

# Practical no: 1

Name: Saloni Vishwakarma

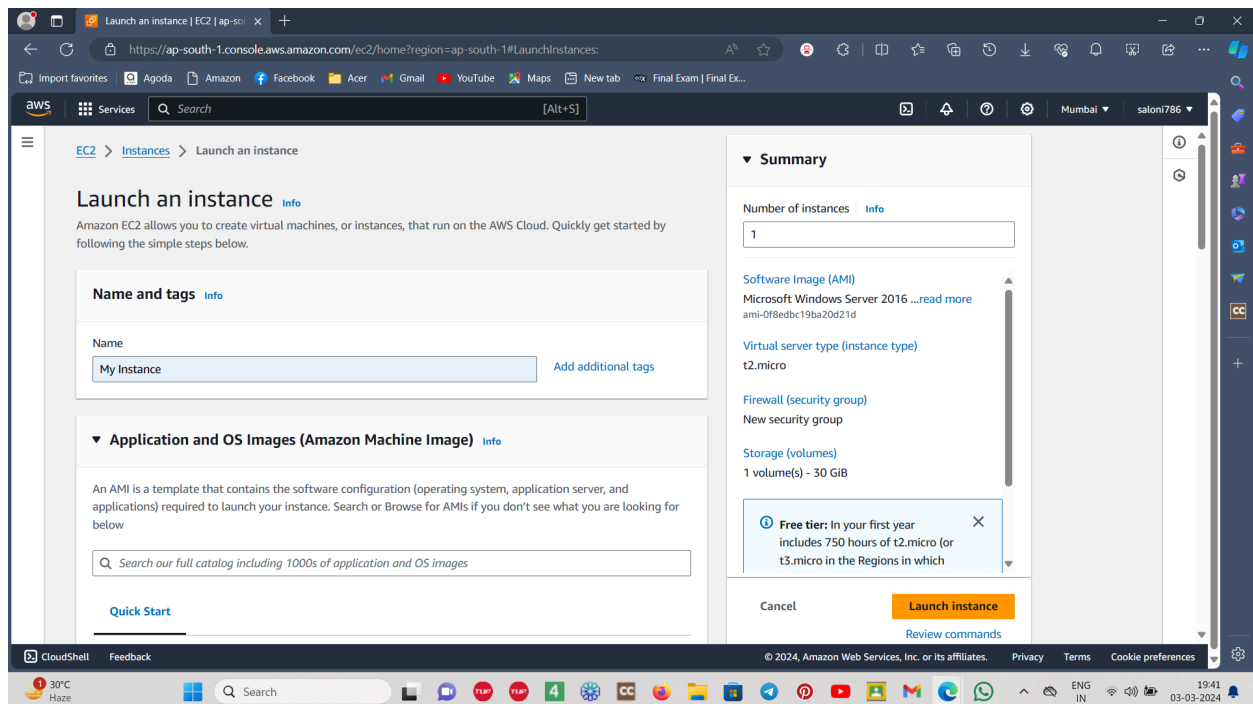
Batch-Roll no: C1-13

Subject: Introduction to Cloud Security Lab

Date of Execution: 19/01/2024

## Aim:

1. Create AWS free tier account.
2. Launch Amazon EC2 Windows instances.
3. Connect to Amazon EC2 Windows instances.



Launch an instance | EC2 | ap-southeast-1

https://ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#LaunchInstances:

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aws Services Search [Alt+S]

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

Quick Start

Amazon Linux

macOS

Ubuntu

Windows

Red Hat

SUSE Li

Browse more AMIs

Amazon Machine Image (AMI)

Microsoft Windows Server 2016 Base

ami-0f8edbc19ba20d21d (64-bit (x86))

Virtualization: hvm ENA enabled: true Root device type: ebs

Free tier eligible

Description

Microsoft Windows Server 2016 with Desktop Experience Locale English AMI provided by Amazon

Architecture

AMI ID

Summary

Number of instances Info

1

Software Image (AMI)

Microsoft Windows Server 2016 ...read more

ami-0f8edbc19ba20d21d

Virtual server type (instance type)

t2.micro

Firewall (security group)

New security group

Storage (volumes)

1 volume(s) - 30 GiB

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which

Cancel

Launch instance

Review commands

CloudShell Feedback

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19:42 03-03-2024

Launch an instance | EC2 | ap-southeast-1

https://ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#LaunchInstances:

