

ICC
K20-1052
HASSAN ALI

Task:

Create a Windows VM and assign public subnet of the VPC created.
Then create a Linux VM that should be assigned private subnet of VPC.
Access the Linux VM in the Windows VM using SSH.

Create a Windows VM

The screenshot shows the AWS Management Console 'Launch an instance' page. The breadcrumb trail is 'EC2 > Instances > Launch an instance'. The page title is 'Launch an instance' with an 'Info' link. Below the title, a brief description states: '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.' The 'Name and tags' section has a 'Name' field containing 'windows-demo-vm' and an 'Add additional tags' link. The 'Application and OS Images (Amazon Machine Image)' section includes a search bar and a 'Quick Start' section with buttons for Amazon Linux, macOS, Ubuntu, Windows, Red Hat, and SUSE Linux. The 'Amazon Machine Image (AMI)' section shows 'Microsoft Windows Server 2022 Base' (ami-0e5a3f69f06ff91) with a 'Free tier eligible' tag. The 'Summary' panel on the right shows: 'Number of instances' set to 1; 'Software Image (AMI)' as 'Microsoft Windows Server 2022 Base'; 'Virtual server type (instance type)' as 't2.micro'; 'Firewall (security group)' as 'sg-2'; and 'Storage (volumes)' as '1 volume(s) - 30 GiB'. A 'Free tier' notification box states: '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 I/Os, 1 GB of snapshots, and 100 GB of bandwidth to the internet.' At the bottom of the summary panel are 'Cancel', 'Launch instance', and 'Review commands' buttons.

Generate Key pair, choose your previously created VPC with a public subnet. Also choose the existing security group

▼
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*

windows-demo-vm
▼

↻
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

VPC - *required*
Info

vpc-05847897213dc02aa (cc2)
192.168.0.0/16
▼

↻

Subnet
Info

subnet-09cb9229d32e0e867
cc2-public1
▼

VPC: vpc-05847897213dc02aa
Owner: 891377357480
Availability Zone: us-east-2a
IP addresses available: 250
CIDR: 192.168.1.0/24

↻
Create new subnet

Auto-assign public IP
Info

Enable
▼

Firewall (security groups)
Info

A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.

☐
Create security group

☒
Select existing security group

Common security groups
Info

Select security groups
▼

cc2-sg
sg-00f29e19fc9b9a03b
X

VPC: vpc-05847897213dc02aa

↻
Compare security group rules

Security groups that you add or remove here will be added to or removed from all your network interfaces.

Windows VM is up and running

Instances (1) Info									
Find Instance by attribute or tag (case-sensitive)				Running					
<input type="checkbox"/>	Name ↗	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 ...
<input type="checkbox"/>	windows-demo-vm	i-0e62b56403cc08611	Running	t2.micro	Initializing	View alarms +	us-east-2a	ec2-18-117-106-254.us...	18.117.106.254

Now download RDP client to use your vm

[EC2](#) > [Instances](#) > [i-0e62b56403cc08611](#) > [Connect to instance](#)

Connect to instance Info

Connect to your instance i-0e62b56403cc08611 (windows-demo-vm) using any of these options

Session Manager

RDP client

EC2 serial console

Instance ID

 i-0e62b56403cc08611 (windows-demo-vm)

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

 ec2-18-117-106-254.us-east-2.compute.amazonaws.com

Username Info



Administrator ▼

Password **Get password**



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

Decrypt the private key to get the password of the VM

[EC2](#) > [Instances](#) > [i-0e62b56403cc08611](#) > [Get Windows password](#)

Get Windows password [Info](#)

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

Instance ID
[i-0e62b56403cc08611](#) (windows-demo-vm)

Key pair associated with this instance
[windows-demo-vm](#)

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

[Upload private key file](#)

