

Made By

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The screenshot shows the AWS Management Console homepage in a web browser. The URL in the address bar is `console.aws.amazon.com/console/home?nc2=h_ct®ion=us-east-1&src=header-signin#`. The browser has multiple tabs open, including one for WhatsApp and another for the AWS Management Console.

The AWS Management Console interface includes:

- AWS services sidebar:** Shows "Recently visited services" with a link to EC2, and a "All services" link.
- Build a solution section:** Offers three quick-start options:
 - Launch a virtual machine:** With EC2, 2-3 minutes, represented by a CPU icon.
 - Build a web app:** With Elastic Beanstalk, 6 minutes, represented by a cloud icon.
 - Build using virtual servers:** With Lightsail, 1-2 minutes, represented by a server icon.
- New AWS Console Home:** A promotional section encouraging users to switch to the new customizable Console Home experience. It includes a "Switch now" button and a preview image of the new interface.
- Stay connected to your AWS resources on-the-go:** A section about the AWS Console Mobile App supporting four additional regions, with a download link for iOS or Android devices.
- Explore AWS:** A section for exploring various AWS services.

At the bottom, there are links for Feedback, English (US), Privacy, Terms, and Cookie preferences, along with a toolbar of common application icons. The status bar at the bottom right shows the date (1/28/2022), time (9:19 AM), and language (ENG IN).

- Login to your AWS Console Account

- Now you know how to create Virtual Windows Machine.
- So please create your EC2 Instance.
- If you want to know how to create EC2 instance then follow our 1st Practical PPT.
- So we have skipped that step and performed further practical of launching HTML Application on our VM.

(13) WhatsApp Instances | EC2 Management Cor +

ap-south-1.console.aws.amazon.com/ec2/v2/home?region=ap-south-1#Instances:

Apps Google Satish DevOps Engg SOCIAL New folder PDF Lake IMP Backlink MPSC Online Google YouTube Marathi Typing | En... Majhi Naukri | माझी... Other bookmarks Reading list

aws Services Search for services, features, blogs, docs, and more [Alt+S]

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

Feedback English (US) ▾

Instances (1/1) Info

Search

Name Instance ID Instance state Instance type Status check Alarm status Availability Zone

2nd Practical i-035c133d85e571499 Running t2.micro 2/2 checks passed No alarms ap-south-1a

Instance: i-035c133d85e571499 (2nd Practical)

Details Security Networking Storage Status checks Monitoring Tags

Instance summary Info

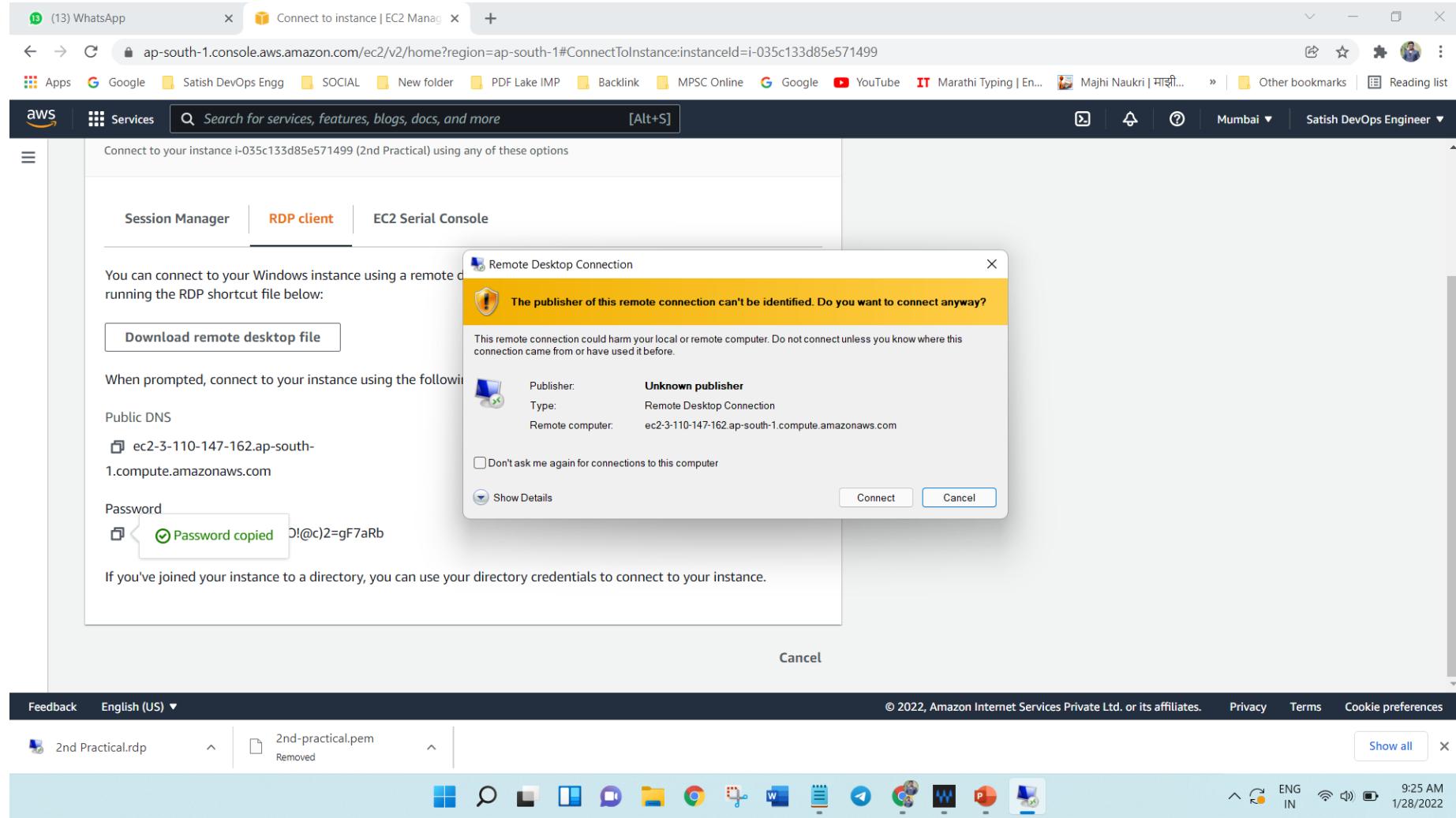
Instance ID i-035c133d85e571499 (2nd Practical)	Public IPv4 address 3.110.147.162 open address ↗	Private IPv4 addresses 172.31.45.0
IPv6 address -	Instance state Running	Public IPv4 DNS ec2-3-110-147-162.ap-south-1.compute.amazonaws.com open address ↗

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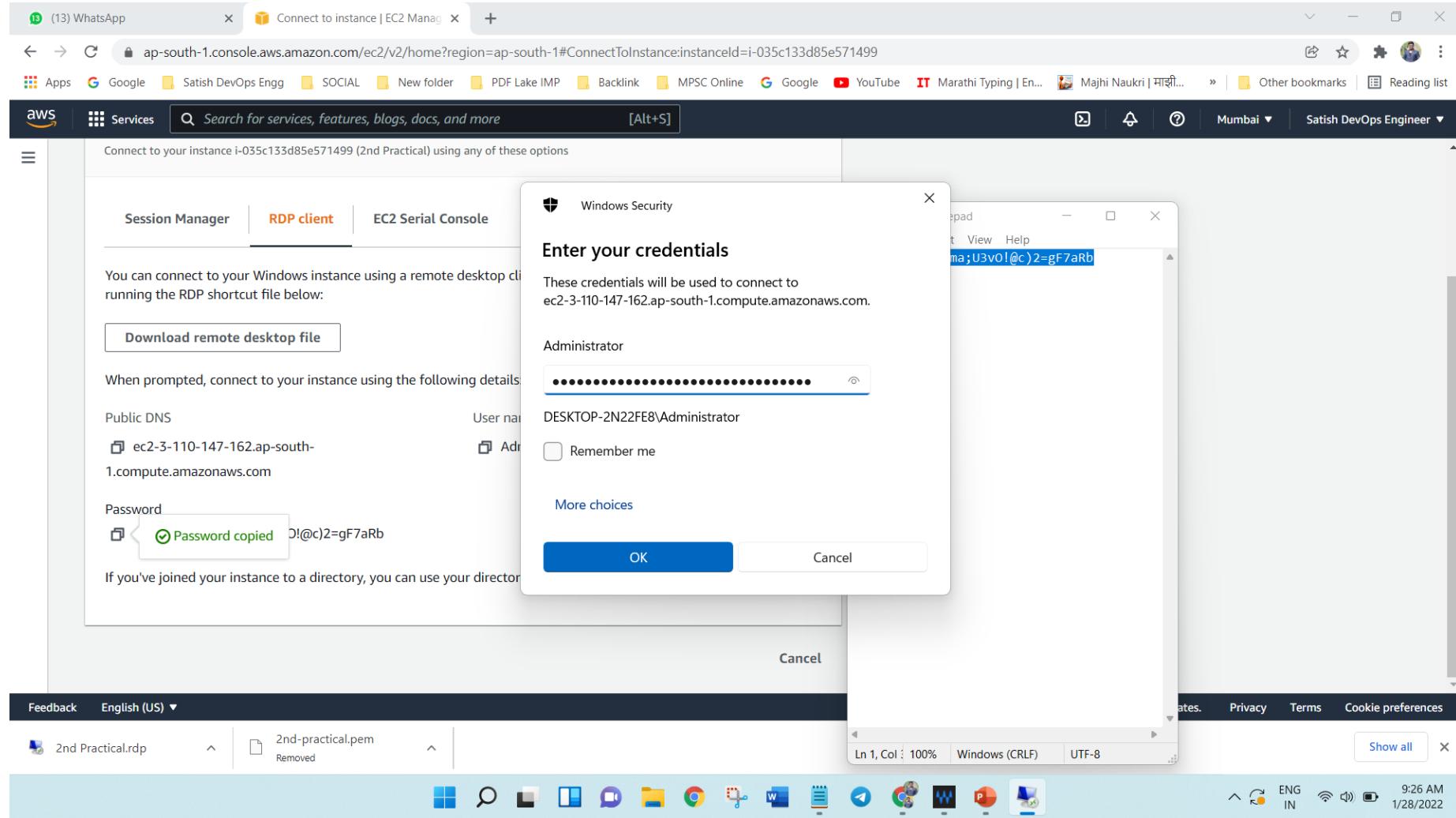
2nd-practical.pem Show all X

9:24 AM 1/28/2022

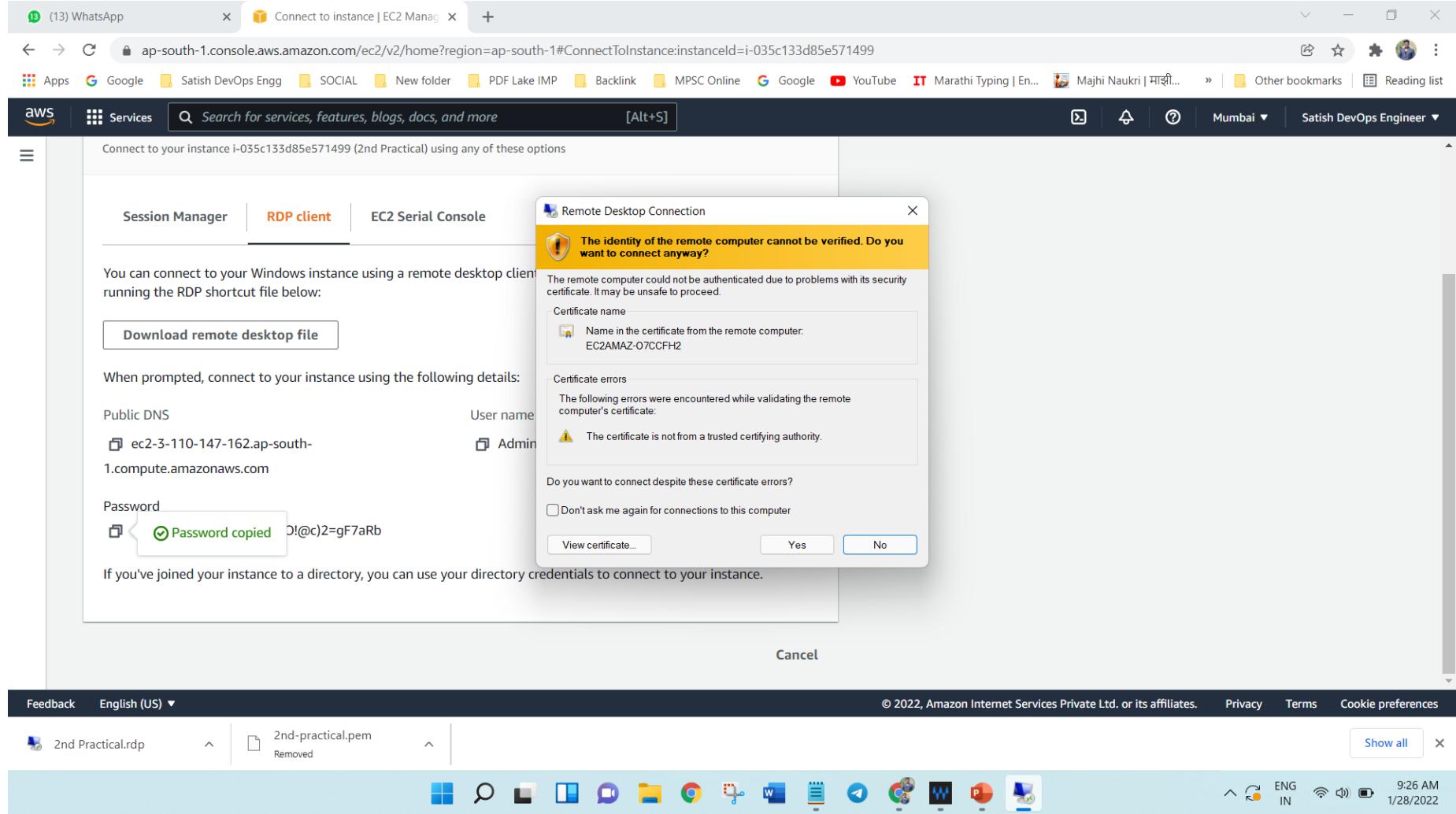
- So instance is created. 2/2 checks successfully.
- Now click on connect.
- Use your private key to decrypt password.
- Then login to your VM.
- If you face any issue then follow the steps performed in 1st practical.



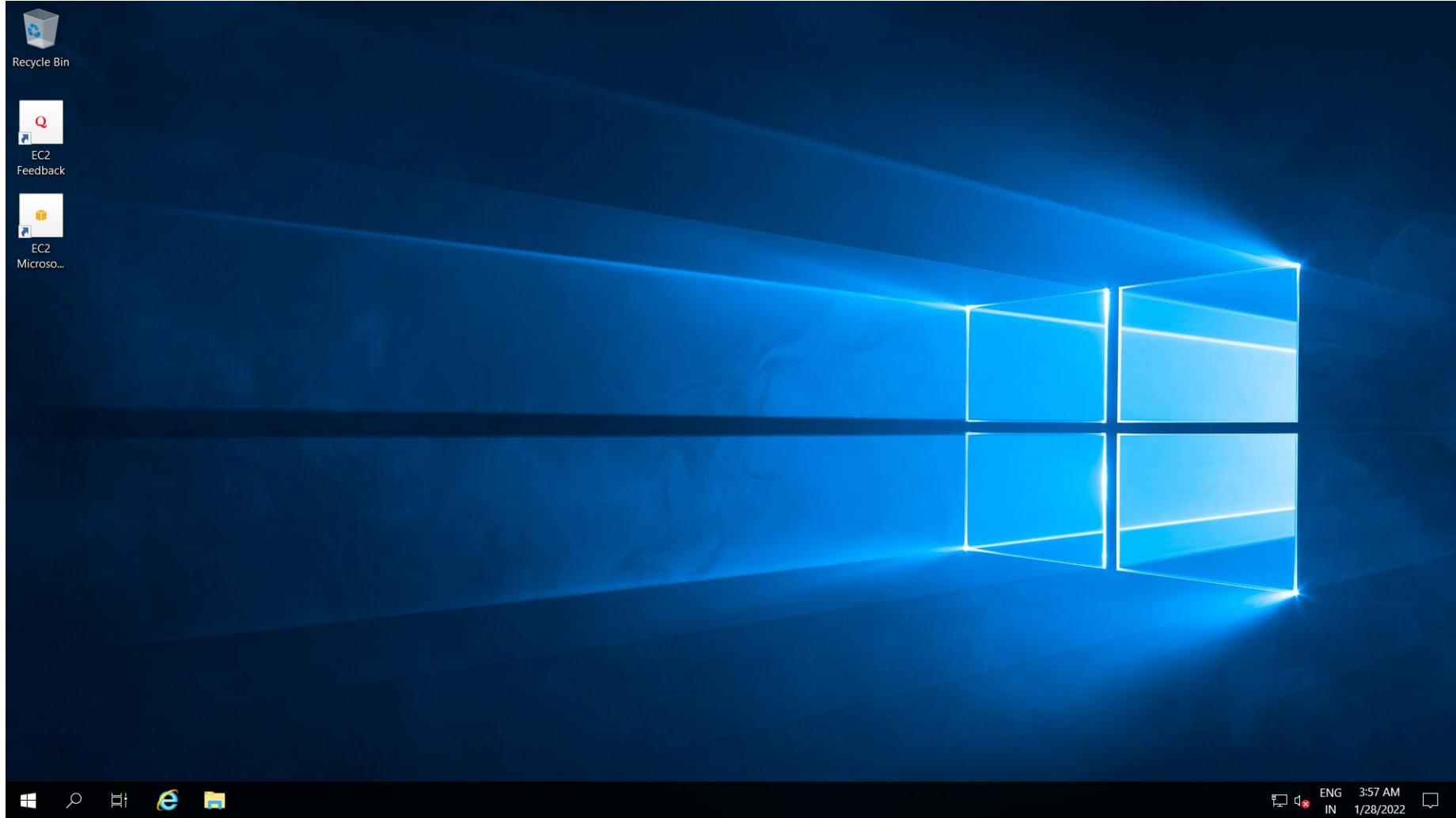
- Now open your downloaded .rdp file
- Click on connect



