

AWS-Cloud

Presented by
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Pragati Engineering College,
IV-IT

Agenda

TASK-2

1. Create windows free tier EC2 instance
2. Install IIS webserver on it
3. Deploy personal website website on it
4. Terminate EC2 instance

Simply how to create AWS Windows EC2 instance and deploy a website on IIS

AWS-Cloud Console->services->compute->EC2->Launch Instance
Name & Tag be TalentNextWindows2
AMI->**Microsoft Windows Server 2022 Base**

Launch an instance | EC2 Manager | X

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

aws Services Search [Alt+S] Mumbai Harshita

EC2 > Instances > Launch an instance

Launch an instance [Info](#)

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 [Info](#)

Name

TalentNextWindows1 [Add additional tags](#)

▼ 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

▼ Summary

Number of instances [Info](#)

1

Software Image (AMI)

Microsoft Windows Server 2022 ...[read more](#)
ami-071288a6c7feafa11

Virtual server type (instance type)

t2.micro

Firewall (security group)

New security group

Storage (volumes)

1 volume(s) - 30 GiB

Cancel [Launch Instance](#)

[Go to Settings to activate Windows](#)
[Review commands](#)

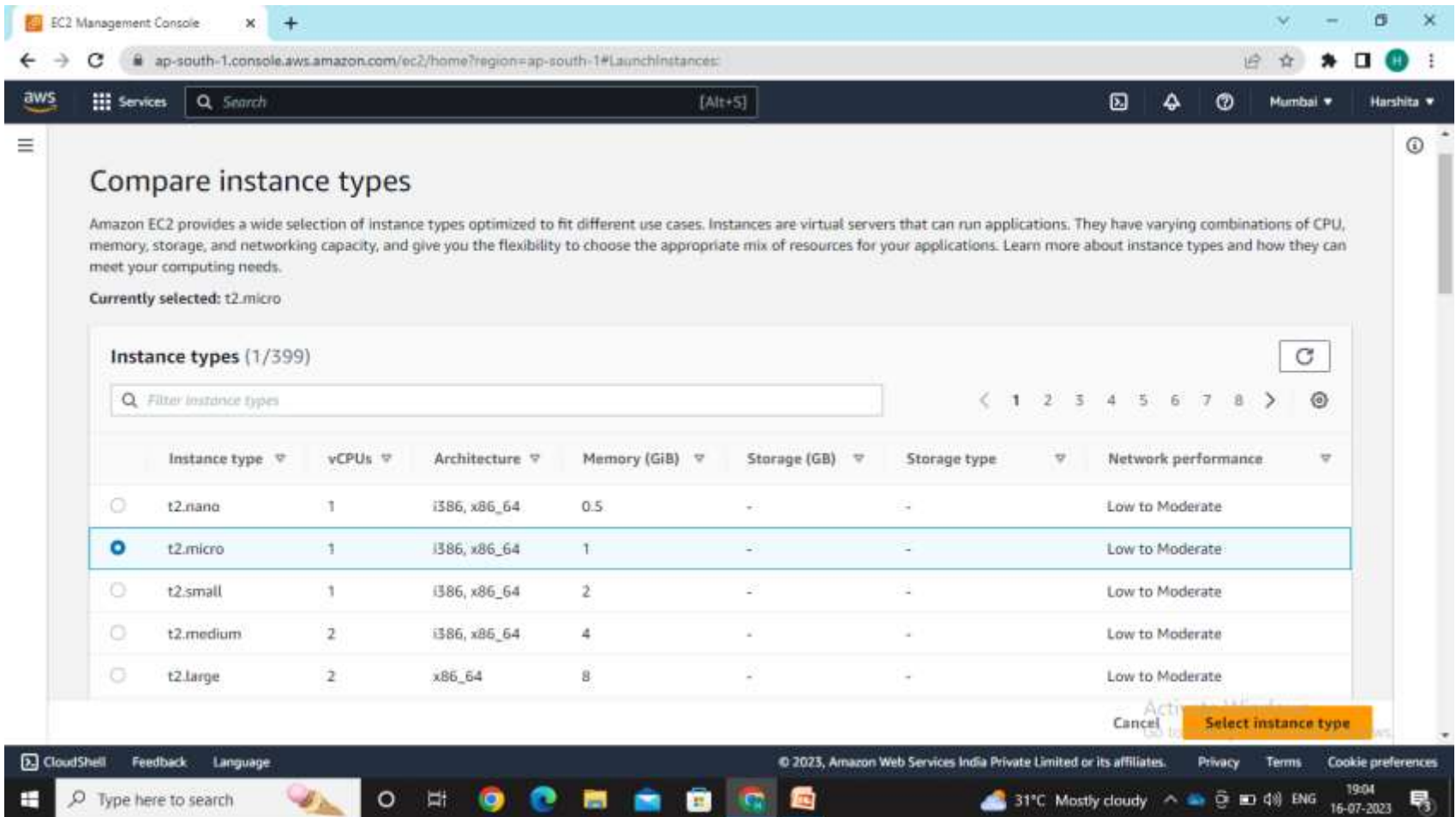
CloudShell Feedback Language

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Type here to search

31°C Mostly cloudy 19:01 16-07-2023

Select instance type as t2.micro and click on select instance type



The screenshot shows the AWS EC2 Management Console interface. The browser address bar indicates the URL is `ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#LaunchInstances:`. The console header shows the AWS logo, 'Services', a search bar, and the user's name 'Harshita'.

Compare instance types

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.

Currently selected: t2.micro

Instance types (1/399)

Filter instance types

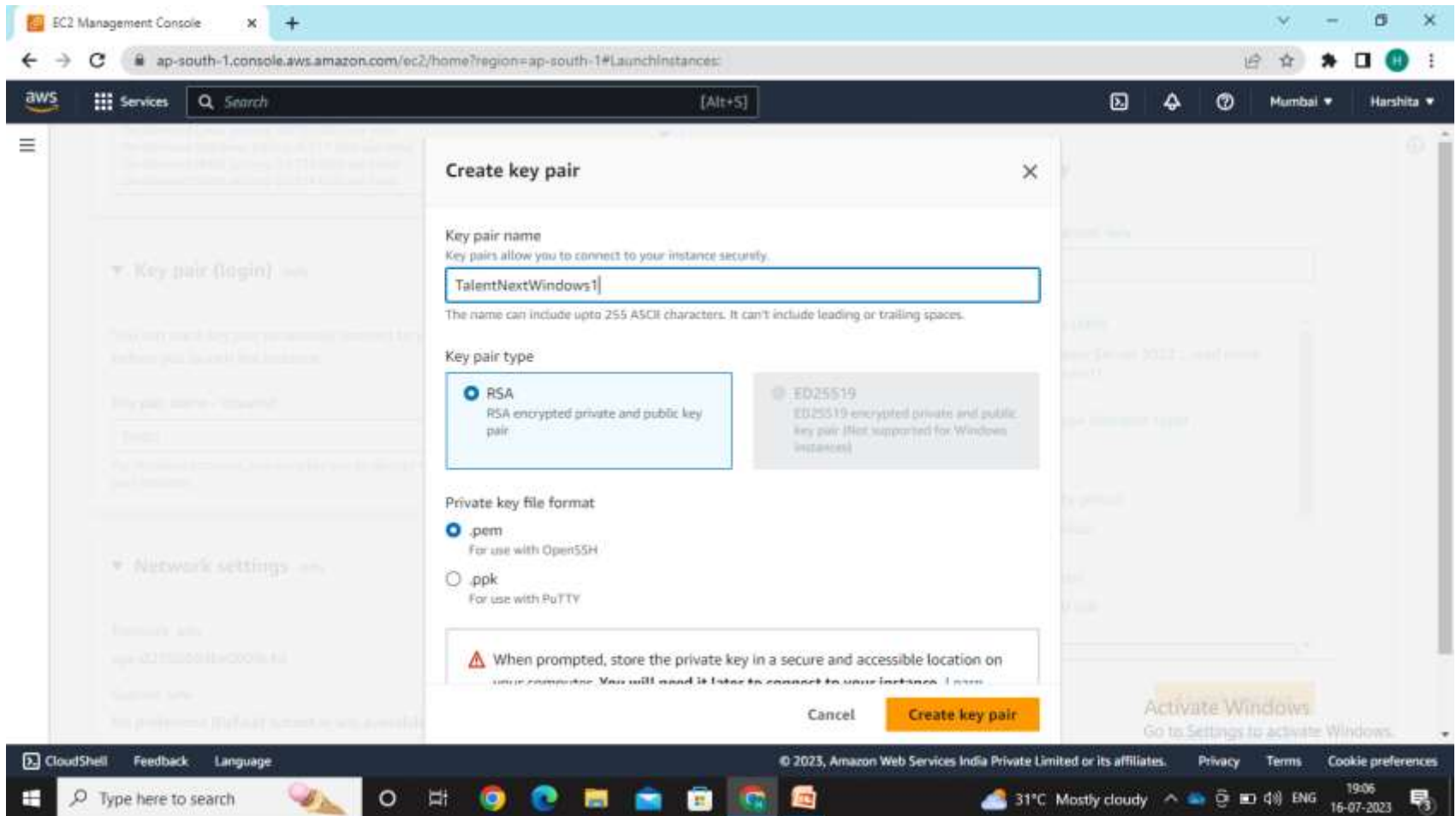
Instance type	vCPUs	Architecture	Memory (GiB)	Storage (GB)	Storage type	Network performance
<input type="radio"/> t2.nano	1	i386, x86_64	0.5	-	-	Low to Moderate
<input checked="" type="radio"/> t2.micro	1	i386, x86_64	1	-	-	Low to Moderate
<input type="radio"/> t2.small	1	i386, x86_64	2	-	-	Low to Moderate
<input type="radio"/> t2.medium	2	i386, x86_64	4	-	-	Low to Moderate
<input type="radio"/> t2.large	2	x86_64	8	-	-	Low to Moderate