✓

windows-demo-vm.pem
1.674KB

Private key contents - *optional*

```
-----BEGIN RSA PRIVATE KEY-----
MIIIEowIBAAKCAQEAvYVt1RZfbkRJnt+cdEAK+H7yfJyIMTVIjS3pSSebRAZgJOYL
DpTDzL4fDBZO02JEVU4mUWhnb1SZU73NgdvhYrBqv4cAJ1x+In//ykjsFbFtJ8L
xWqh+AJp69qWcRAZMmDmVshzR+ADrThdbHHMtanssvM+2Qc7ZuxMF2dtD8IDVHJj
bl4r4E11MTJ5xPGkrl0OiHecs6jK+MBaZXVngkgBLdv9yUySXgG9ALH1TEOi5U/3
9O5gfaxoR/IYOmVZoSZlIK0VMUTOkodks9z0TWWJY89BoXBf/M5QBtRw4gPplmaX
xOPSLSRdEJP+rzG9G1OwG4EA2Cd/51rdKK+u0wiDAQABAolBAHy089SnaBwyqw7z
rQuBqLZjMkR069kVfcEsWLeaniUiWc+SEBL+5sZ72wQsWG6A6TuS6B9xrlnRM0p
-----
```

[Cancel](#) [Decrypt password](#)

[EC2](#) > [Instances](#) > [i-0e62b56403cc08611](#)

Instance summary for [i-0e62b56403cc08611](#) (windows-demo-vm) [Info](#)

Updated less than a minute ago

Instance ID
[i-0e62b56403cc08611](#) (windows-demo-vm)

IPv6 address
-

Hostname type
IP name: ip-192-168-1-253.us-east-2.compute.internal

Answer private resource DNS name
-

Auto-assigned IP address
[18.117.106.254](#) [Public IP]

IAM Role
-

IMDSv2
Required

Public IPv4 address
[18.117.106.254](#) [Open address](#)

Private IPv4 addresses
[192.168.1.253](#)

Public IPv4 DNS
[ec2-18-117-106-254.us-east-2.compute.amazonaws.com](#) [Open address](#)

Elastic IP addresses
-

AWS Compute Optimizer finding
[Opt-in to AWS Compute Optimizer for recommendations.](#) [Learn more](#)

Auto Scaling Group name
-

Connect

Instance state ▾

Actions ▾

Details

Status and alarms [New](#)

Monitoring

Security

▼ Instance details [Info](#)

Platform
[windows](#)

Platform details
[Windows](#)

Stop protection
Disabled

AMI ID
[ami-0e6aa5f69f06fa91](#)

AMI name
[Windows_Server-2022-English-Full-Base-2024.02.14](#)

Launch time
[Thu Feb 22 2024 12:04:57 GMT+0500 \(Pakistan Standard Time\)](#) (2 minutes)

Monitoring
disabled

Termination protection
Disabled

AMI location
[amazon/Windows_Server-2022-English-Full-Base-2024.02.14](#)

Enter your credentials

These credentials will be used to connect to [ec2-18-117-106-254.us-east-2.compute.amazonaws.com](#).