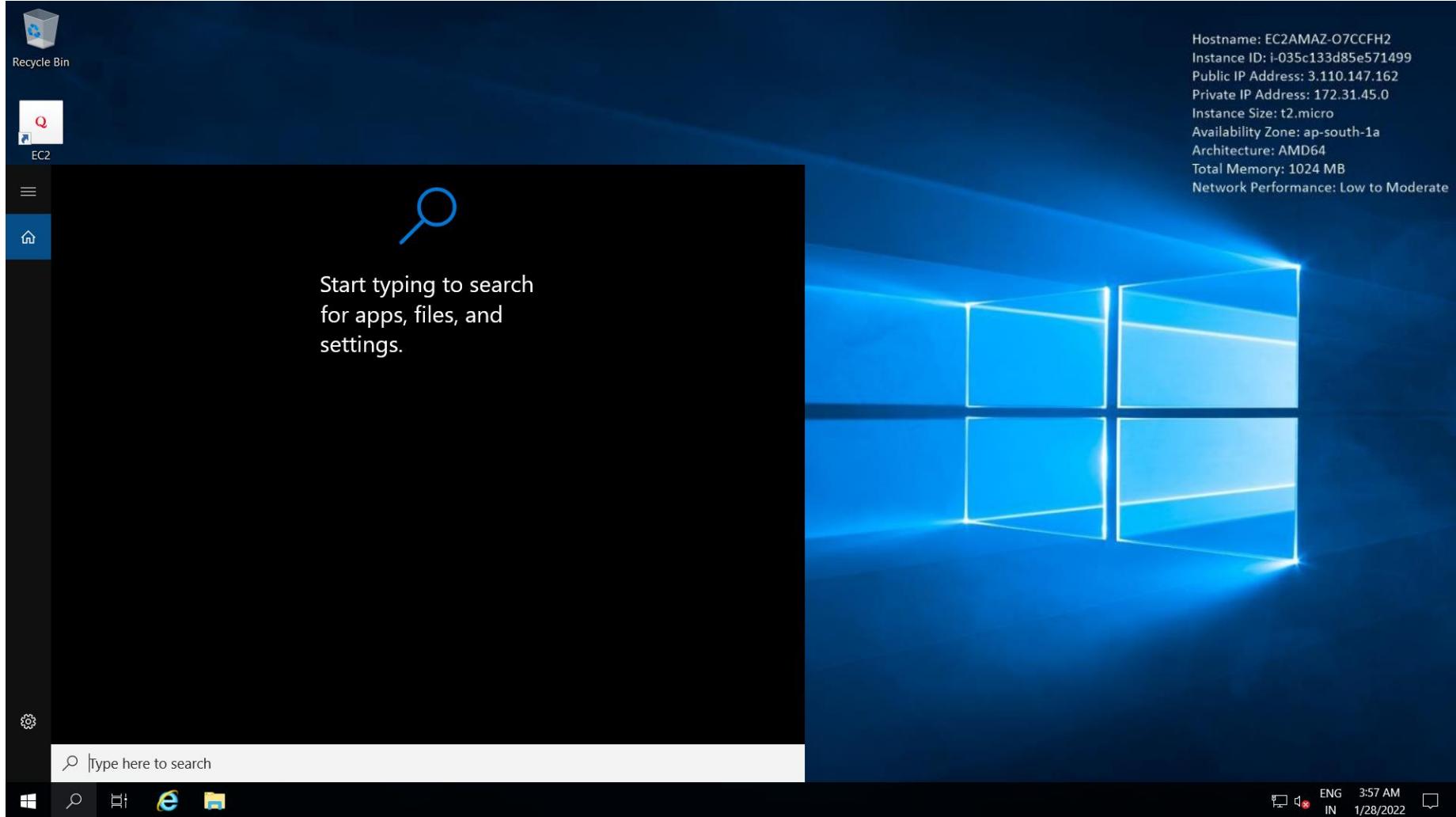
- Enter your generated password
- Then click on OK



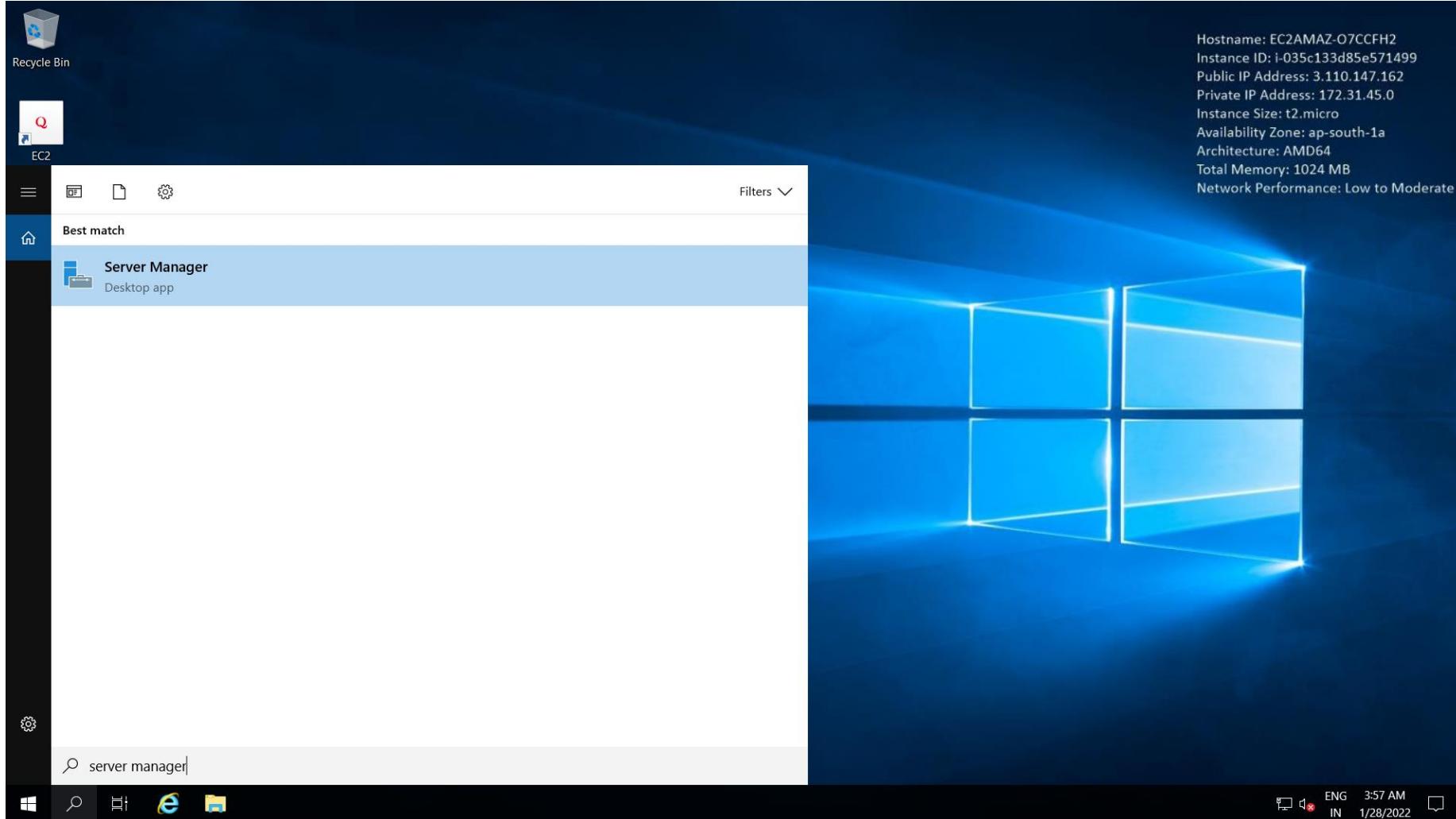
- This type of popup message will appear on the screen.
- Please click on Yes



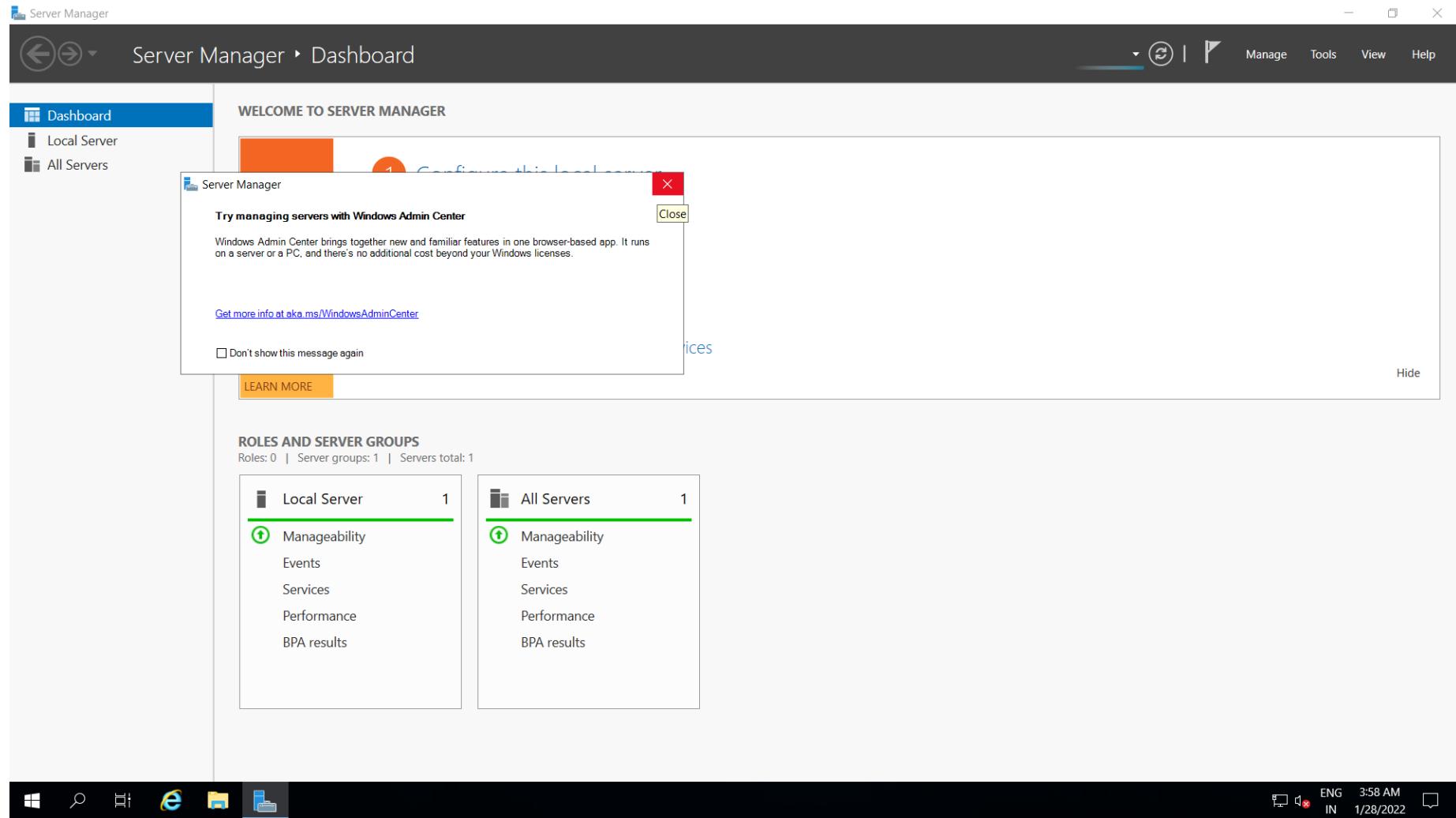
- So here your VM is ready



- Click on search bar



- Search for **SERVER MANAGER**
- And click on **SERVER MANAGER**



- After opening of server manager, please close all popup messages.

Server Manager

Server Manager ▸ Dashboard

Dashboard Local Server All Servers

WELCOME TO SERVER MANAGER

QUICK START

1 Configure this local server

2 Add roles and features

3 Add other servers to manage

4 Create a server group

5 Connect this server to cloud services

WHAT'S NEW

LEARN MORE

Hide

ROLES AND SERVER GROUPS

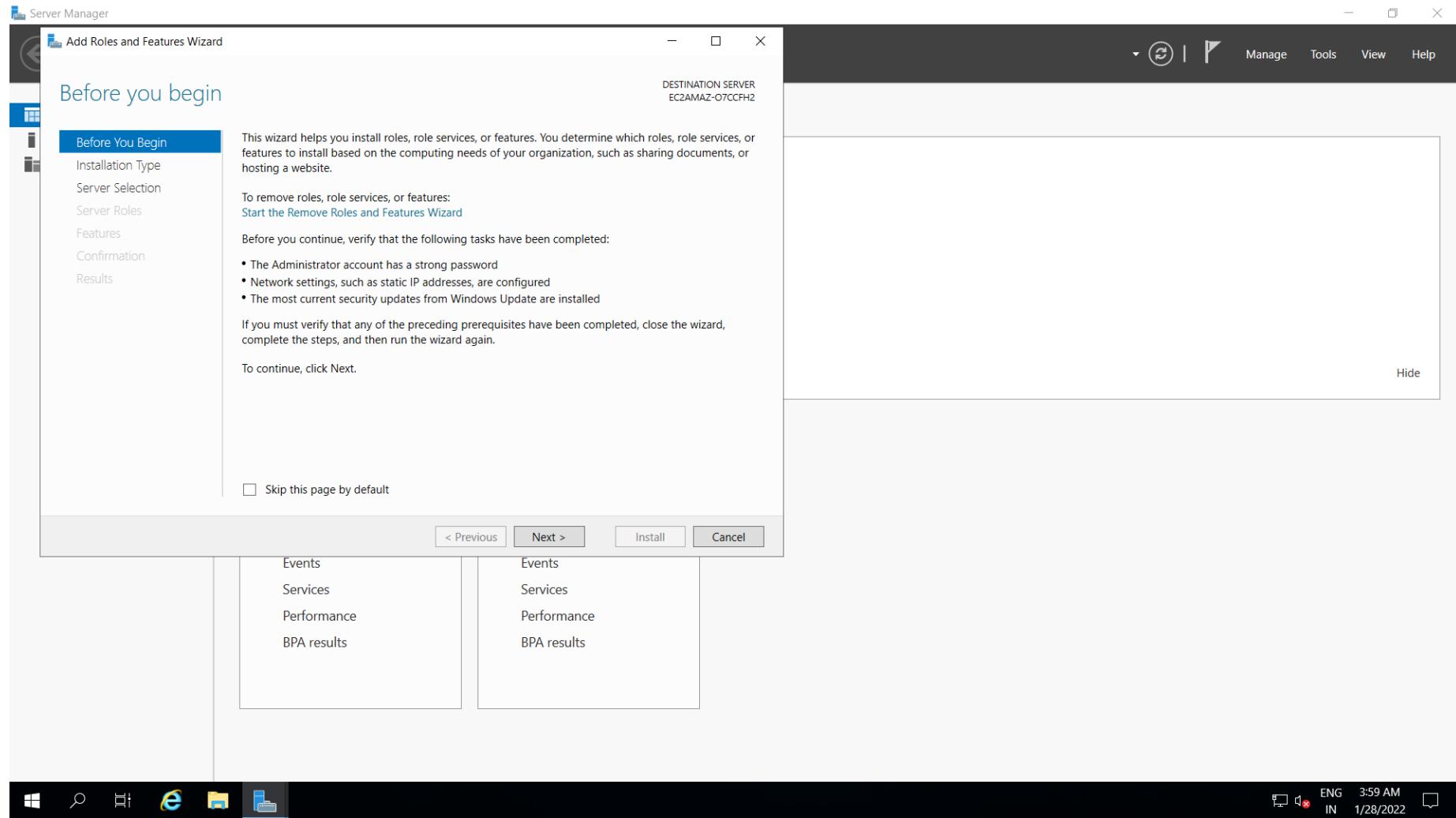
Roles: 0 | Server groups: 1 | Servers total: 1

	Local Server 1
	Manageability
	Events
	Services
	Performance
	BPA results
	All Servers 1
	Manageability
	Events
	Services
	Performance
	BPA results

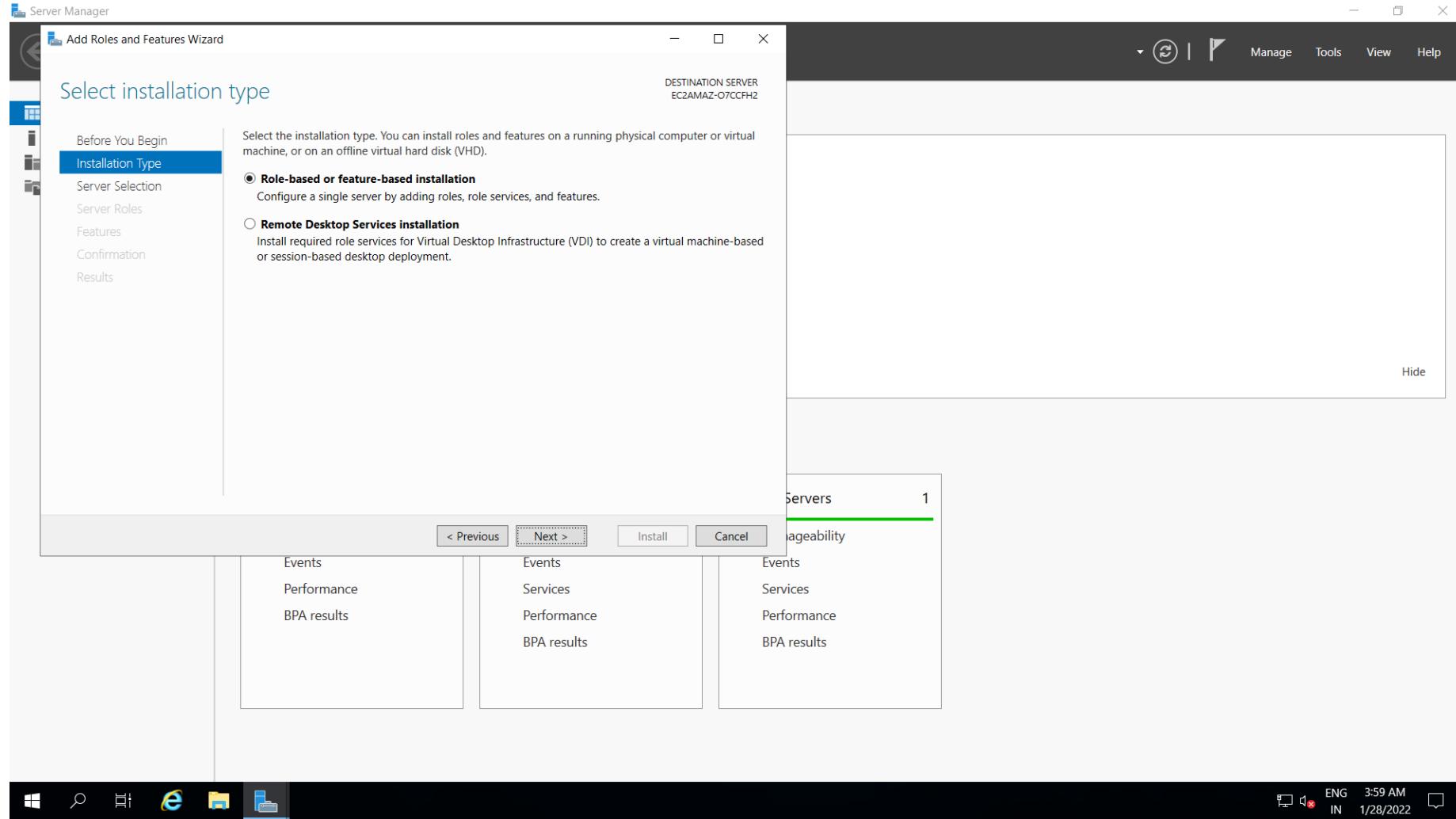
Windows Search File Explorer Task View Start 3:58 AM ENG IN 1/28/2022

The screenshot shows the Windows Server Manager dashboard. On the left, there's a navigation bar with 'Dashboard' selected. The main area has a 'WELCOME TO SERVER MANAGER' section with a 'QUICK START' panel containing five numbered steps: 1. Configure this local server, 2. Add roles and features, 3. Add other servers to manage, 4. Create a server group, and 5. Connect this server to cloud services. Below this is a 'WHAT'S NEW' section and a 'LEARN MORE' button. The 'ROLES AND SERVER GROUPS' section shows one local server and one server group, both named 'All Servers', each with a single 'Manageability' role and sub-options for Events, Services, Performance, and BPA results. At the bottom, there's a taskbar with icons for Start, File Explorer, Task View, and Taskbar search, along with system status indicators like battery level, network connection, and date/time.

