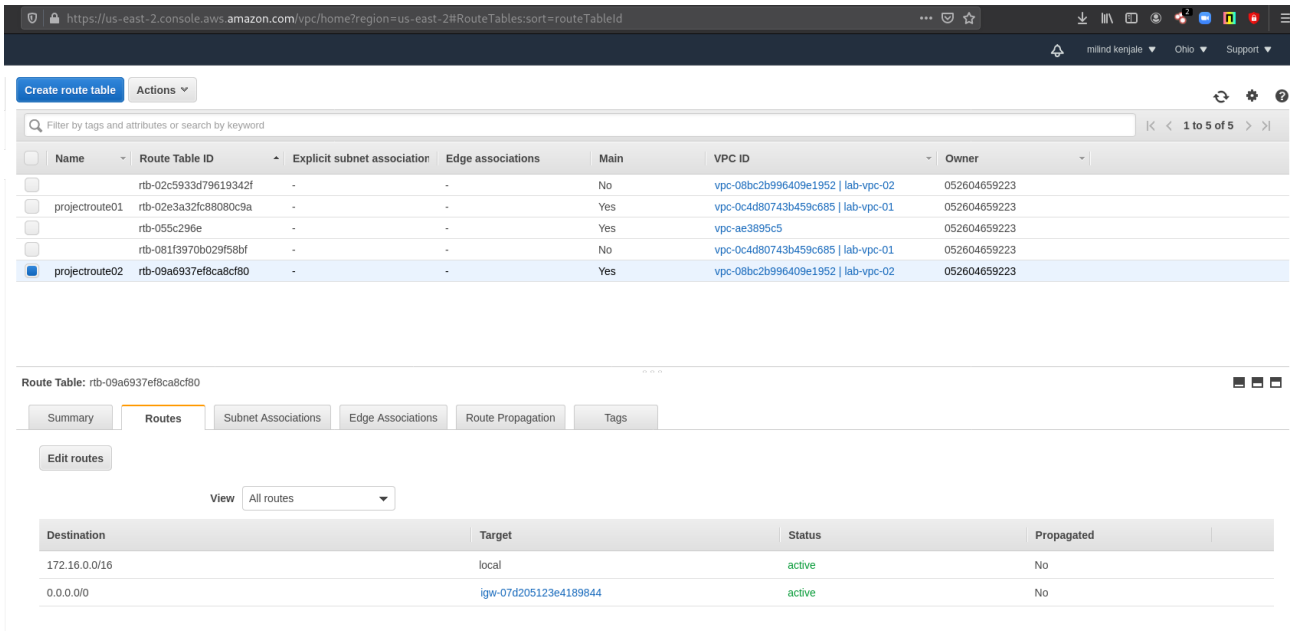
b. IGW02



SS3: Edit Route List
a. routetable01

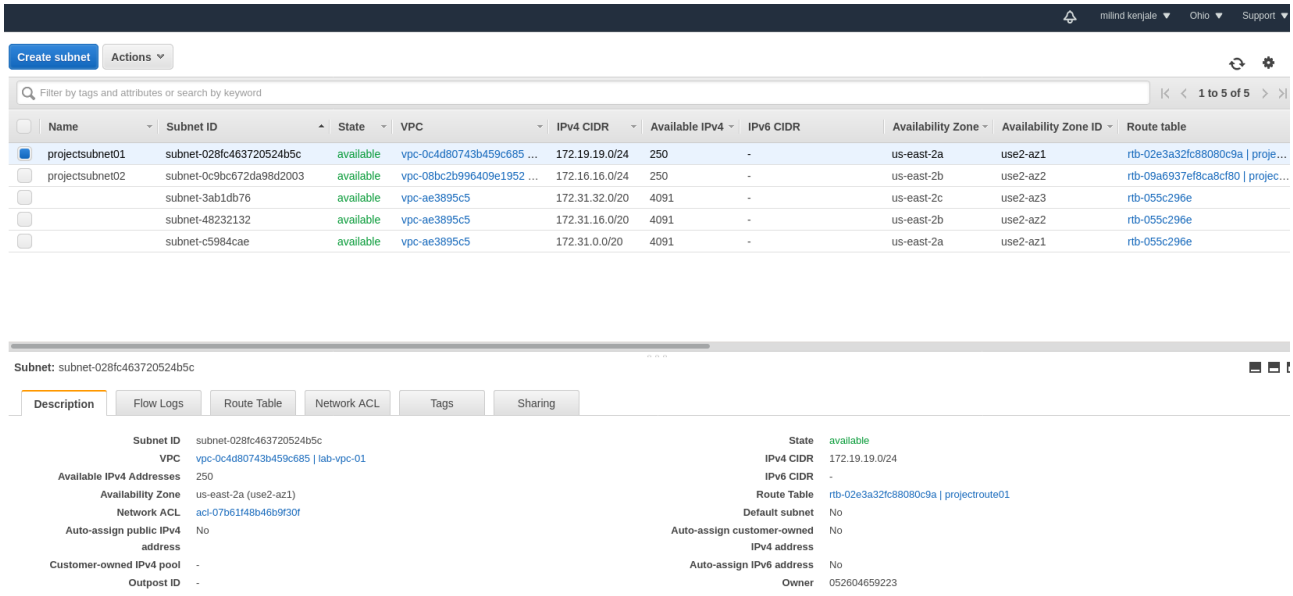


b. Routetable02

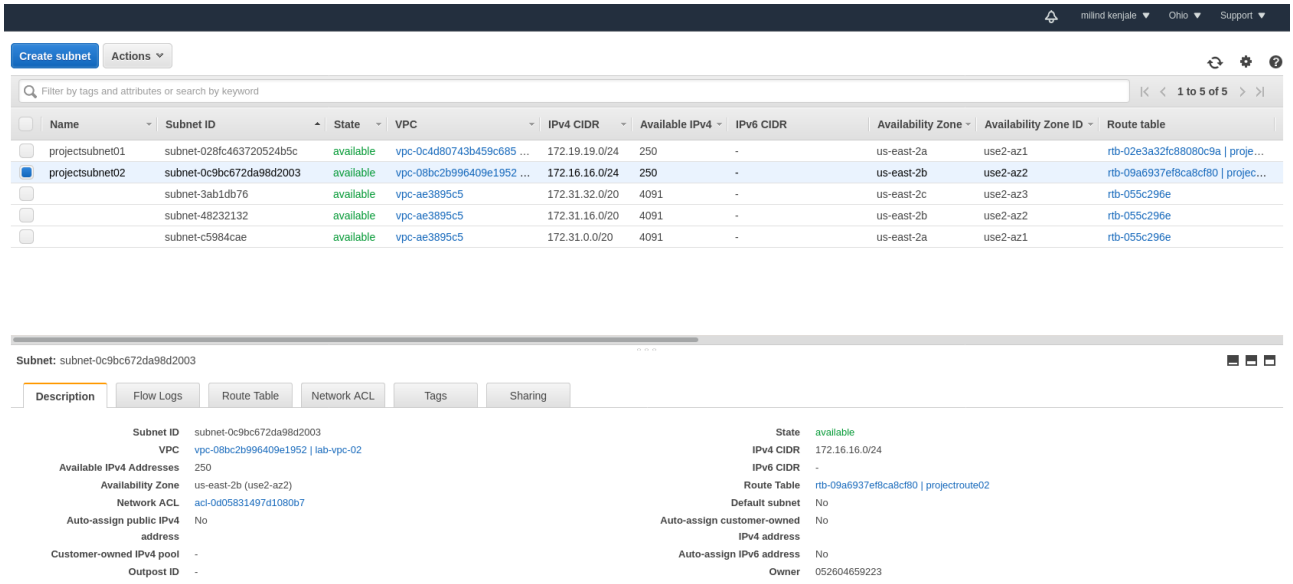


SS4: Subnet List

a. Subnet01

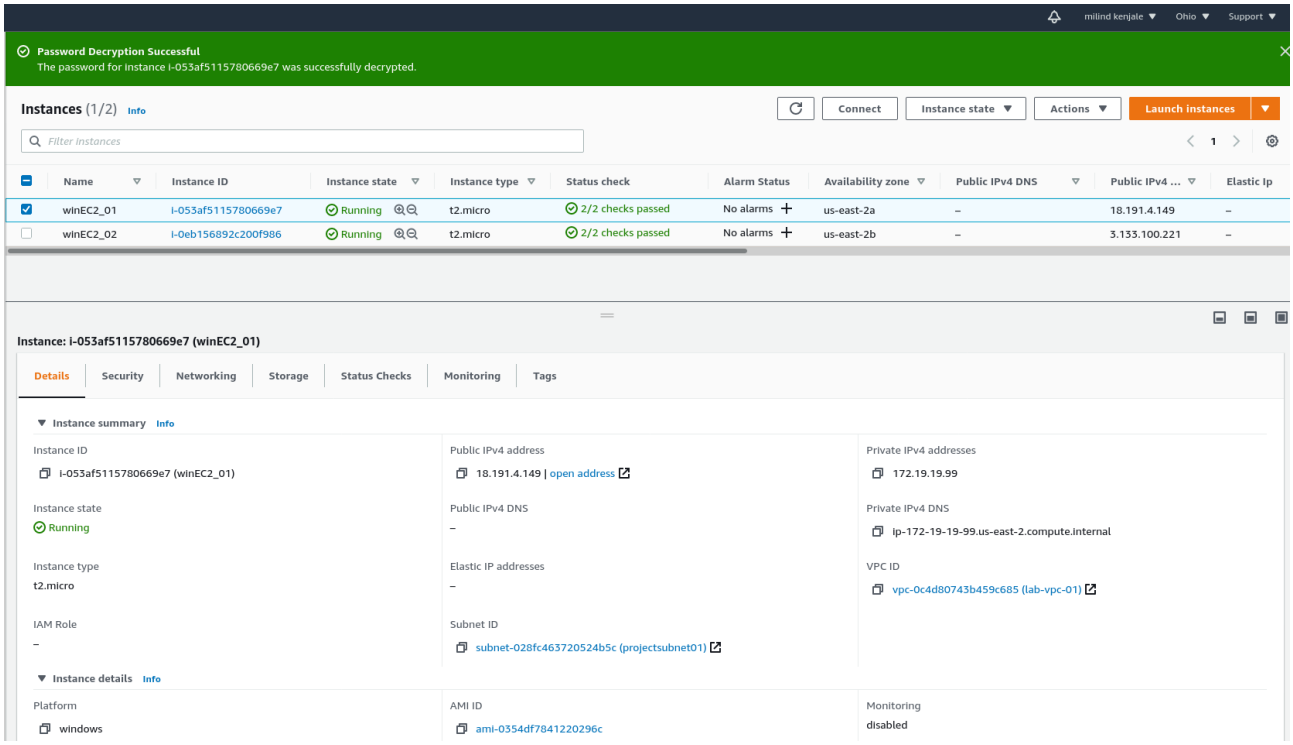


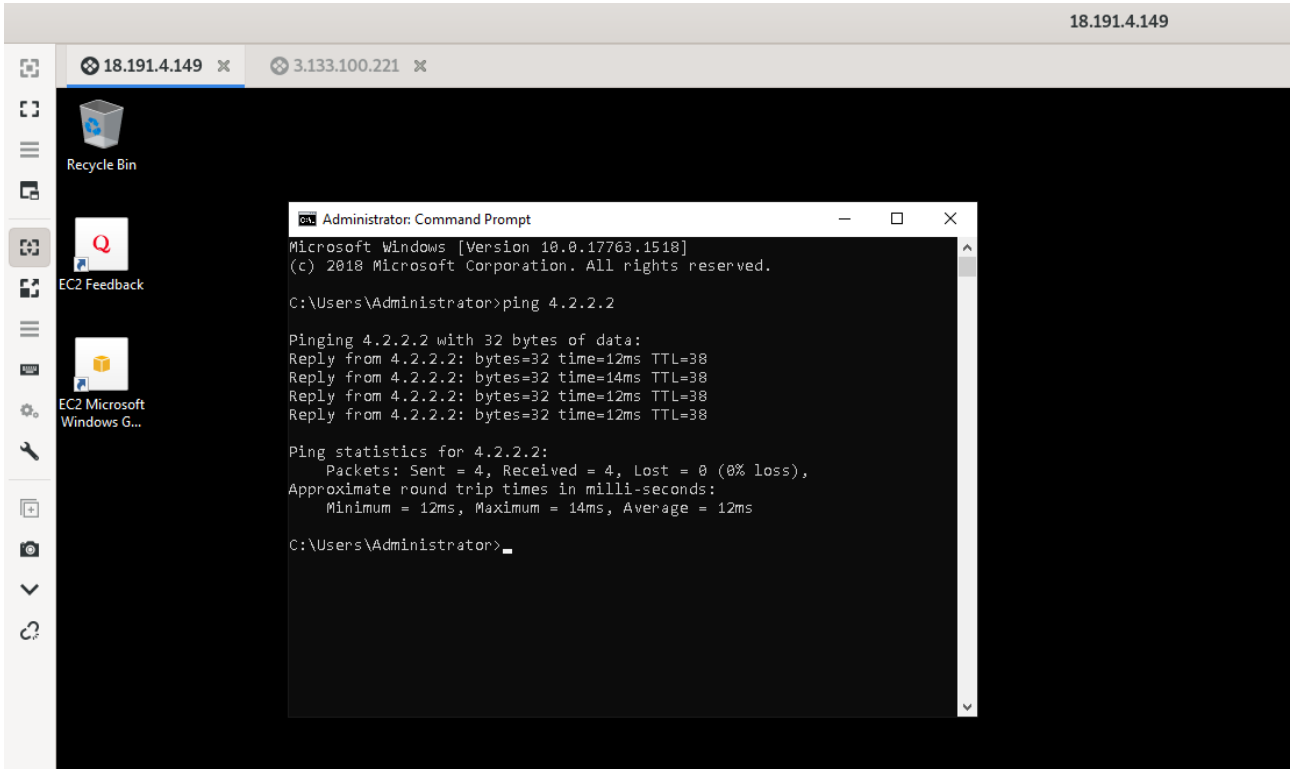
b. Subnet02



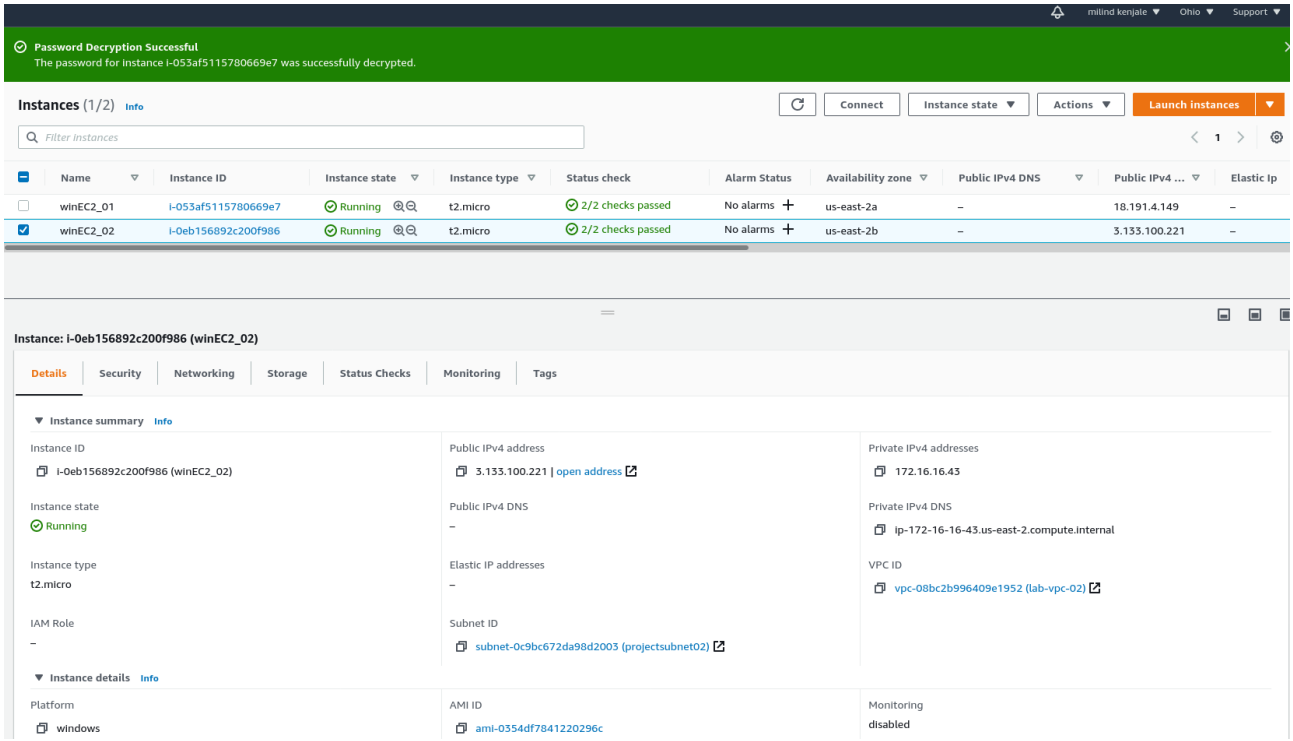
SS5: Instance Details

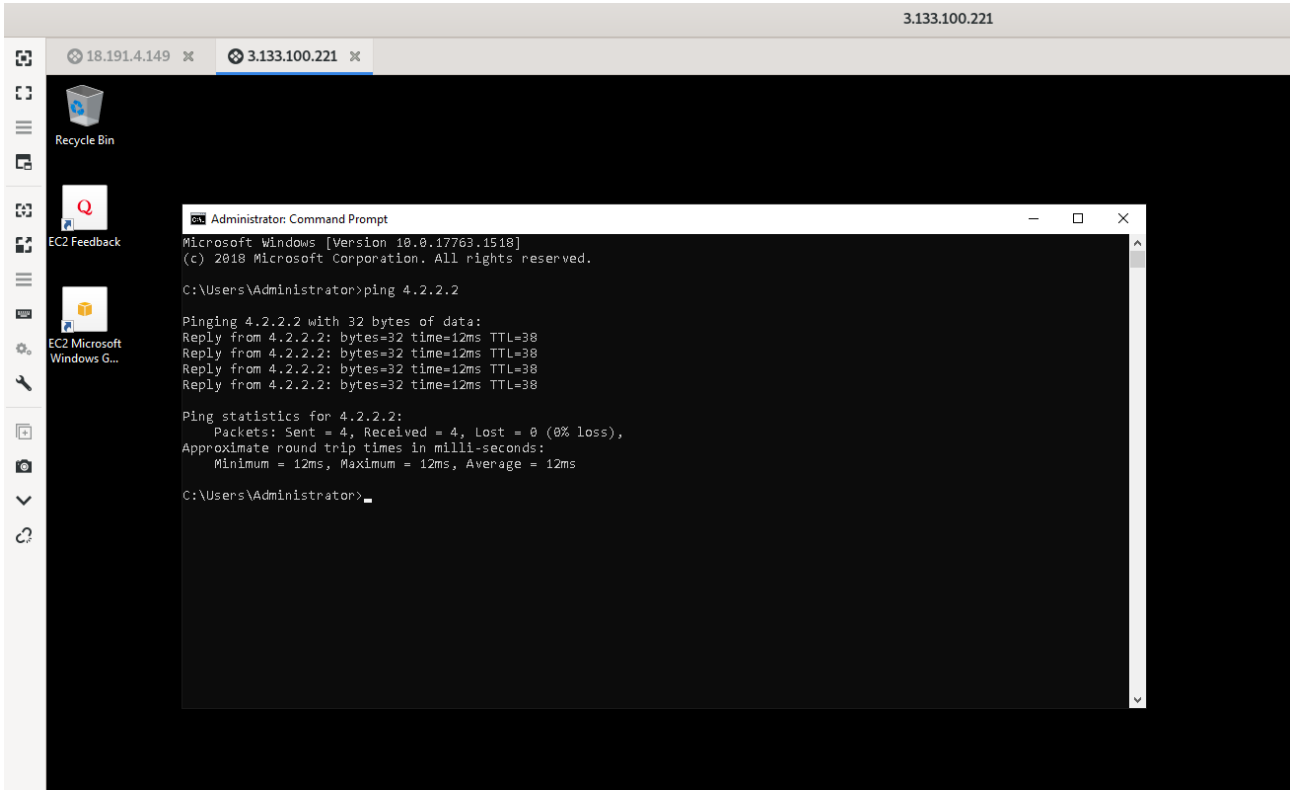
a. EC2 instance01


milind kenjale
Ohio
Support
Password Decryption Successful
The password for instance i-053af5115780669e7 was successfully decrypted.
Instances (1/2) Info
Connect
Instance state
Actions
Launch instances
Filter instances
Name
Instance ID
Instance state
Instance type
Status check
Alarm Status
Availability zone
Public IPv4 DNS
Public IPv4 ...
Elastic Ip
winEC2_01
i-053af5115780669e7
Running
t2.micro
2/2 checks passed
No alarms
us-east-2a
18.191.4.149
winEC2_02
i-0eb156892c200f986
Running
t2.micro
2/2 checks passed
No alarms
us-east-2b
3.133.100.221
Instance: i-053af5115780669e7 (winEC2_01)
Details
Security
Networking
Storage
Status Checks
Monitoring
Tags
Instance summary Info
Instance ID
i-053af5115780669e7 (winEC2_01)
Public IPv4 address
18.191.4.149 | open address
Private IPv4 addresses
172.19.19.99
Instance state
Running
