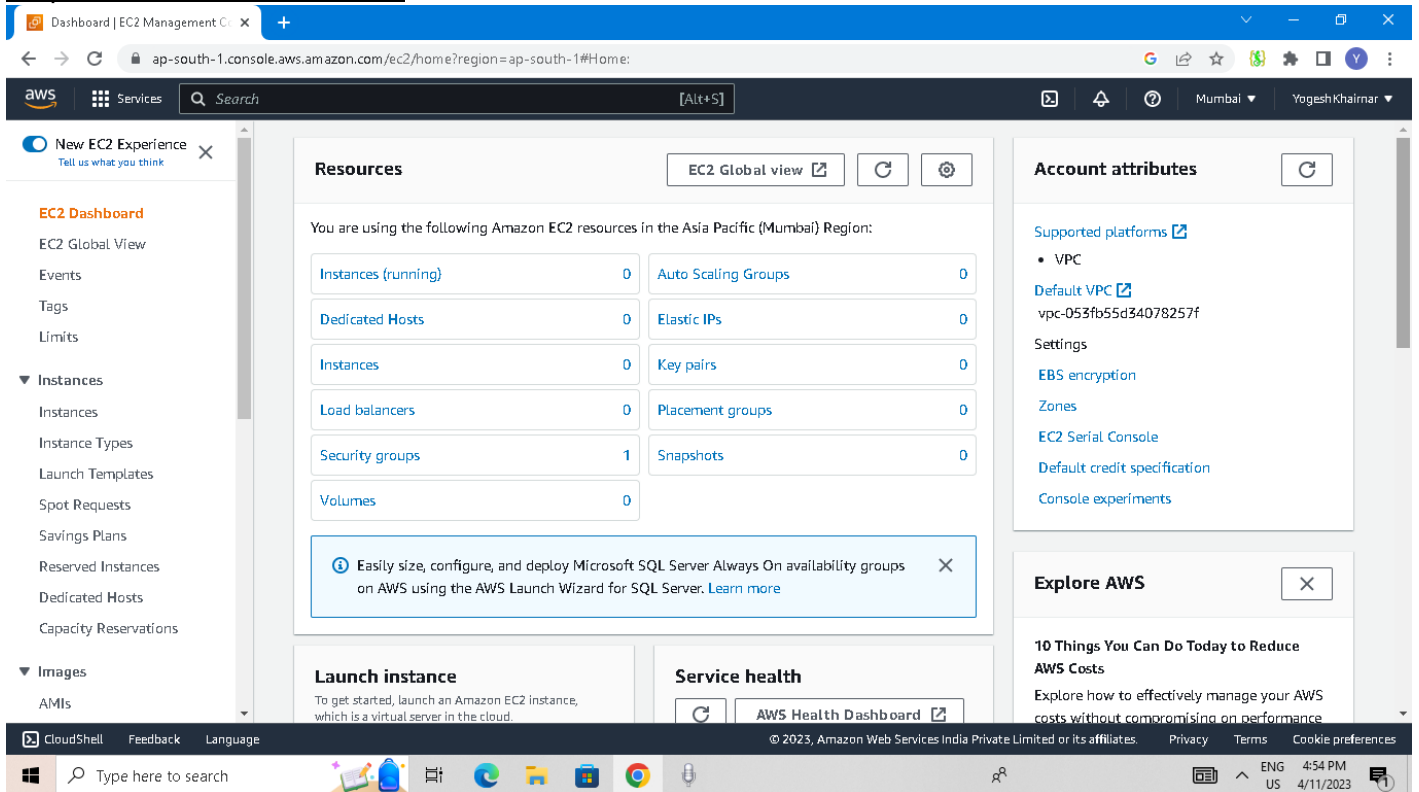


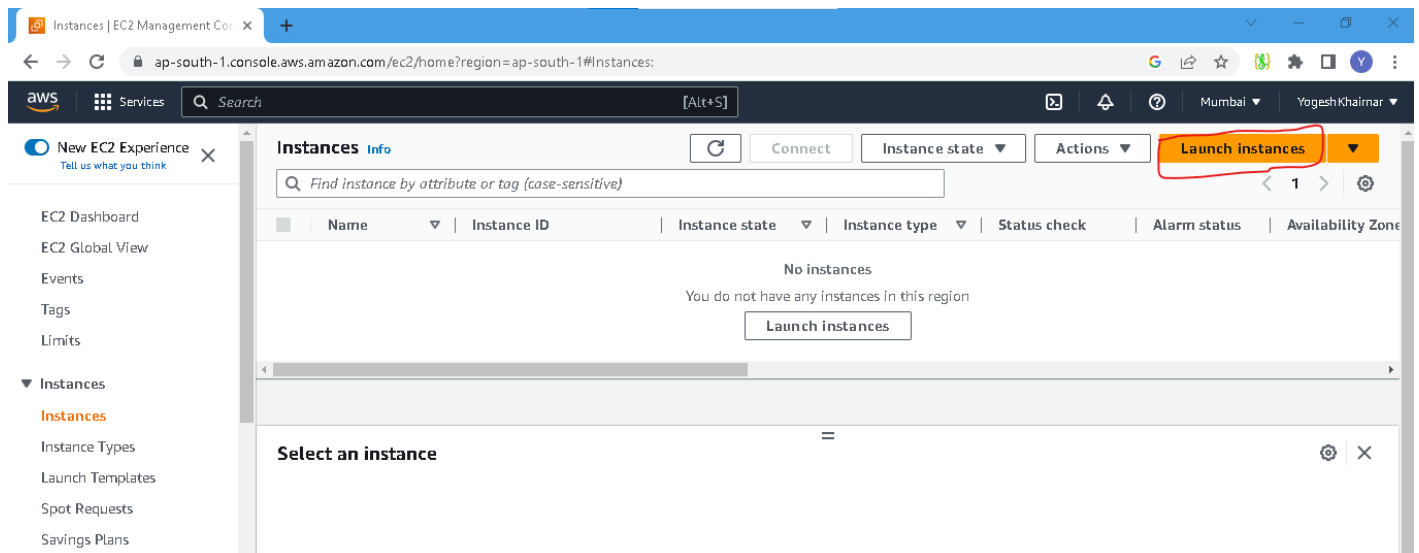
# EC2- Practical 1- Yogesh Khairnar(Website Launching)

Step 1: Sign in to AWS Management Console.

Step 2: Go to EC2 Dashboard.



Step 3: Click on Launch Instances.