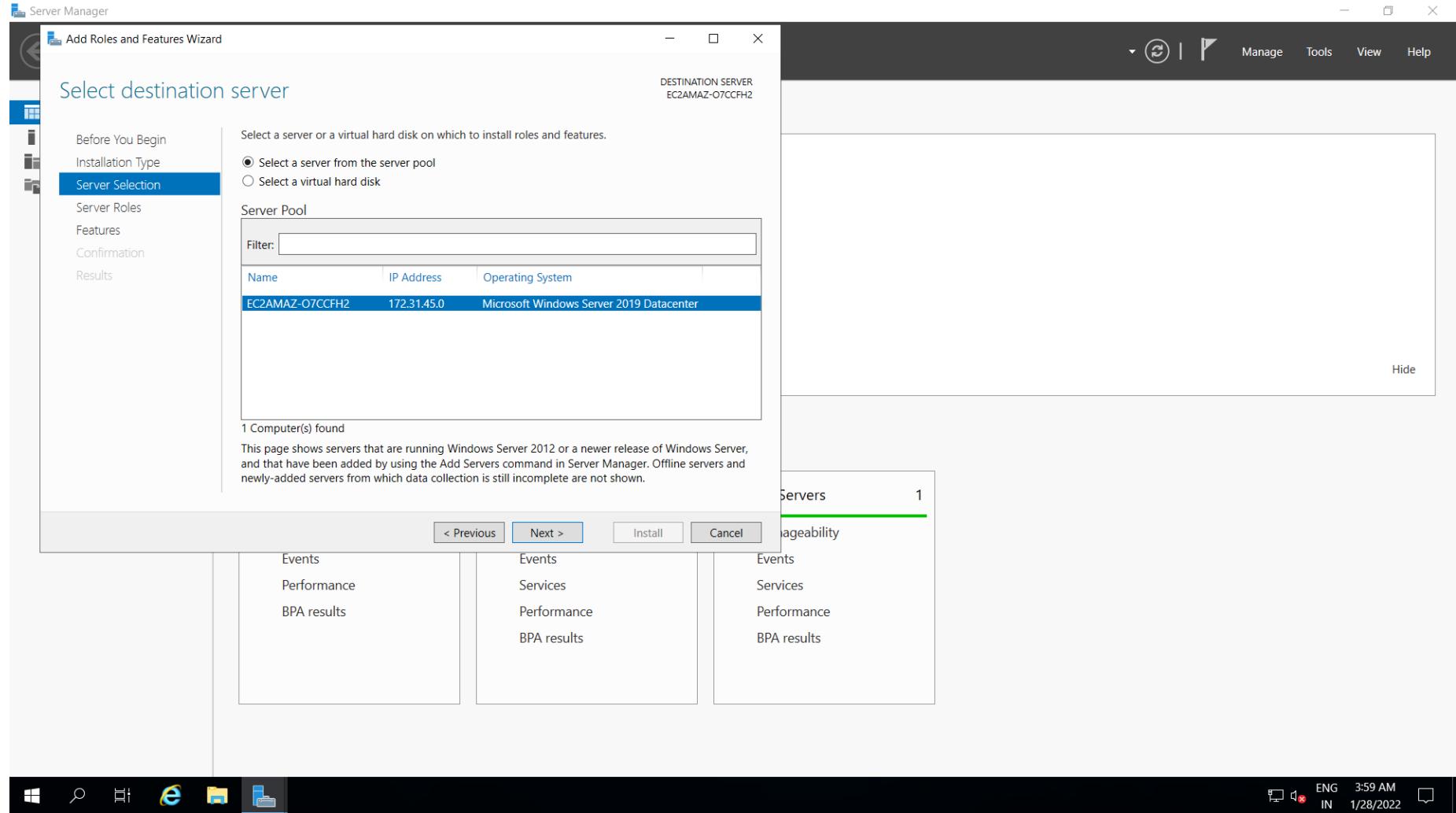
- Click on **ADD roles and features**



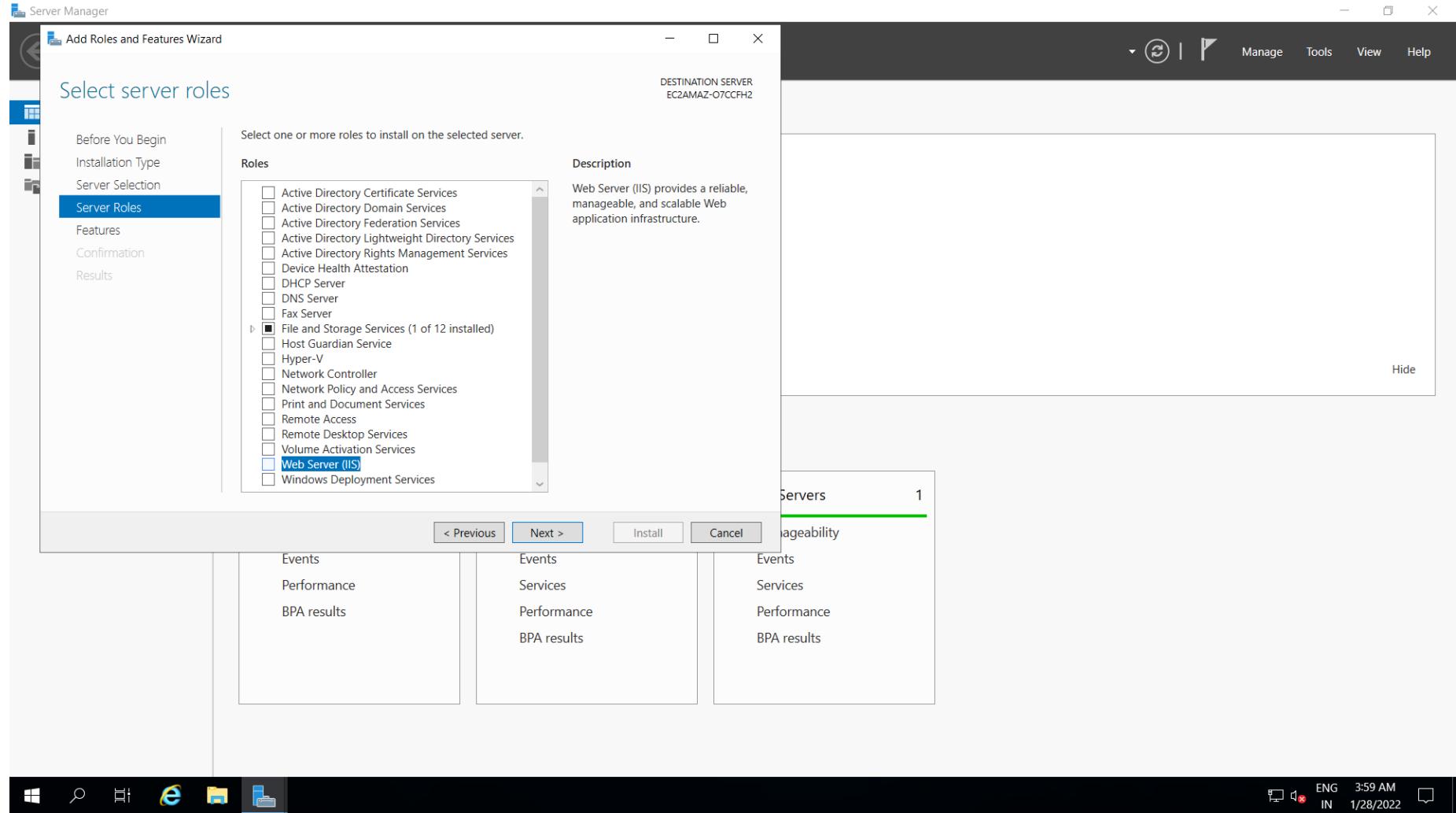
- Click on Next



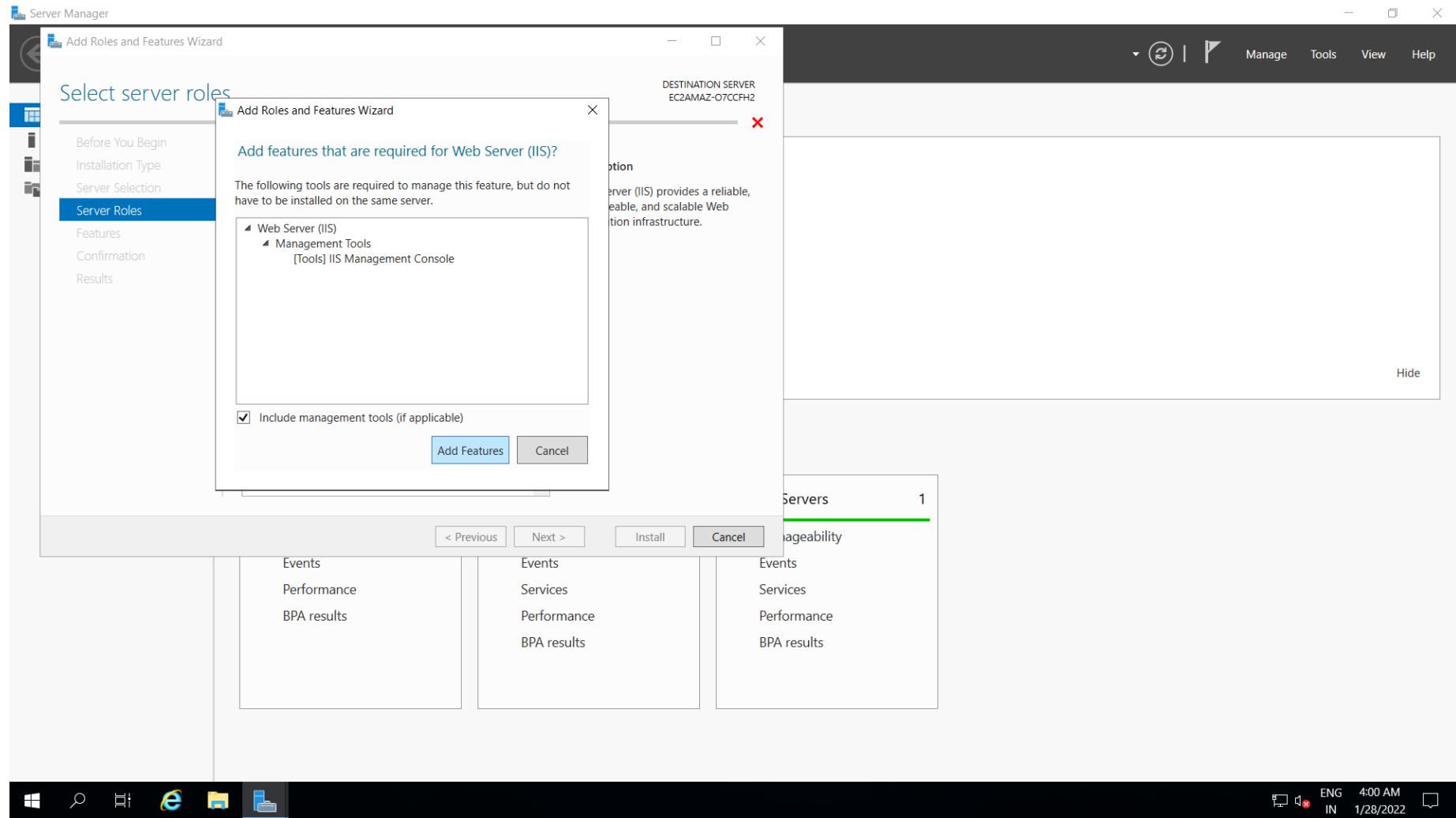
- Role-based or feature-based installation is selected by default.
- We just have to, Click on Next



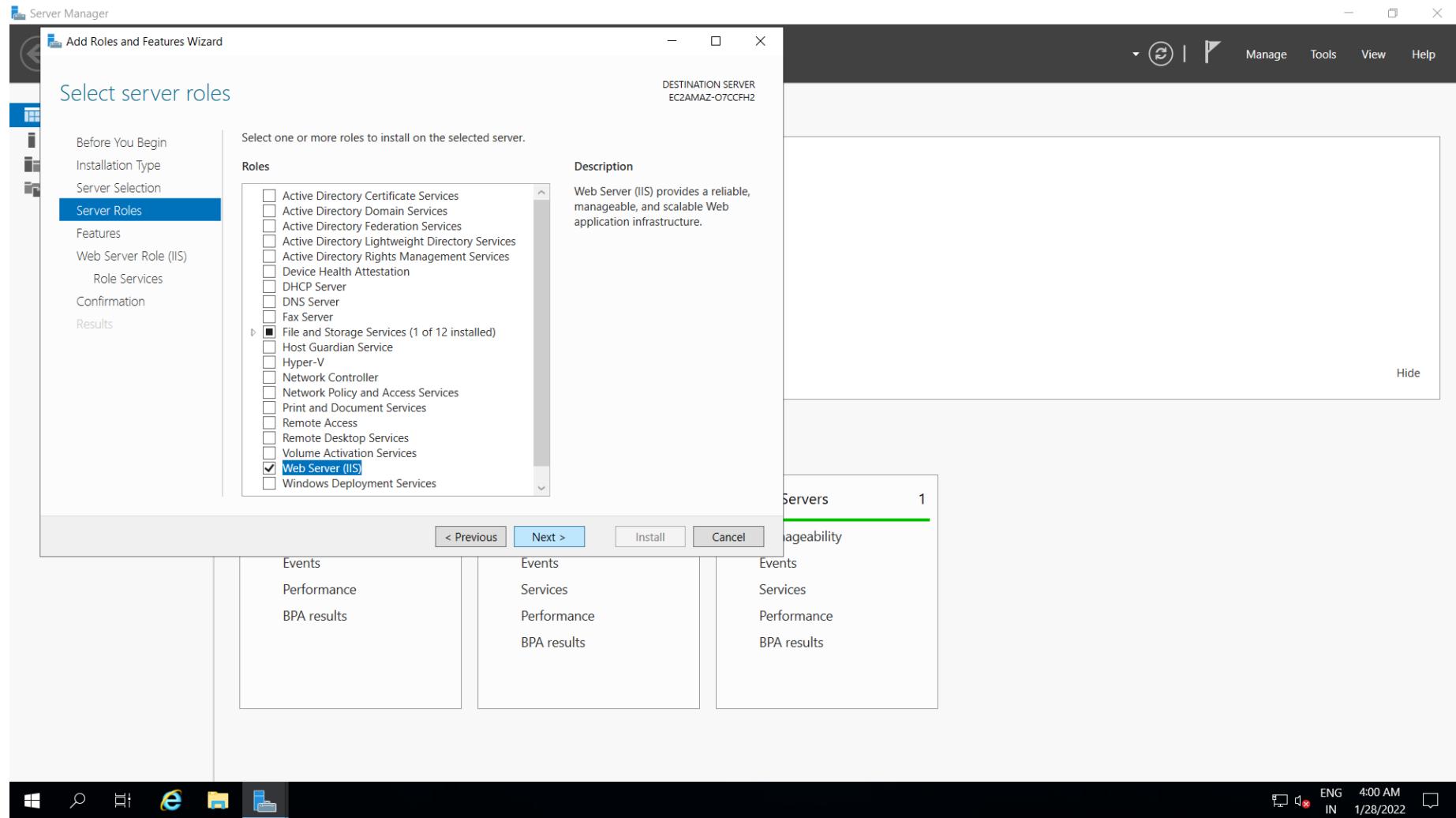
- All the settings we have to keep default.
- Just click on Next



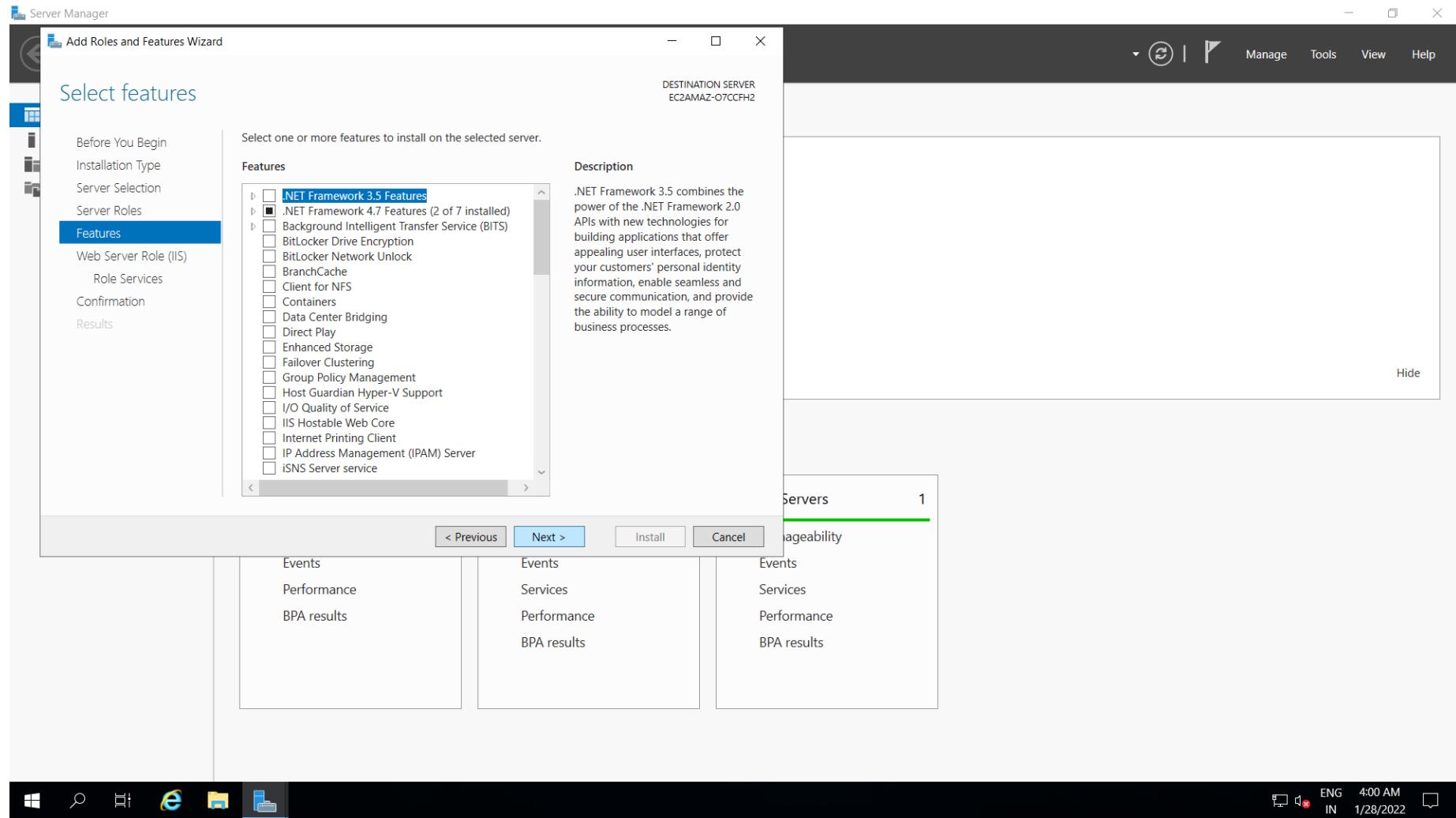
- Here please tick on **WEB SERVER (IIS)**
- And then click on NEXT