Public IPv4 DNS
Private IPv4 DNS
ip-172-19-19-99.us-east-2.compute.internal
Instance type
t2.micro
Elastic IP addresses
VPC ID
vpc-0c4d80743b459c685 (lab-vpc-01)
IAM Role
Subnet ID
subnet-028fc463720524b5c (projectsubnet01)
Instance details Info
Platform
windows
AMI ID
ami-0354df7841220296c
Monitoring
disabled


18.191.4.149
18.191.4.149
3.133.100.221
Recycle Bin
EC2 Feedback
EC2 Microsoft Windows G...
Administrator: Command Prompt
Microsoft Windows [Version 10.0.17763.1518]
(c) 2018 Microsoft Corporation. All rights reserved.
C:\Users\Administrator>ping 4.2.2.2
Pinging 4.2.2.2 with 32 bytes of data:
Reply from 4.2.2.2: bytes=32 time=12ms TTL=38
Reply from 4.2.2.2: bytes=32 time=14ms TTL=38
Reply from 4.2.2.2: bytes=32 time=12ms TTL=38
Reply from 4.2.2.2: bytes=32 time=12ms TTL=38
Ping statistics for 4.2.2.2:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 12ms, Maximum = 14ms, Average = 12ms
C:\Users\Administrator>

b. EC2 instance02

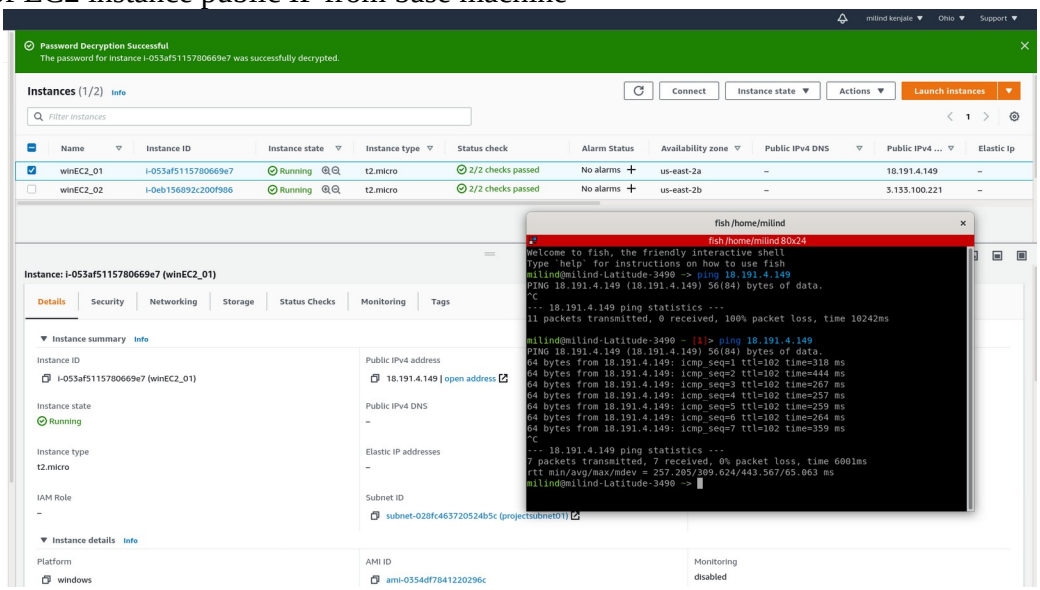




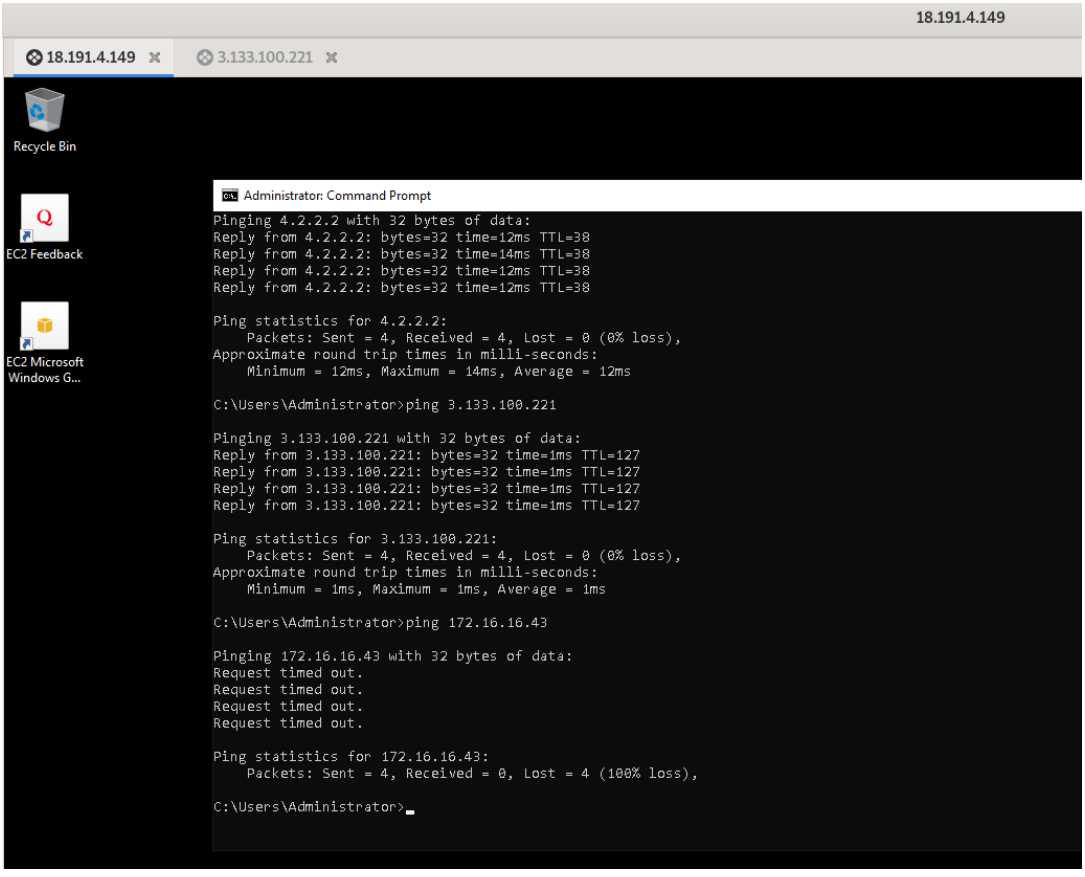
SS6: Success public, rto private IP

a. Ping of EC2 instance01

a.1 ping of EC2 instance public IP from base machine

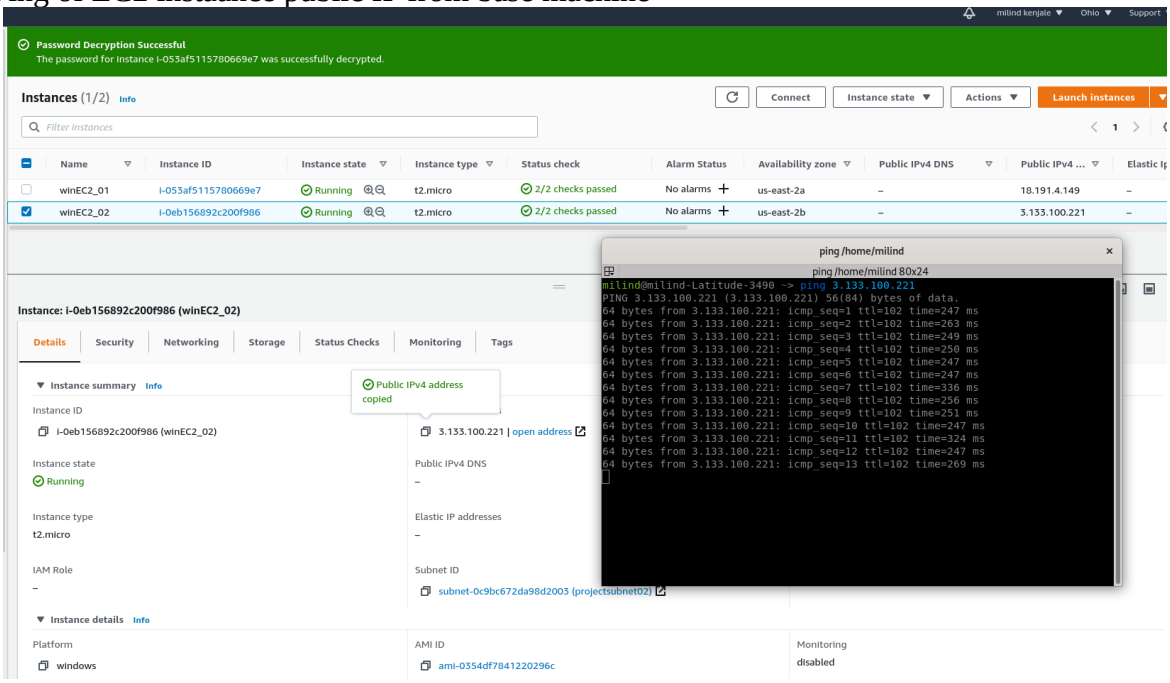


a.2 Ping of EC2instance02 from Ecinstance01
*Public IP success
*Private IP failed