## Step 4: Enter name of the instance -> Select AMI(Windows).

Launch an instance | EC2 Manag

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

### Launch an instance

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**

Name: EC2Prac1

**Application and OS Images (Amazon Machine Image)**

Search our full catalog including 1000s of application and OS images

**Quick Start**

Amazon Linux, macOS, Ubuntu, Windows, Red Hat

**Summary**

Number of instances: 1

Software Image (AMI): Microsoft Windows Server 2022 ...read more

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 t2.micro is

Launch instance

## Step 5: Select Instance type.

Launch an instance | EC2 Manag

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

### Launch an instance

**Instance type**

Instance type: t2.micro (Free tier eligible)

**Summary**

Number of instances: 1

Software Image (AMI): Microsoft Windows Server 2022 ...read more

Virtual server type (instance type): t2.micro

## Step 6: Create New Key Pair.

Launch an instance | EC2 Manag

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

### Launch an instance

**Key pair (login)**

Key pair name - required: Select

**Network settings**

Network: vpc-053fb55d34078257f

Subnet: No preference (Default subnet in any availability zone)

Auto-assign public IP: Enable

Firewall (security groups): Create security group

**Create key pair**

Key pairs allow you to connect to your instance securely.

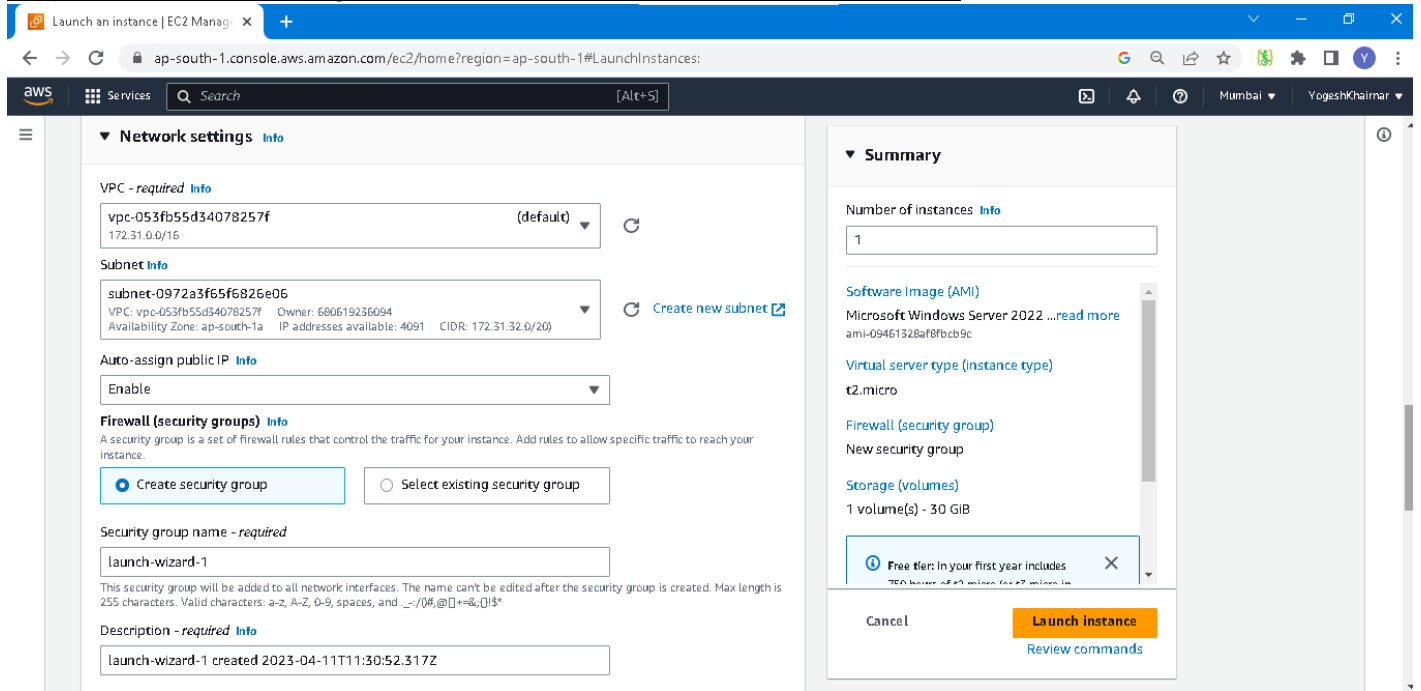
Enter the name of the key pair below. When prompted, store the private key in a secure and accessible location on your computer. You will need it later to connect to your instance. [Learn more](#)

Key pair name: Prac1\_key

Private key file format: .pem (For use with OpenSSH)

Create key pair

## Step 7: In Network Settings -> Select VPC -> Select Subnet -> Enable IP.



The screenshot shows the 'Network settings' page in the AWS EC2 Launch Wizard. The 'VPC' is set to 'vpc-053fb55d34078257f' (default) with CIDR '172.31.0.0/16'. The 'Subnet' is 'subnet-0972a3f65f6826e06' with CIDR '172.31.32.0/20'. 'Auto-assign public IP' is set to 'Enable'. Under 'Firewall (security groups)', 'Create security group' is selected. The 'Security group name' is 'launch-wizard-1' and the 'Description' is 'launch-wizard-1 created 2023-04-11T11:30:52.317Z'. The 'Summary' panel on the right shows 'Number of instances' as 1, 'Software Image (AMI)' as 'Microsoft Windows Server 2022', 'Virtual server type (instance type)' as 't2.micro', 'Firewall (security group)' as 'New security group', and 'Storage (volumes)' as '1 volume(s) - 30 GiB'. A 'Free tier' notification is visible at the bottom of the summary panel.

**Network settings** Info

VPC - required Info  
vpc-053fb55d34078257f (default) 172.31.0.0/16

Subnet Info  
subnet-0972a3f65f6826e06 VPC: vpc-053fb55d34078257f Owner: 680619236094 Availability Zone: ap-south-1a IP addresses available: 4091 CIDR: 172.31.32.0/20

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

Security group name - required  
launch-wizard-1

Description - required Info  
launch-wizard-1 created 2023-04-11T11:30:52.317Z

**Summary**

Number of instances Info  
1

Software Image (AMI)  
Microsoft Windows Server 2022 ...read more  
ami-09461328a8f8bcb9c