Administrator

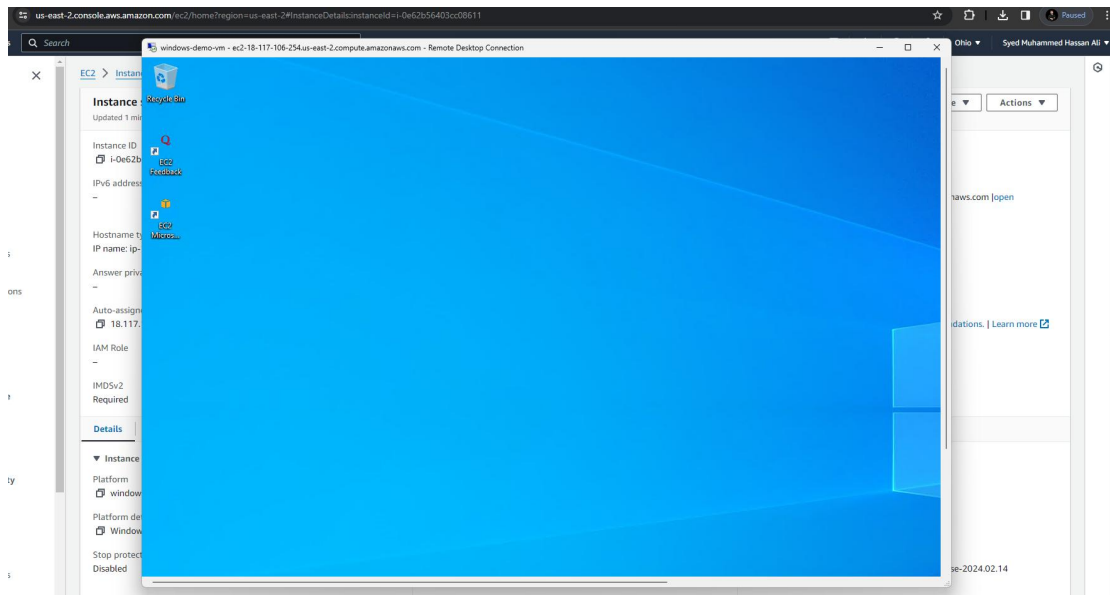
SYED-HASSAN\Administrator

☐ Remember me

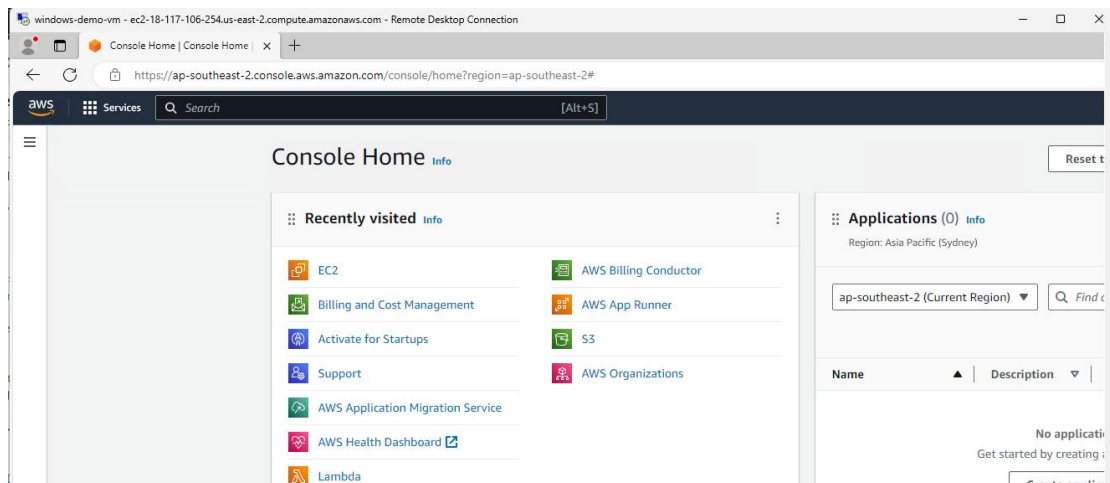
[More choices](#)