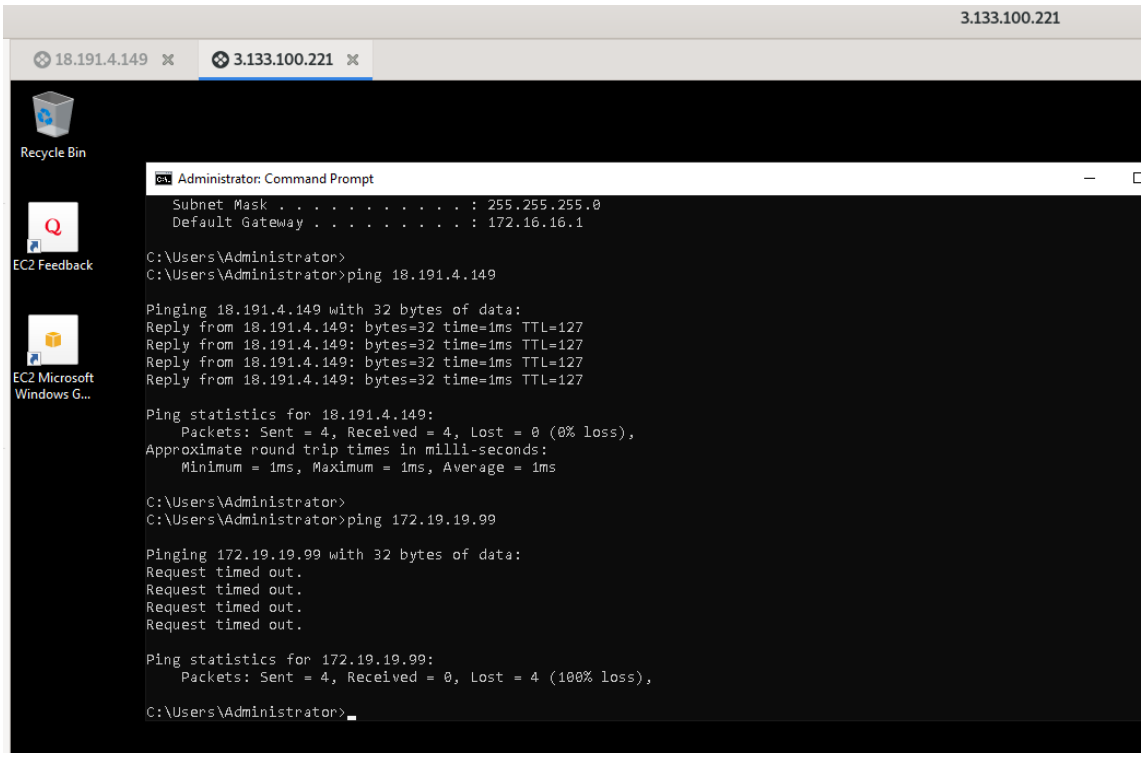


b. Ping of EC2 instance02

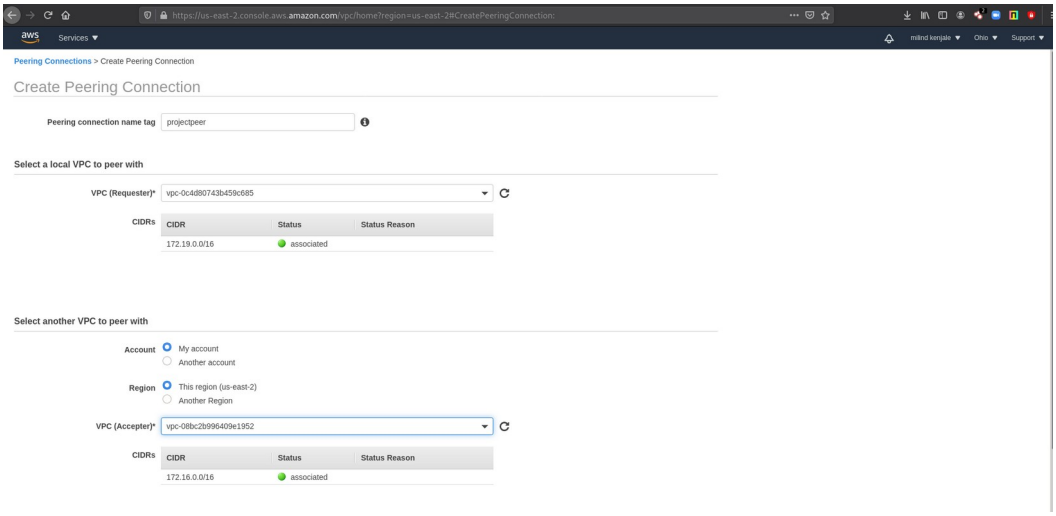
b.1 Ping of EC2 instaance public IP from base machine

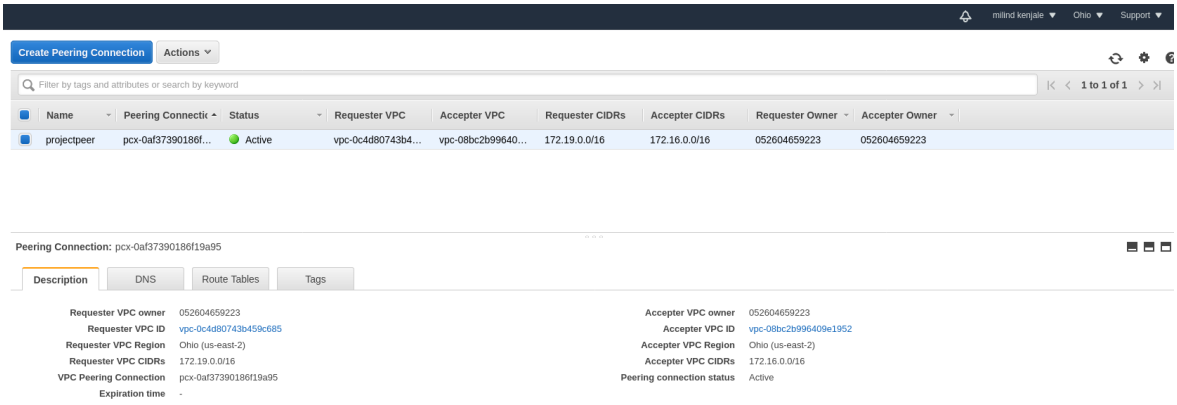


b.2 Ping of EC2instance01 from EC2instance02
*Public IP success
*Private IP failed