Virtual server type (instance type)  
t2.micro

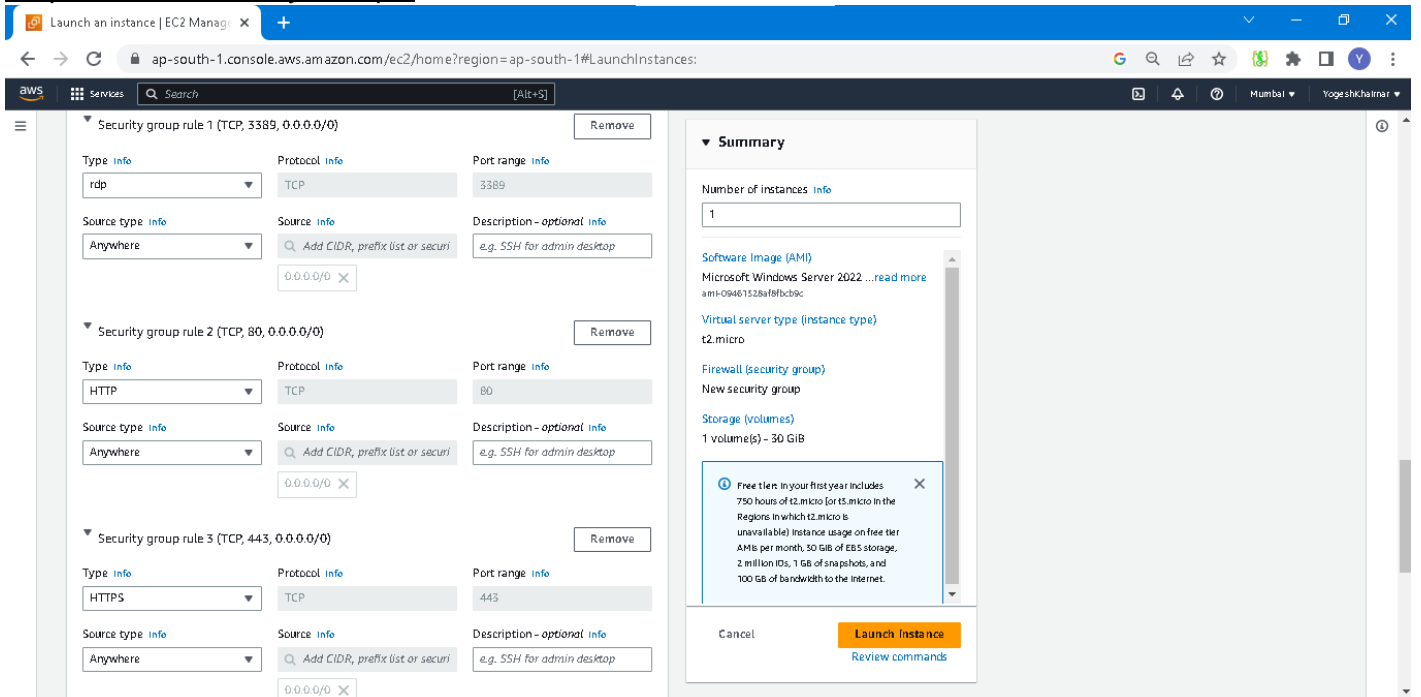
Firewall (security group)  
New security group

Storage (volumes)  
1 volume(s) - 30 GiB

Free tier: In your first year includes 750 hours of t2.micro for t2.micro in the Regions in which t2.micro is unavailable. Instance usage on free tier AMIs per month, 50 GiB of EBS storage, 2 million I/Os, 1 GB of snapshots, and 100 GB of bandwidth to the Internet.

Cancel Launch instance Review commands

## Step 8: Select Security Groups.



The screenshot shows the 'Security groups' page in the AWS EC2 Launch Wizard. Three security group rules are defined: Rule 1 (TCP, 3389, 0.0.0.0/0), Rule 2 (TCP, 80, 0.0.0.0/0), and Rule 3 (TCP, 443, 0.0.0.0/0). All rules have 'Source type' set to 'Anywhere'. The 'Summary' panel on the right shows 'Number of instances' as 1, 'Software Image (AMI)' as 'Microsoft Windows Server 2022', 'Virtual server type (instance type)' as 't2.micro', 'Firewall (security group)' as 'New security group', and 'Storage (volumes)' as '1 volume(s) - 30 GiB'. A 'Free tier' notification is visible at the bottom of the summary panel.

**Security group rule 1 (TCP, 3389, 0.0.0.0/0)**

Type Info: rdp Protocol Info: TCP Port range Info: 3389

Source type Info: Anywhere Source Info: 0.0.0.0/0 Description - optional Info: e.g. SSH for admin desktop

**Security group rule 2 (TCP, 80, 0.0.0.0/0)**

Type Info: HTTP Protocol Info: TCP Port range Info: 80

Source type Info: Anywhere Source Info: 0.0.0.0/0 Description - optional Info: e.g. SSH for admin desktop

**Security group rule 3 (TCP, 443, 0.0.0.0/0)**

Type Info: HTTPS Protocol Info: TCP Port range Info: 443

Source type Info: Anywhere Source Info: 0.0.0.0/0 Description - optional Info: e.g. SSH for admin desktop

**Summary**

Number of instances Info  
1

Software Image (AMI)  
Microsoft Windows Server 2022 ...read more  
ami-09461328a8f8bcb9c

Virtual server type (instance type)  
t2.micro

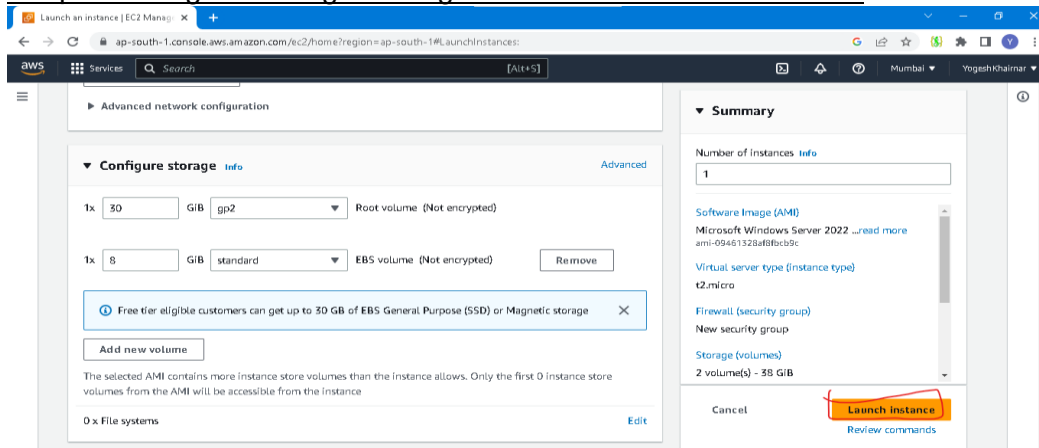
Firewall (security group)  
New security group

Storage (volumes)  
1 volume(s) - 30 GiB

Free tier: In your first year includes 750 hours of t2.micro for t2.micro in the Regions in which t2.micro is unavailable. Instance usage on free tier AMIs per month, 50 GiB of EBS storage, 2 million I/Os, 1 GB of snapshots, and 100 GB of bandwidth to the Internet.

Cancel Launch instances Review commands

## Step 9: Configure Storage Settings -> Click on Launch Instances.



The screenshot shows the 'Configure storage' page in the AWS EC2 Launch Wizard. Two storage volumes are configured: a root volume of 30 GiB using gp2 storage type, and an EBS volume of 8 GiB using standard storage type. The 'Summary' panel on the right shows 'Number of instances' as 1, 'Software Image (AMI)' as 'Microsoft Windows Server 2022', 'Virtual server type (instance type)' as 't2.micro', 'Firewall (security group)' as 'New security group', and 'Storage (volumes)' as '2 volume(s) - 38 GiB'. A 'Free tier' notification is visible at the bottom of the summary panel. The 'Launch instance' button is highlighted with a red box.