At the bottom right of the table, there are two buttons: 'Cancel' and 'Select instance type'.

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Key pair(login)->create key pair->key pair name->create key pair
Then the key pair will be downloaded in to our system



Keep network settings, Configure storage and advance details as default as in the instance.

Then click on Launch Instance in the summary

EC2 Management Console

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

Services Search [Alt+S]

Mumbai Harshita

EC2 > Instances > Launch an instance

Launch an instance [Info](#)

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New security group

Storage (volumes)

1 volume(s) - 30 GiB

Cancel [Launch Instance](#)

[Go to Settings to activate Windows](#)
[Review commands](#)

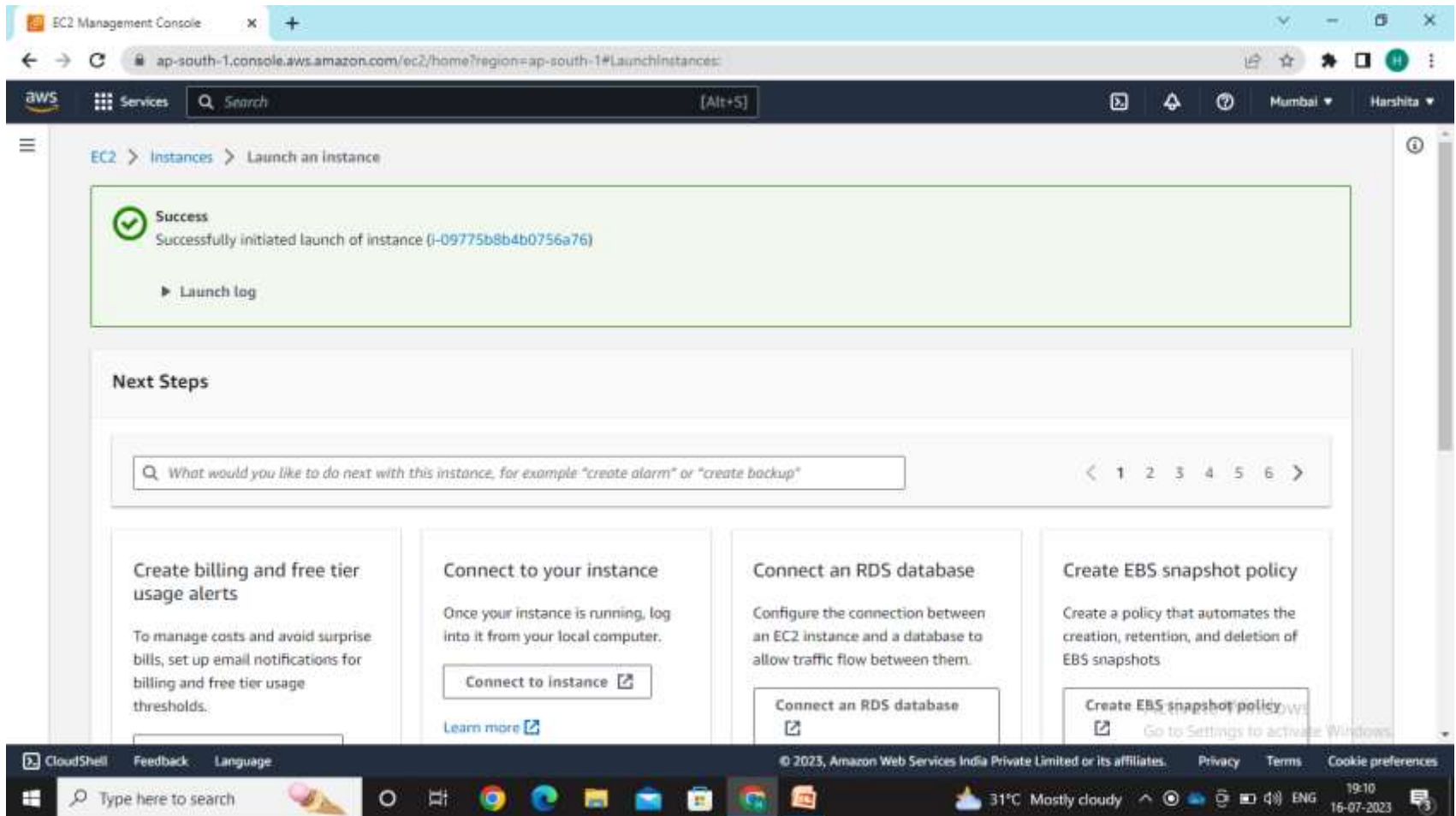
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Type here to search