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Instance type Info | Get advice

Instance type

t2.micro

Family: t2 1 vCPU 1 GiB Memory Current generation: true

On-Demand Linux base pricing: 0.0124 USD per Hour

On-Demand Windows base pricing: 0.017 USD per Hour

On-Demand RHEL base pricing: 0.0724 USD per Hour

On-Demand SUSE base pricing: 0.0124 USD per Hour

Free tier eligible

All generations

Compare instance types

Additional costs apply for AMIs with pre-installed software

Key pair (login) Info

You can use a key pair to securely connect to your instance. Ensure that you have access to the selected key pair before you launch the instance.

Key pair name - required

library\_96

Create new key pair

For Windows instances, you use a key pair to decrypt the administrator password. You then use the decrypted password to connect to your instance.

Network settings Info

Edit

Summary

Number of instances Info

1

Software Image (AMI)

Microsoft Windows Server 2016 ...read more

ami-0f8edbc19ba20d21d

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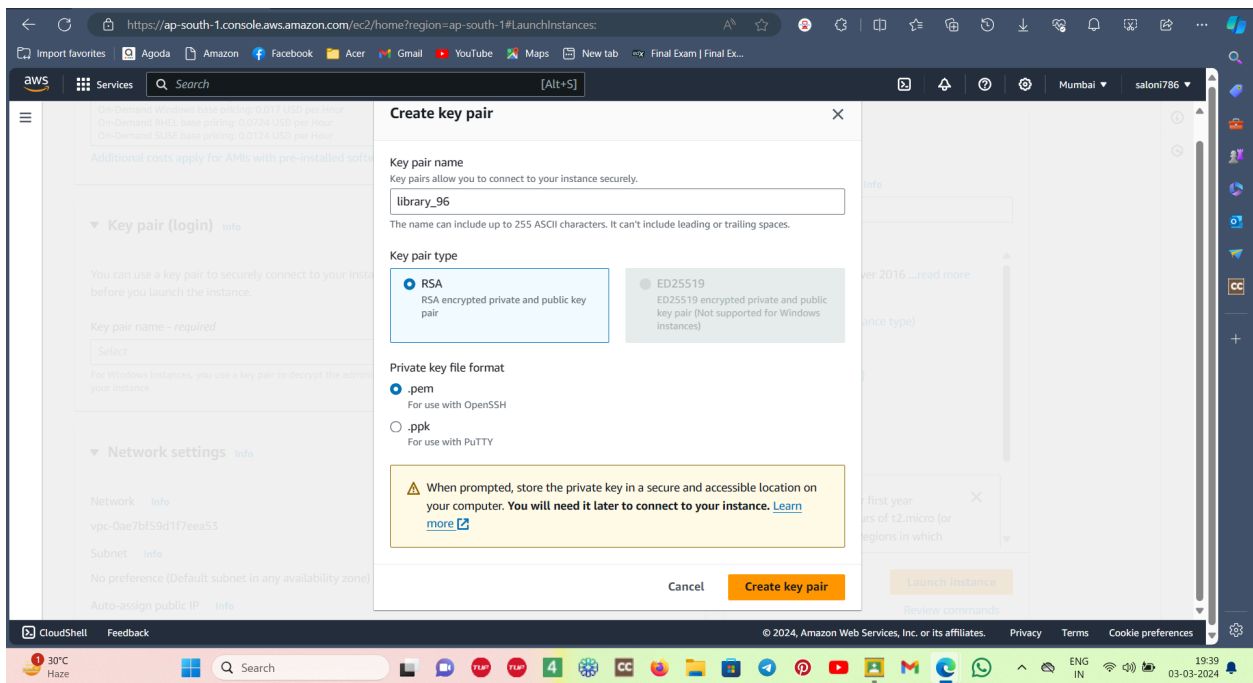
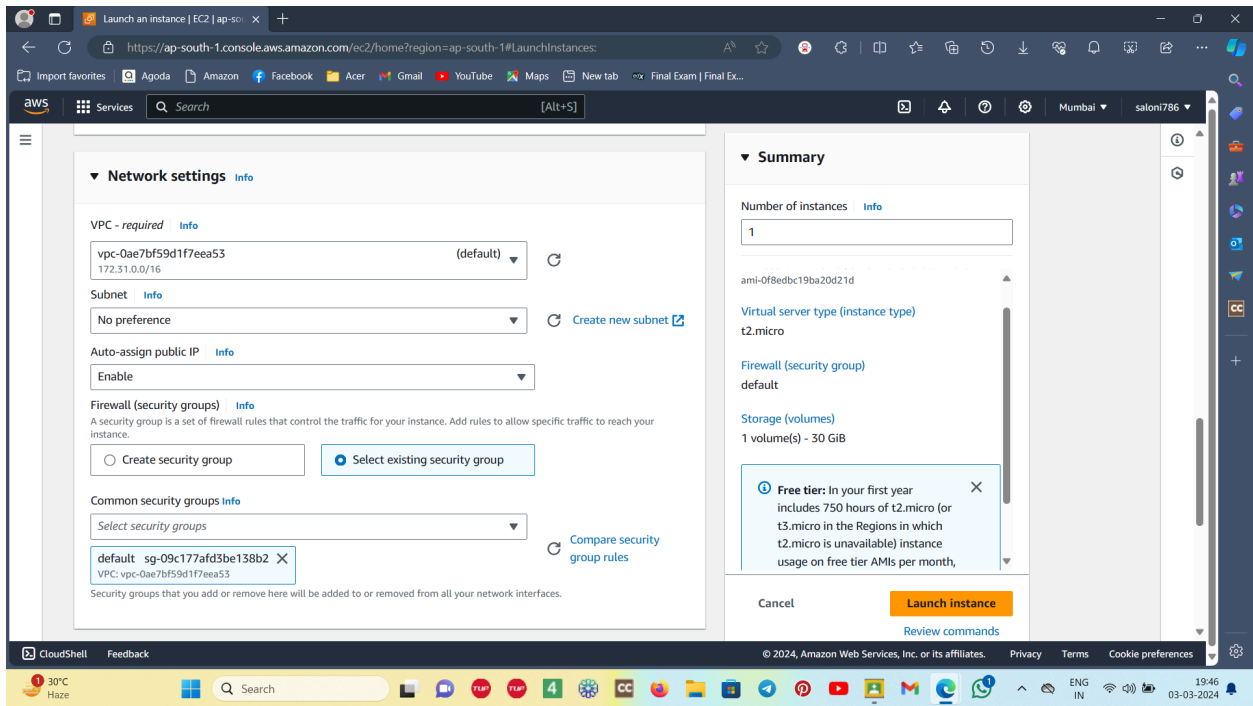
CloudShell Feedback