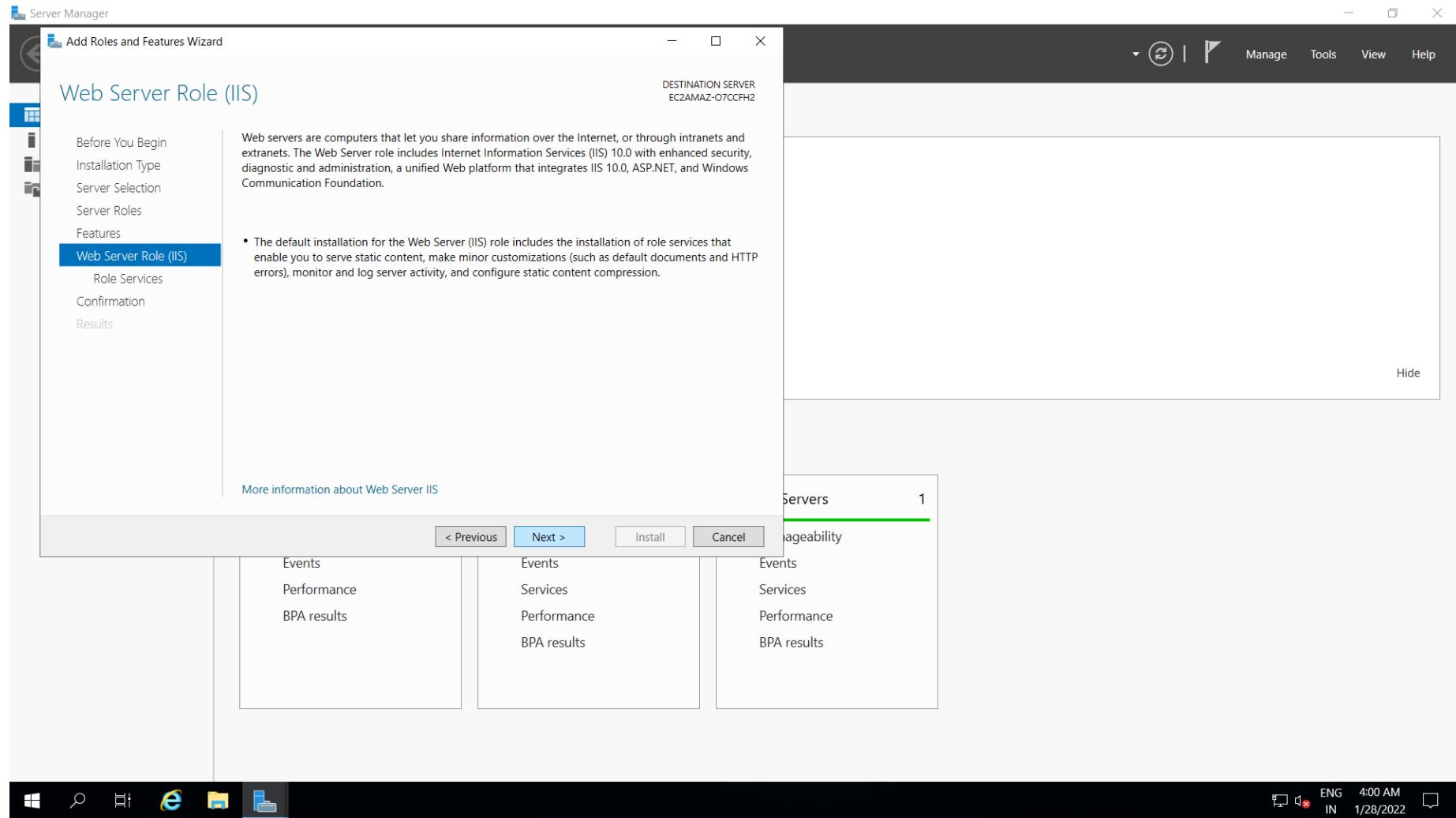
- Click on **ADD Features**



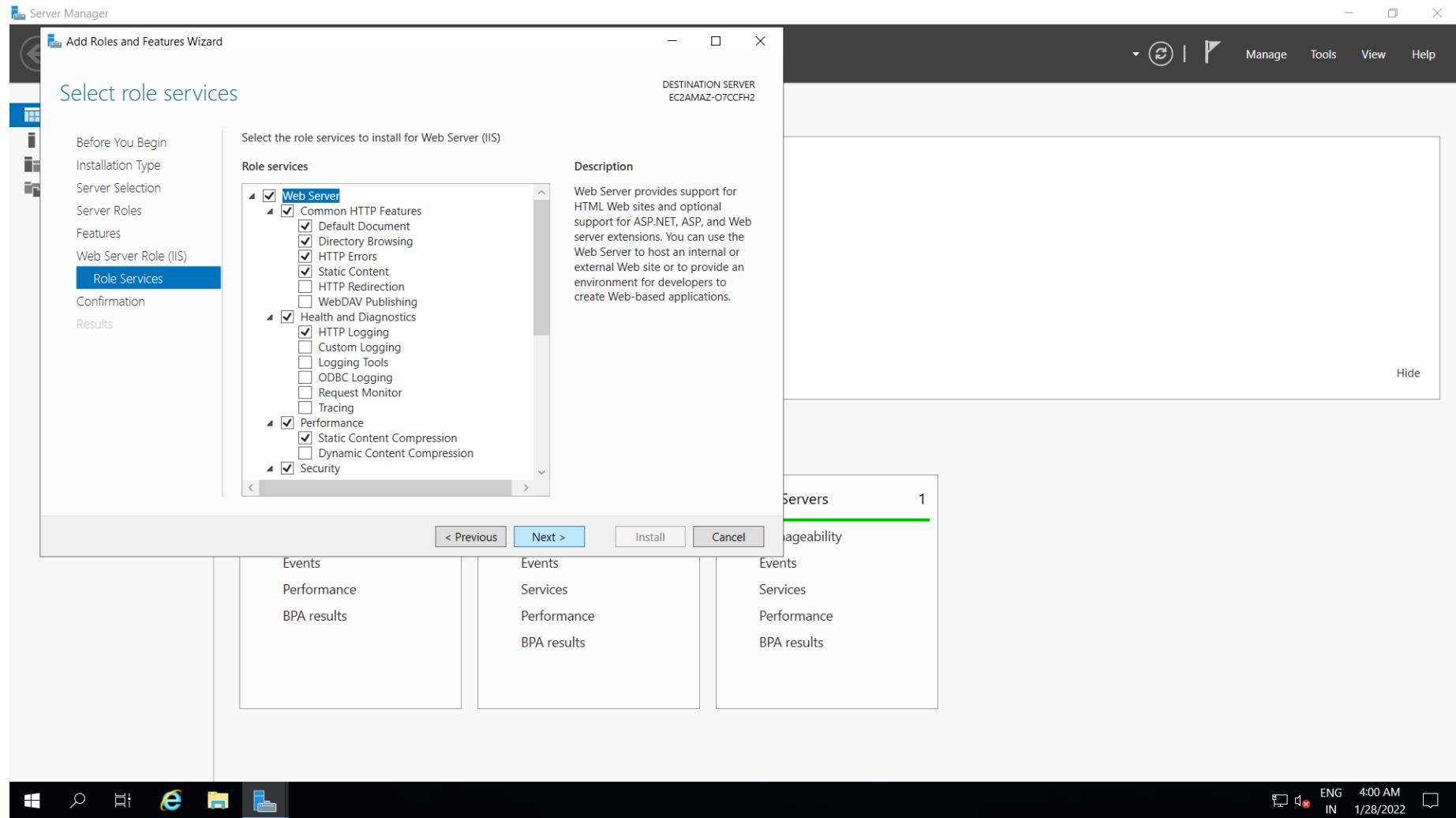
- Now click on NEXT



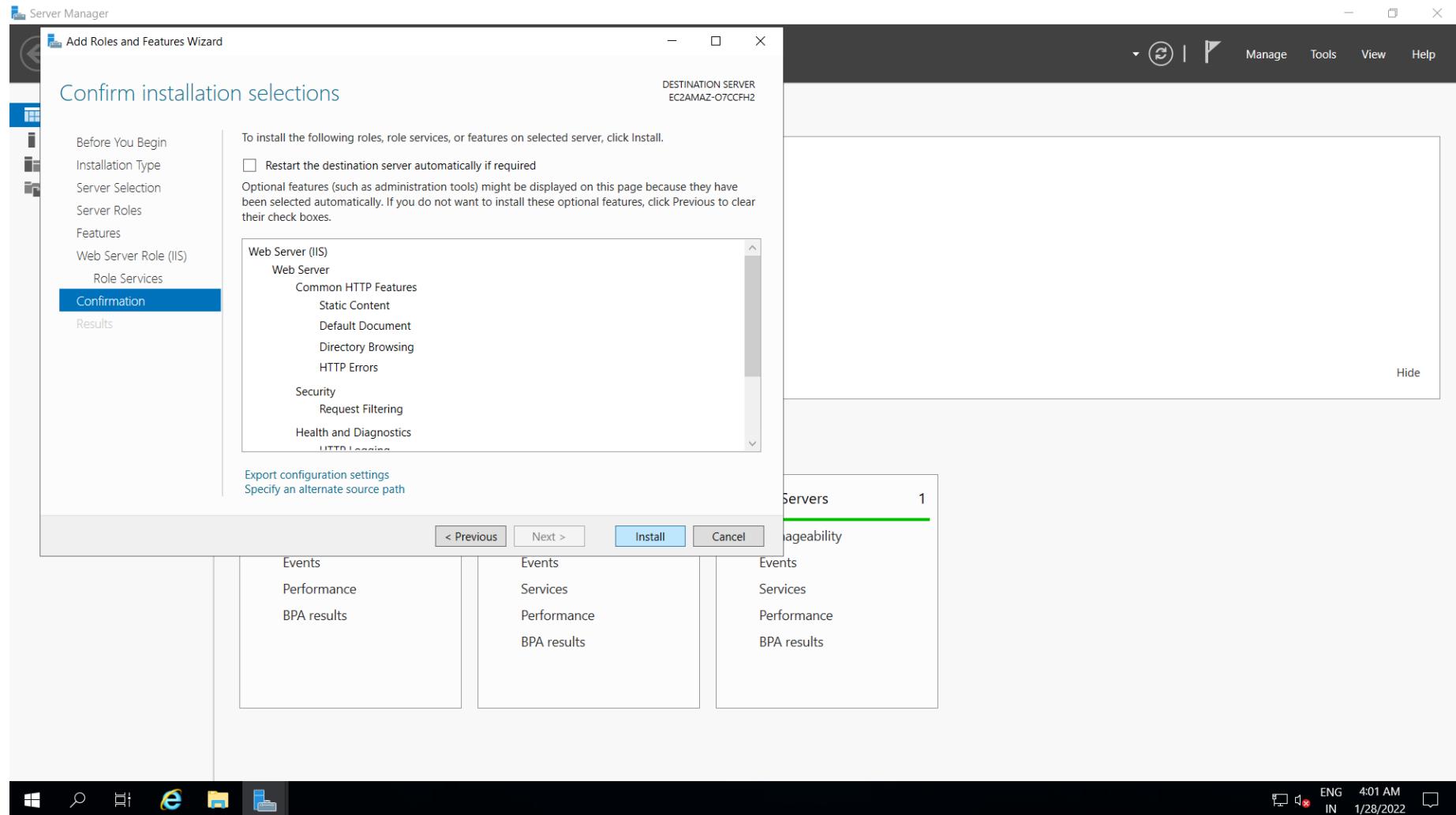
- Again Click on Next



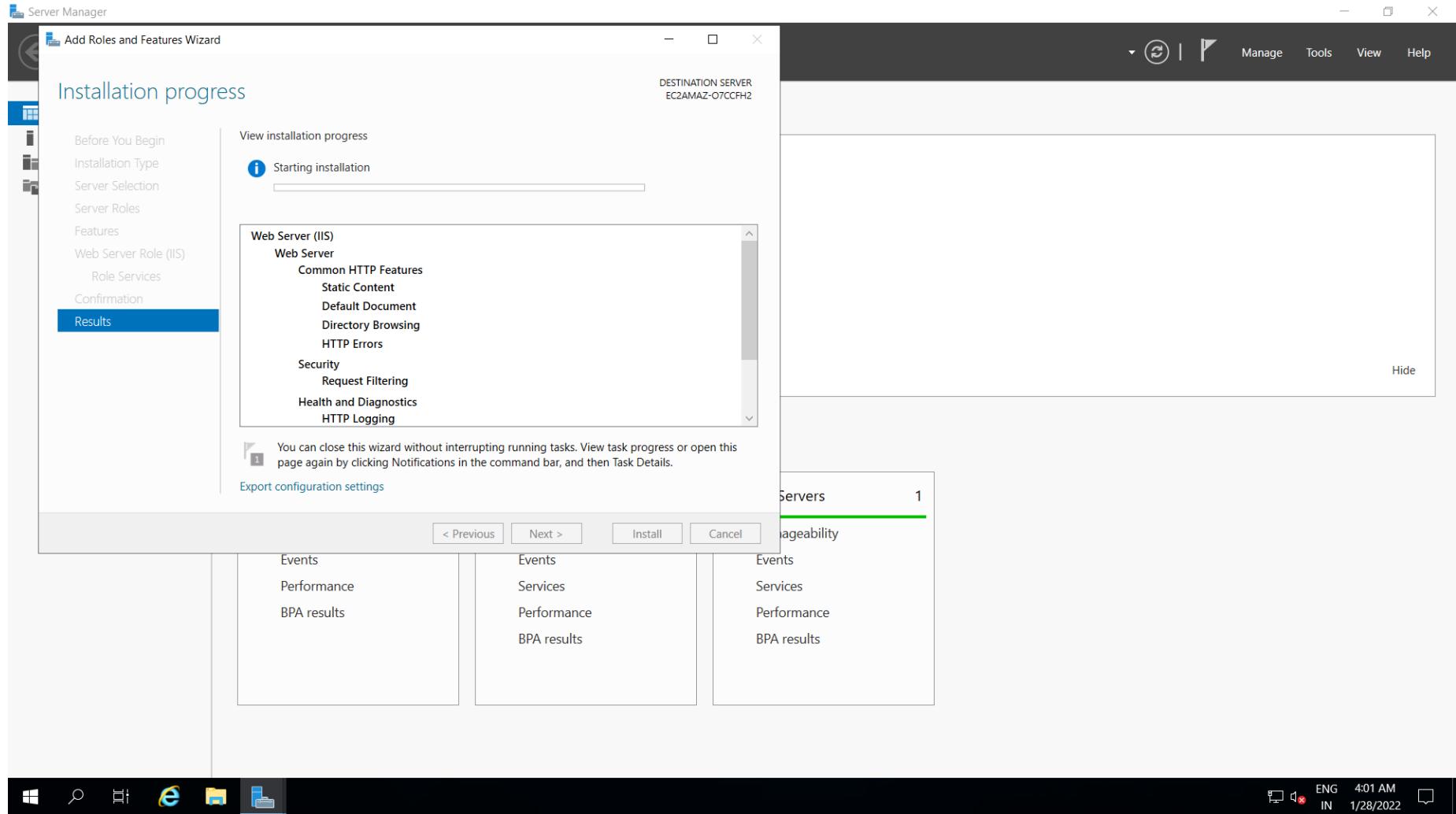
- Again Click on Next



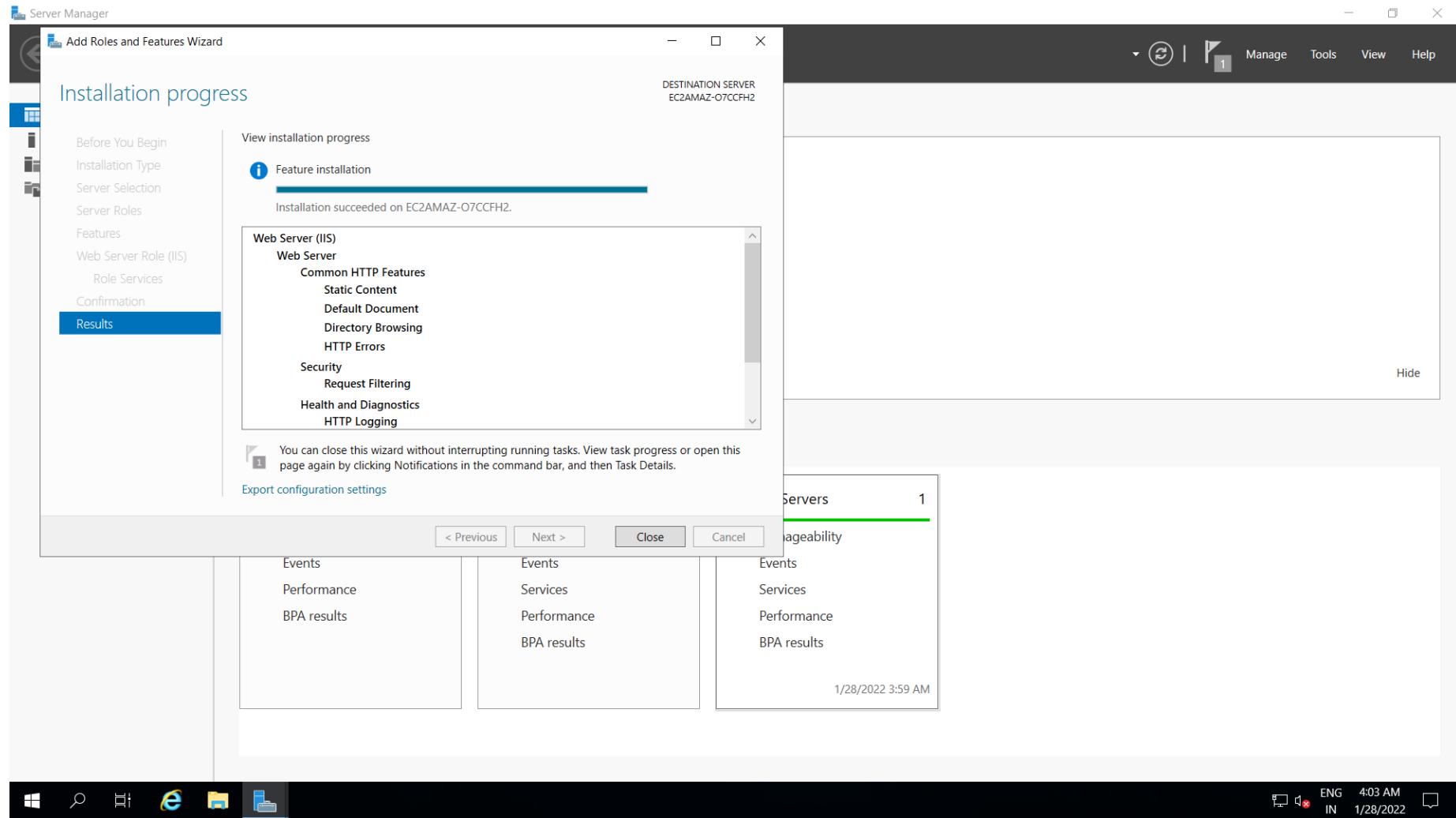