**Configure storage** Info

1x 30 GiB gp2 Root volume (Not encrypted)

1x 8 GiB standard EBS volume (Not encrypted)

Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage

Add new volume

The selected AMI contains more instance store volumes than the instance allows. Only the first 0 instance store volumes from the AMI will be accessible from the instance

0 x file systems Edit

**Summary**

Number of instances Info  
1

Software Image (AMI)  
Microsoft Windows Server 2022 ...read more  
ami-09461328a8f8bcb9c

Virtual server type (instance type)  
t2.micro

Firewall (security group)  
New security group

Storage (volumes)  
2 volume(s) - 38 GiB

Free tier: In your first year includes 750 hours of t2.micro for t2.micro in the Regions in which t2.micro is unavailable. Instance usage on free tier AMIs per month, 50 GiB of EBS storage, 2 million I/Os, 1 GB of snapshots, and 100 GB of bandwidth to the Internet.

Cancel Launch instance Review commands

## Step 10: Click on Connect To Instances.

Launch an instance | EC2 Manag

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

Success  
Successfully initiated launch of instance (i-0ca960359d1a71590)  
► Launch Log

Next Steps

What would you like to do next with this instance, for example "create alarm" or "create backup"

Create billing and free tier usage alerts  
To manage costs and avoid surprise bills, set up email notifications for billing and free tier usage thresholds.

Connect to your instance  
Once your instance is running, log into it from your local computer.  
**Connect to instance**

Connect an RDS database  
Configure the connection between an EC2 instance and a database to allow traffic flow between them.  
Connect an RDS database

Create EBS snapshot policy  
Create a policy that automates the creation, retention, and deletion of EBS snapshots  
Create EBS snapshot policy

## Step 11: Click on RDP Client -> select 'Connect using RDP Client' -> Download 'Remote Desktop file'.

Launch an instance | EC2 Manag

Connect to instance | EC2 Manag

ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#ConnectToInstance:instanceId=i-0ca960359d1a71590

Connect to instance Info  
Connect to your instance i-0ca960359d1a71590 (EC2Prac1) using any of these options

Session Manager **RDP client** EC2 serial console

Instance ID  
i-0ca960359d1a71590 (EC2Prac1)

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:

Launch an instance | EC2 Manag

Connect to instance | EC2 Manag

ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#ConnectToInstance:instanceId=i-0ca960359d1a71590

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

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 details:

Public DNS  
ec2-13-127-156-239.ap-south-1.compute.amazonaws.com

User name  
Administrator

Password  
Get password

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

## Step 12: Upload Key-Pair file and decrypt the password.

Launch an instance | EC2 Manag x Get windows password | EC2 Ma x +

ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#GetWindowsPassword:instanceId=i-0ca960359d1a71590;previousPlace=ConnectToInsta...

Services Search [Alt+S]

Instances

i-0ca960359d1a71590 (EC2Prac1)

Key pair associated with this instance

Prac1\_key

Private key

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

Upload private key file 1

Prac1\_key.pem  
1.678KB

Private key contents - optional

```
-----BEGIN RSA PRIVATE KEY-----
MIIEpAIBAAKCAQEAoBO1M40oQMMWyxNtfM8Nnax/oDlG1rEFmHH8sXqfYKt5B6
c50Kjq5hBWafoAgzqYXbBxZ1GTfX3GVnAGIM7NIEVQ9WtsVGSKiFcSbi4VL1so
oTq510yHKpCTDqNjLaawAubZ8fjNBXddegCdFjwD2G8rjhrq/6UfucxK1YRYw8Pxp
DVRP3wDdHQX0nOM3Pb1m7FxBXdDrOPQd/z03rTMnlaNb9qLELwk9y6wm8P6IGtGQ
iNZ3tLKxOIHhiy6fLP14v68gS5isxjEYUBLKwVyy4Fo4JNy+o6TJBbP5r1+32o/
idTNV97oqHaYsyhFHEvW1aQj6i+N/7DFDcb+IwIDAQABAoIBAGS5we0SRzXpDDAZ
HfT9psfGjF3OkvTE8vZn00+CD04Hoo/GS4ihQAe7eHOH2c9gf5Lu5i7TxfGese
-----
```

Cancel Decrypt password 2

CloudShell Feedback Language © 2023, Amazon Web Services India Private Limited or its affiliates. Privacy Terms Cookie preferences

EC2Prac1.rdp Prac1\_key.pem Show all x

Type here to search

ENG US 5:25 PM 4/11/2023

## Step 13: Copy that decrypted password.

Launch an instance | EC2 Manag x Connect to instance | EC2 Manag x +

ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#ConnectToInstance:instanceId=i-0ca960359d1a71590

Services Search [Alt+S]

Instances

i-0ca960359d1a71590 (EC2Prac1)

your password

Download remote desktop file

When prompted, connect to your instance using the following details:

Public DNS

ec2-13-127-156-239.ap-south-1.compute.amazonaws.com

User name

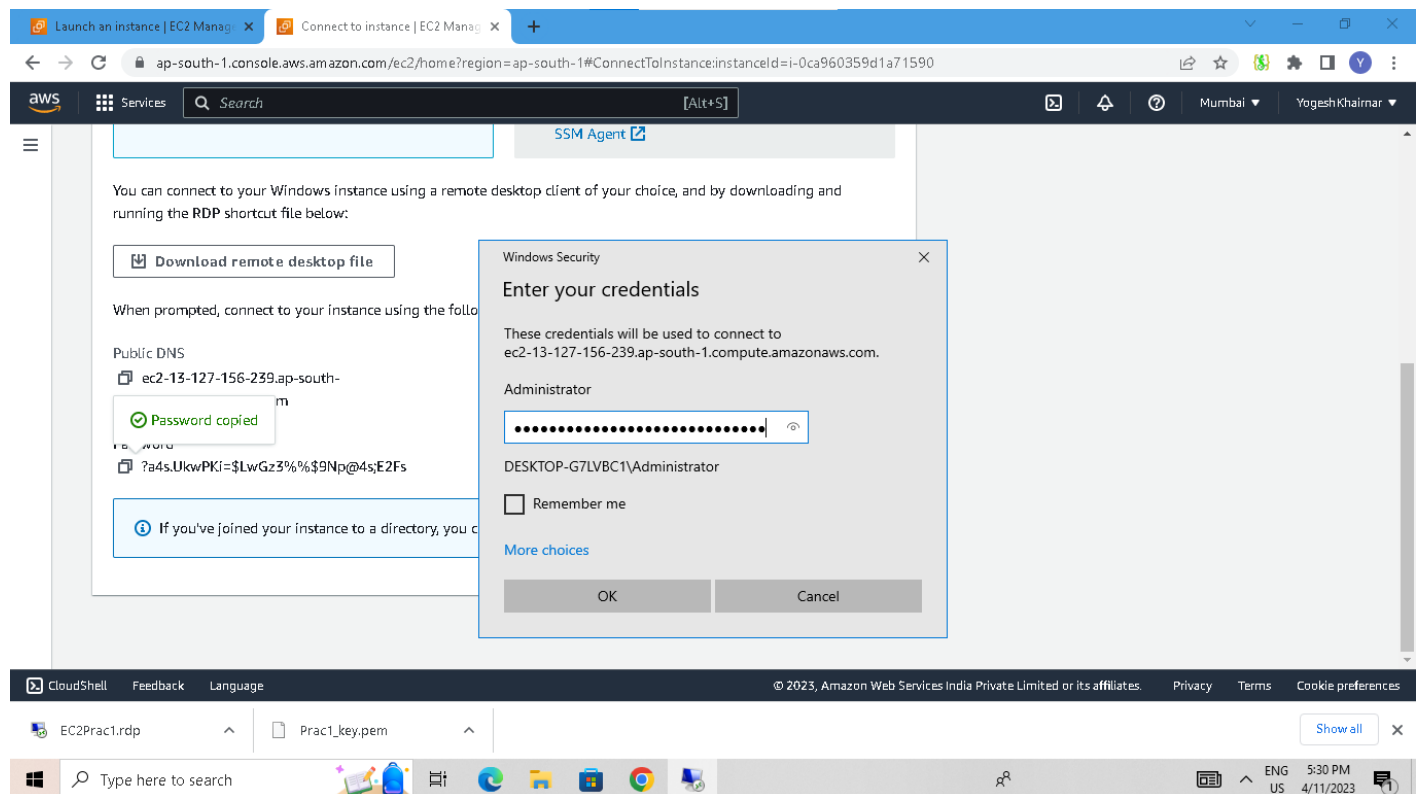
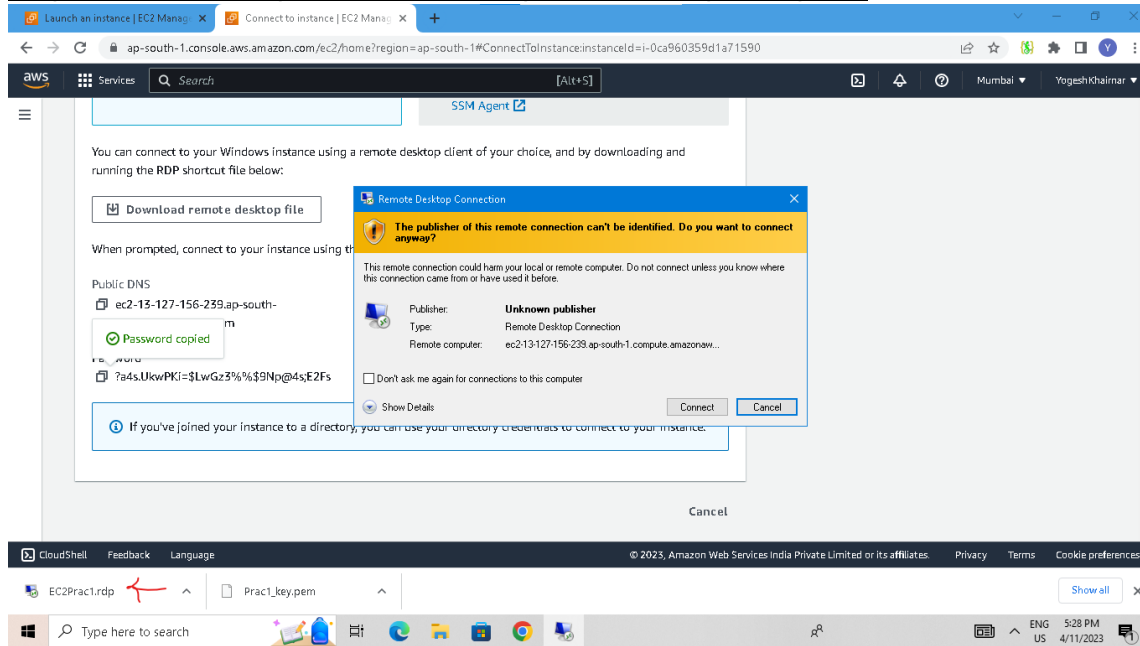
Administrator