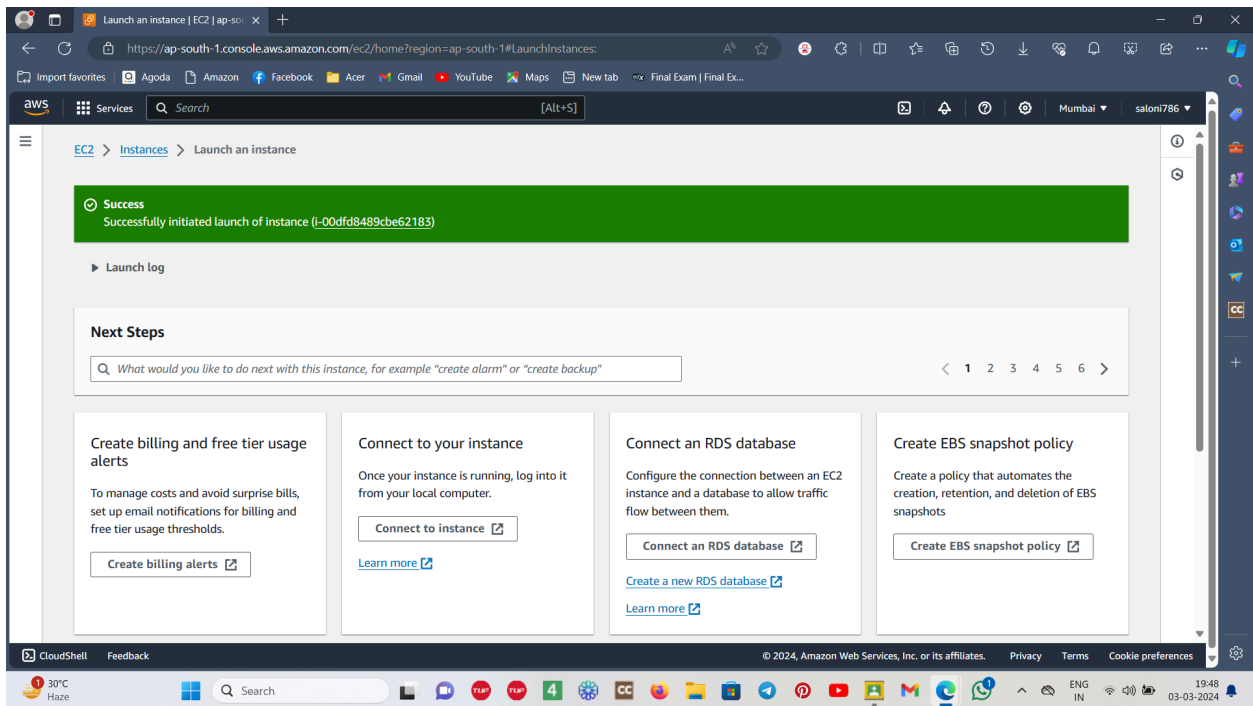
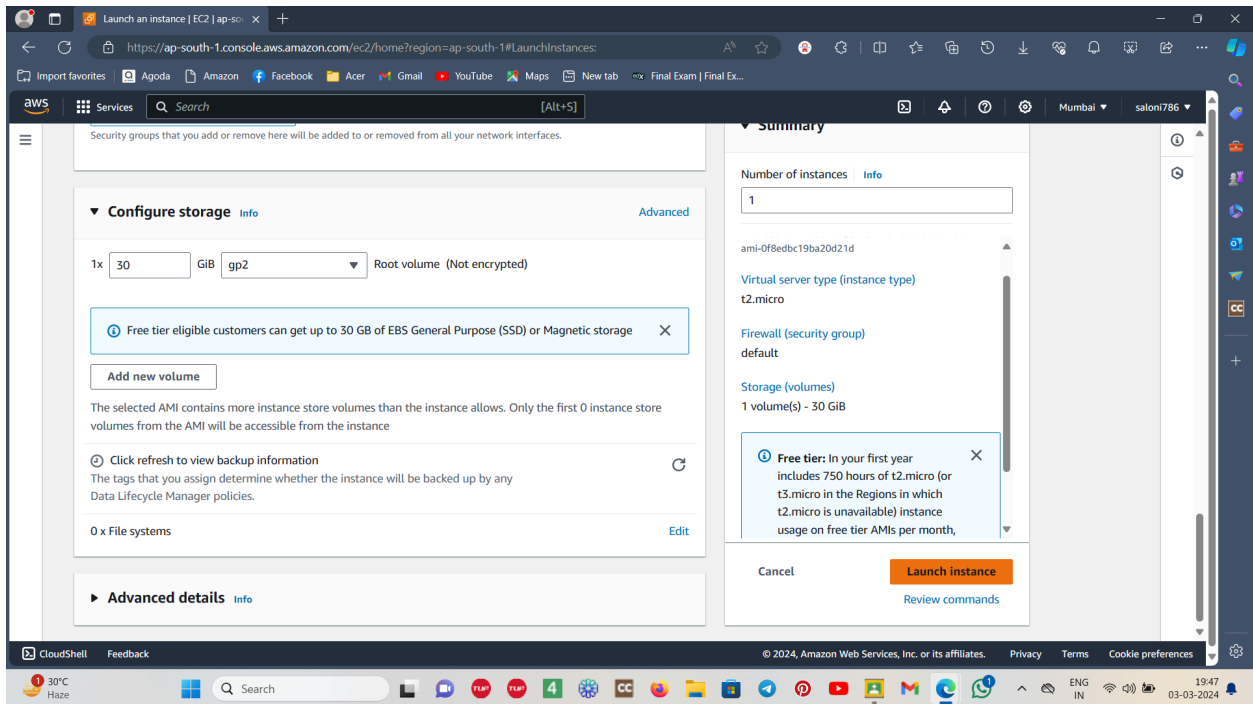
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Search