- Again Click on Next



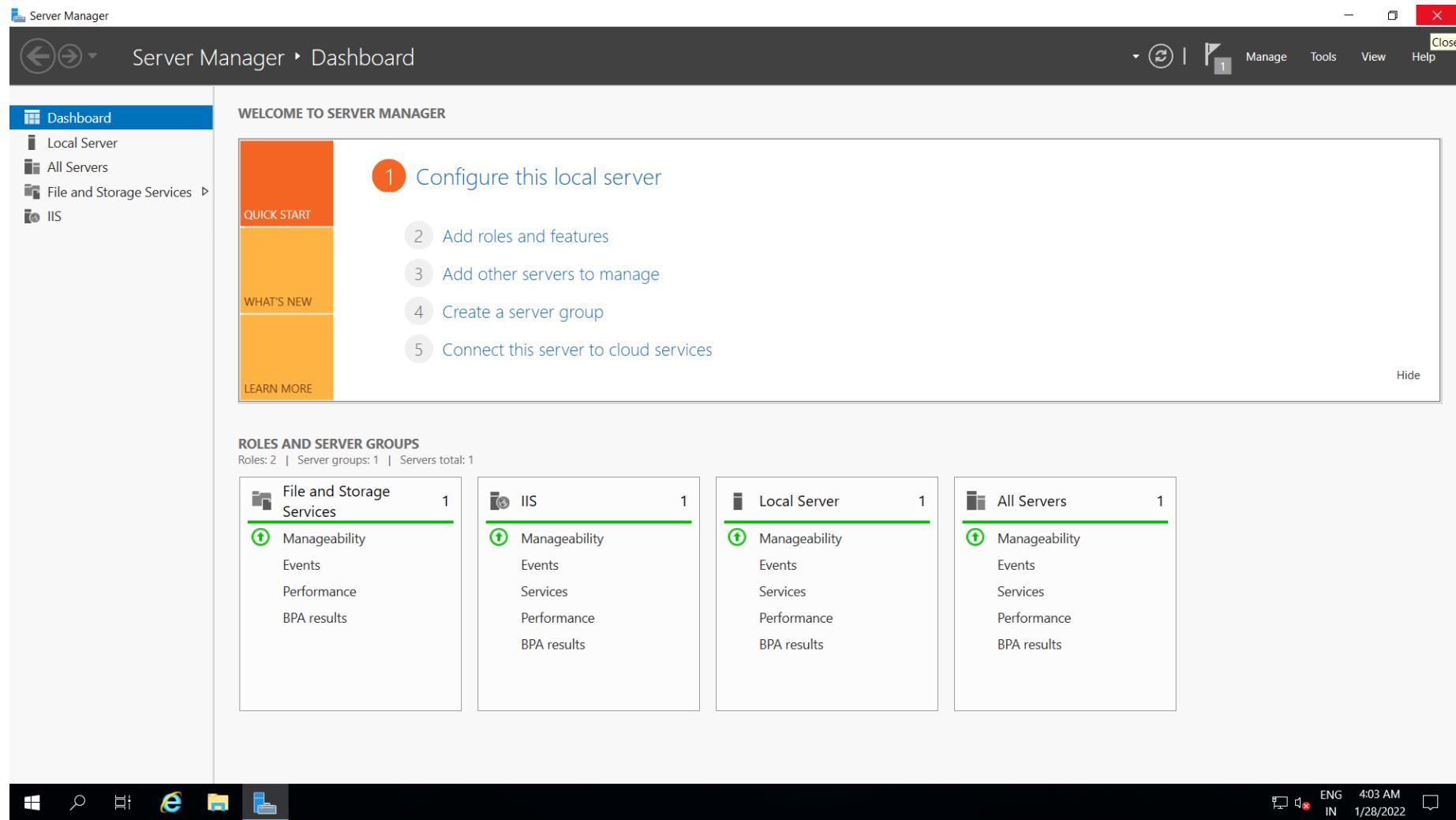
- Now Click on Install



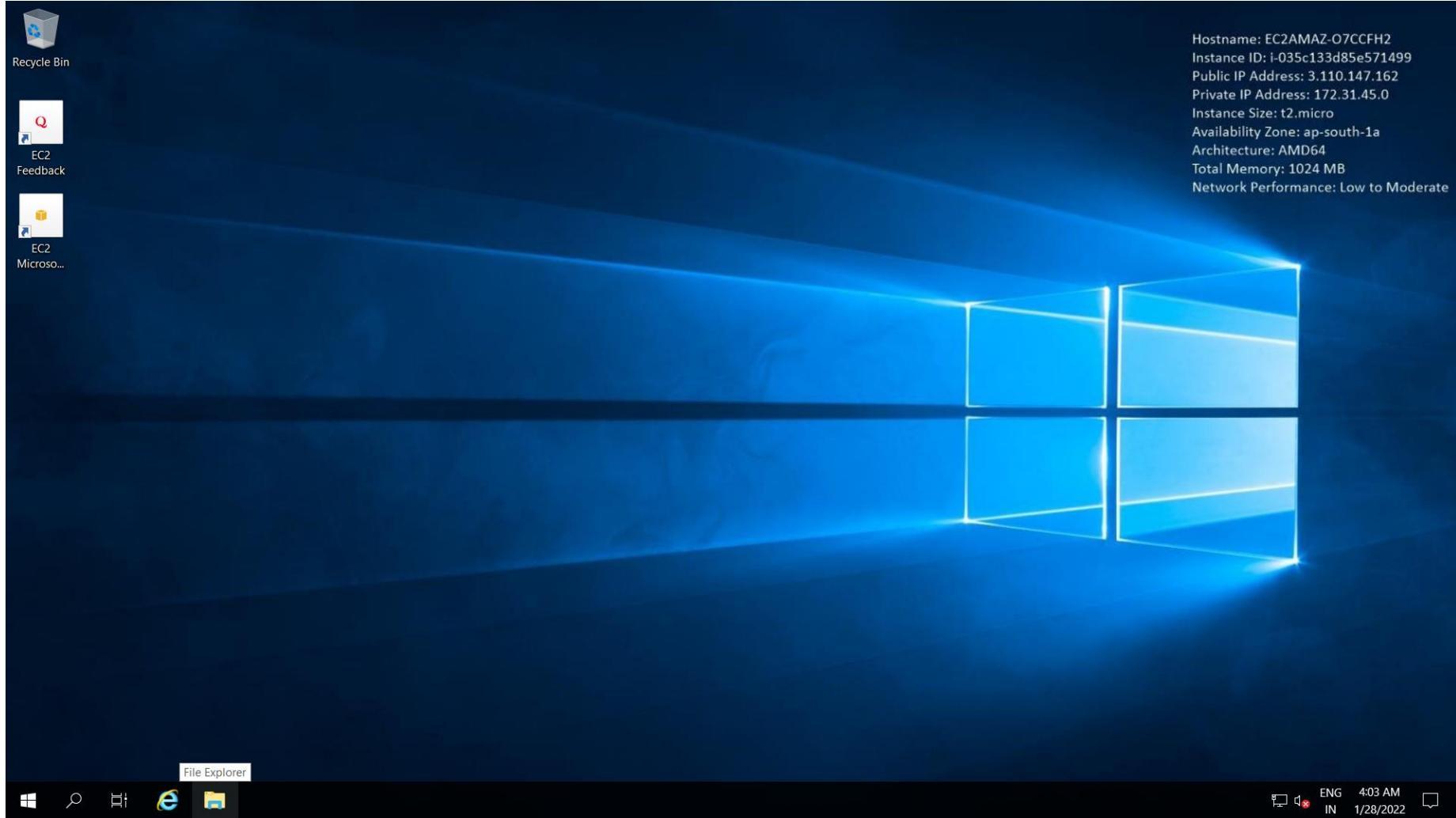
- So your web server installation is started.....
- Please wait for while



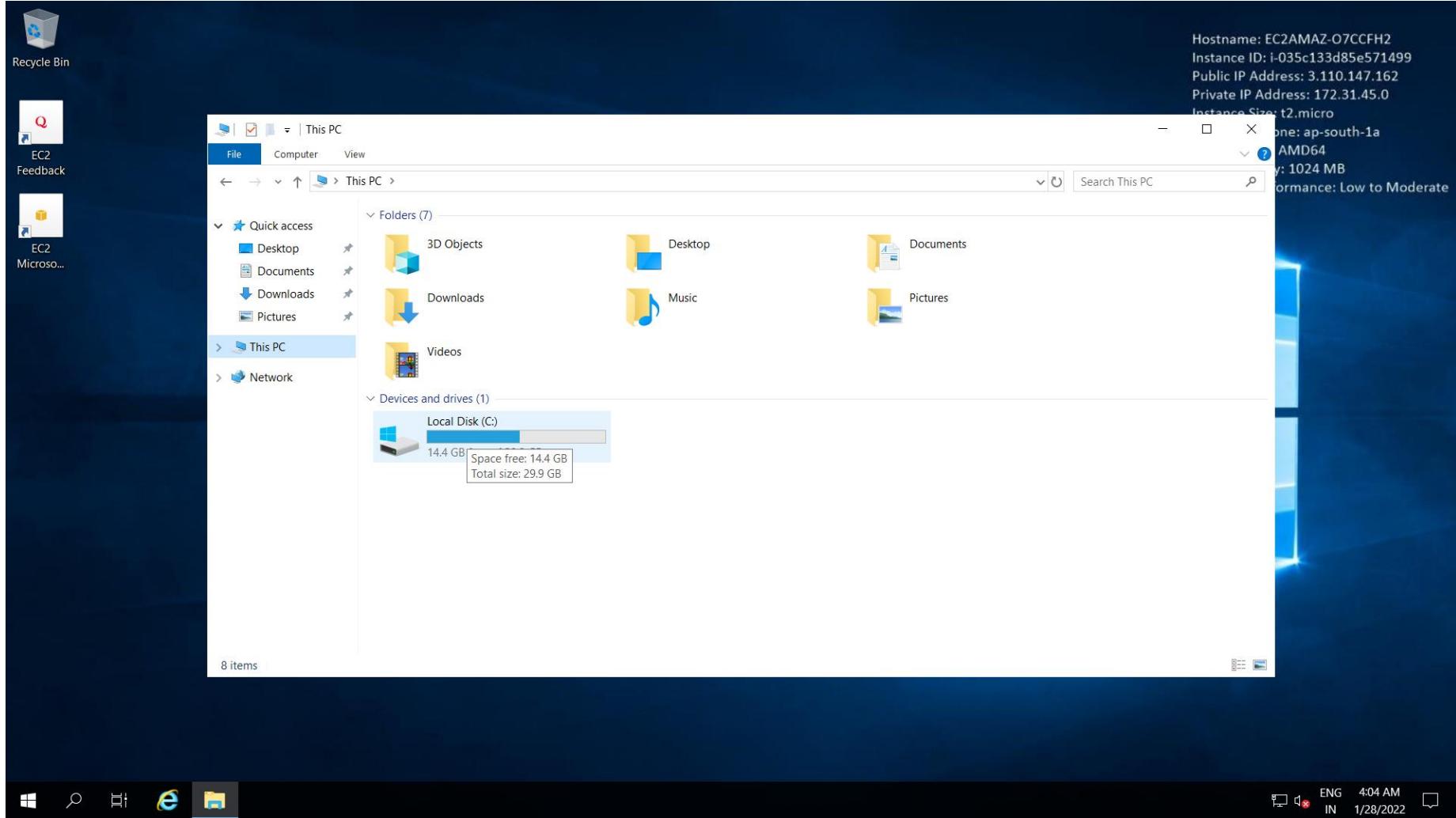
- Here web server installation succeeded.
- Now click on Close