Password

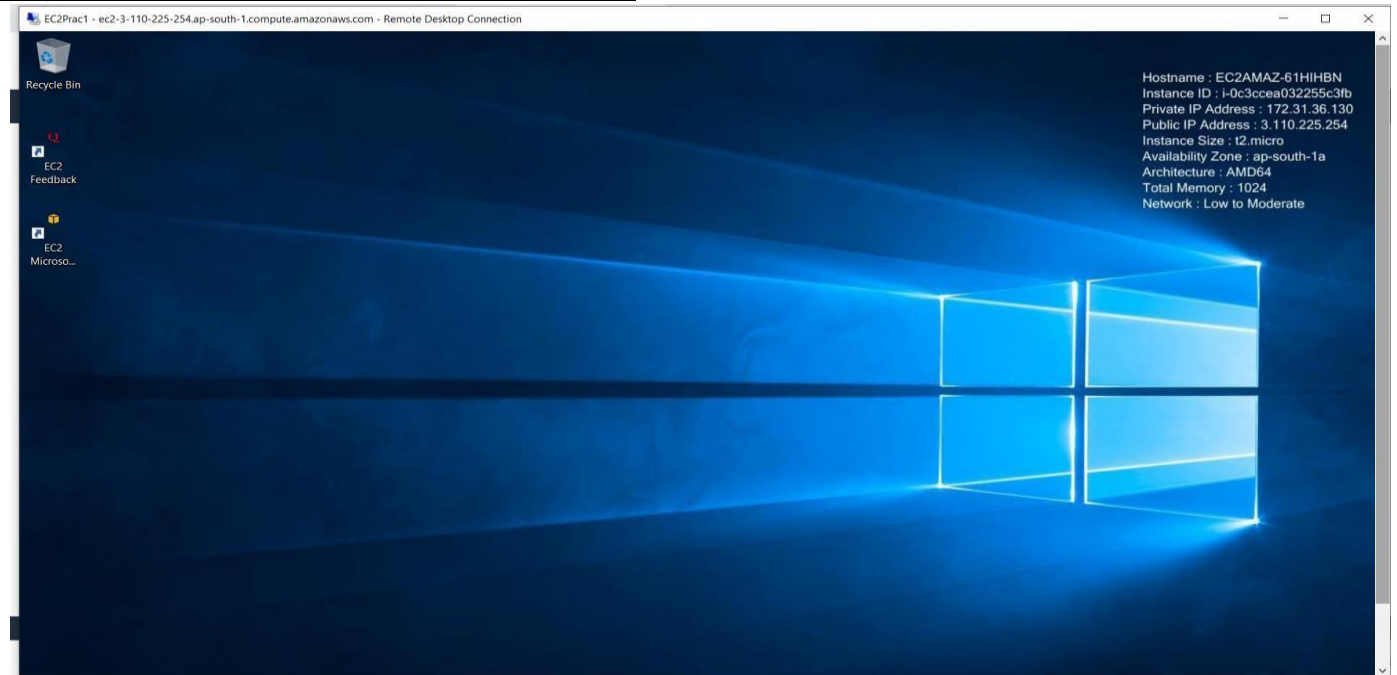
?a4s.UkwPKI=\$LwGz3%%\$9Np@4s;E2Fs

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

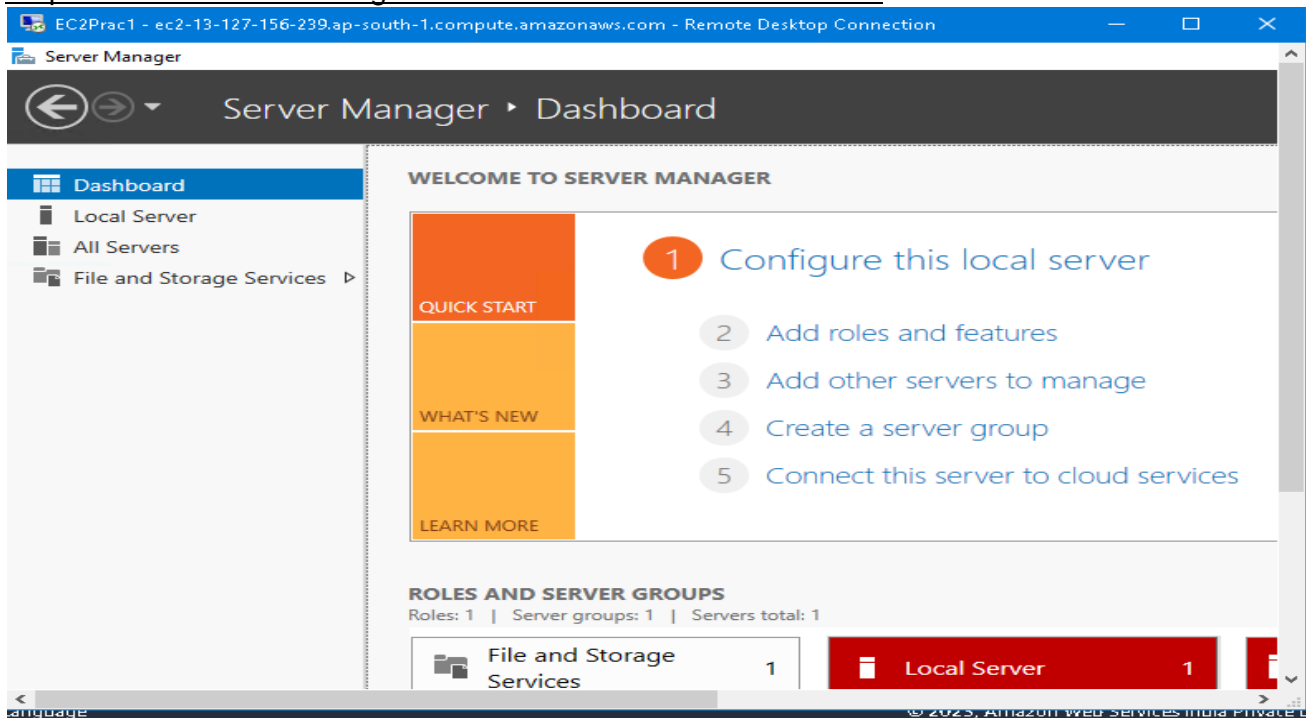
## Step 14: Connect .rdp file -> Paste that password to open .rdp file.



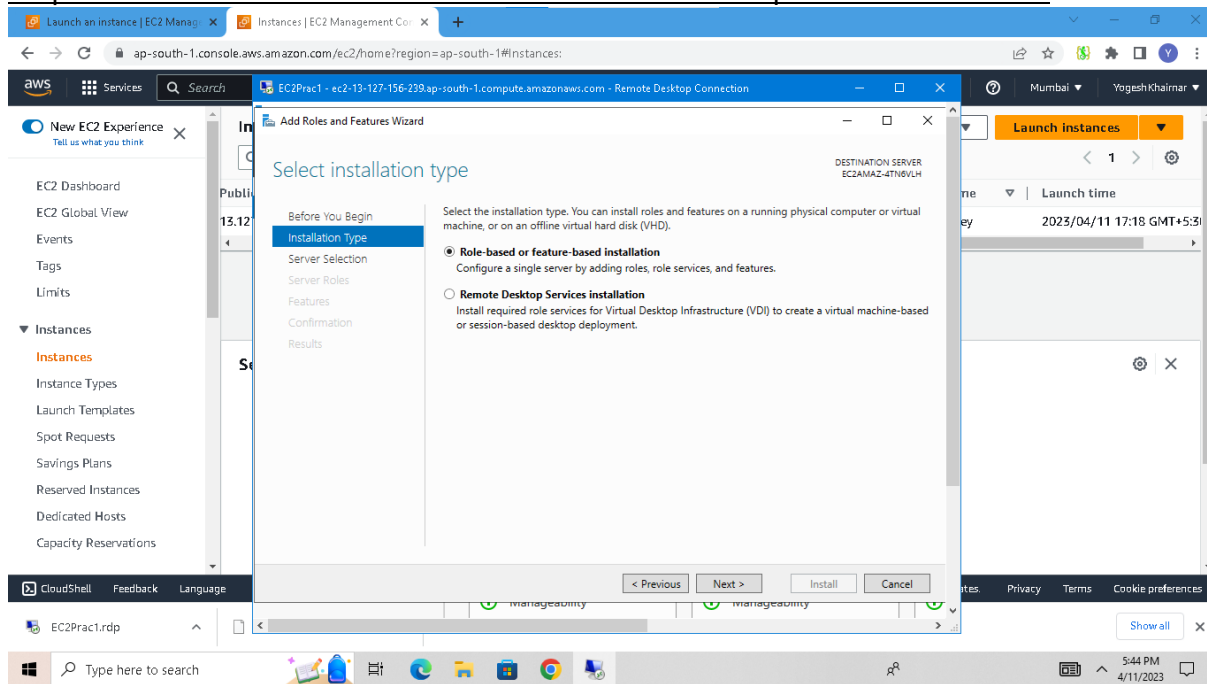
Step 15: Now we can see the launched instance.