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Instances | EC2 | ap-south-1

https://ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#Instances:

EC2 Dashboard  
EC2 Global View  
Events

▼ Instances

- Instances
- Instance Types
- Launch Templates
- Spot Requests
- Savings Plans
- Reserved Instances
- Dedicated Hosts
- Capacity Reservations
- New

▼ Images

- AMIs
- AMI Catalog

▼ Elastic Block Store

- Volumes
- Snapshots

Lifecycle Manager

CloudShell Feedback

Instances (1/1) Info

Find Instance by attribute or tag (case-sensitive) Any state

<input checked="" type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public I
<input checked="" type="checkbox"/>	My Instance	i-00dfd8489cbe62183	Running	t2.micro	Initializing	View alarms +	ap-south-1a	ec2-43-

Instance: i-00dfd8489cbe62183 (My Instance)

Details Status and alarms New Monitoring Security Networking Storage Tags

▼ Instance summary Info

Instance ID i-00dfd8489cbe62183 (My Instance)	Public IPv4 address 43.205.216.102 <a href="#">open address</a>	Private IPv4 addresses 172.31.44.141
IPv6 address -	Instance state Running	Public IPv4 DNS ec2-43-205-216-102.ap-south-1.compute.amazonaws.com <a href="#">open address</a>
Hostname type	Private IP DNS name (IPv4 only)	

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Practical No. 1

C1-130(CS-1) - Google Docs

Tutorial: Get started with Amazon

Connect to instance | EC2 | ap-south-1

https://ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#ConnectToInstance:instanceId=i-00dfd...

EC2 > Instances > i-00dfd8489cbe62183 > Connect to instance

Connect to instance Info

Connect to your instance i-00dfd8489cbe62183 (My Instance) using any of these options

Session Manager RDP client EC2 serial console

Instance ID  
i-00dfd8489cbe62183 (My Instance)

Connection Type

☒ Connect using RDP client  
Download a file to use with your RDP client and retrieve your password.

☐ Connect using Fleet Manager  
To connect to the instance using Fleet Manager Remote Desktop, the SSM Agent must be installed and running on the instance. For more information, see [Working with SSM Agent](#)

You can connect to your Windows instance using a remote desktop client of your choice, and by downloading and running the RDP shortcut file below:

[Download remote desktop file](#)

When prompted, connect to your instance using the following username and password:

Public DNS  
ec2-43-205-216-102.ap-south-

Username Info  
Administrator

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Practical No. 1 | C1-130(CS-1) - Google Docs | Tutorial: Get started with Amazon EC2 | Get Windows password | EC2 | ap-south-1 | Mumbai | saloni786

https://ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#GetWindowsPassword:instanceId=i-00df8489cbe62183

## Get Windows password Info

Use your private key to retrieve and decrypt the initial Windows administrator password for this instance.

Instance ID  
i-00df8489cbe62183 (My Instance)

Key pair associated with this instance  
library\_96

Private key  
Either upload your private key file or copy and paste its contents into the field below.

Upload private key file

library\_96.pem  
1.674 KB

Private key contents - optional

```
-----BEGIN RSA PRIVATE KEY-----
MIIEogIBAAKCAQEAkLmG2RE3xZ5EhFVxG6G2VUVk0y/Ra7G5Mk+kGbJsJOYkmmu
W4VuVqQnCSObH8uVG9PbztNCAqeZhs+N4yc17LLaQ1wymTrxPCYQpOqQ5kks/s2Z
ghalRmG5MSaF9zoPbz3+FZugygDpb/Pdel/LCpZeqvyYp6vRIN429pNnnNzOdcle
3AkIv1yJlSerY8XoDGnd1HISGfcpB1ra4SLobjG41qd7wvcExTngu1HgYxJN+im
Bz6Lj/yQWL6M53iH4wvFFK+NEwiugMY3qSA5i6TdQVWPOwDGeORUxtub0EARDBFO
vaCy4/mBGIX0e+cE45dEEMJ/KYpToYUTOIP9QIDAQABAOIbAHS4M4z53y11EkzV
tDdoORzdP2eqzQIW3KI8suA7yI485T8NeydQgWCMX+agJebR56EUWwz6wvJbn3Sp
-----
```

CloudShell Feedback

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Practical No. 1 | C1-130(CS-1) - Google Docs | Tutorial: Get started with Amazon EC2 | Connect to instance | EC2 | ap-south-1 | Mumbai | saloni786

https://ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#ConnectToInstance:instanceId=i-00df8489cbe62183

## Connect to instance

Connection Type

☒ Connect using RDP client  
Download a file to use with your RDP client and retrieve your password.