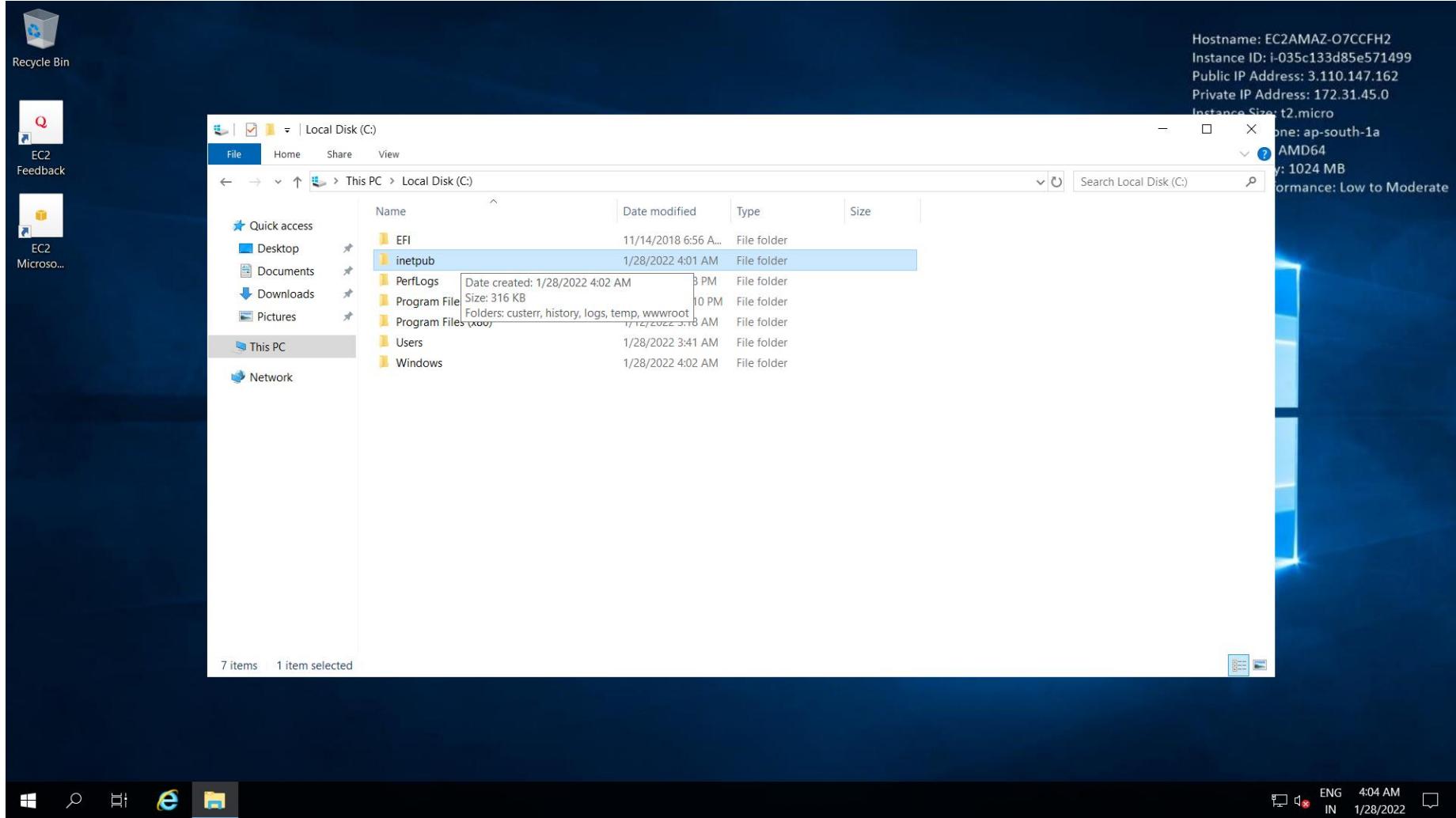
- Close your server manager



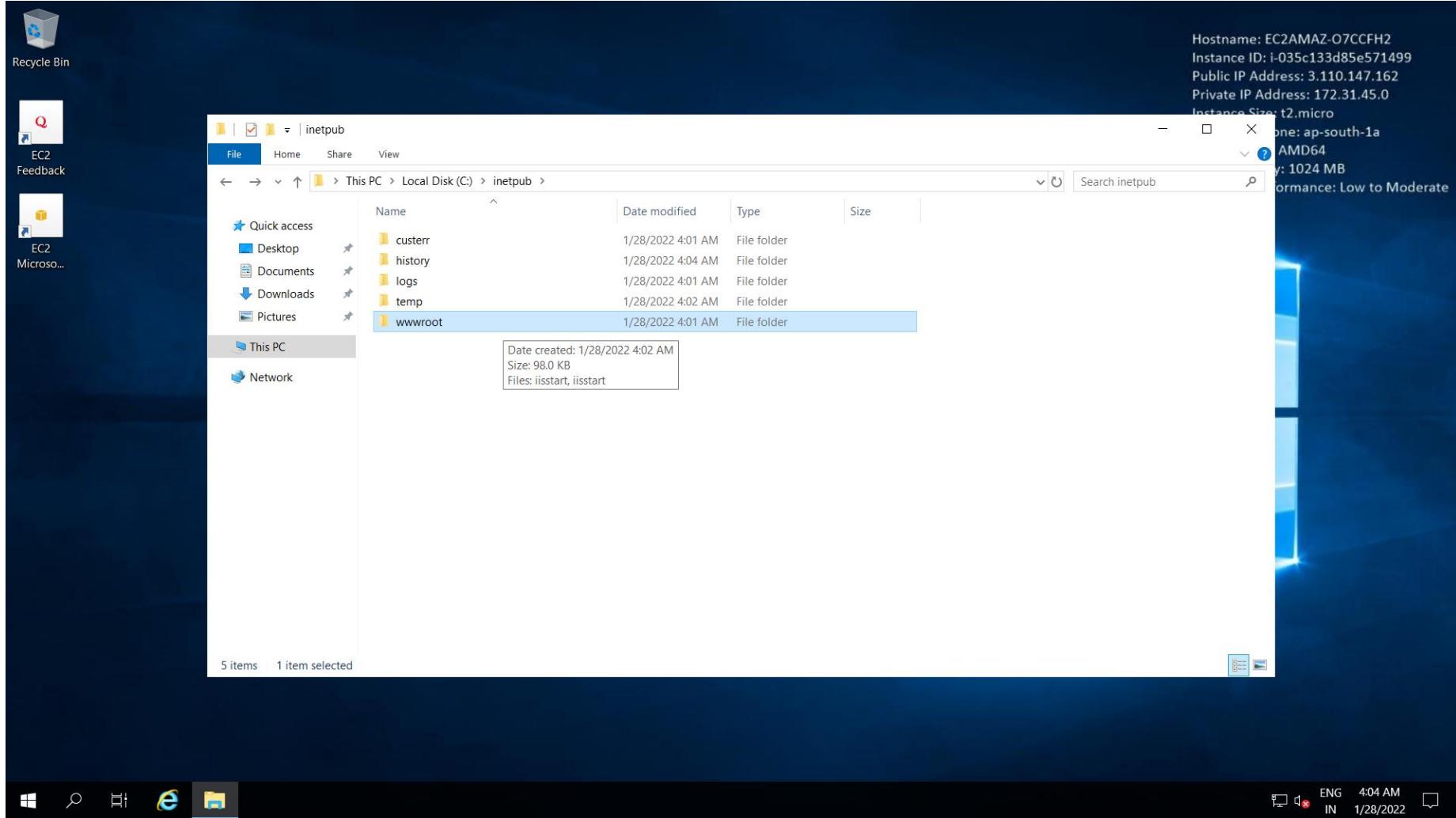
- Now click on File Explorer



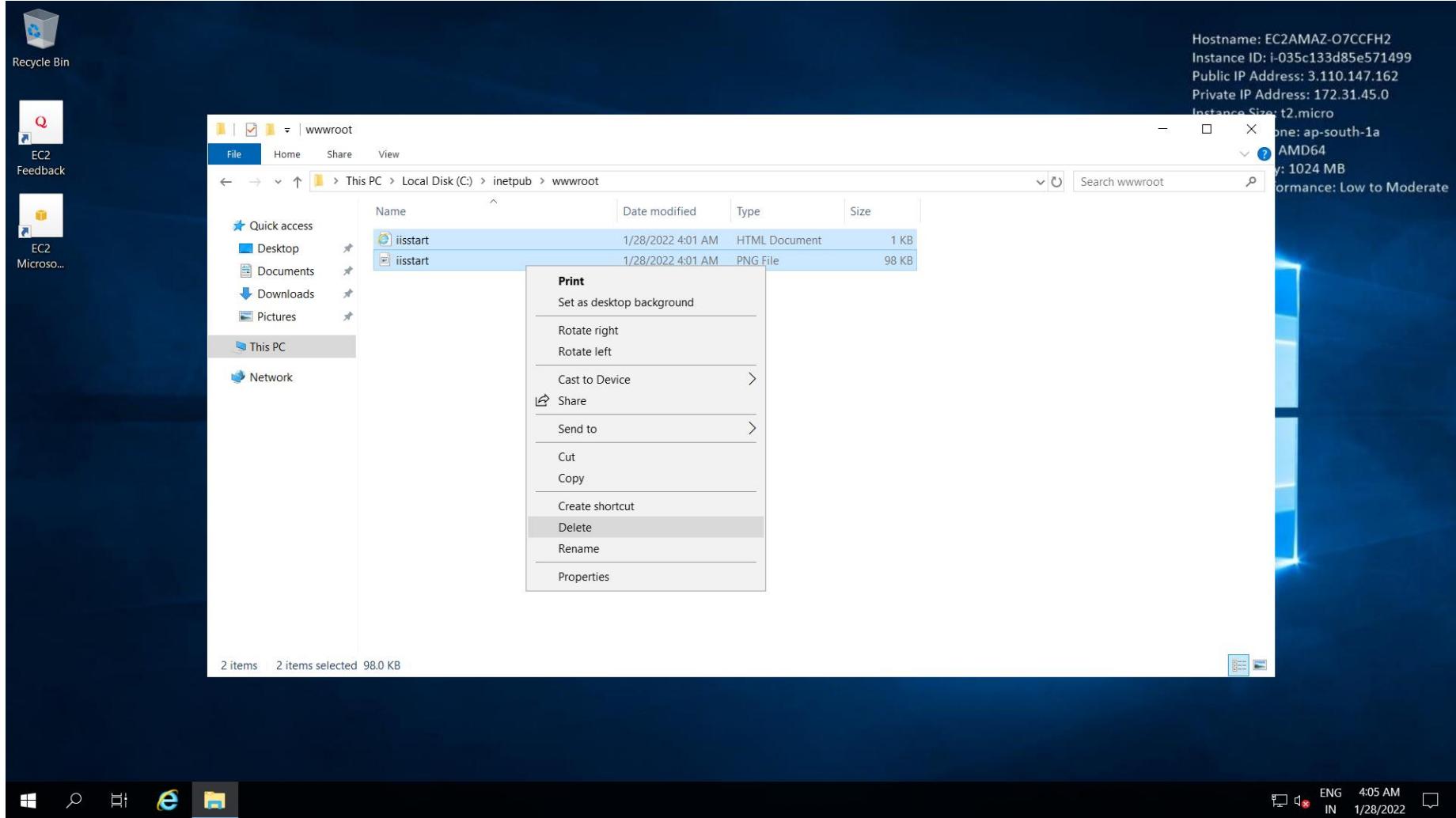
Go to Local Disk C



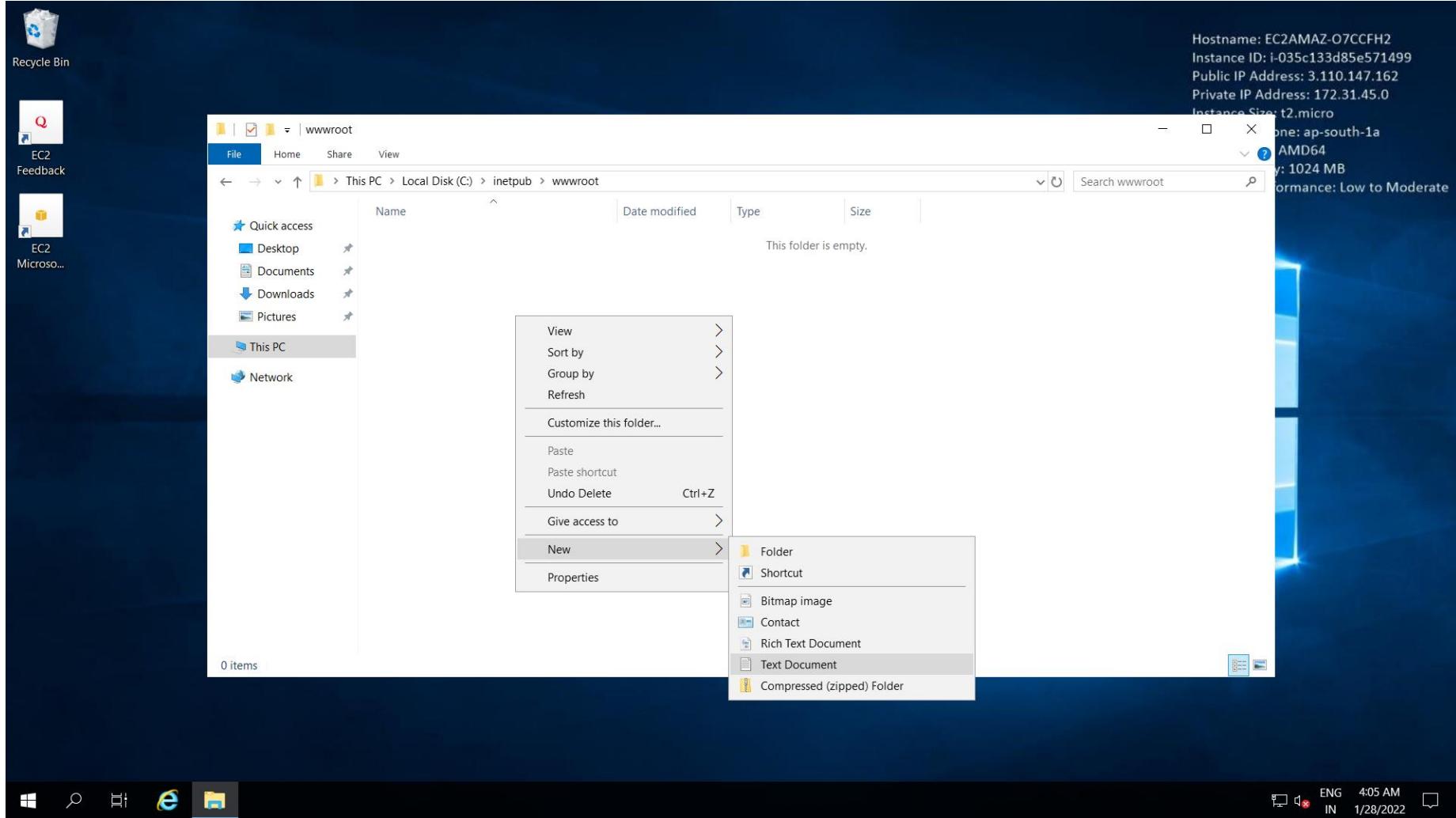
- Go to the **inetpub**



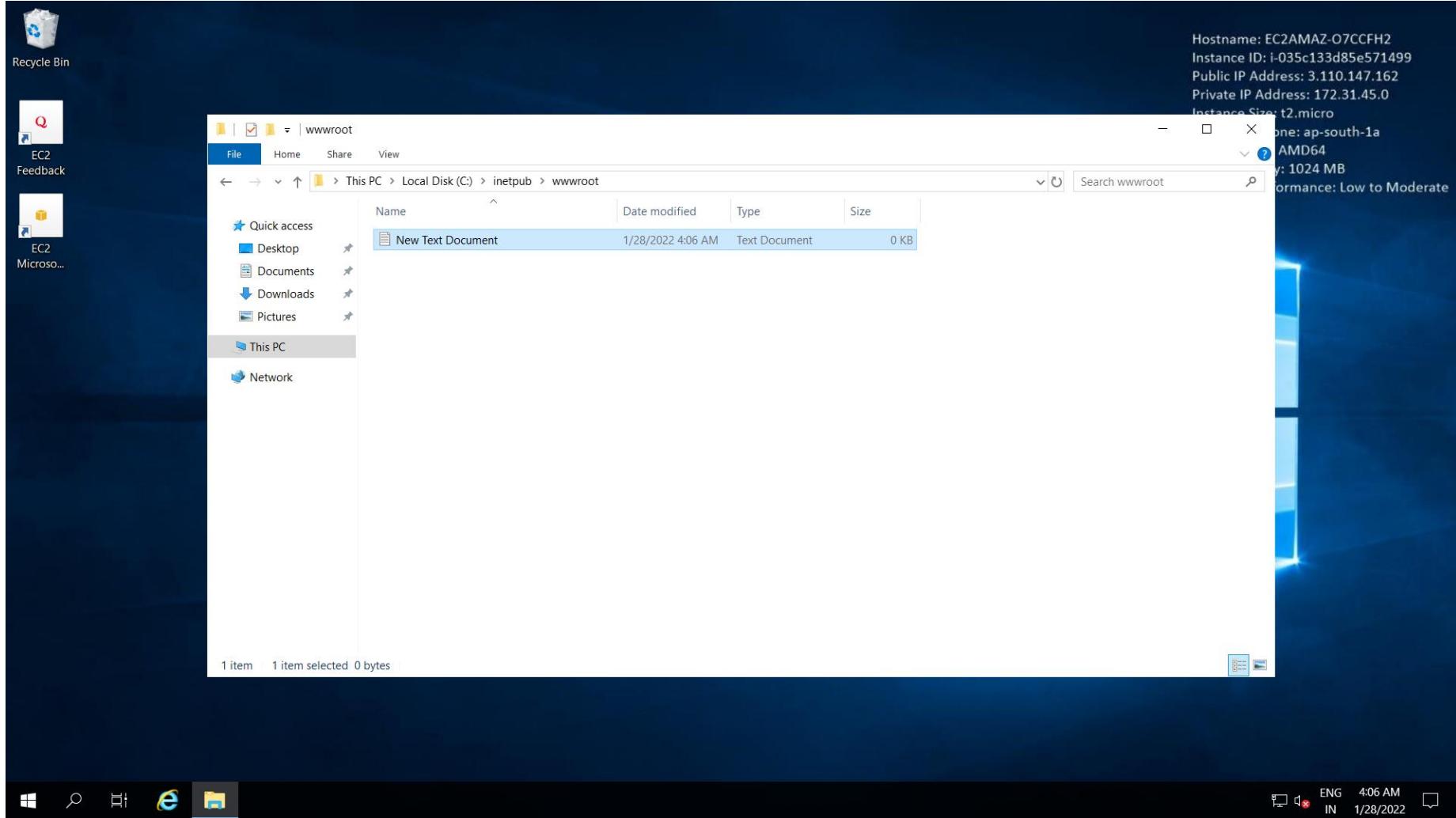
- Go to the **wwwroot**



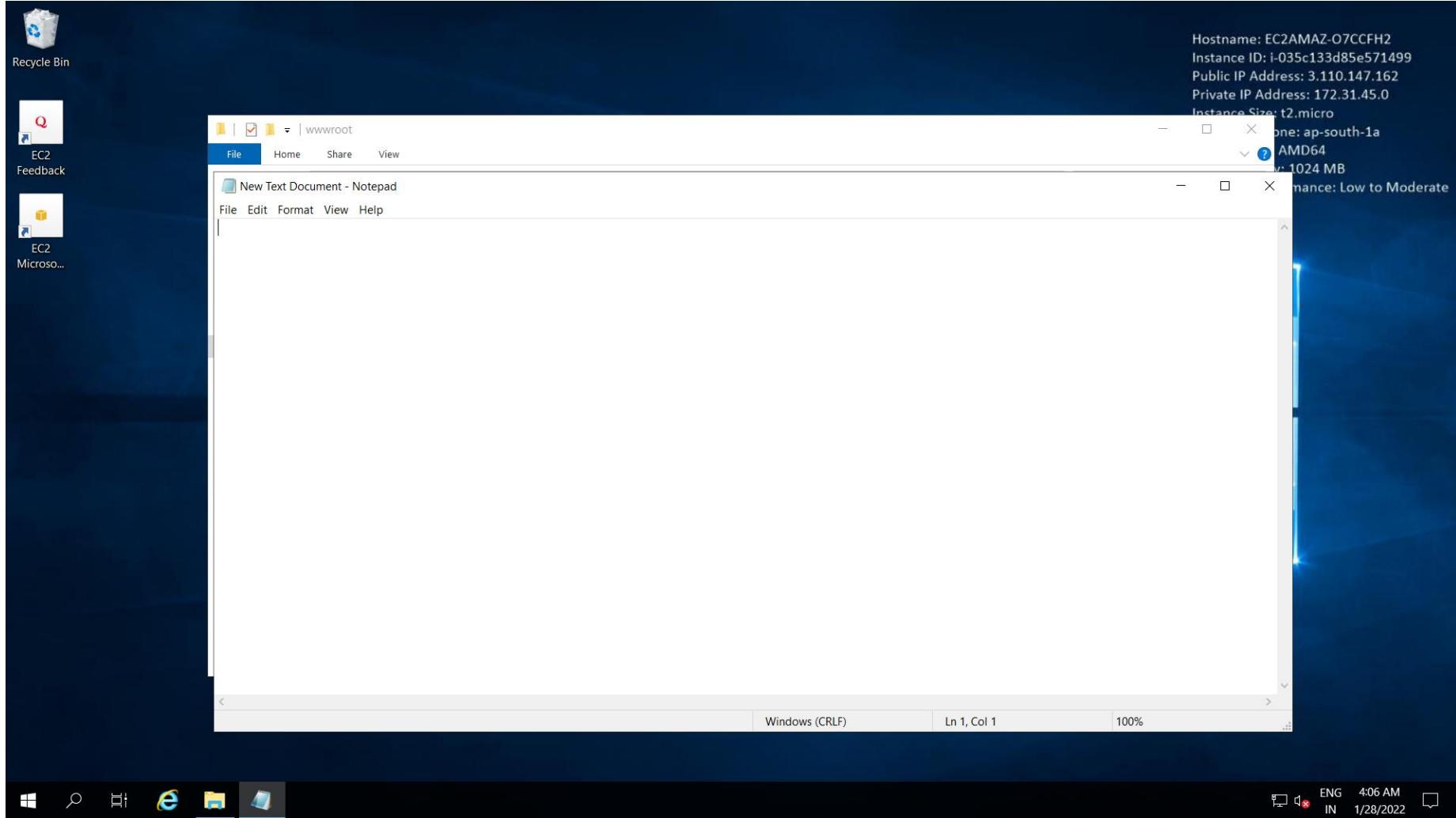
- Select all files and delete them



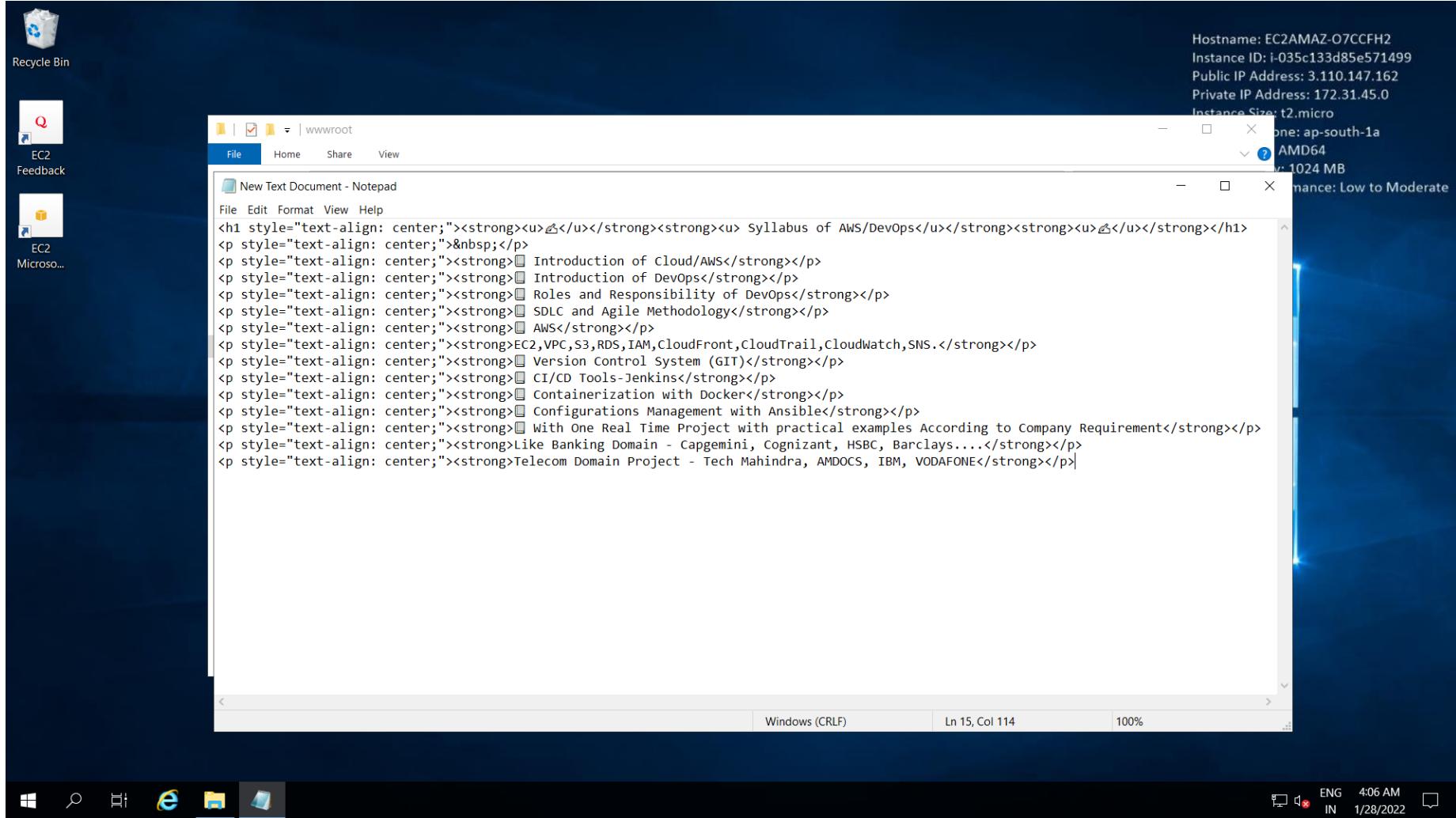
- Now right click and then click on NEW
- Then Click on **Text Document**