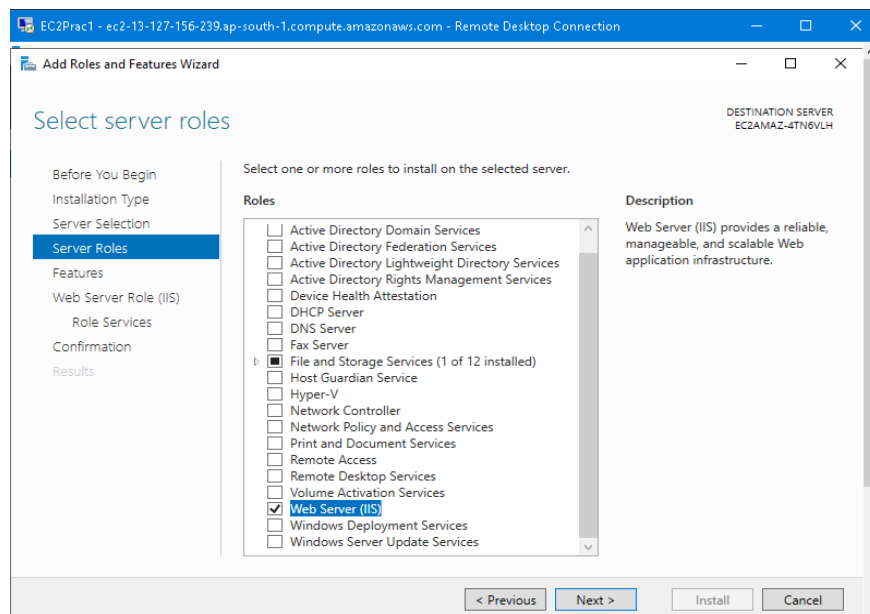
Step 16: Go to Server Manager -> Click on 'add roles and features'.



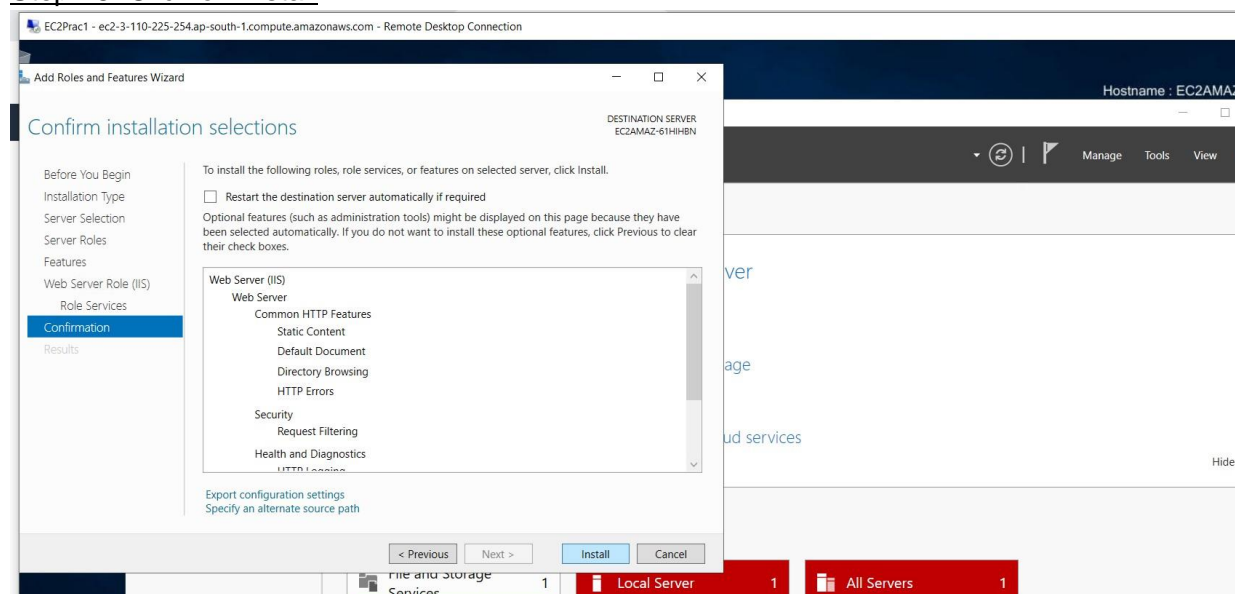
## Step 17: Select 'Role-based or feature-based installation' option -> click on next.