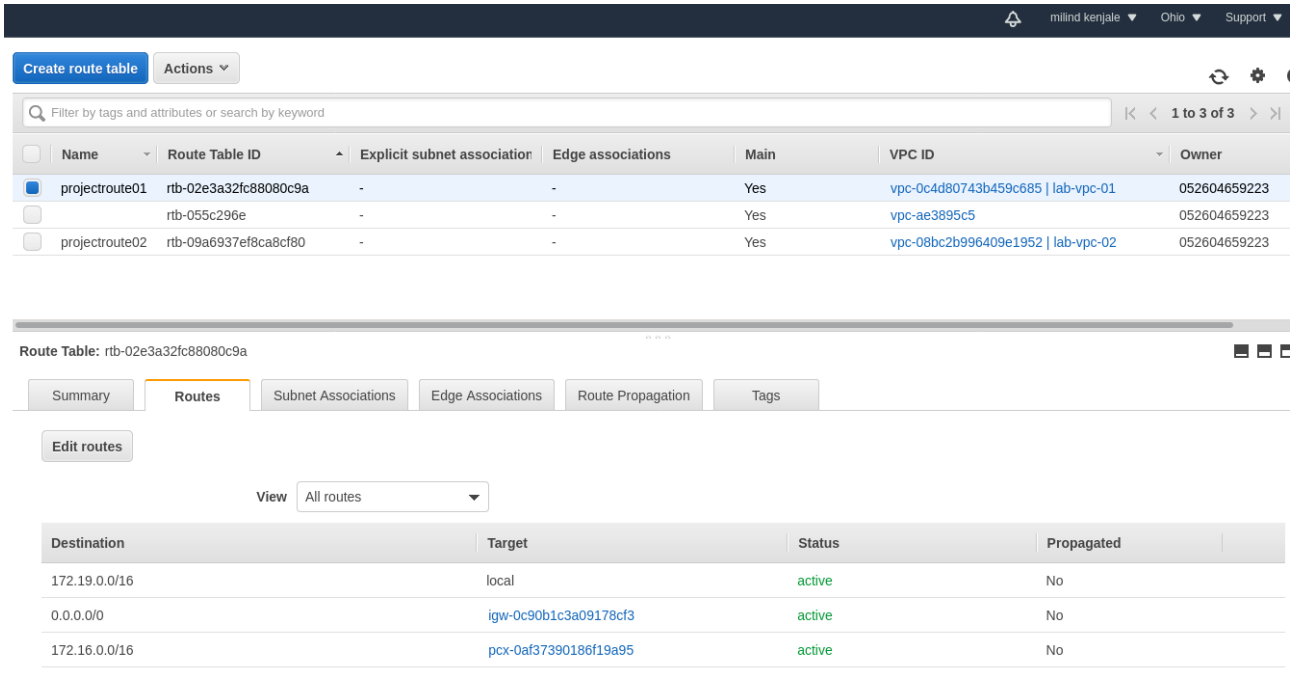


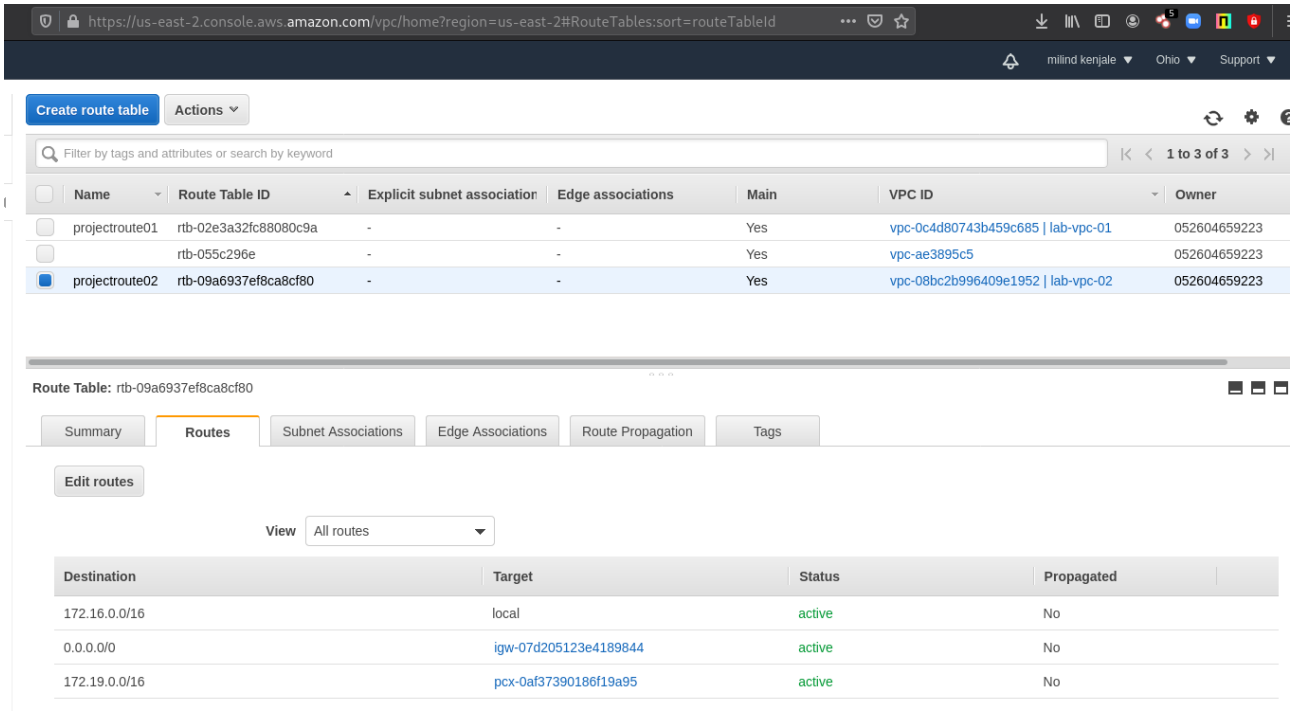
SS7: Peering with required and Acceptor



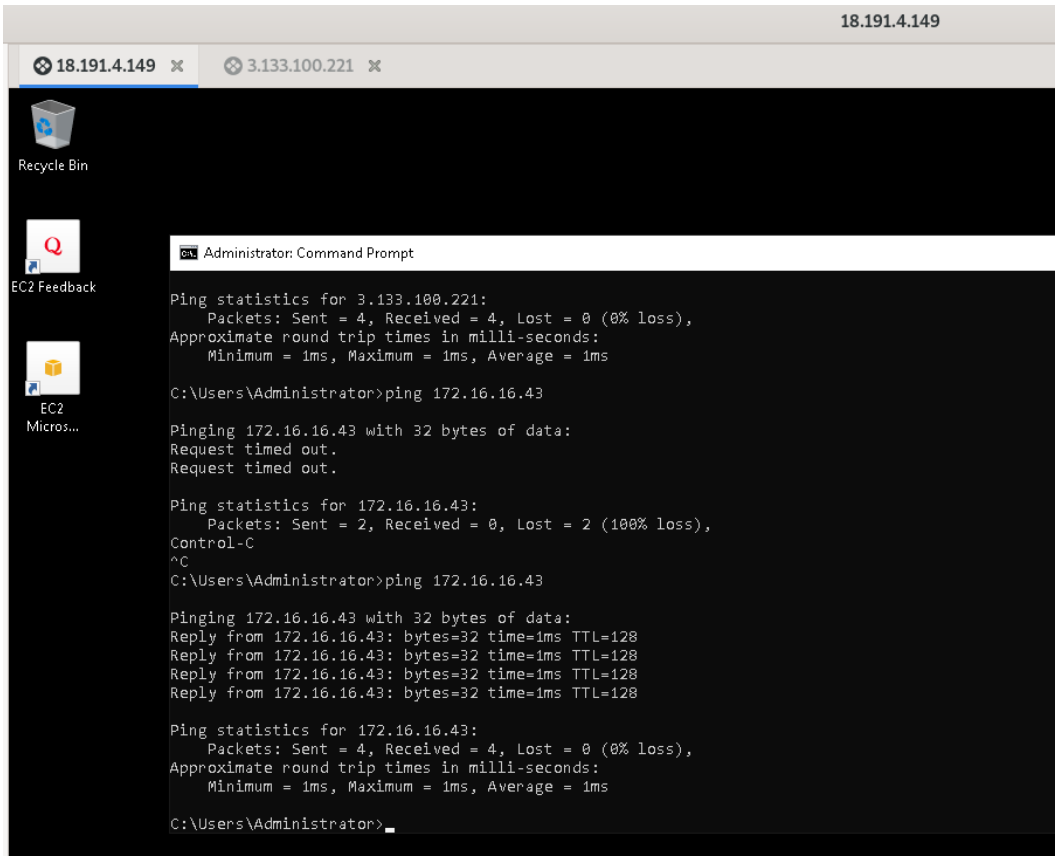


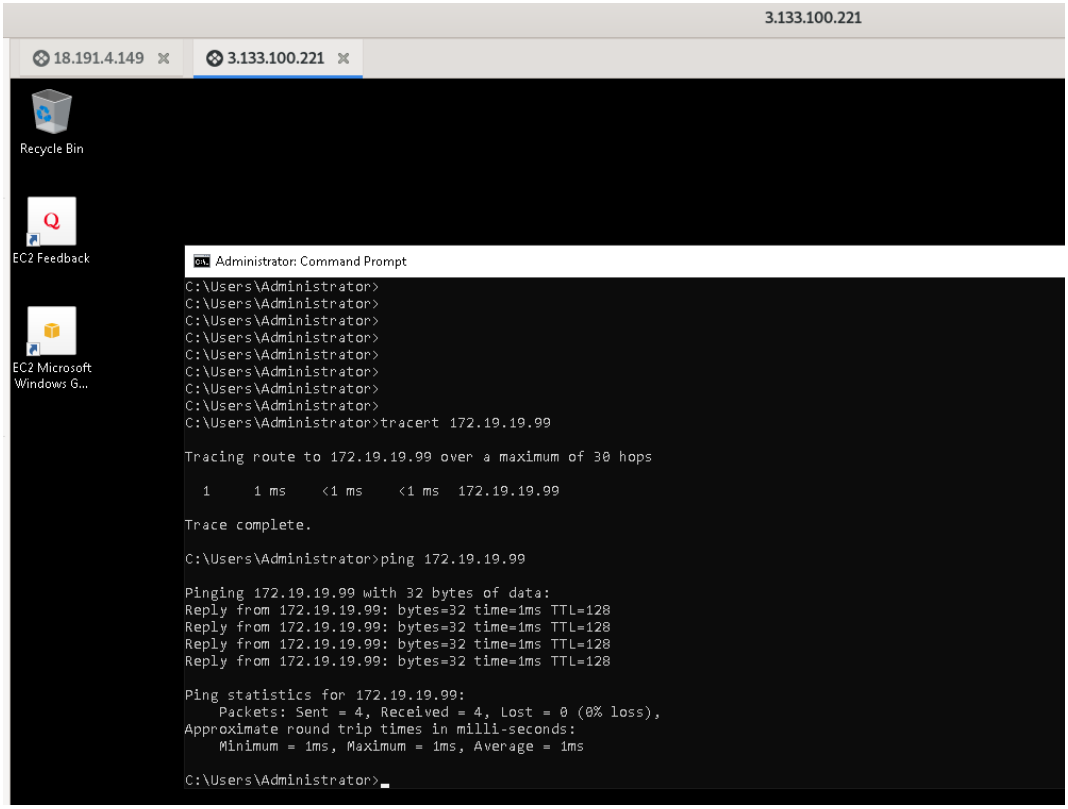
Routes added in both the route tables

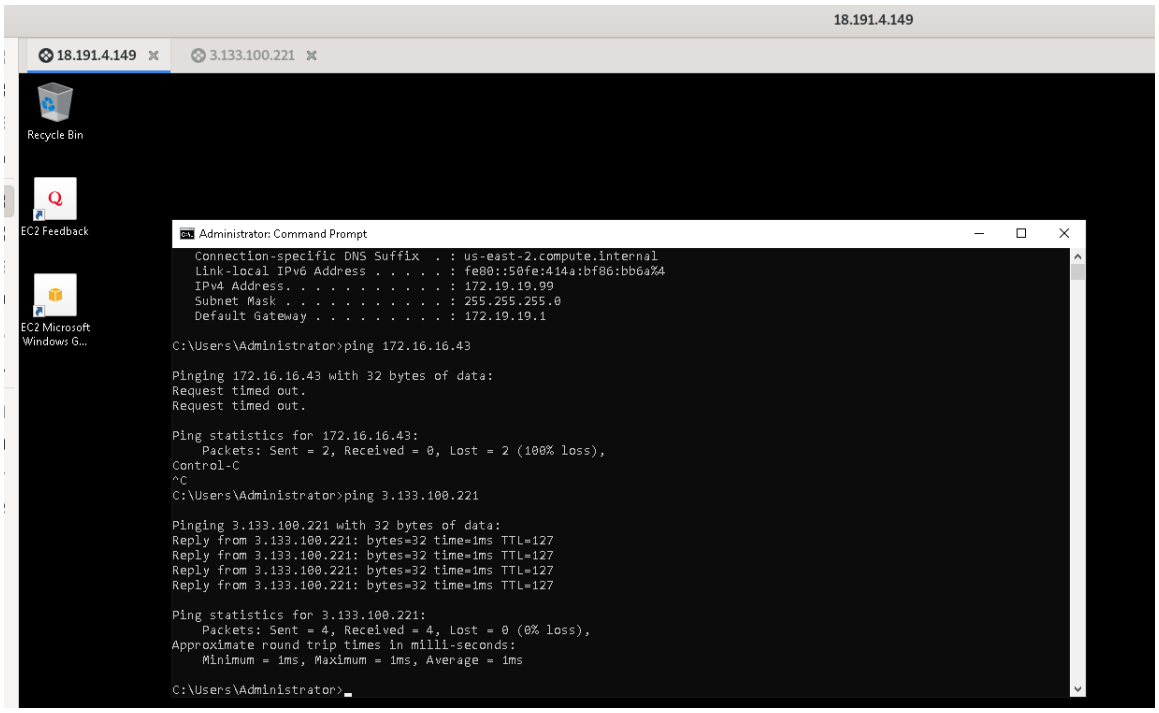


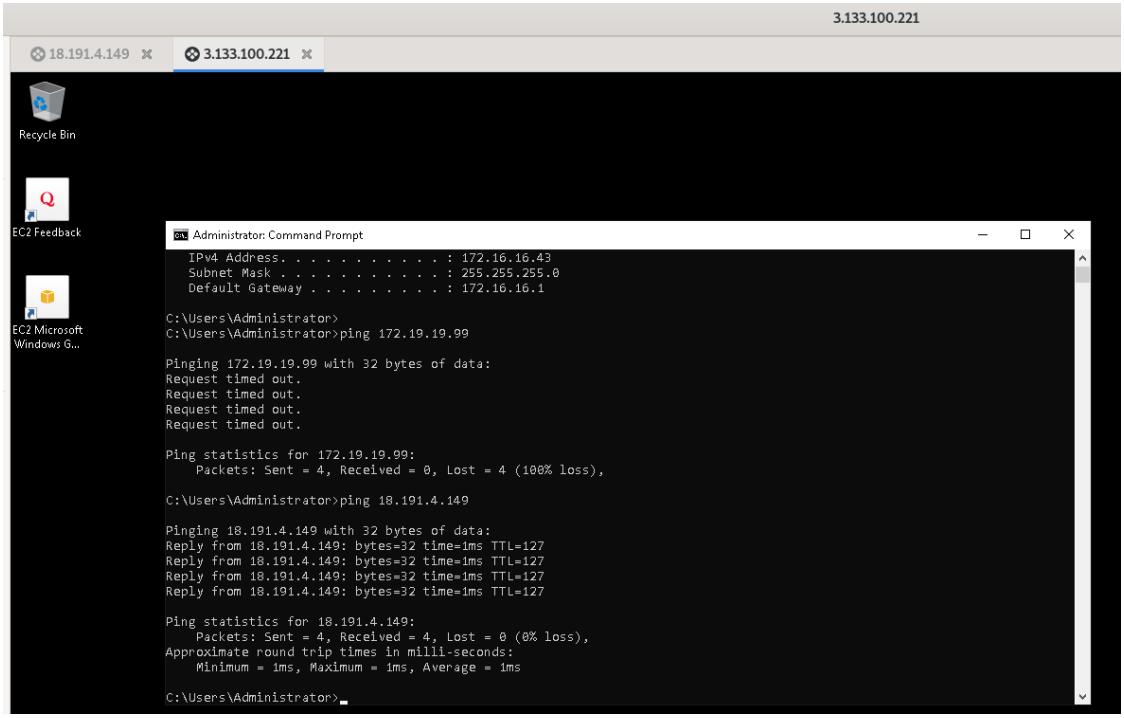


SS8: Success of private IP




3.133.100.221
18.191.4.149
3.133.100.221
Recycle Bin
EC2 Feedback
EC2 Microsoft Windows G...
Administrator: Command Prompt
C:\Users\Administrator>
C:\Users\Administrator>
C:\Users\Administrator>
C:\Users\Administrator>
C:\Users\Administrator>
C:\Users\Administrator>
C:\Users\Administrator>
C:\Users\Administrator>
C:\Users\Administrator>tracert 172.19.19.99
Tracing route to 172.19.19.99 over a maximum of 30 hops
1 1 ms <1 ms <1 ms 172.19.19.99
Trace complete.
C:\Users\Administrator>ping 172.19.19.99
Pinging 172.19.19.99 with 32 bytes of data:
Reply from 172.19.19.99: bytes=32 time=1ms TTL=128
Reply from 172.19.19.99: bytes=32 time=1ms TTL=128
Reply from 172.19.19.99: bytes=32 time=1ms TTL=128
Reply from 172.19.19.99: bytes=32 time=1ms TTL=128
Ping statistics for 172.19.19.99:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 1ms, Maximum = 1ms, Average = 1ms
C:\Users\Administrator>


18.191.4.149
18.191.4.149
3.133.100.221
Recycle Bin
EC2 Feedback
EC2 Microsoft Windows G...
Administrator: Command Prompt
Connection-specific DNS Suffix . : us-east-2.compute.internal
Link-local IPv6 Address . . . . . : fe80::50fe:414a:bf86:bb6a%4
IPv4 Address. . . . . : 172.19.19.99
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . : 172.19.19.1
C:\Users\Administrator>ping 172.16.16.43
Pinging 172.16.16.43 with 32 bytes of data:
Request timed out.
Request timed out.
Ping statistics for 172.16.16.43:
Packets: Sent = 2, Received = 0, Lost = 2 (100% loss),
Control-C
^C
C:\Users\Administrator>ping 3.133.100.221
Pinging 3.133.100.221 with 32 bytes of data:
Reply from 3.133.100.221: bytes=32 time=1ms TTL=127
Reply from 3.133.100.221: bytes=32 time=1ms TTL=127
Reply from 3.133.100.221: bytes=32 time=1ms TTL=127
Reply from 3.133.100.221: bytes=32 time=1ms TTL=127
Ping statistics for 3.133.100.221:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 1ms, Maximum = 1ms, Average = 1ms
C:\Users\Administrator>



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Project 2 week 4: IAM

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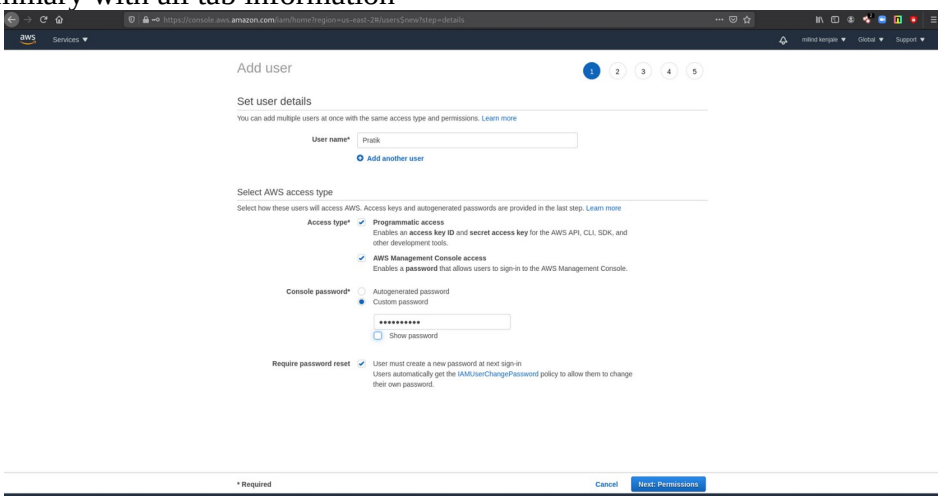
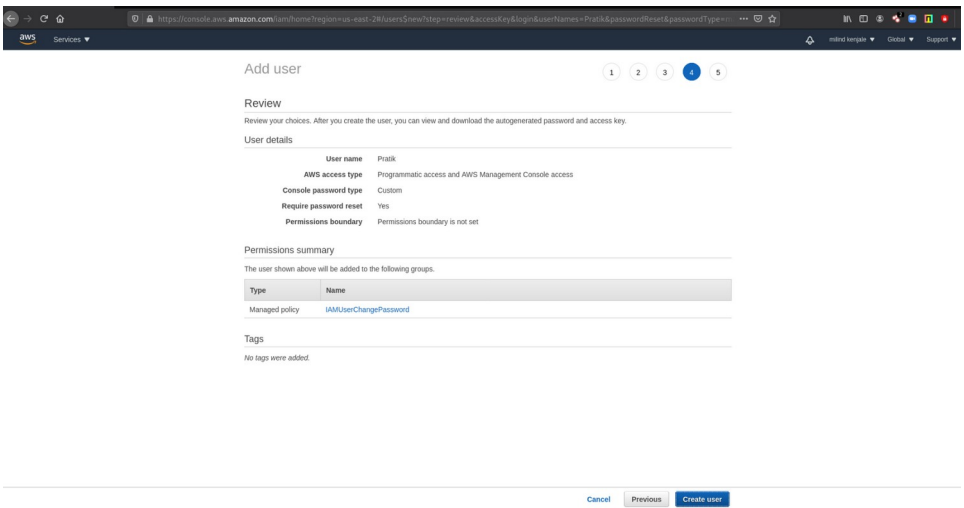
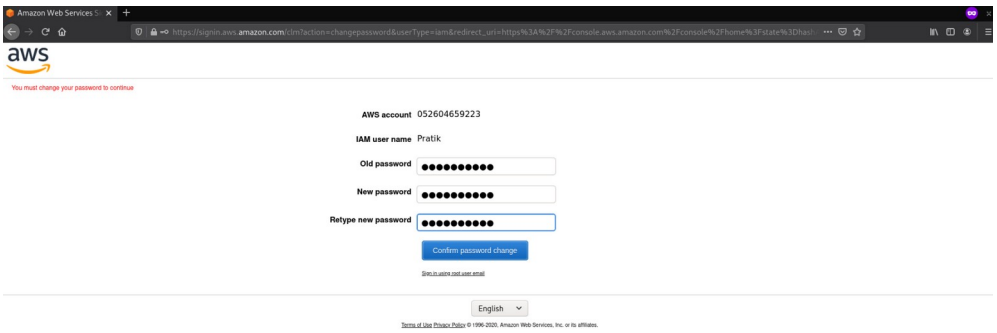
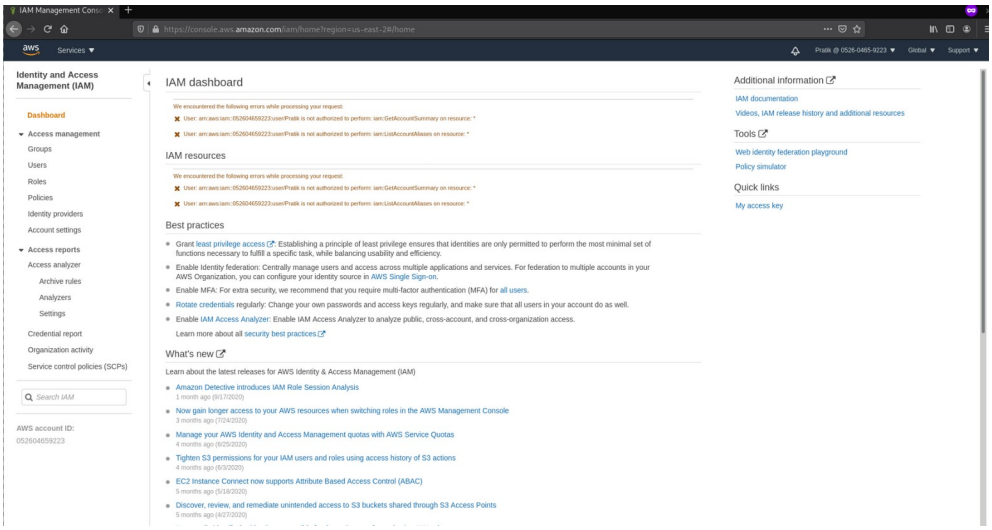
Task1 Creating user without permissions – IAM password policy check