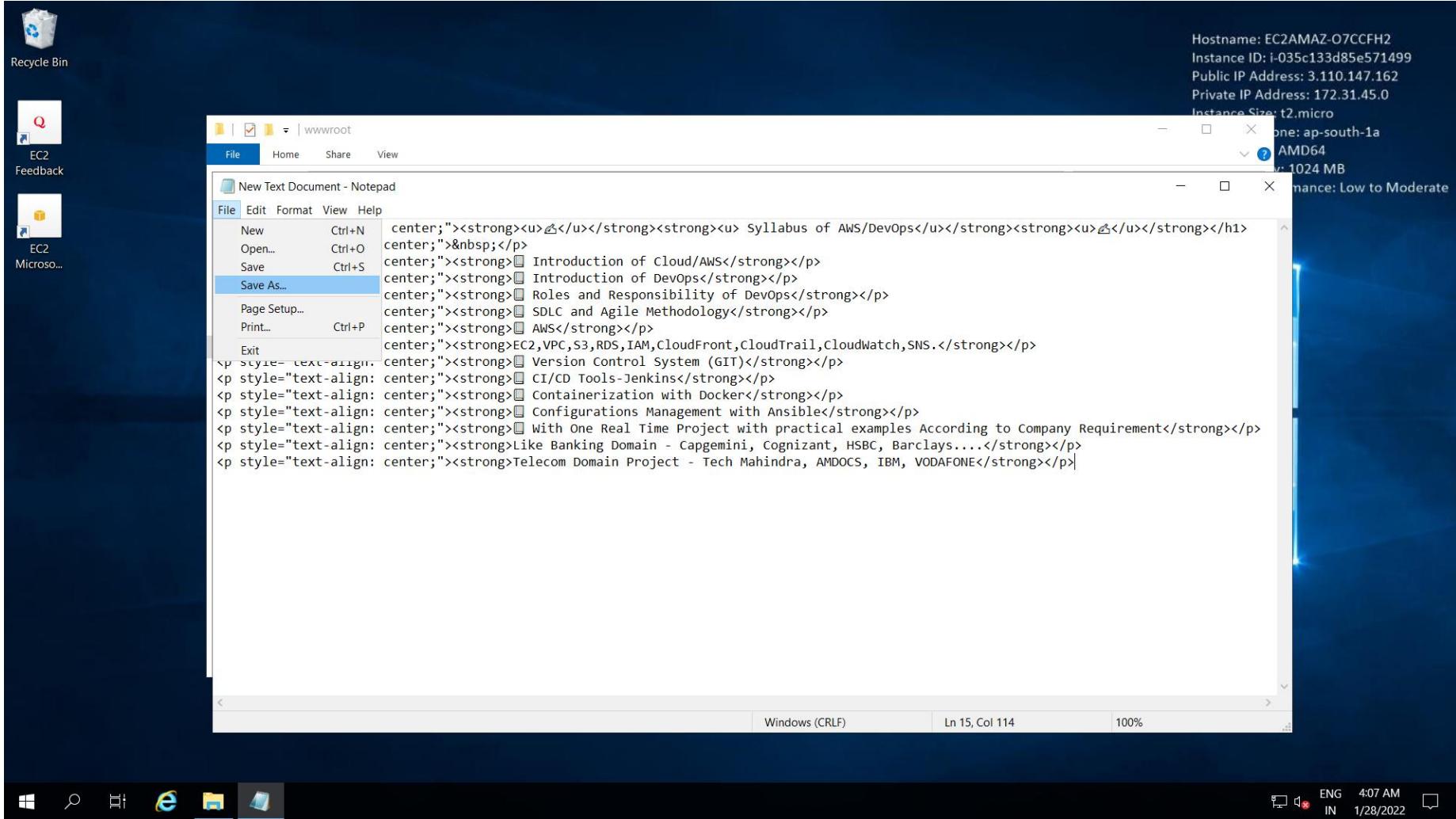
- Open the **New Text Document**



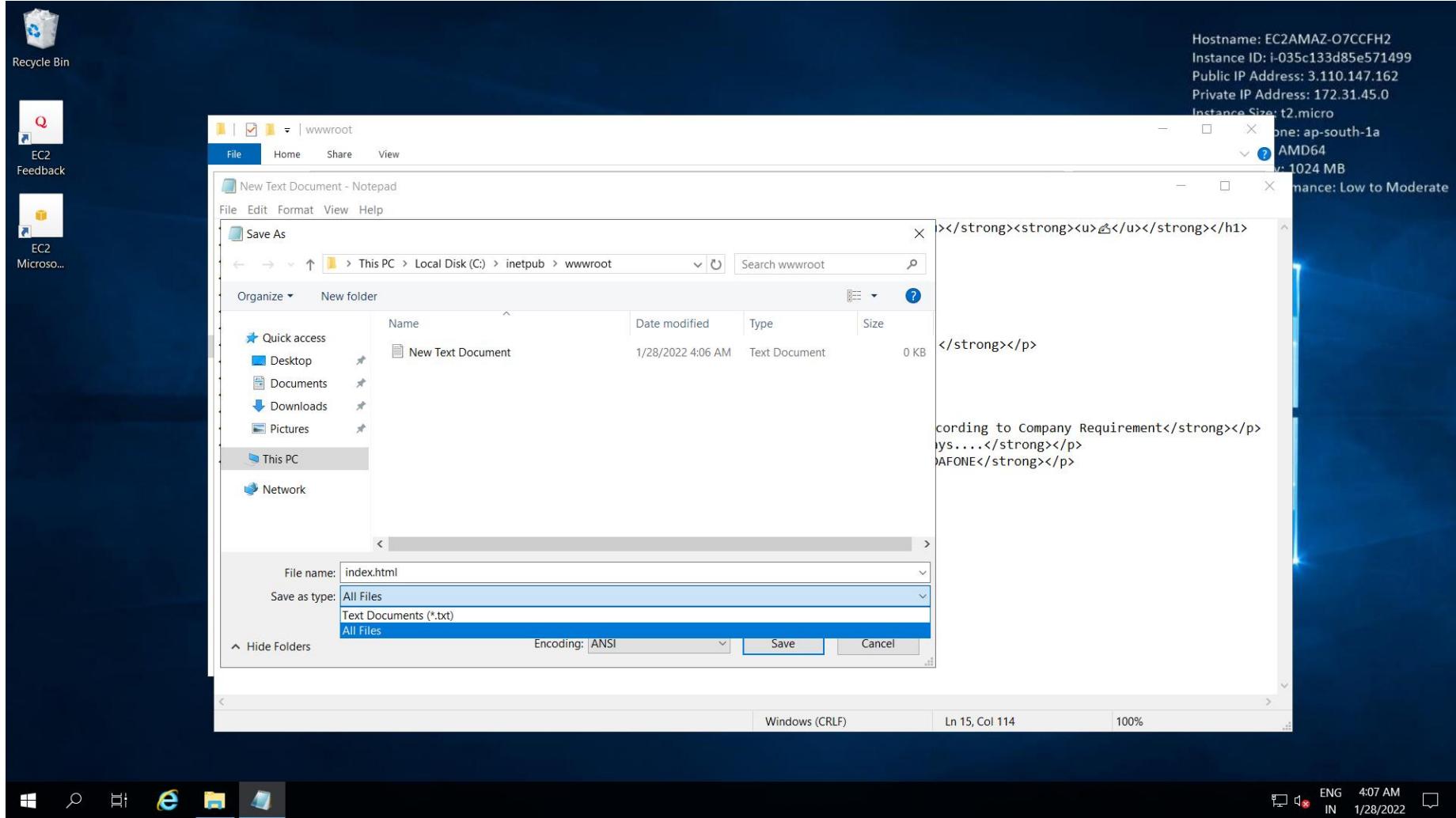
- Insert your HTML Code inside the file.
- Or any text which you want



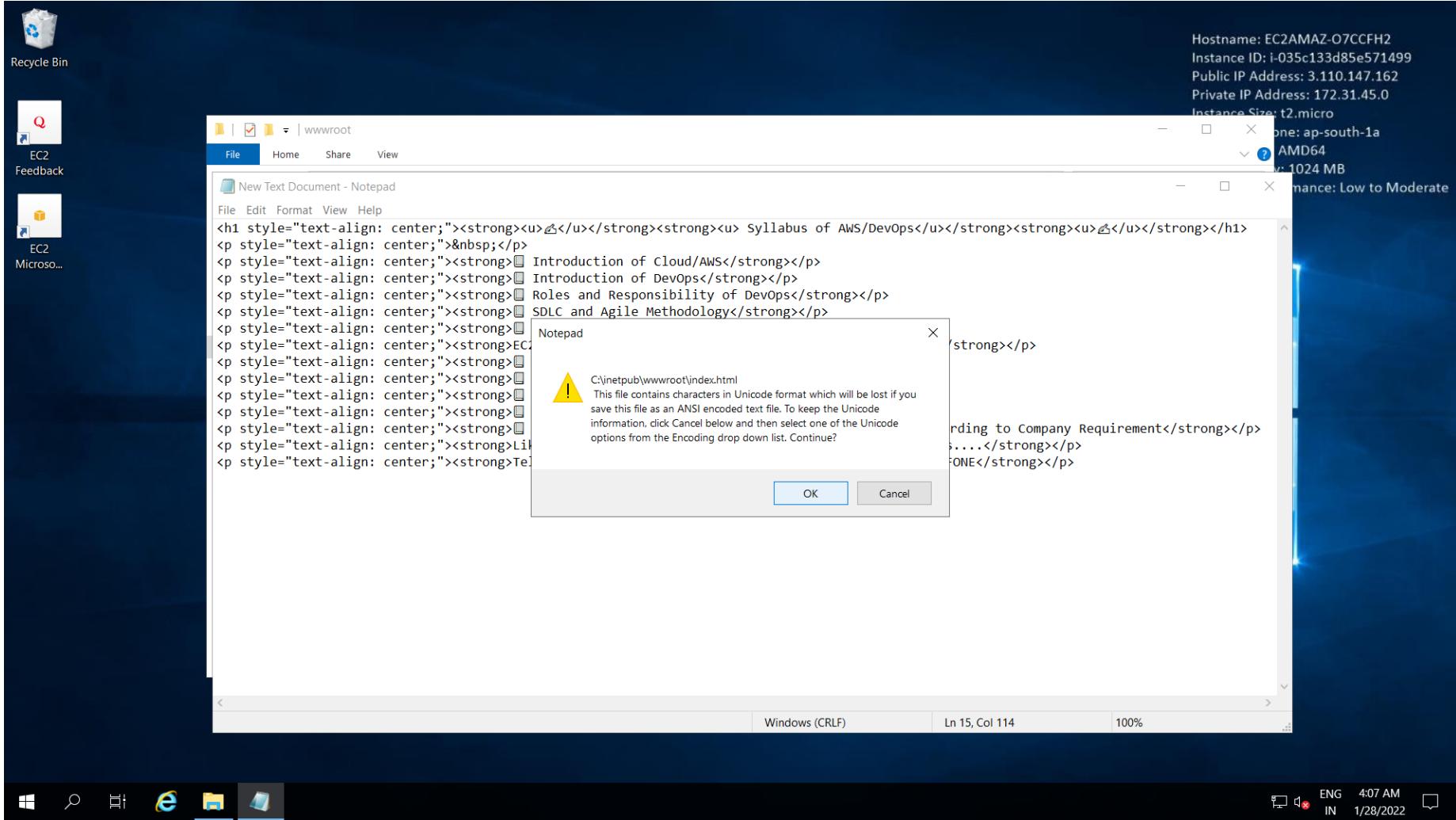
- Here our HTML Code looks like



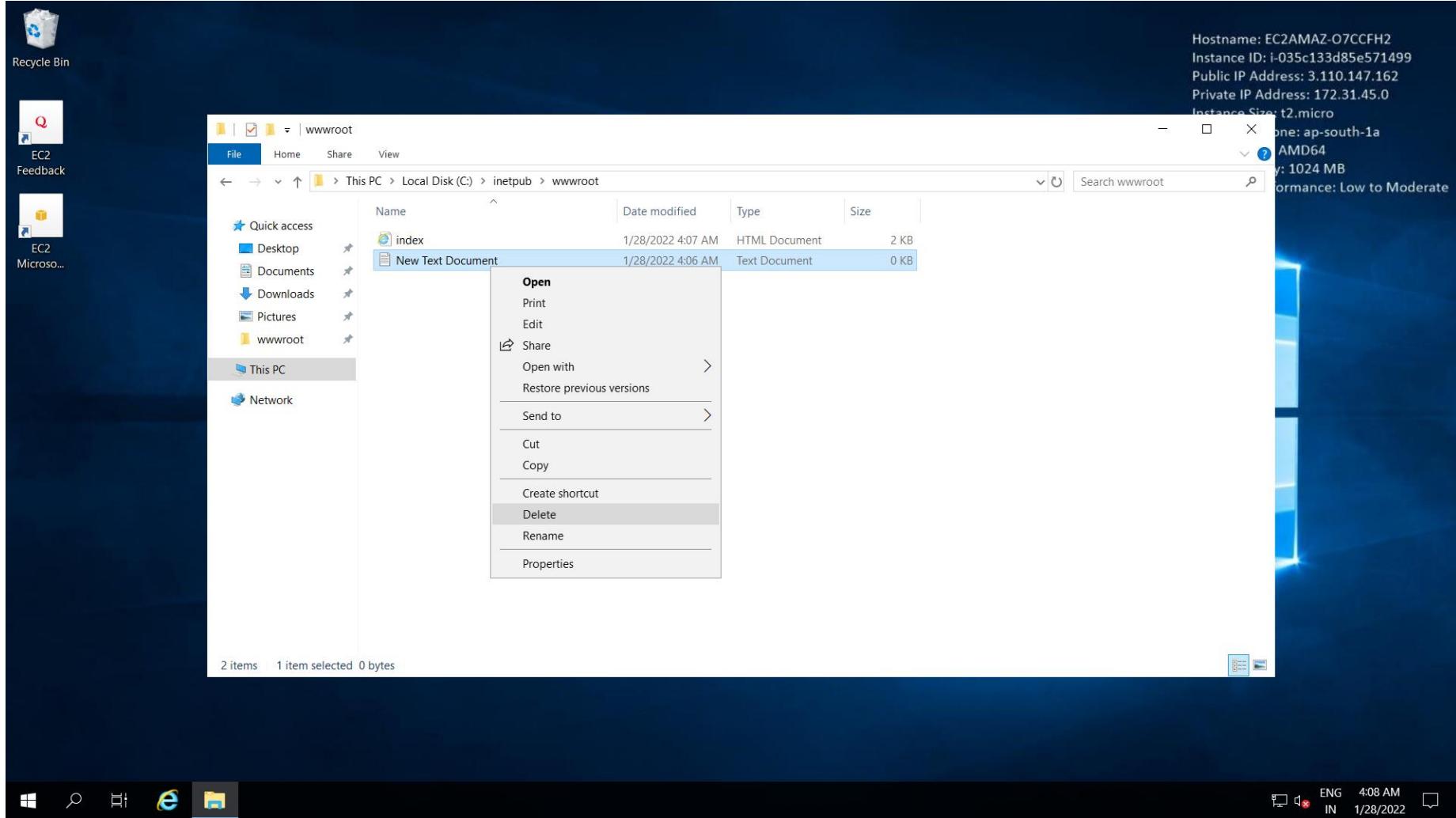
- Now click on **File**
- Click on **Save As**



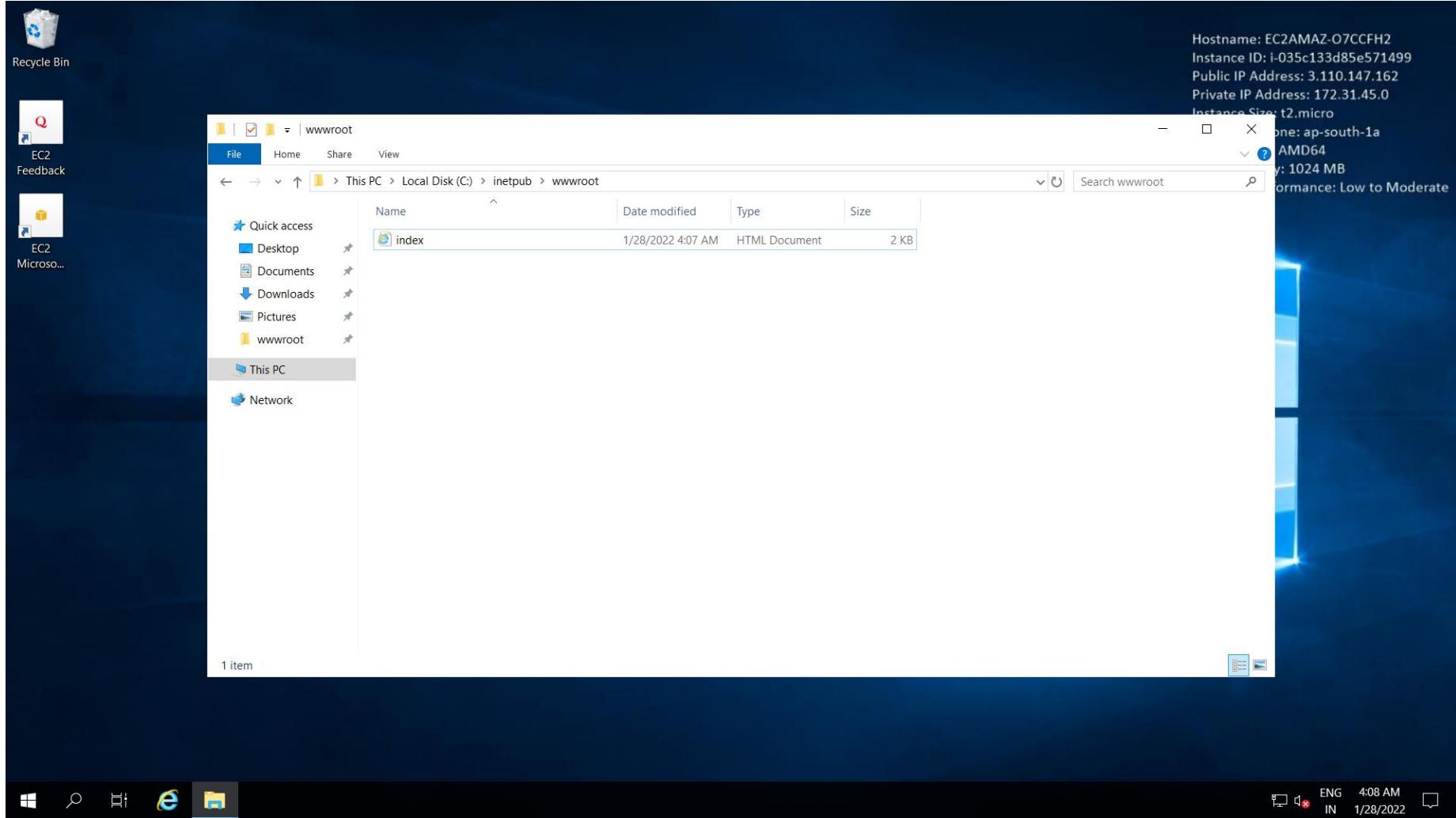
- Give file name as **index.html**
- Select your **Save as type** is **All Files**
- Then click on **Save**



- If you received this type of popup message
- Then just click on OK



- Now delete your New Text Document file



- After delete, your folder will be look like this.

The screenshot shows the AWS EC2 Management Console interface. The top navigation bar includes tabs for WhatsApp, Instances | EC2 Management Con, and a search bar. The main menu on the left lists options like EC2 Dashboard, EC2 Global View, Events, Tags, Limits, Instances (with sub-options for Instances, Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Capacity Reservations), Images (AMIs, AMI Catalog), and Feedback. The central content area displays a table titled 'Instances (1/1) Info' with one row for the instance '2nd Practical'. The instance details are shown in a modal window below, including its ID (i-035c133d85e571499), state (Running), type (t2.micro), and availability zone (ap-south-1a). The modal also shows the public IP address (3.110.147.162), private IP address (172.31.45.0), and public DNS name (ec2-3-110-147-162.ap-south-1.compute.amazonaws.com). The bottom of the screen shows the Windows taskbar with various pinned icons and system status.