## Select Web Server(IIS)-> click on next.

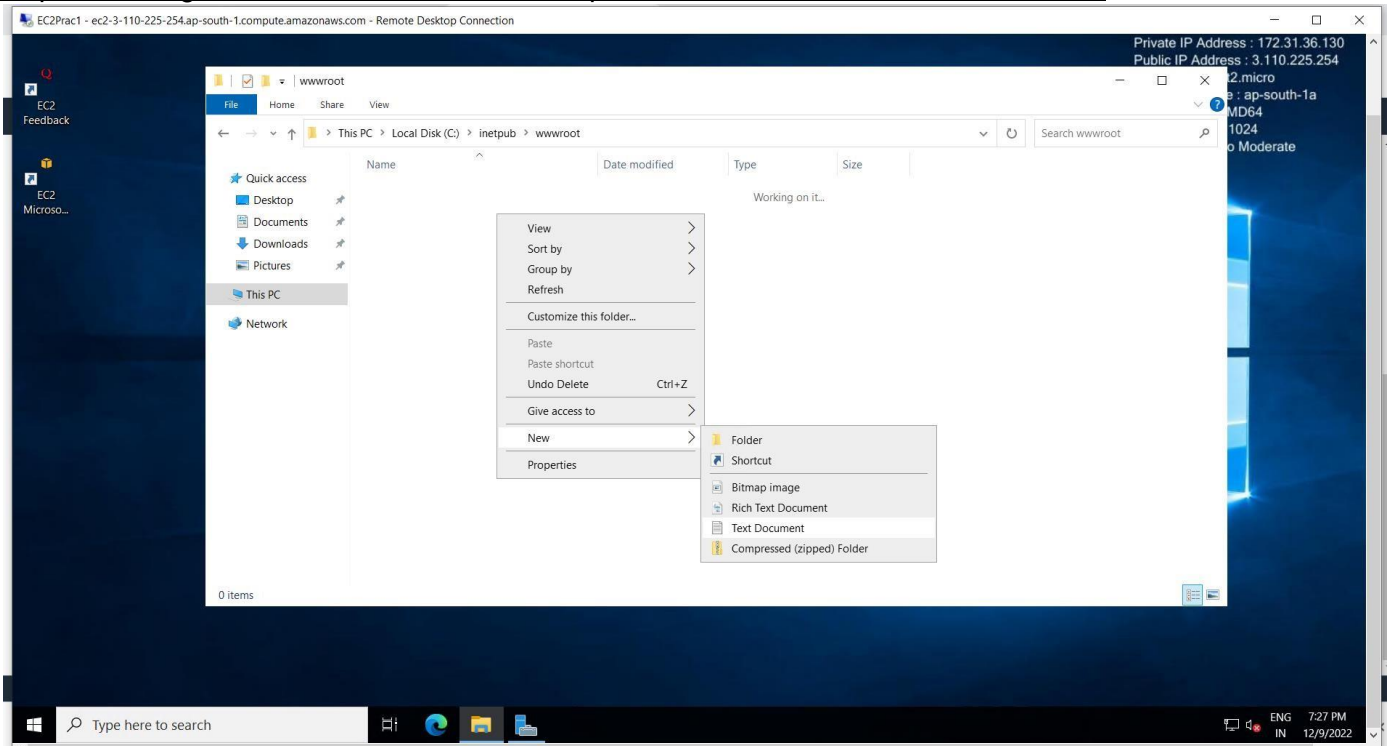


## Step 18: Click on Install.

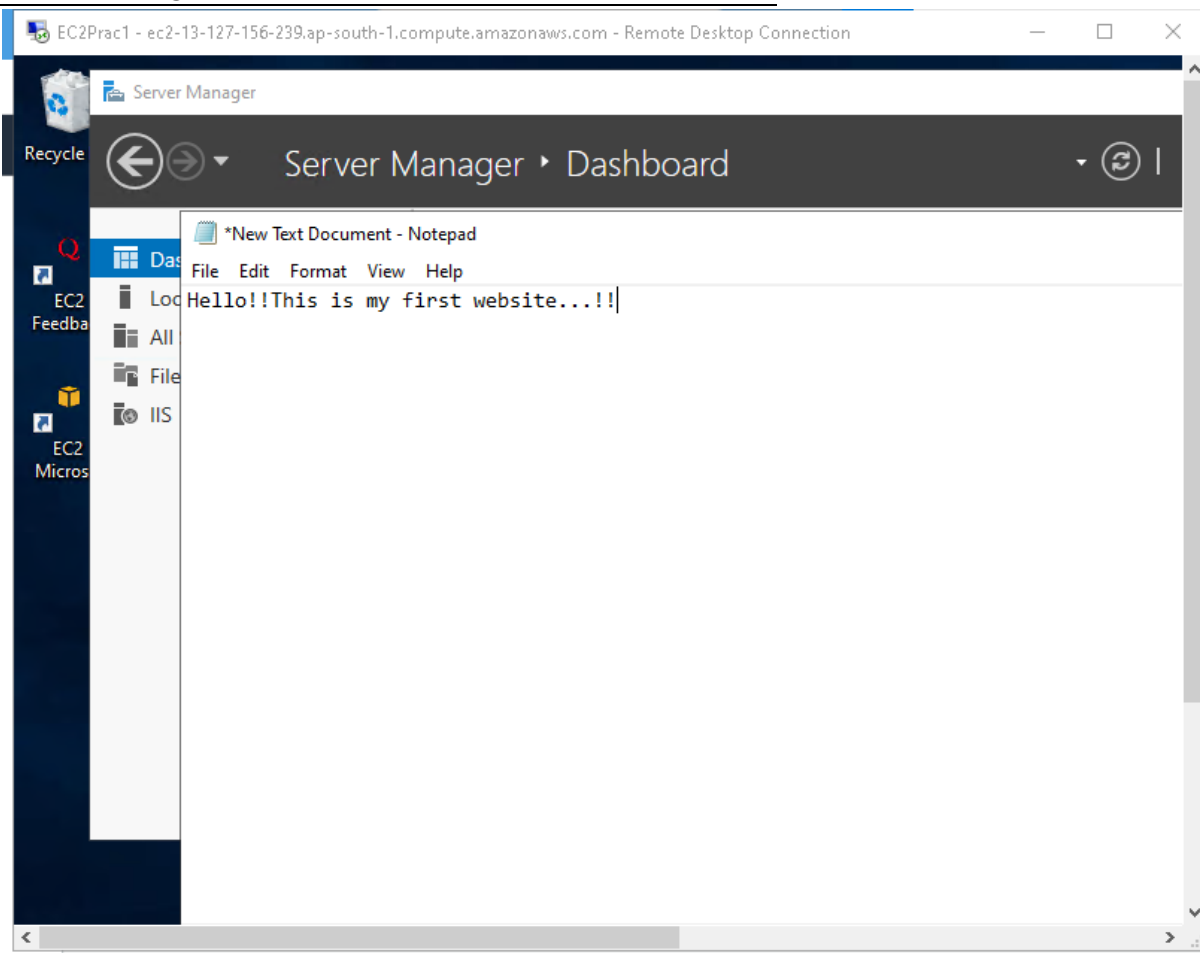




Step 19: Now go to This PC -> C Drive -> inetpub -> wwwroot and create new text file.



Write HTML Code in that text file and save it as 'index.html'.



## Step 20: Now Copy the public IP address -> Open browser in host machine -> paste that public IP

The screenshot displays the AWS Management Console interface for an EC2 instance. The instance ID is **i-0ca960359d1a71590 (EC2Prac1)**. The public IPv4 address is **13.127.156.239**, which is highlighted with a red box. The instance state is **Running**. The private IP address is **172.31.35.131**. The instance type is **t2.micro**. The VPC ID is **vpc-053fb55d34078257f**. The public IPv4 DNS is **ec2-13-127-156-239.ap-south-1.compute.amazonaws.com**. The private IP DNS name is **ip-172-31-35-131.ap-south-1.compute.internal**. The auto-assigned IP address is **13.127.156.239 [Public IP]**. The instance is located in the **ap-south-1** region. The console also shows a sidebar with navigation options like **EC2 Dashboard**, **EC2 Global View**, **Events**, **Tags**, **Limits**, **Instances**, **Instance Types**, **Launch Templates**, **Spot Requests**, **Savings Plans**, **Reserved Instances**, **Dedicated Hosts**, and **Capacity Reservations**. The bottom of the console shows a **CloudShell** button and a **Feedback** link. The Windows taskbar at the bottom shows a file explorer window with **Prac1\_key.pem** and a browser window with the IP address **13.127.156.239**.

The screenshot shows a mobile browser interface. The address bar displays the IP address **13.127.156.239**. The page content shows the text **Hello!!This is my first website...!!**. The browser interface includes a status bar at the top showing the time **6:08 PM**, signal strength, and battery level. The bottom of the screen shows a navigation bar with a back button, a home button, and a recent apps button.

Step 21: To terminate Instance , select that instance-> Click on instance state -> click on 'Terminate Instance'

The screenshot shows the AWS Management Console interface. On the left, the navigation menu includes 'EC2 Dashboard', 'EC2 Global View', 'Events', 'Tags', 'Limits', and 'Instances'. The 'Instances' section is expanded, showing a list of instances. One instance, 'EC2Prac1' with ID 'i-0ca960359d1a71590', is in the 'Running' state. A dropdown menu is open for this instance, showing options: 'Stop instance', 'Start instance', 'Reboot instance', 'Hibernate instance', and 'Terminate instance'. The 'Terminate instance' option is highlighted with a red rectangle. Below the instance list, the details for 'Instance: i-0ca960359d1a71590 (EC2Prac1)' are shown, including its ID, public IPv4 address (13.127.156.239), private IPv4 addresses (172.31.35.131), and instance state (Running). The bottom of the console shows a 'Sending request...' status bar and a taskbar with various application icons.

Step 22: We can see the instance is terminated.

The screenshot shows the AWS Management Console interface after the instance has been terminated. A green banner at the top of the console area states 'Successfully terminated i-0ca960359d1a71590'. The instance list now shows 'EC2Prac1' with ID 'i-0ca960359d1a71590' in the 'Terminated' state. The details for 'Instance: i-0ca960359d1a71590 (EC2Prac1)' are still visible, but the instance state is now 'Terminated'. The bottom of the console shows a 'CloudShell' status bar and a taskbar with various application icons.