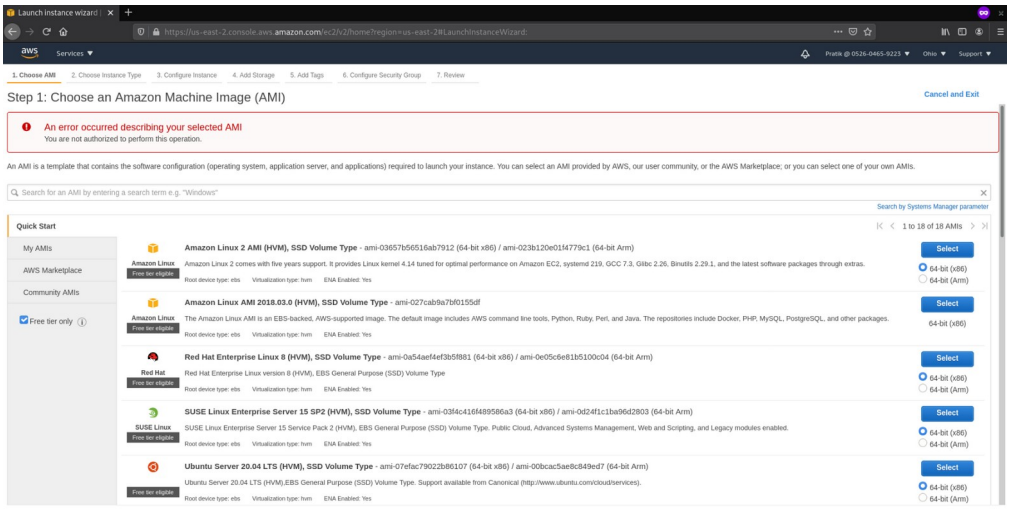
SS1: User summary with all tab information

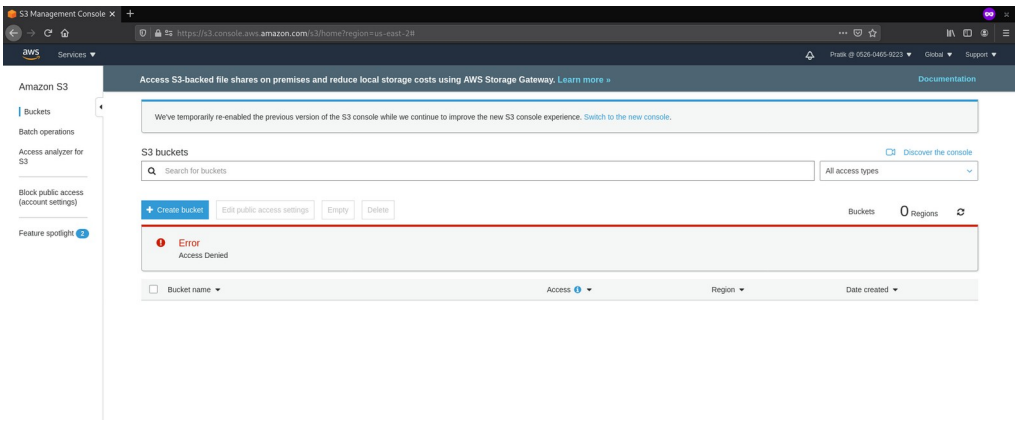





Amazon Web Services S
https://signin.aws.amazon.com/
aws
You must change your password to continue
AWS account 052604659223
IAM user name Pratik
Old password
New password
Retype new password
Confirm password change
Sign in using root user email
English
Terms of Use Privacy Policy © 1996-2020, Amazon Web Services, Inc. or its affiliates.

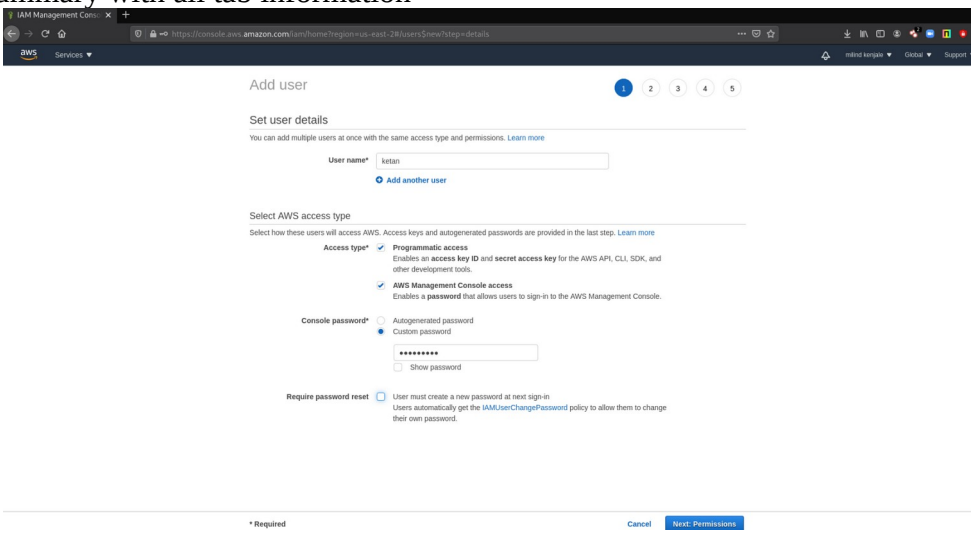

IAM Management Consc
https://console.aws.amazon.com/iam/home?region=us-east-2#/home
Services
Pratik @ 0526-0465-9223
Global
Support
Identity and Access Management (IAM)
Dashboard
Access management
Groups
Users
Roles
Policies
Identity providers
Account settings
Access reports
Access analyzer
Archive rules
Analyzers
Settings
Credential report
Organization activity
Service control policies (SCPs)
Search IAM
AWS account ID:
052604659223
IAM dashboard
We encountered the following errors while processing your request:
User: arn:aws:iam::052604659223:user/Pratik is not authorized to perform: iam:GetAccountSummary on resource: *
User: arn:aws:iam::052604659223:user/Pratik is not authorized to perform: iam:ListAccountAliases on resource: *
IAM resources
We encountered the following errors while processing your request:
User: arn:aws:iam::052604659223:user/Pratik is not authorized to perform: iam:GetAccountSummary on resource: *
User: arn:aws:iam::052604659223:user/Pratik is not authorized to perform: iam:ListAccountAliases on resource: *
Best practices
Grant least privilege access: Establishing a principle of least privilege ensures that identities are only permitted to perform the most minimal set of functions necessary to fulfill a specific task, while balancing usability and efficiency.
Enable identity federation: Centrally manage users and access across multiple applications and services. For federation to multiple accounts in your AWS Organization, you can configure your identity source in AWS Single Sign-on.
Enable MFA: For extra security, we recommend that you require multi-factor authentication (MFA) for all users.
Rotate credentials regularly: Change your own passwords and access keys regularly, and make sure that all users in your account do as well.
Enable IAM Access Analyzer: Enable IAM Access Analyzer to analyze public, cross-account, and cross-organization access.
Learn more about all security best practices
What's new
Learn about the latest releases for AWS Identity & Access Management (IAM)
Amazon Detective introduces IAM Role Session Analysis
1 month ago (9/17/2020)
Now gain longer access to your AWS resources when switching roles in the AWS Management Console
3 months ago (7/24/2020)
Manage your AWS Identity and Access Management quotas with AWS Service Quotas
4 months ago (6/25/2020)
Tighten S3 permissions for your IAM users and roles using access history of S3 actions
4 months ago (6/3/2020)
EC2 Instance Connect now supports Attribute Based Access Control (ABAC)
5 months ago (5/18/2020)
Discover, review, and remediate unintended access to S3 buckets shared through S3 Access Points
5 months ago (4/27/2020)
Additional information
IAM documentation
Videos, IAM release history and additional resources
Tools
Web identity federation playground
Policy simulator
Quick links
My access key

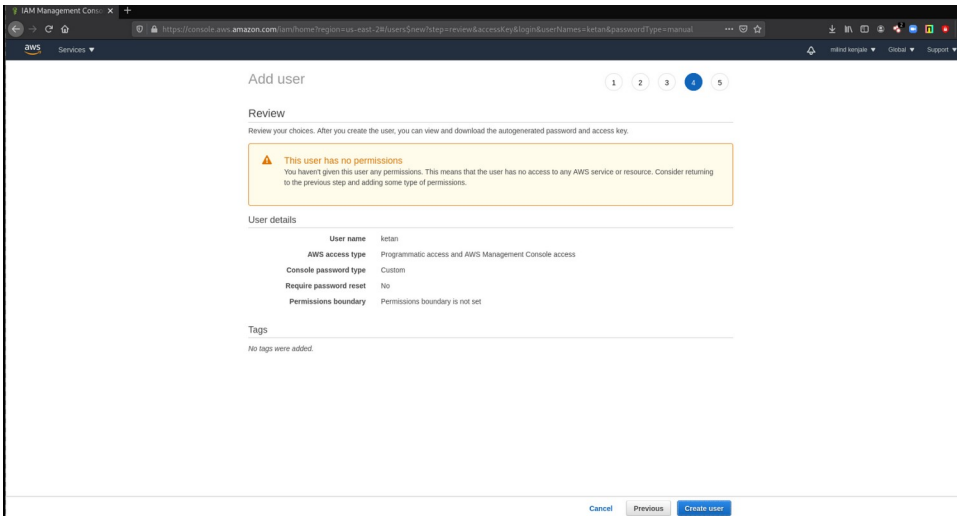

Launch instance wizard
https://us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#LaunchInstanceWizard:
Services
Pratik @ 0526-0465-9223
Ohio
Support
1. Choose AMI
2. Choose Instance Type
3. Configure Instance
4. Add Storage
5. Add Tags
6. Configure Security Group
7. Review
Step 1: Choose an Amazon Machine Image (AMI)
Cancel and Exit
An error occurred describing your selected AMI
You are not authorized to perform this operation.
An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. You can select an AMI provided by AWS, our user community, or the AWS Marketplace; or you can select one of your own AMIs.
Search for an AMI by entering a search term e.g. "Windows"
Search by Systems Manager parameter
Quick Start
1 to 18 of 18 AMIs
My AMIs
AWS Marketplace
Community AMIs
Free tier only
Amazon Linux 2 AMI (HVM), SSD Volume Type - ami-03657b56516ab7912 (64-bit x86) / ami-023b120e01f4779c1 (64-bit Arm)
Amazon Linux 2 comes with five years support. It provides Linux kernel 4.14 tuned for optimal performance on Amazon EC2, systemd 219, GCC 7.3, Glibc 2.26, Binutils 2.29.1, and the latest software packages through extras.
Root device type: ebs Virtualization type: hvm ENA Enabled: Yes
Select
64-bit (x86)
64-bit (Arm)
Amazon Linux AMI 2018.03.0 (HVM), SSD Volume Type - ami-027cab9a7bf0155df
The Amazon Linux AMI is an EBS-backed, AWS-supported image. The default image includes AWS command line tools, Python, Ruby, Perl, and Java. The repositories include Docker, PHP, MySQL, PostgreSQL, and other packages.
Root device type: ebs Virtualization type: hvm ENA Enabled: Yes
Select
64-bit (x86)
Red Hat Enterprise Linux 8 (HVM), SSD Volume Type - ami-0a54aef4ef3b5f881 (64-bit x86) / ami-0e05c6e81b5100c04 (64-bit Arm)
Red Hat Enterprise Linux version 8 (HVM), EBS General Purpose (SSD) Volume Type
Root device type: ebs Virtualization type: hvm ENA Enabled: Yes
Select
64-bit (x86)
64-bit (Arm)
SUSE Linux Enterprise Server 15 SP2 (HVM), SSD Volume Type - ami-03f4c416f489586a3 (64-bit x86) / ami-0d24f1c1ba96d2803 (64-bit Arm)
SUSE Linux Enterprise Server 15 Service Pack 2 (HVM), EBS General Purpose (SSD) Volume Type. Public Cloud, Advanced Systems Management, Web and Scripting, and Legacy modules enabled.
Root device type: ebs Virtualization type: hvm ENA Enabled: Yes
Select
64-bit (x86)
64-bit (Arm)
Ubuntu Server 20.04 LTS (HVM), SSD Volume Type - ami-07efac79022b86107 (64-bit x86) / ami-00bcac5ae8c849ed7 (64-bit Arm)
Ubuntu Server 20.04 LTS (HVM),EBS General Purpose (SSD) Volume Type. Support available from Canonical (http://www.ubuntu.com/cloud/services).
Root device type: ebs Virtualization type: hvm ENA Enabled: Yes
Select
64-bit (x86)
64-bit (Arm)

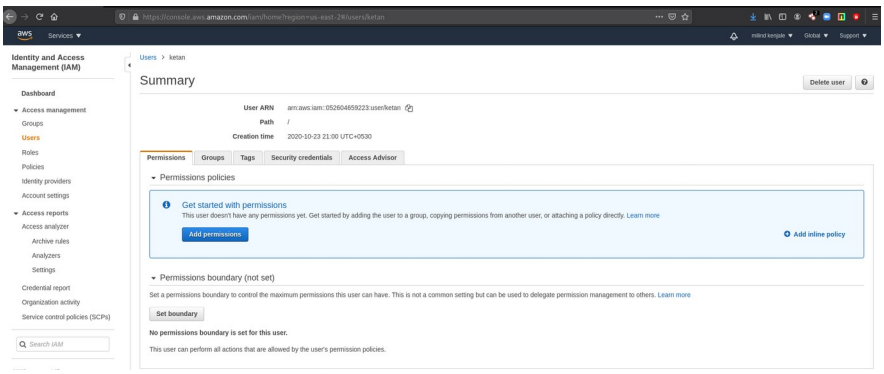


Task2 Creating user without IAM password policy

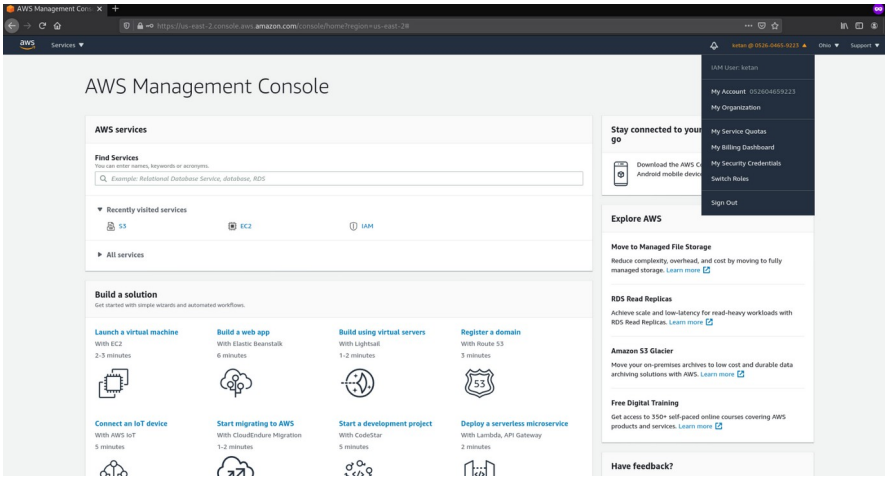
SS2: User summary with all tab information