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
2nd Practical	i-035c133d85e571499	Running	t2.micro	2/2 checks passed	No alarms	ap-south-1a

- Now go to your AWS console

The screenshot shows the AWS EC2 Management Console interface. In the top navigation bar, there are three tabs: "(12) WhatsApp", "Instances | EC2 Management Con...", and "New Tab". Below the tabs, the URL is "ap-south-1.console.aws.amazon.com/ec2/v2/home?region=ap-south-1#Instances:". The browser's address bar also contains "Search for services, features, blogs, docs, and more [Alt+S]" and a list of bookmarks.

The main content area displays the "Instances (1/1)" page. A sidebar on the left lists various EC2-related options: New EC2 Experience (with a feedback link), EC2 Dashboard, EC2 Global View, Events, Tags, Limits, Instances (selected), Instances (New), Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances (New), Dedicated Hosts, Capacity Reservations, and Images (AMIs (New)).

The main table shows one instance:

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
2nd Practical	i-035c133d85e571499	Running	t2.micro	2/2 checks passed	No alarms	ap-south-1a

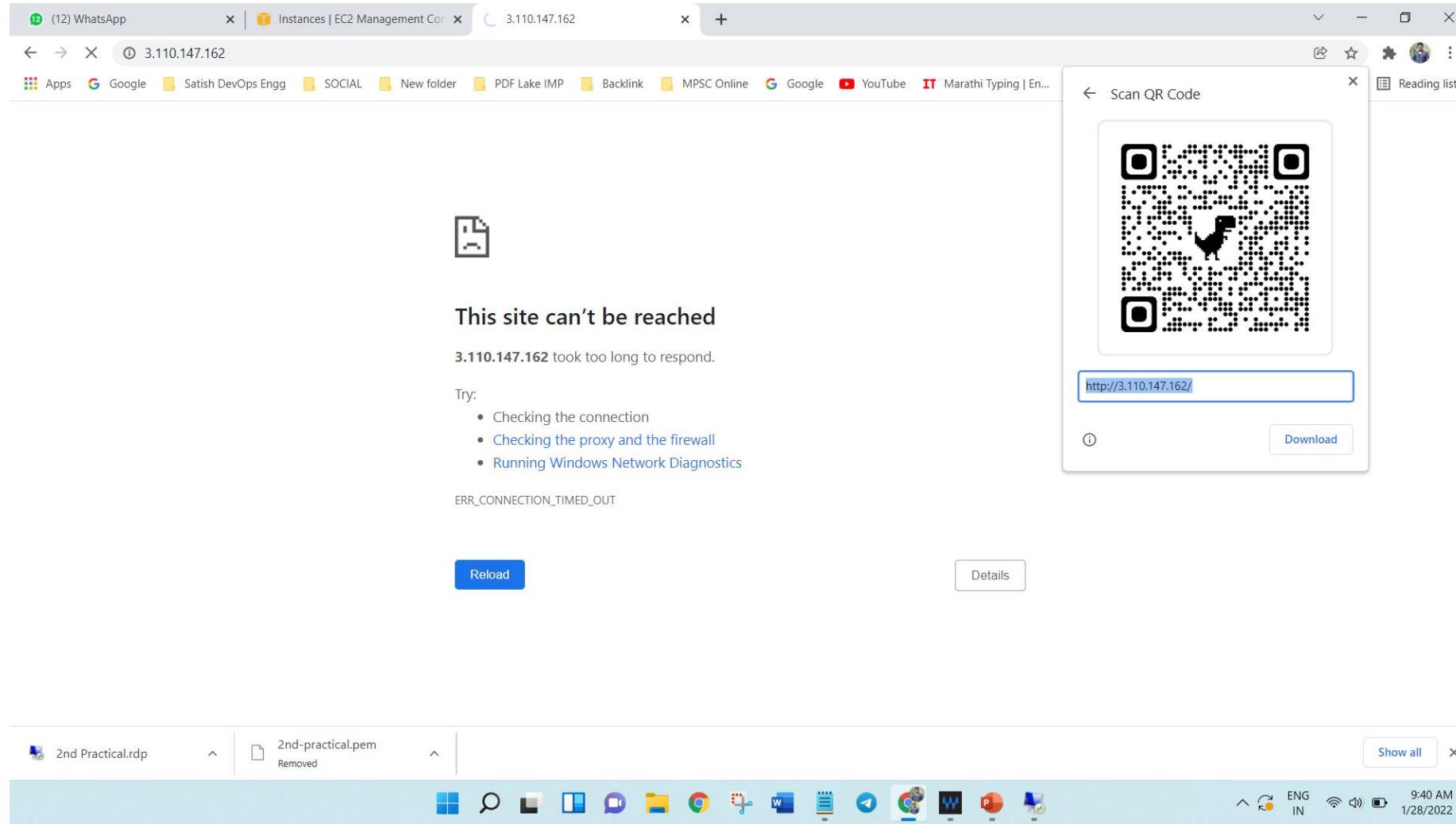
A modal window titled "Instance: i-035c133d85e571499 (2nd Practical)" is open, showing the Details tab. It displays the following information:

- Instance summary: Instance ID - i-035c133d85e571499 (2nd Practical); Public IPv4 address - 3.110.147.162 (with a copy button); Instance state - Running.
- Private IPv4 addresses: 172.31.45.0.
- Public IPv4 DNS: ec2-3-110-147-162.ap-south-

A tooltip indicates that the Public IPv4 address has been copied.

The bottom of the screen shows the Windows taskbar with icons for File Explorer, Task View, Start, Search, Taskbar settings, and several pinned applications. The system tray shows the date (1/28/2022), time (9:39 AM), battery level, signal strength, and language (ENG IN).

- Copy your Public IP



- Open it in your browser
- The site can't be reached bcoz we didn't opened HTTP port from security group
- Tip – if you want to check our Web Server Project then scan that QR or search our public IP (<http://3.110.147.162/>)

The screenshot shows the AWS EC2 Management Console interface. On the left, a sidebar lists various services: Capacity Reservations, Images (AMIs, AMI Catalog), Elastic Block Store (Volumes, Snapshots, Lifecycle Manager), Network & Security (Security Groups, Elastic IPs, Placement Groups, Key Pairs, Network Interfaces), Load Balancing (Load Balancers, Target Groups), and Auto Scaling (Launch Configurations). The main content area displays a table titled 'Instances (1/1) Info' with one row. The row details are: Name (2nd Practical), Instance ID (i-035c133d85e571499), Instance state (Running), Instance type (t2.micro), Status check (2/2 checks passed), Alarm status (No alarms), and Availability Zone (ap-south-1a). Below the table, a modal window titled 'Instance: i-035c133d85e571499 (2nd Practical)' is open, showing the 'Security' tab selected. The security details section includes: IAM Role (None), Owner ID (876283541003), Launch time (Fri Jan 28 2022 09:21:36 GMT+0530 (India Standard Time)), Security groups (sg-0519e211927b4ca47 (2nd-practical-sg)), Inbound rules, and Outbound rules.

- Now click on Security Groups which is on your left side of console.

The screenshot shows the AWS EC2 Management Console interface. The left sidebar navigation includes sections for Capacity Reservations, Images, Elastic Block Store, Network & Security (selected), Load Balancing, and Auto Scaling. Under Network & Security, the 'Security Groups' option is selected, showing a list of four security groups: '2nd-practical-sg', 'windows machine', 'Windows-SG', and 'default'. The '2nd-practical-sg' group is currently selected. The main content area displays the details for 'sg-0519e211927b4ca47 - 2nd-practical-sg'. It shows tabs for Details, Inbound rules, Outbound rules, and Tags. A message indicates that network connectivity can be checked using the Reachability Analyzer, with a 'Run Reachability Analyzer' button. The bottom of the screen shows the browser's address bar with the URL <https://ap-south-1.console.aws.amazon.com/ec2/v2/home?region=ap-south-1#SecurityGroup;groupId=sg-0519e211927b4ca47>, and the system tray with various icons.

Name	Security group ID	Security group name	VPC ID	Description	Owner
-	sg-0519e211927b4ca47	2nd-practical-sg	vpc-08ffbc1bb43e9607f	2nd-practical-sg	876283541003
-	sg-0762c0d82f82cbfd2	windows machine	vpc-08ffbc1bb43e9607f	2nd practical	876283541003
-	sg-0e26c5d27348c40e0	Windows-SG	vpc-08ffbc1bb43e9607f	to access my windows ...	876283541003
-	sg-0f3bddfd74167ffd9	default	vpc-08ffbc1bb43e9607f	default VPC security gr...	876283541003

- Select the particular security group, which you have created while creation of instance.

The screenshot shows the AWS EC2 Management Console interface. The left sidebar contains a navigation menu with sections like Capacity Reservations, Images (AMIs, AMI Catalog), Elastic Block Store (Volumes, Snapshots, Lifecycle Manager), Network & Security (Security Groups, Elastic IPs, Placement Groups, Key Pairs, Network Interfaces), Load Balancing (Load Balancers, Target Groups), and Auto Scaling (Launch Configurations). The main content area displays the details of a security group named 'sg-0519e211927b4ca47 - 2nd-practical-sg'. The 'Details' section shows the security group name, ID, description, owner, and VPC ID. Below this, tabs for 'Inbound rules', 'Outbound rules', and 'Tags' are visible, with 'Inbound rules' currently selected. A message indicates that network connectivity can be checked using the Reachability Analyzer. At the bottom, there is a table for managing inbound rules, a feedback link, language selection (English (US)), and a system status bar showing the date and time.

- Now in the bottom you can see 3 options
 1. **Inbound rules**
 2. **Outbound rules**
 3. **Tags**

The screenshot shows the AWS EC2 Management Console interface. The left sidebar contains navigation links for Capacity Reservations, Images (AMIs, AMI Catalog), Elastic Block Store (Volumes, Snapshots), Lifecycle Manager, Network & Security (Security Groups, Elastic IPs, Placement Groups, Key Pairs, Network Interfaces), Load Balancing (Load Balancers, Target Groups), and Auto Scaling (Launch Configurations). The main content area displays the 'Details' section for a security group named '2nd-practical-sg'. It shows the security group ID (sg-0519e211927b4ca47), description ('2nd-practical-sg'), owner (876283541003), VPC ID (vpc-08ffbc1bb43e9607f), inbound rules count (1 Permission entry), and outbound rules count (1 Permission entry). Below this, there are tabs for 'Inbound rules' (selected), 'Outbound rules', and 'Tags'. A message box indicates that network connectivity can be checked with the Reachability Analyzer, with buttons for 'Run Reachability Analyzer' and 'X'. The 'Inbound rules (1/1)' table lists one rule: sgr-05022c5e6517892... (Security group rule ID), IPv4 (IP version), RDP (Type), TCP (Protocol), and 3389 (Port range). The bottom of the screen includes a toolbar with various icons, a footer with copyright information (© 2022, Amazon Internet Services Private Ltd. or its affiliates.), and a system tray showing the date and time (9:43 AM, 1/28/2022).

- Go to the **Inbound Rules**
- Then click on **EDIT Inbound Rules**

The screenshot shows the AWS EC2 Management Console with the URL ap-south-1.console.aws.amazon.com/ec2/v2/home?region=ap-south-1#ModifyInboundSecurityGroupRules:securityGroupId=sg-0519e211927b4ca47. The page is titled "Edit inbound rules" for the security group "sg-0519e211927b4ca47 - 2nd-practical-sg". The "Inbound rules" section lists one rule:

Security group rule ID	Type	Protocol	Port range	Source	Description - optional
sgr-05022c5e651789248	RDP	TCP	3389	Custom	0.0.0.0/0

Buttons at the bottom include "Add rule", "Cancel", "Preview changes", and "Save rules".

- Click on Add rule
- Then go to New created rule Type

The screenshot shows the AWS EC2 Management Console with the URL ap-south-1.console.aws.amazon.com/ec2/v2/home?region=ap-south-1#ModifyInboundSecurityGroupRules:securityGroupId=sg-0519e211927b4ca47. The page is titled "Edit inbound rules" for the security group "sg-0519e211927b4ca47 - 2nd-practical-sg". The "Inbound rules" section lists a single rule:

Protocol	Port range	Source	Description - optional
TCP	3389	Custom	0.0.0.0/0

At the bottom, there are "Cancel", "Preview changes", and "Save rules" buttons.

- Select HTTP from Type

The screenshot shows the AWS EC2 Management Console with the URL ap-south-1.console.aws.amazon.com/ec2/v2/home?region=ap-south-1#ModifyInboundSecurityGroupRules:securityGroupId=sg-0519e211927b4ca47. The page is titled "Edit inbound rules" for the security group "sg-0519e211927b4ca47 - 2nd-practical-sg". The "Source" column for the second rule has a dropdown menu open, showing options: "Custom", "Anywhere-IPv4" (which is highlighted in red), "Anywhere-IPv6", and "My IP". Other options like "Custom" and "Anywhere-IPv4" are also visible in the dropdown menu.

- Go to the Source
- Then select source from custom to **Anywhere-IPv4**

The screenshot shows the AWS EC2 Management Console with the URL ap-south-1.console.aws.amazon.com/ec2/v2/home?region=ap-south-1#ModifyInboundSecurityGroupRules:securityGroupId=sg-0519e211927b4ca47. The page title is "Edit inbound rules" for the security group "sg-0519e211927b4ca47 - 2nd-practical-sg".

The "Inbound rules" table lists two rules:

Security group rule ID	Type	Protocol	Port range	Source	Description - optional
sgr-05022c5e651789248	RDP	TCP	3389	Custom	0.0.0.0/0
-	HTTP	TCP	80	Anywh...	0.0.0.0/0

At the bottom of the table are "Add rule" and "Save rules" buttons. The "Save rules" button is highlighted in orange.

The browser's address bar shows the URL: 3.110.147.162.

The bottom navigation bar includes links for Feedback, English (US), Privacy, Terms, and Cookie preferences. It also displays system status icons for battery, signal, and time (9:44 AM, 1/28/2022).

- Click on Save Rules

The screenshot shows the AWS EC2 Management Console with a success message: "Inbound security group rules successfully modified on security group (sg-0519e211927b4ca47 | 2nd-practical-sg)". The main view displays the details of the security group "sg-0519e211927b4ca47 - 2nd-practical-sg". The "Inbound rules" tab is selected, showing two entries. A notification at the bottom says, "You can now check network connectivity with Reachability Analyzer". The browser's address bar shows the URL: "3.110.147.162 ap-south-1.console.aws.amazon.com/ec2/v2/home?region=ap-south-1#SecurityGroup:group-id=sg-0519e211927b4ca47".

Inbound security group rules successfully modified on security group (sg-0519e211927b4ca47 | 2nd-practical-sg)

EC2 > Security Groups > sg-0519e211927b4ca47 - 2nd-practical-sg

sg-0519e211927b4ca47 - 2nd-practical-sg

Details

Security group name 2nd-practical-sg	Security group ID sg-0519e211927b4ca47	Description 2nd-practical-sg	VPC ID vpc-08ffbc1bb43e9607f
Owner 876283541003	Inbound rules count 2 Permission entries	Outbound rules count 1 Permission entry	

Inbound rules | Outbound rules | Tags

You can now check network connectivity with Reachability Analyzer

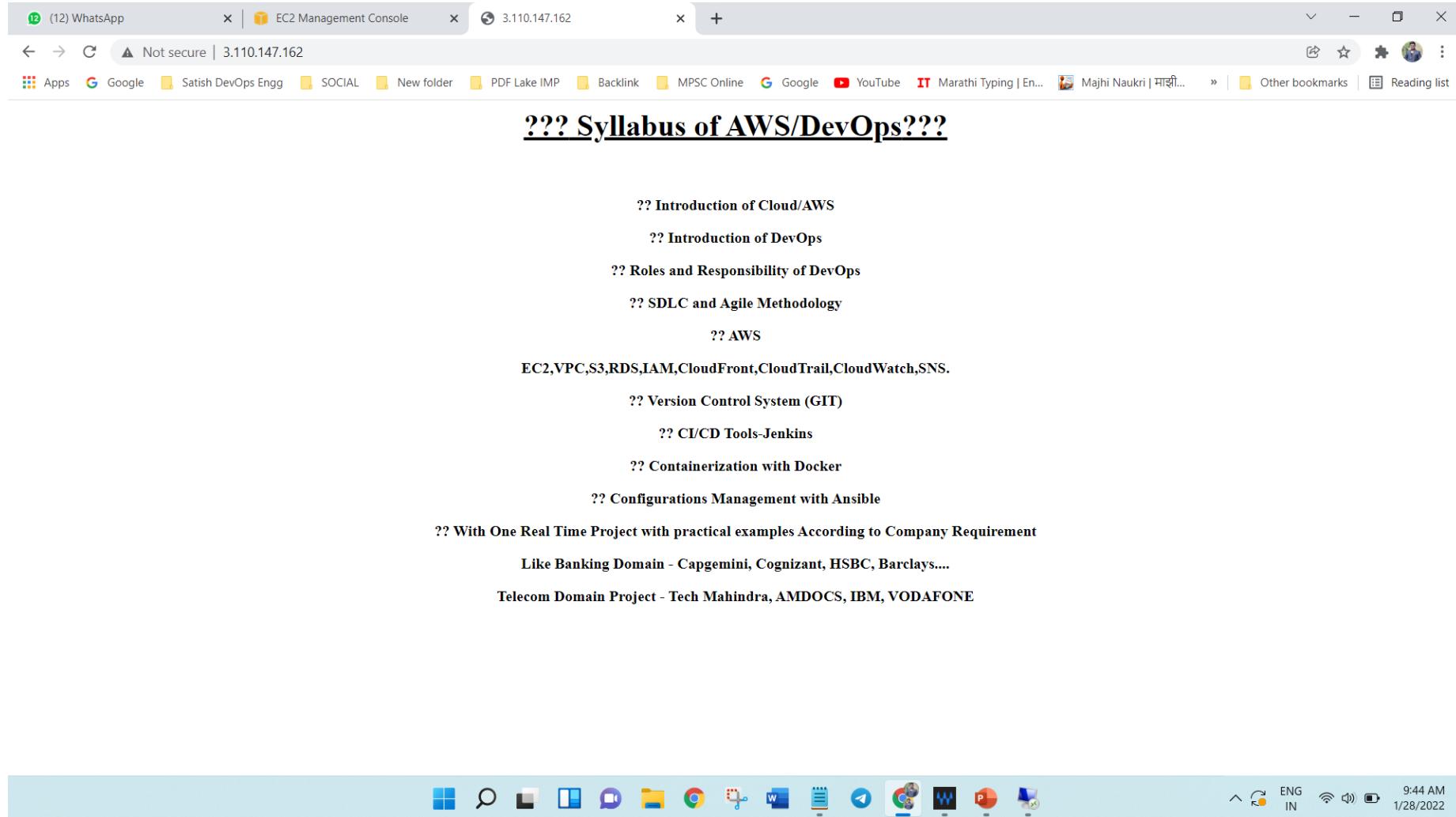
Inbound rules (2)

Manage tags | Edit inbound rules

Feedback English (US) © 2022, Amazon Internet Services Private Ltd. or its affiliates. Privacy Terms Cookie preferences

9:44 AM 1/28/2022

- Your inbound rules saved successfully
- Now go to your browser and Reload your Public IP.



- Your HTML application running fine

Thanks for doing practical with us.