OK

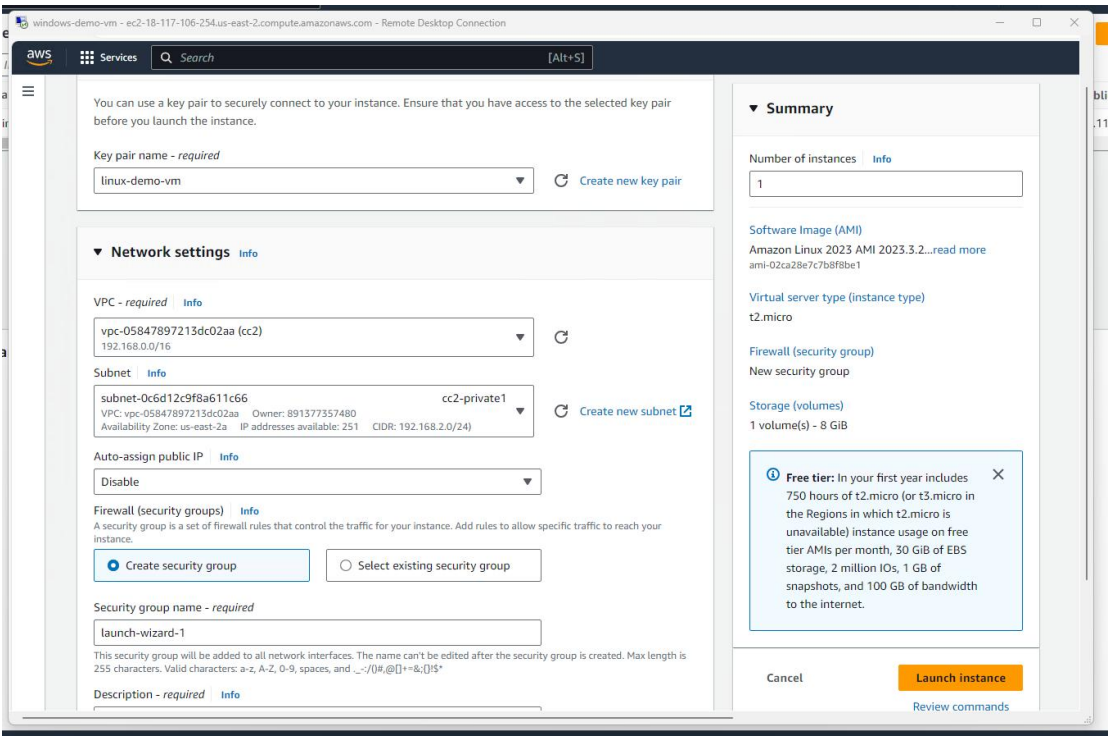
Cancel



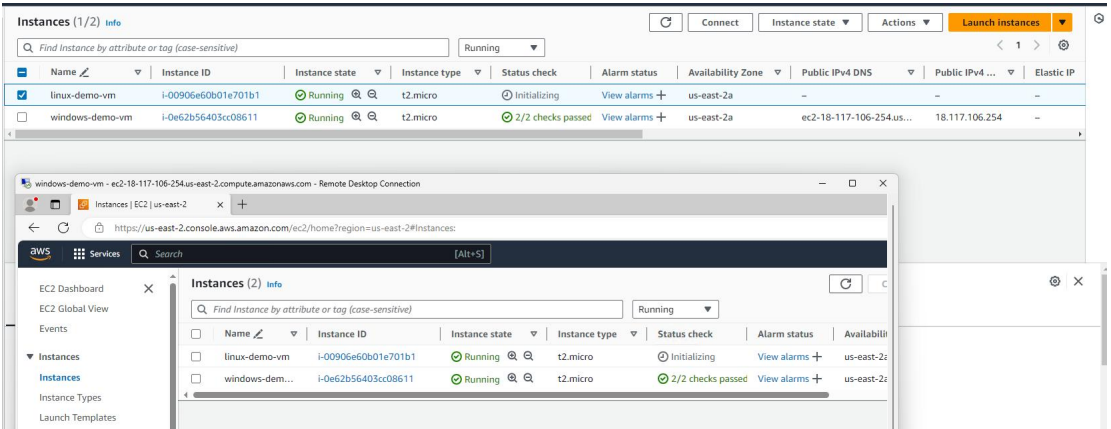
Now Open Aws console in windows VM and Create another linux machine



Choose private subnet of the VPC where IG is not accessible (by default dynamic IP is disabled)



Both of the VMs are up and running



Now connect your linux VM using SSH client. Copy paste the SSH command to the terminal