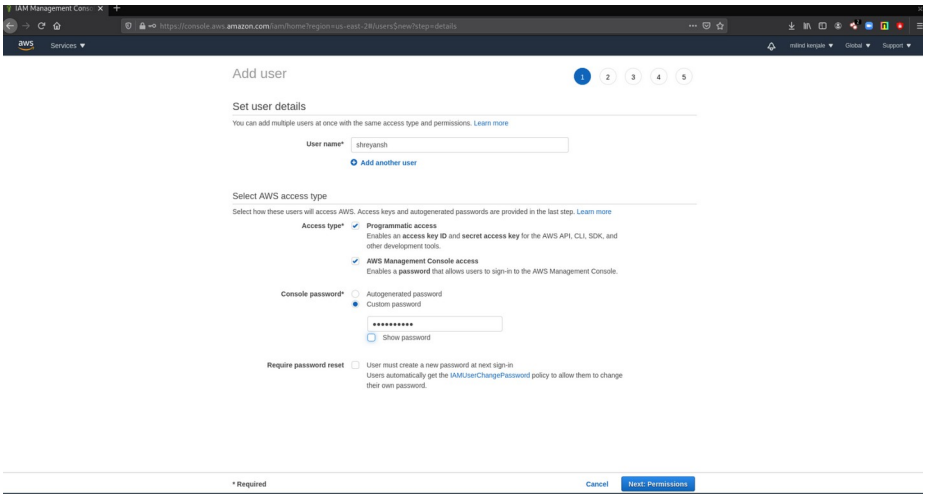


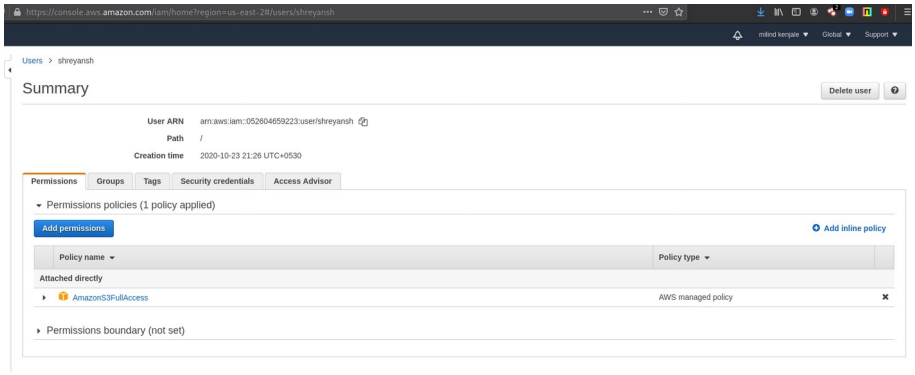


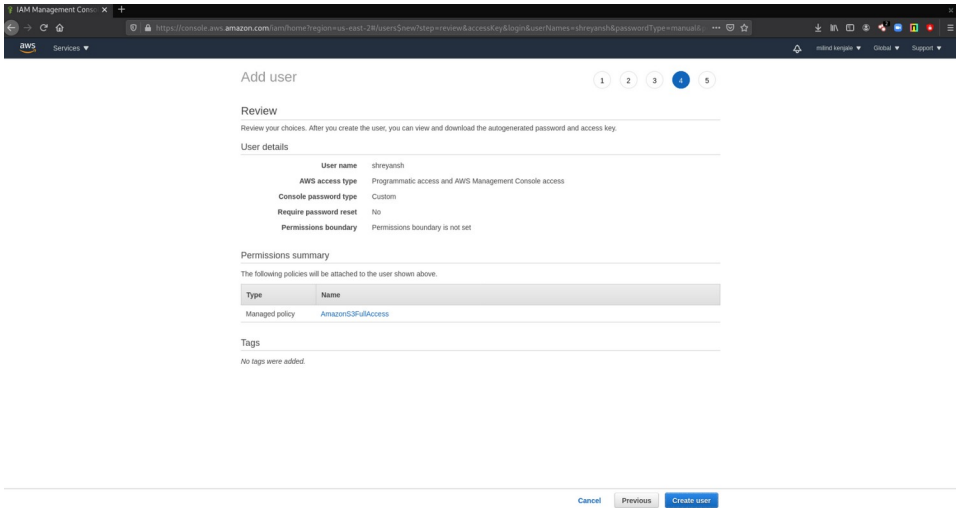
It did not asked for password chang as we have unchecked the password policy

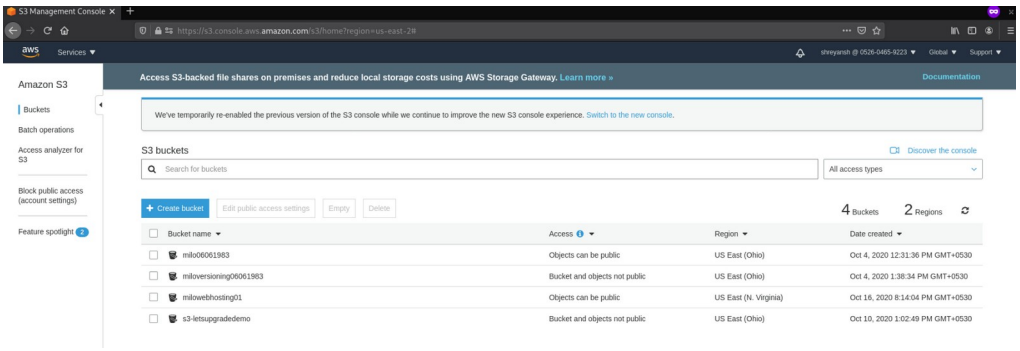


Task3 Create a user with S3 full access
SS3: User summary

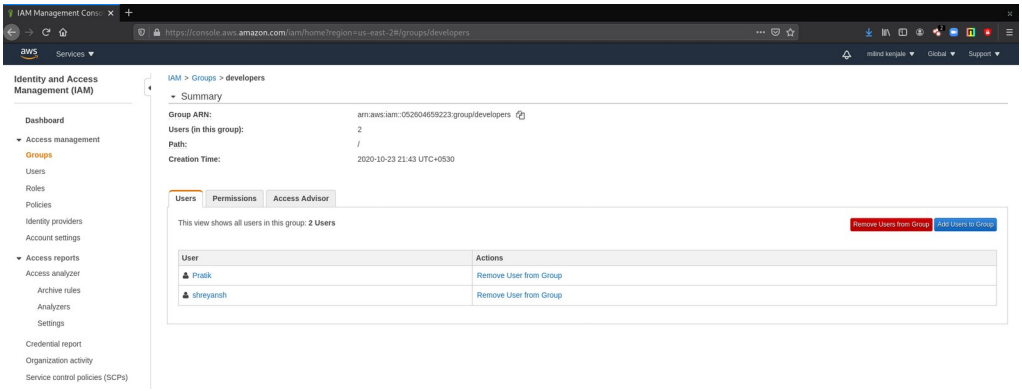


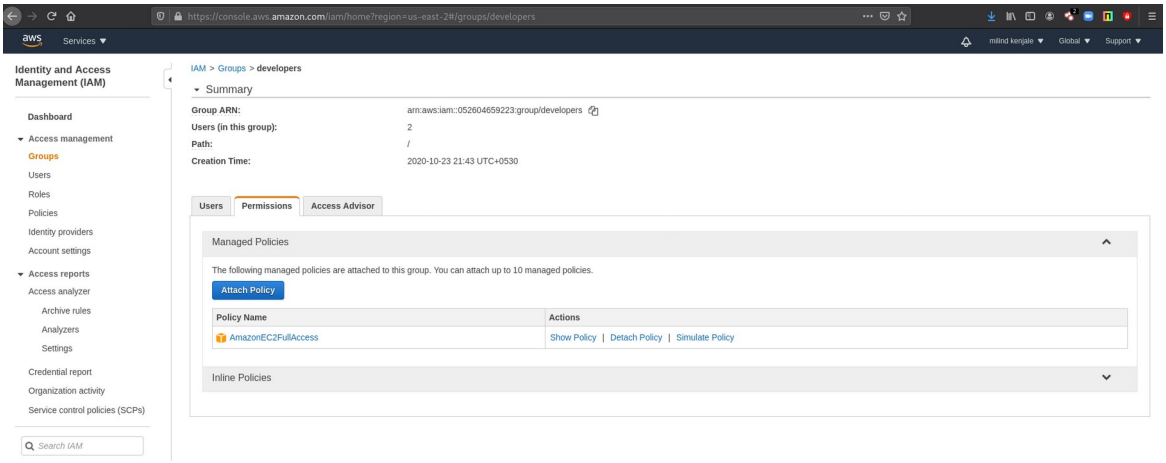

https://console.aws.amazon.com/iam/home?region=us-east-2#/users/shreyansh
milind kenjale
Global
Support
Users > shreyansh
Summary
Delete user
User ARN
arn:aws:iam::052604659223:user/shreyansh
Path
/
Creation time
2020-10-23 21:26 UTC+0530
Permissions
Groups
Tags
Security credentials
Access Advisor
Permissions policies (1 policy applied)
Add permissions
Add inline policy
Policy name
Policy type
Attached directly
AmazonS3FullAccess
AWS managed policy
Permissions boundary (not set)


IAM Management Cons
https://console.aws.amazon.com/iam/home?region=us-east-2#/users$new?step=review&accessKey&login&userNames=shreyansh&passwordType=manual&
Services
milind kenjale
Global
Support
Add user
1
2
3
4
5
Review
Review your choices. After you create the user, you can view and download the autogenerated password and access key.
User details
User name
shreyansh
AWS access type
Programmatic access and AWS Management Console access
Console password type
Custom
Require password reset
No
Permissions boundary
Permissions boundary is not set
Permissions summary
The following policies will be attached to the user shown above.
Type
Name
Managed policy
AmazonS3FullAccess
Tags
No tags were added.
Cancel
Previous
Create user

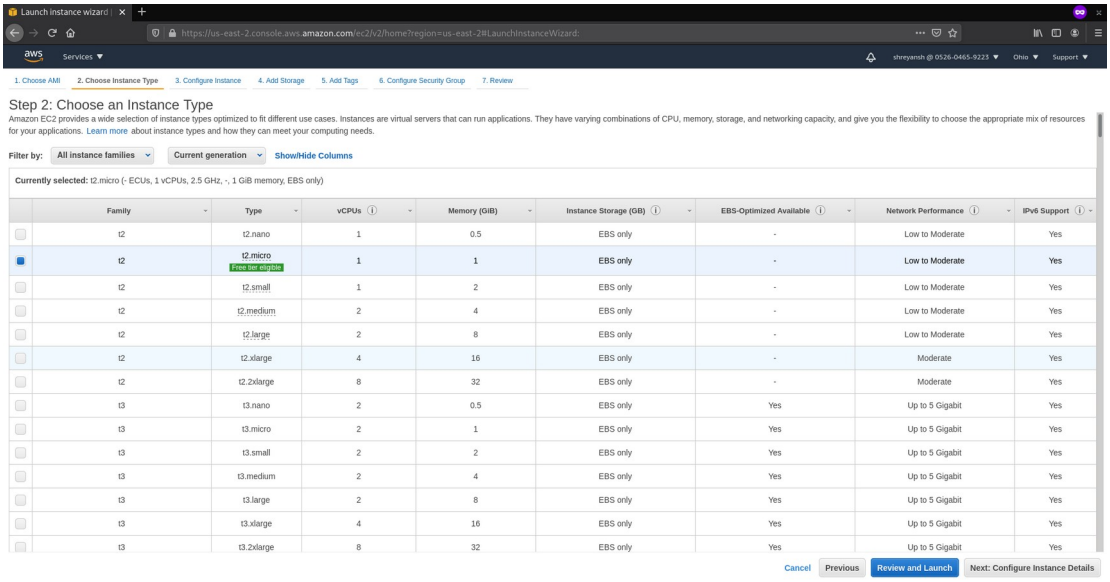

S3 Management Console
https://s3.console.aws.amazon.com/s3/home?region=us-east-2#
Services
shreyansh @ 0526-0465-8223
Global
Support
Amazon S3
Buckets
Batch operations
Access analyzer for S3
Block public access (account settings)
Feature spotlight
2
Access S3-backed file shares on premises and reduce local storage costs using AWS Storage Gateway. Learn more »
Documentation
We've temporarily re-enabled the previous version of the S3 console while we continue to improve the new S3 console experience. Switch to the new console.
S3 buckets
Discover the console
Search for buckets
All access types
Create bucket
Edit public access settings
Empty
Delete
4 Buckets
2 Regions
Bucket name
Access
Region
Date created
milo06061983
Objects can be public
US East (Ohio)
Oct 4, 2020 12:31:36 PM GMT+0530
miloversioning06061983
Bucket and objects not public
US East (Ohio)
Oct 4, 2020 1:38:34 PM GMT+0530
milowebhosting01
Objects can be public
US East (N. Virginia)
Oct 16, 2020 8:14:04 PM GMT+0530
s3-letsupgradedemo
Bucket and objects not public
US East (Ohio)
Oct 10, 2020 1:02:49 PM GMT+0530

Task4 Create a group with EC2 full access
SS3: User summary

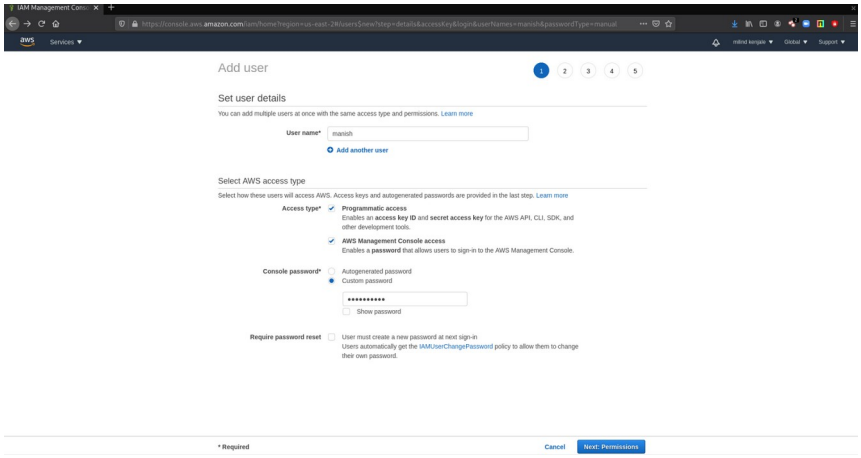


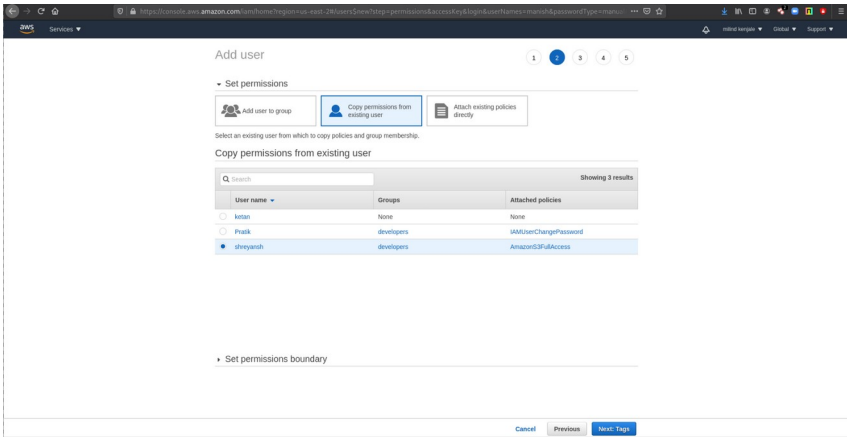


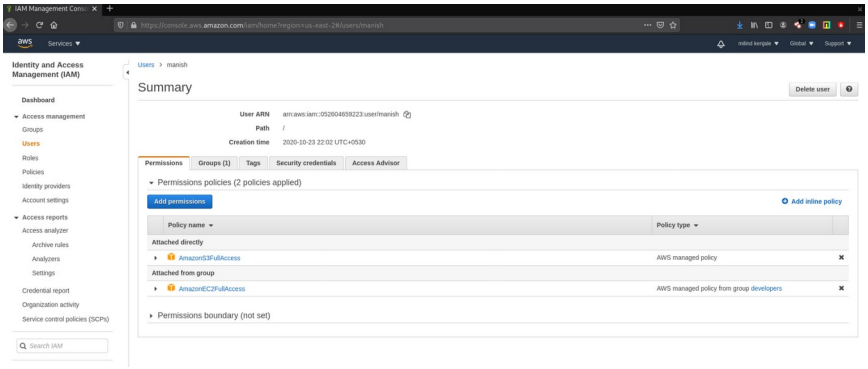
Now user has access to EC2 full access also