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Our instance has been successfully created



EC2 Management Console

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

aws

Services

Search

[Alt+S]

Mumbai

Harshita

New EC2 Experience

EC2 Dashboard

EC2 Global View

Events

Instances

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Capacity Reservations

Images

AMIs

AMI Catalog

Elastic Block Store

Instances (1/1) Info

Find instance by attribute or tag (case-sensitive)

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
TalentNextWl...	i-09775b8b4b0756a76	Running	t2.micro	Initializing	No alarms	ap-south-1a

Instance: i-09775b8b4b0756a76 (TalentNextWindows1)

Details

Security

Networking

Storage

Status checks

Monitoring

Tags

Instance summary Info

Instance ID

i-09775b8b4b0756a76 (TalentNextWindows1)

IPv6 address

-

Hostname type

IP name: ip-172-31-37-209.ap-south-

Public IPv4 address

35.154.99.245 | open address

Instance state

Running

Private IP DNS name (IPv4 only)

ip-172-31-37-209.ap-south-1.compute.internal

Private IPv4 addresses

172.31.37.209

Public IPv4 DNS

ec2-35-154-99-245.ap-south-1.compute.amazonaws.com | open address

Activate Windows

Go to Settings to activate Windows.

CloudShell

Feedback

Language

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Privacy

Terms

Cookie preferences

Type here to search

Rain tomorrow

19:12

16-07-2023

Now connect to instance->RDP Client->Download Remote desktop file->Click on Get Password as scroll down the window

The screenshot shows the AWS Management Console interface for connecting to an EC2 instance. The browser address bar shows the URL: `ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#ConnectToInstance:instanceId=i-09775b8b4b0756a76`. The console header includes the AWS logo, 'Services' menu, a search bar, and user information for 'Mumbai' and 'Harshita'.

The breadcrumb navigation is: **EC2** > **Instances** > **i-09775b8b4b0756a76** > **Connect to instance**.

Connect to instance info

Connect to your instance **i-09775b8b4b0756a76** (TalentNextWindows1) using any of these options

Session Manager | **RDP client** | EC2 serial console

Instance ID
i-09775b8b4b0756a76 (TalentNextWindows1)

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 Desktops, 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:

Activate Windows
Go to Settings to activate Windows.

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Type here to search

31°C Mostly cloudy 19:12 16-07-2023

Get password->upload private key file that we downloaded before at key pair(login) ->click decrypt password->copy the password and store it in your device somewhere