☐ Connect using Fleet Manager  
To connect to the instance using Fleet Manager Remote Desktop, the SSM Agent must be installed and running on the instance. For more information, see [Working with SSM Agent](#).

You can connect to your Windows instance using a remote desktop client of your choice, and by downloading and running the RDP shortcut file below:

Download remote desktop file

When prompted, connect to your instance using the following username and password:

Public DNS  
ec2-43-205-216-102.ap-south-1.compute.amazonaws.com

Username Info  
Administrator

Password  
A?o)%GspBg7%PrhoAnyH=t-2Cu3;@Z\*

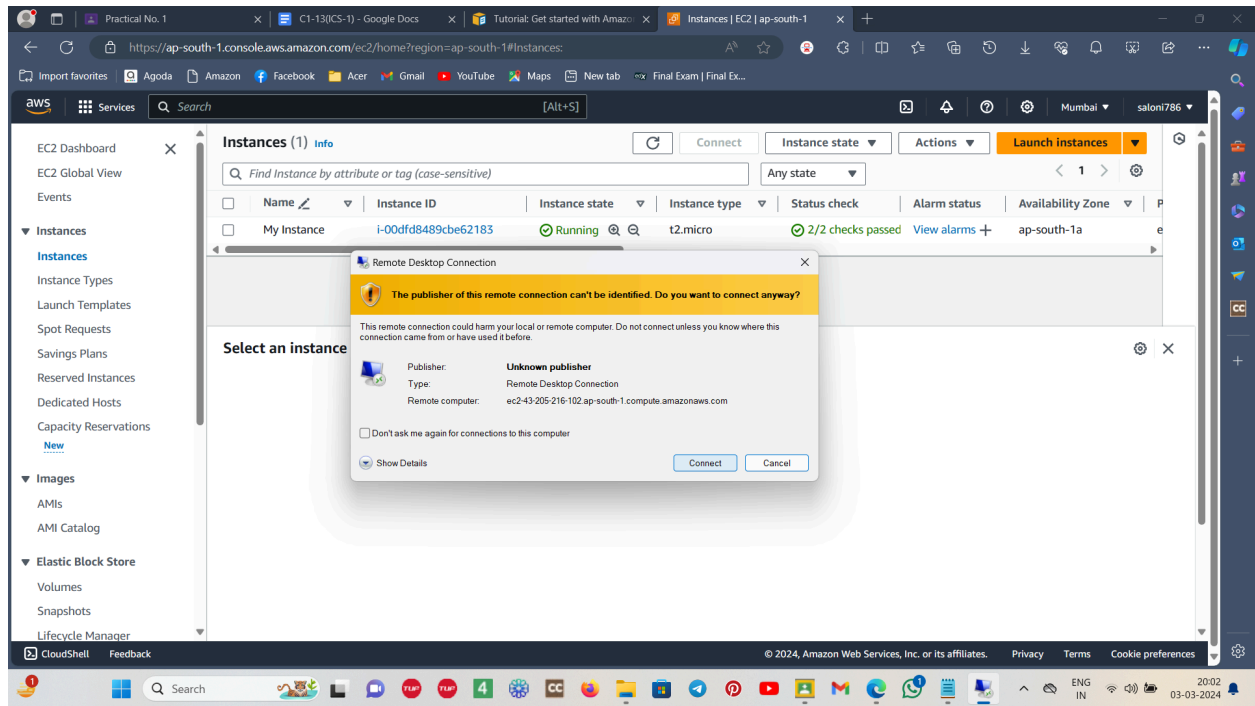
If you've joined your instance to a directory, you can use your directory credentials to connect to your instance.

Cancel

https://docs.aws.amazon.com/en\_us/systems-manager/latest/userguide/ssm-agent

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20:01 03-03-2024





## Remote Desktop Connection



**The identity of the remote computer cannot be verified. Do you want to connect anyway?**

The remote computer could not be authenticated due to problems with its security certificate. It may be unsafe to proceed.