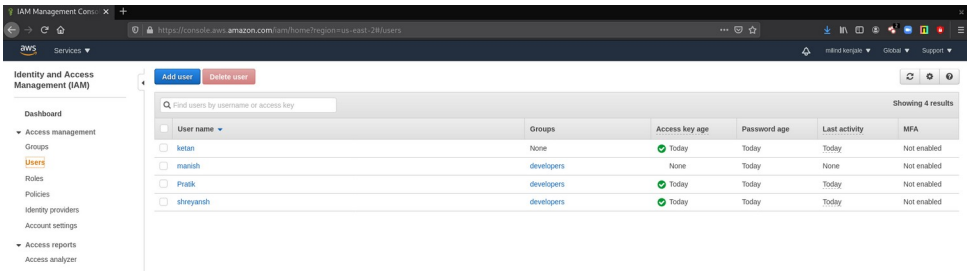


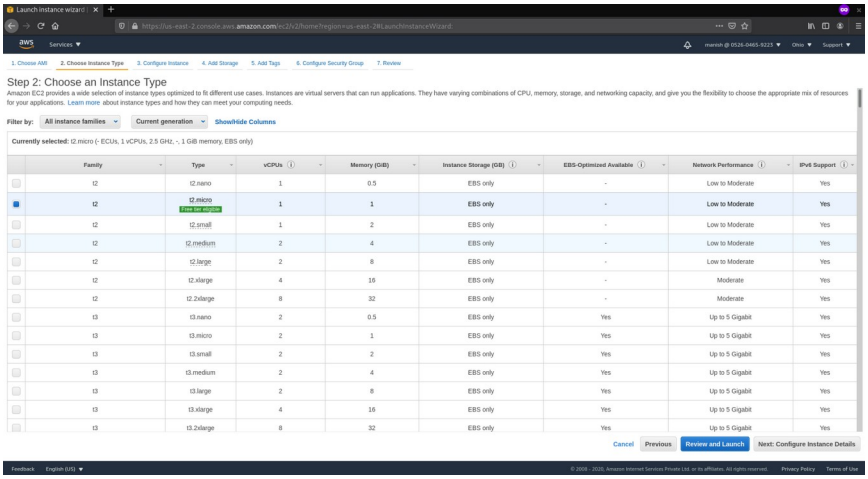
Task5: Add user to a group and check if user policy and group policy is reflecting on the user
SS5: User summary with permissions

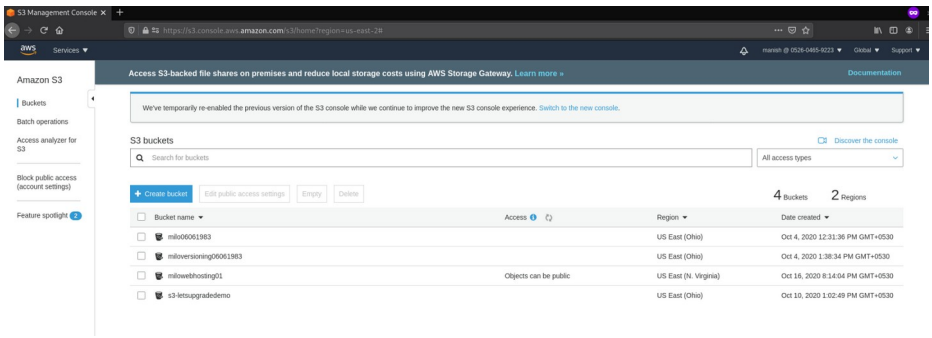




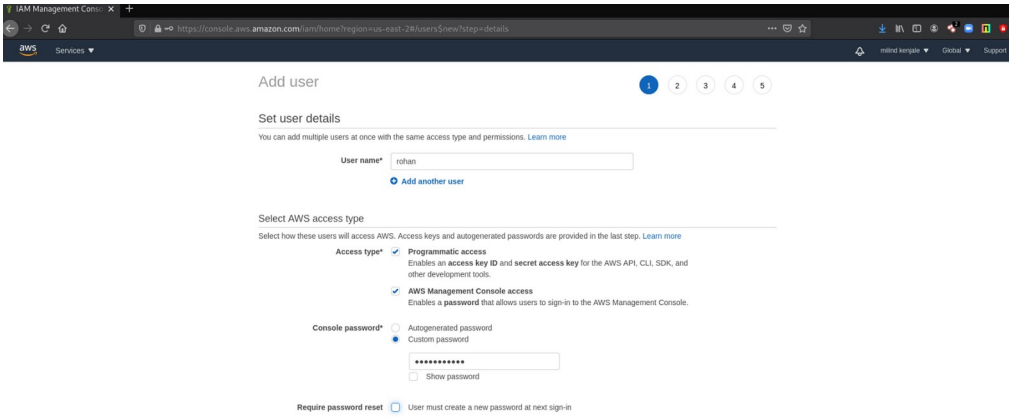


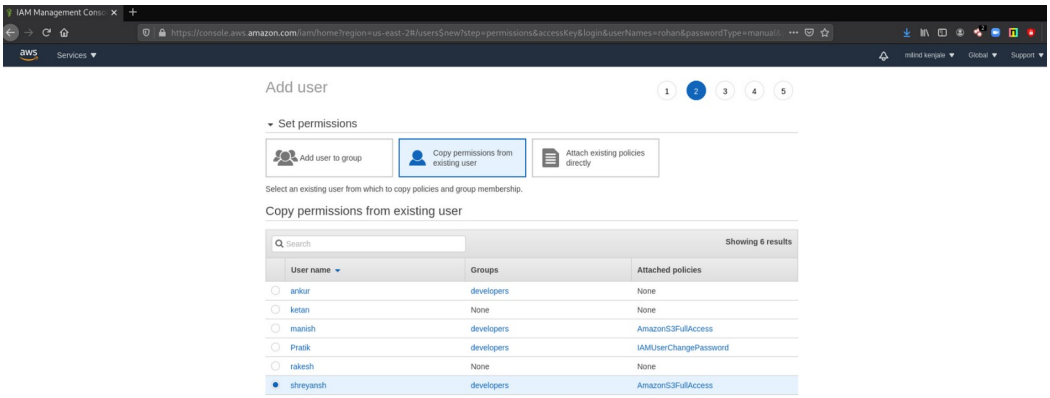

IAM Management Console
https://console.aws.amazon.com/iam/home?region=us-east-2#/users
Services
milind kenjale
Global
Support
Identity and Access Management (IAM)
Add user
Delete user
Dashboard
Access management
Groups
Users
Roles
Policies
Identity providers
Account settings
Access reports
Access analyzer
Find users by username or access key
Showing 4 results
User name
Groups
Access key age
Password age
Last activity
MFA
ketan
None
Today
Today
Today
Not enabled
manish
developers
None
Today
None
Not enabled
Pratik
developers
Today
Today
Today
Not enabled
shreyansh
developers
Today
Today
Today
Not enabled

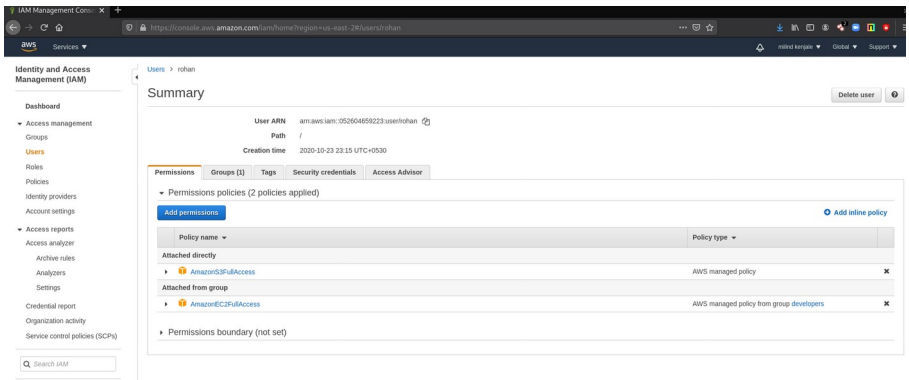

Launch instance wizard
https://us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#LaunchInstanceWizard:
Services
manish @ 0526-0465-9223
Ohio
Support
1. Choose AMI
2. Choose Instance Type
3. Configure Instance
4. Add Storage
5. Add Tags
6. Configure Security Group
7. Review
Step 2: Choose an Instance Type
Amazon EC2 provides a wide selection of instance types optimized to fit different use cases. Instances are virtual servers that can run applications. They have varying combinations of CPU, memory, storage, and networking capacity, and give you the flexibility to choose the appropriate mix of resources for your applications. Learn more about instance types and how they can meet your computing needs.
Filter by:
All instance families
Current generation
Show/Hide Columns
Currently selected: t2.micro (- ECUs, 1 vCPUs, 2.5 GHz, -, 1 GiB memory, EBS only)
Family
Type
vCPUs
Memory (GiB)
Instance Storage (GB)
EBS-Optimized Available
Network Performance
IPv6 Support
t2 nano 1 0.5 EBS only - Low to Moderate Yes
t2 micro Free tier eligible 1 1 EBS only - Low to Moderate Yes
t2 small 1 2 EBS only - Low to Moderate Yes
t2 medium 2 4 EBS only - Low to Moderate Yes
t2 large 2 8 EBS only - Low to Moderate Yes
t2 xlarge 4 16 EBS only - Moderate Yes
t2 2xlarge 8 32 EBS only - Moderate Yes
t3 nano 2 0.5 EBS only Yes Up to 5 Gigabit Yes
t3 micro 2 1 EBS only Yes Up to 5 Gigabit Yes
t3 small 2 2 EBS only Yes Up to 5 Gigabit Yes
t3 medium 2 4 EBS only Yes Up to 5 Gigabit Yes
t3 large 2 8 EBS only Yes Up to 5 Gigabit Yes
t3 xlarge 4 16 EBS only Yes Up to 5 Gigabit Yes
t3 2xlarge 8 32 EBS only Yes Up to 5 Gigabit Yes
Cancel
Previous
Review and Launch
Next: Configure Instance Details
Feedback
English (US)
Privacy Policy
Terms of Use


S3 Management Console
https://s3.console.aws.amazon.com/s3/home?region=us-east-2#
Services
manish @ 0526-0465-9223
Global
Support
Amazon S3
Buckets
Batch operations
Access analyzer for S3
Block public access (account settings)
Feature spotlight
Access S3-backed file shares on premises and reduce local storage costs using AWS Storage Gateway. Learn more »
Documentation
We've temporarily re-enabled the previous version of the S3 console while we continue to improve the new S3 console experience. Switch to the new console.
S3 buckets
Discover the console
Search for buckets
All access types
Create bucket
Edit public access settings
Empty
Delete
4 Buckets
2 Regions
Bucket name
Access
Region
Date created
milo06061983
US East (Ohio)
Oct 4, 2020 12:31:36 PM GMT+0530
miloversioning06061983
US East (Ohio)
Oct 4, 2020 1:38:34 PM GMT+0530
milowebhosting01
Objects can be public
US East (N. Virginia)
Oct 16, 2020 8:14:04 PM GMT+0530
s3-letsupgradedemo
US East (Ohio)
Oct 10, 2020 1:02:49 PM GMT+0530

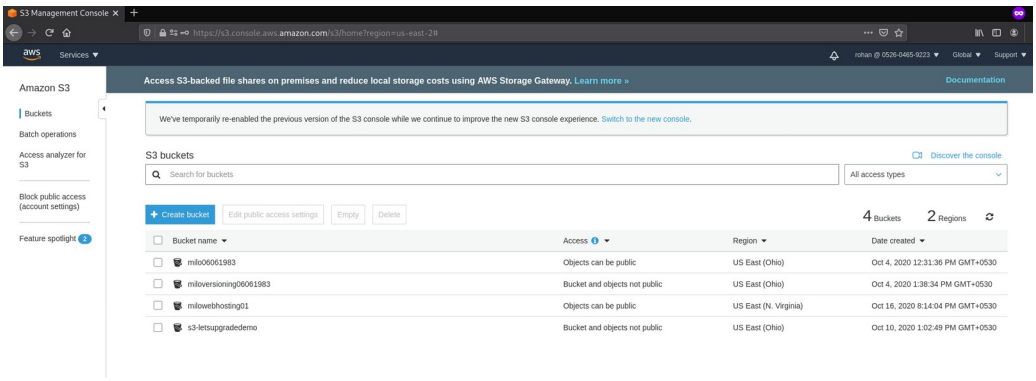
Task6: Copying policy from existing users
SS7: Attach user summary of the user from which you create a new user

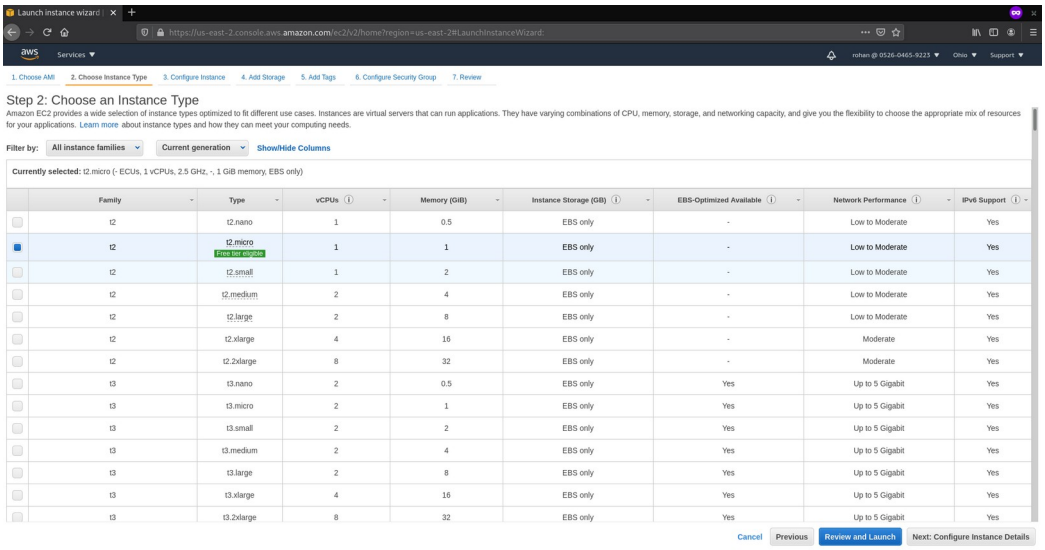




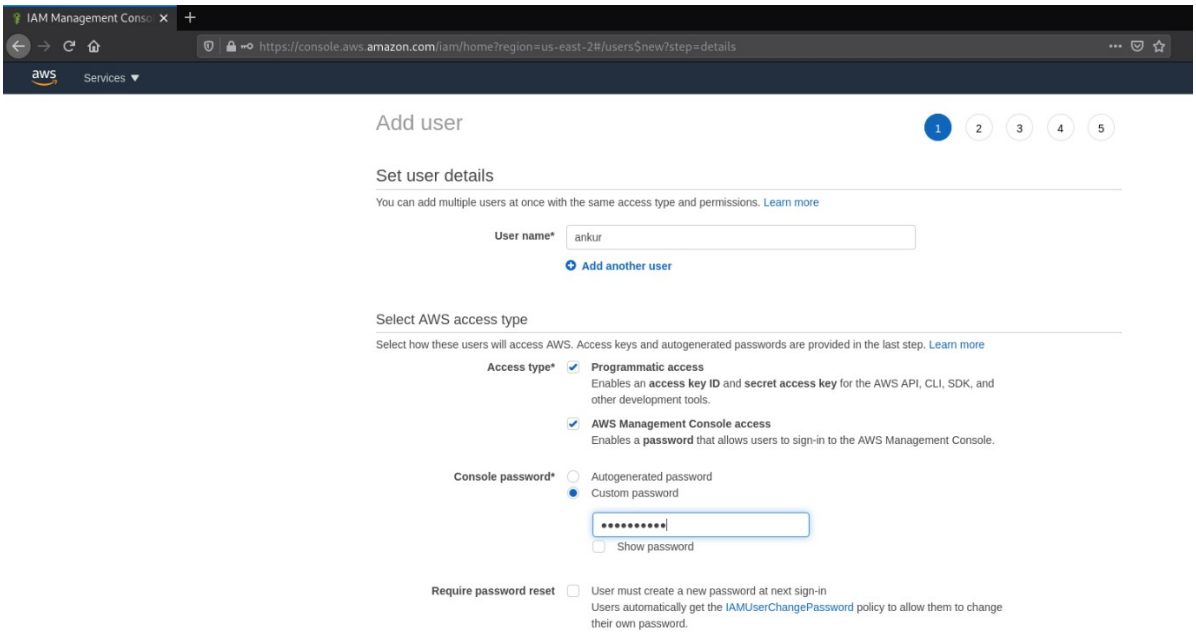


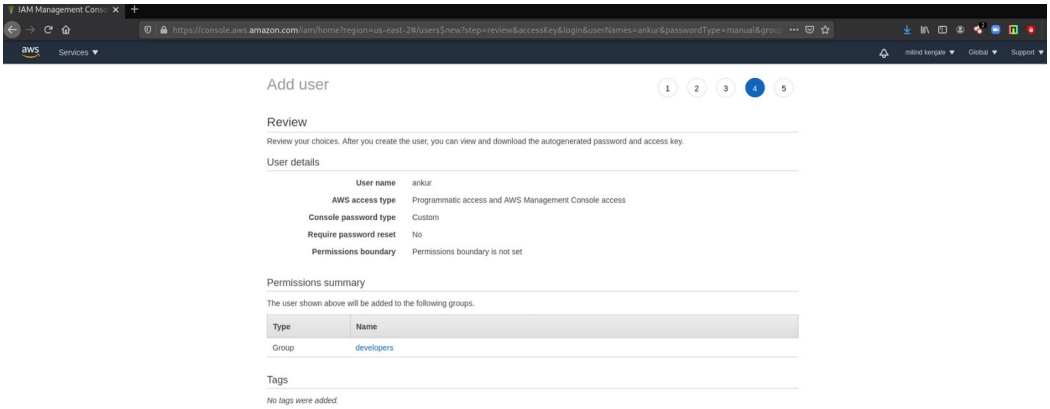
SS8: Login as this user show that this policy is in effect

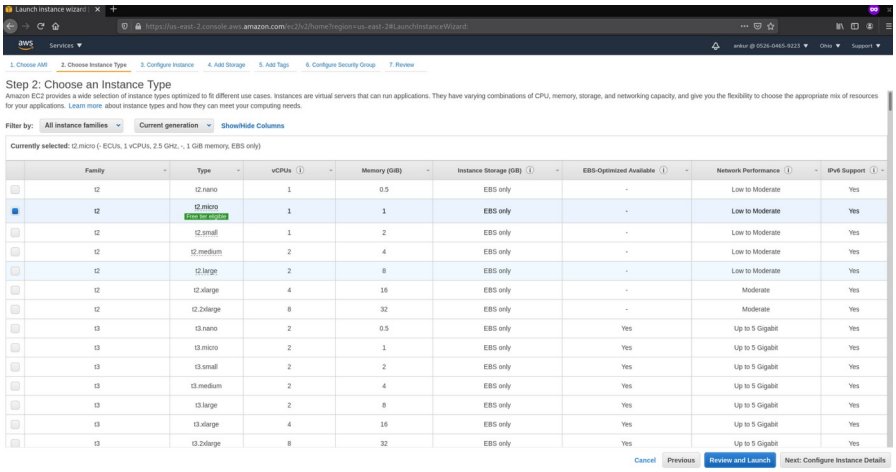

S3 Management Console
https://s3.console.aws.amazon.com/s3/home?region=us-east-2#
Services
rohan @ 0526-0465-9223
Global
Support
Access S3-backed file shares on premises and reduce local storage costs using AWS Storage Gateway. Learn more »
Documentation
Amazon S3
Buckets
Batch operations
Access analyzer for S3
Block public access (account settings)
Feature spotlight 2
We've temporarily re-enabled the previous version of the S3 console while we continue to improve the new S3 console experience. Switch to the new console.
S3 buckets
Discover the console
Search for buckets
All access types
Create bucket
Edit public access settings
Empty
Delete
4 Buckets
2 Regions
Bucket name
Access
Region
Date created
milo06061983
Objects can be public
US East (Ohio)
Oct 4, 2020 12:31:36 PM GMT+0530
miloversioning06061983
Bucket and objects not public
US East (Ohio)
Oct 4, 2020 1:38:34 PM GMT+0530
milowebhosting01
Objects can be public
US East (N. Virginia)
Oct 16, 2020 8:14:04 PM GMT+0530
s3-letsupgradedemo
Bucket and objects not public
US East (Ohio)
Oct 10, 2020 1:02:49 PM GMT+0530


Launch instance wizard
https://us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#LaunchInstanceWizard:
Services
rohan @ 0526-0465-9223
Ohio
Support
1. Choose AMI
2. Choose Instance Type
3. Configure Instance
4. Add Storage
5. Add Tags
6. Configure Security Group
7. Review
Step 2: Choose an Instance Type
Amazon EC2 provides a wide selection of instance types optimized to fit different use cases. Instances are virtual servers that can run applications. They have varying combinations of CPU, memory, storage, and networking capacity, and give you the flexibility to choose the appropriate mix of resources for your applications. Learn more about instance types and how they can meet your computing needs.
Filter by:
All instance families
Current generation
Show/Hide Columns
Currently selected: t2.micro (- ECUs, 1 vCPUs, 2.5 GHz, -, 1 GiB memory, EBS only)
Family
Type
vCPUs
Memory (GiB)
Instance Storage (GB)
EBS-Optimized Available
Network Performance
IPv6 Support
t2 t2.nano 1 0.5 EBS only - Low to Moderate Yes
t2 t2.micro Free tier eligible 1 1 EBS only - Low to Moderate Yes
t2 t2.small 1 2 EBS only - Low to Moderate Yes
t2 t2.medium 2 4 EBS only - Low to Moderate Yes
t2 t2.large 2 8 EBS only - Low to Moderate Yes
t2 t2.xlarge 4 16 EBS only - Moderate Yes
t2 t2.2xlarge 8 32 EBS only - Moderate Yes
t3 t3.nano 2 0.5 EBS only Yes Up to 5 Gigabit Yes
t3 t3.micro 2 1 EBS only Yes Up to 5 Gigabit Yes
t3 t3.small 2 2 EBS only Yes Up to 5 Gigabit Yes
t3 t3.medium 2 4 EBS only Yes Up to 5 Gigabit Yes
t3 t3.large 2 8 EBS only Yes Up to 5 Gigabit Yes
t3 t3.xlarge 4 16 EBS only Yes Up to 5 Gigabit Yes
t3 t3.2xlarge 8 32 EBS only Yes Up to 5 Gigabit Yes
Cancel
Previous
Review and Launch
Next: Configure Instance Details

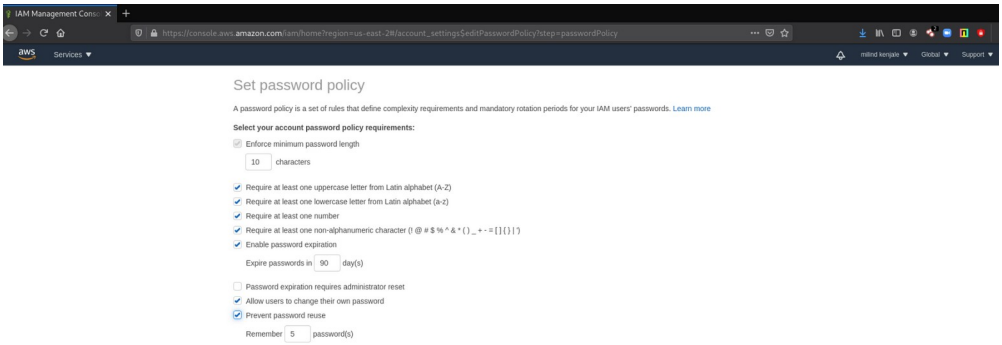
Task7: Add user to a group in the process of creating a user

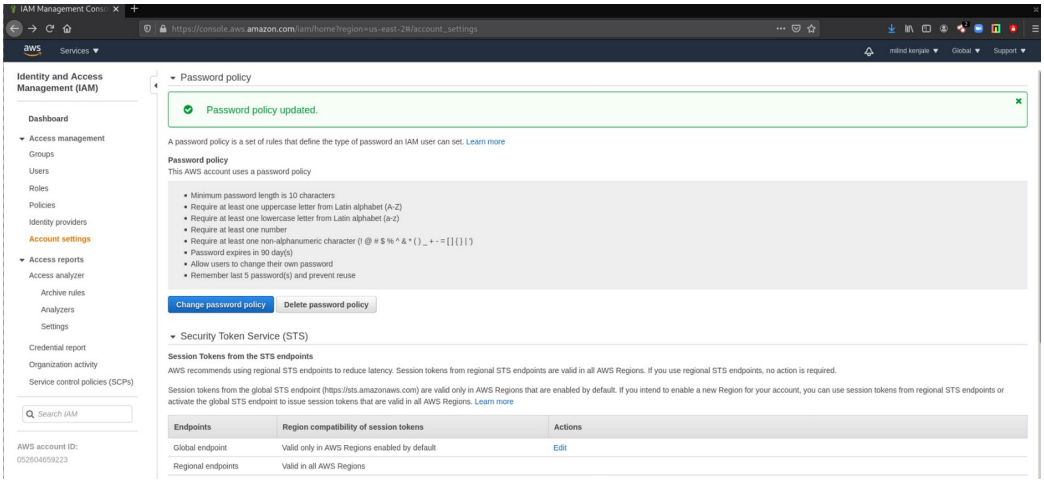


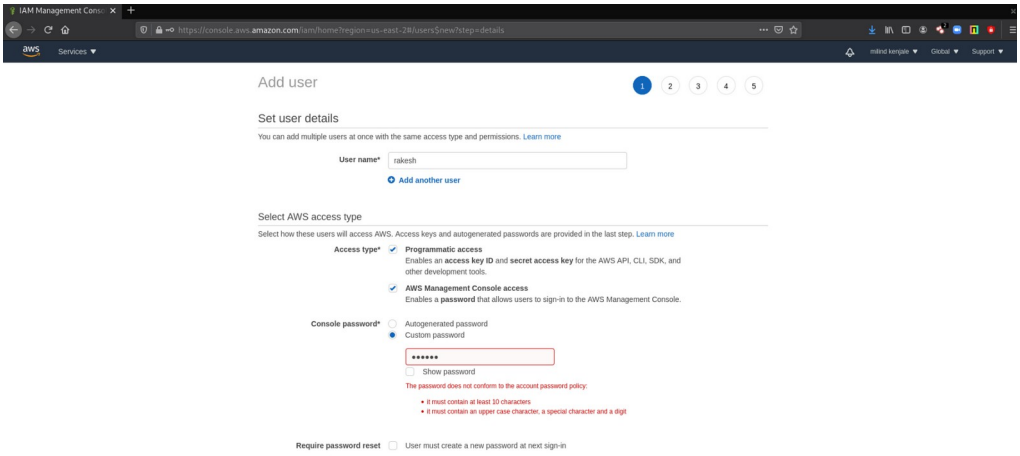




Task8: Setting Password policy

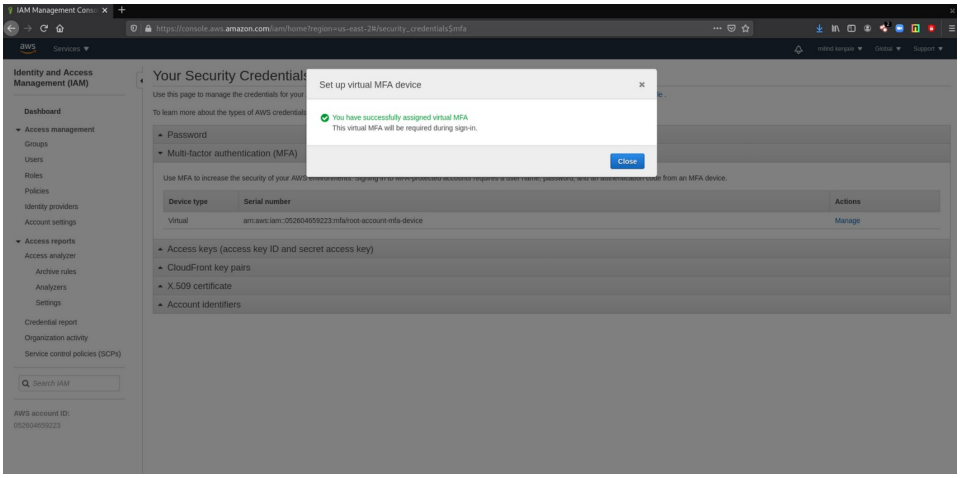




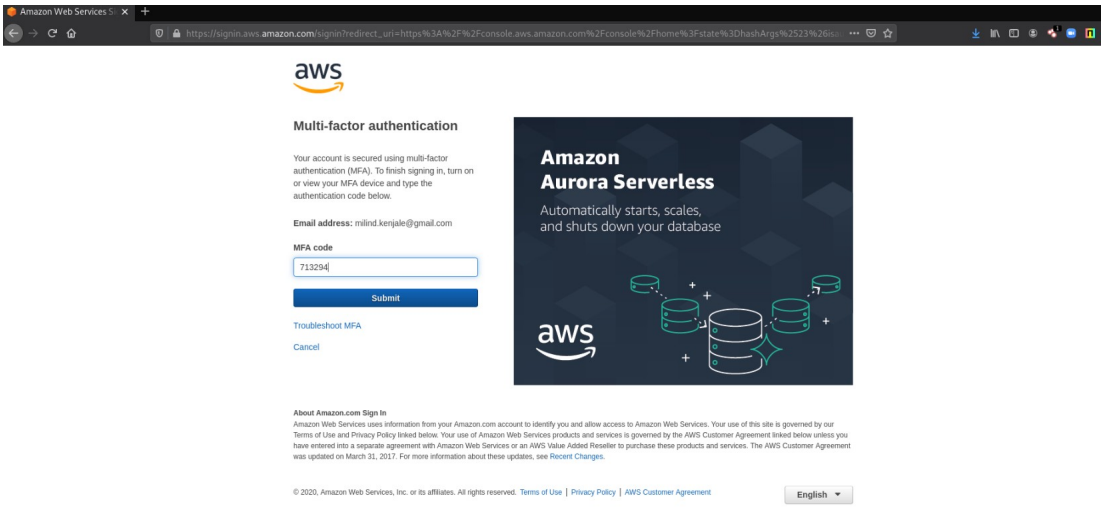


Task 9: Enabling MFA and using a MFA device

SS1: enable MFA



SS2: login screen for MFA



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