### Certificate name



Name in the certificate from the remote computer:  
EC2AMAZ-7AHASQR

### Certificate errors

The following errors were encountered while validating the remote computer's certificate:



The certificate is not from a trusted certifying authority.

Do you want to connect despite these certificate errors?

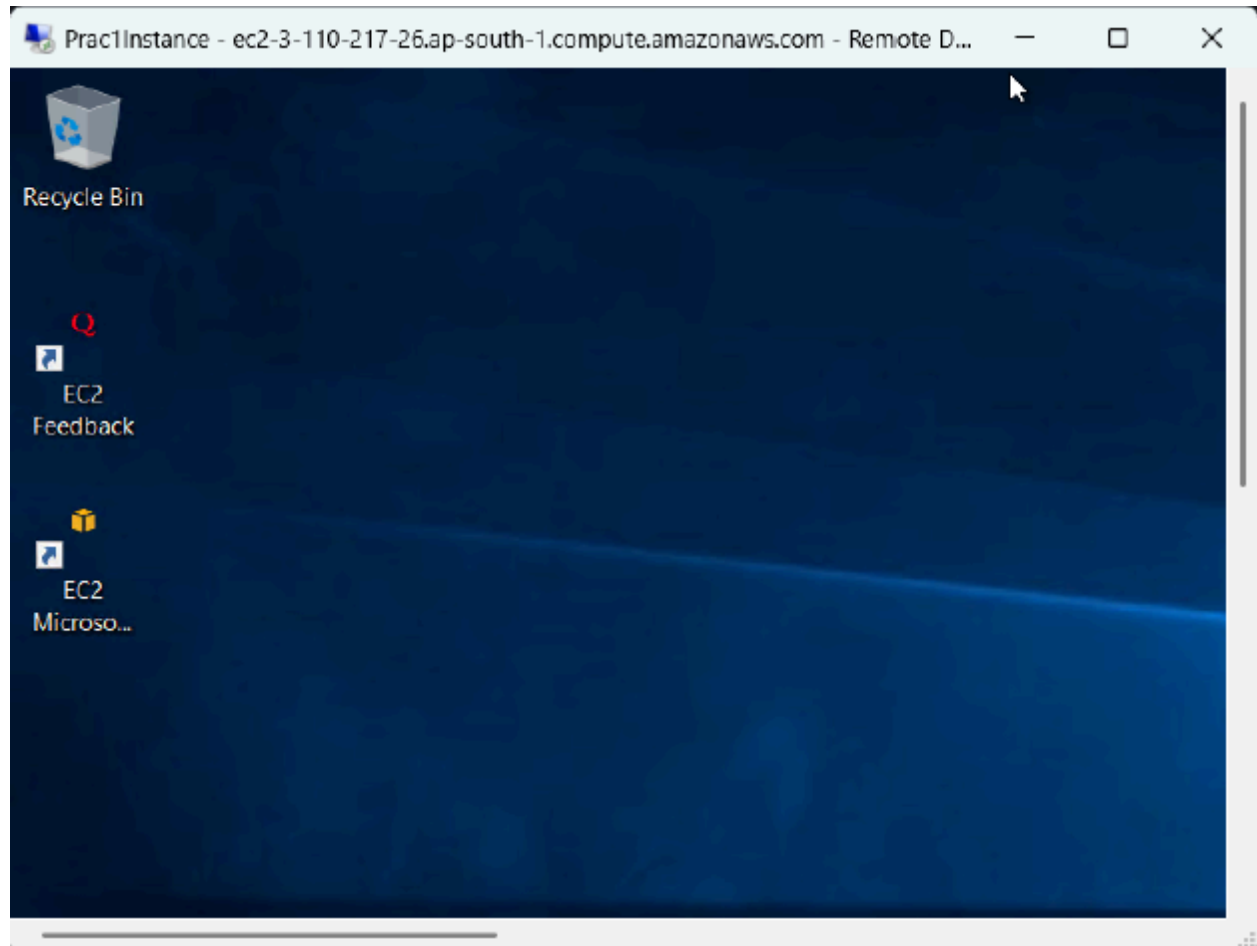
☐ Don't ask me again for connections to this computer

View certificate...

Yes

No





**Conclusion:** We have successfully learnt and implemented how to create an aws free tier account, launch amazon EC2 windows instance and connect to it.