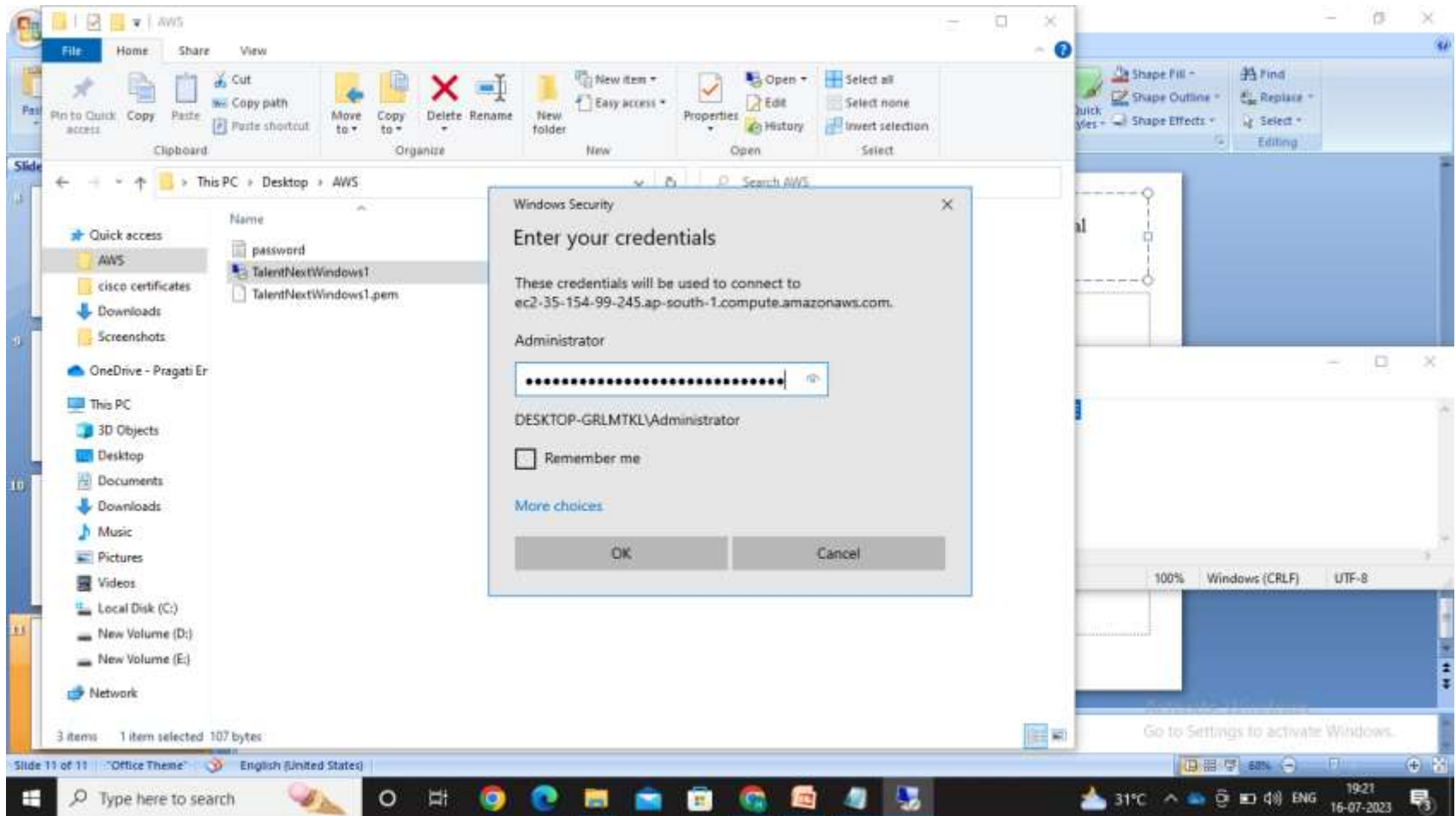
The screenshot shows the AWS Management Console interface for an EC2 instance. The browser address bar shows the URL: `ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#GetWindowsPassword:instanceId=i-09775b8b4b0756a76:previousPlace=ConnectToInstance`. The page title is "Get Windows password".

The main content area displays the following information:

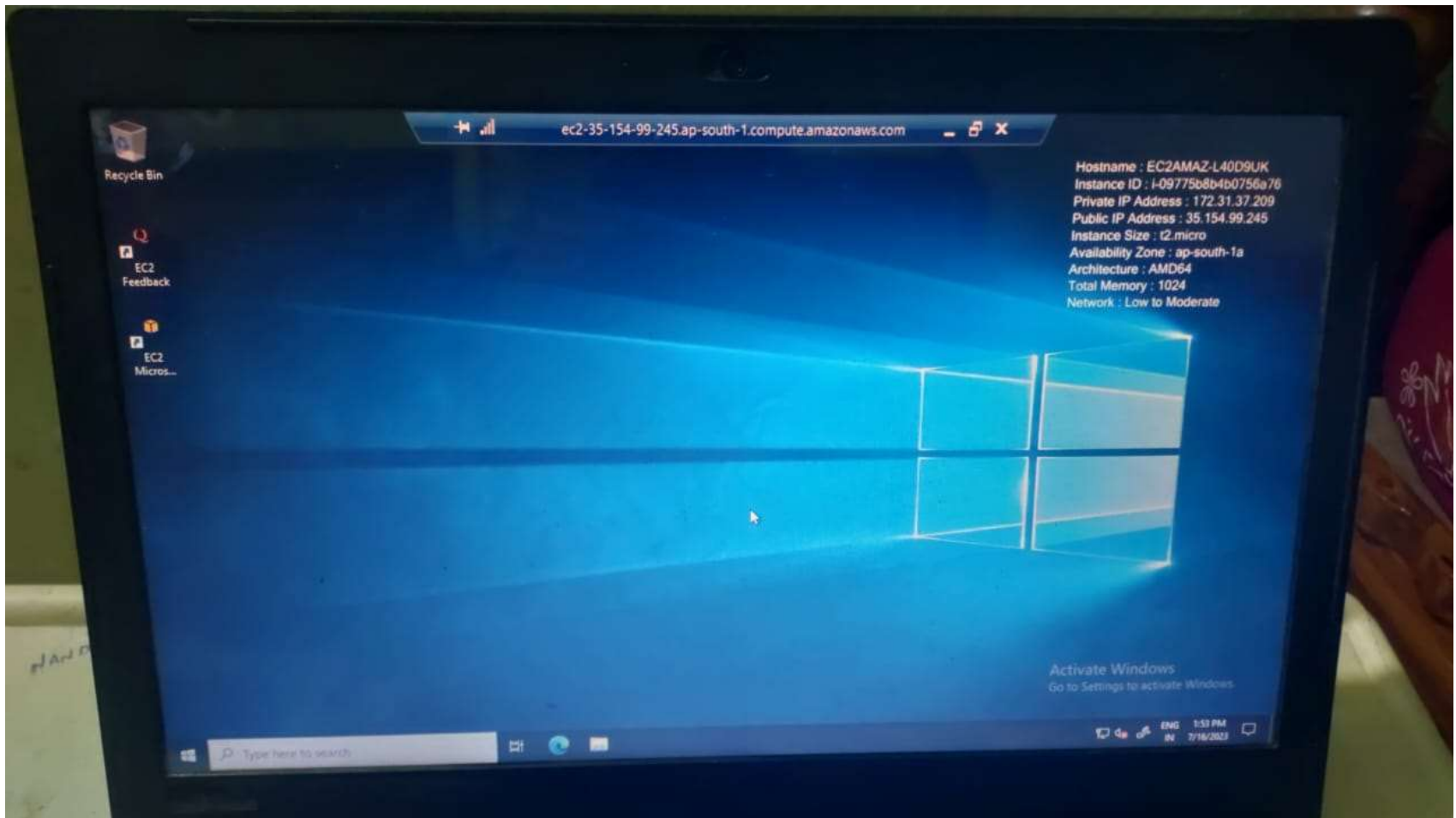
- Use your private key to retrieve and decrypt the initial Windows administrator password for this instance.
- Instance ID: `i-09775b8b4b0756a76` (TalentNextWindows1)
- Key pair associated with this instance: TalentNextWindows1
- Private key: Either upload your private key file or copy and paste its contents into the field below.
- Upload private key file button.
- File upload status: TalentNextWindows1.pem (1.678KB)
- Private key contents - optional: A text area containing the private key content, starting with `-----BEGIN RSA PRIVATE KEY-----`.

The bottom of the screen shows the Windows taskbar with the Start button, search bar, and various application icons. The system tray displays the date and time as 19:15 on 16-07-2023, along with weather information (31°C Mostly cloudy) and language settings (ENG).

Now open the download desktop file using the password then the virtual machine will be opened in the local system.



Now the virtual machine looks as follows



Now Instance->security->security groups(inbound & outbound rules)->edit inbound rules->add rule->save rules

EC2 Management Console

ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#ModifyInboundSecurityGroupRules:securityGroupId=sg-0c96369cf5377d67f

aws Services Search [Alt+S] Mumbai Harshita

EC2 > Security Groups > sg-0c96369cf5377d67f - launch-wizard-2 > Edit inbound rules

Edit inbound rules [Info](#)

Inbound rules control the incoming traffic that's allowed to reach the instance.

Inbound rules [Info](#)

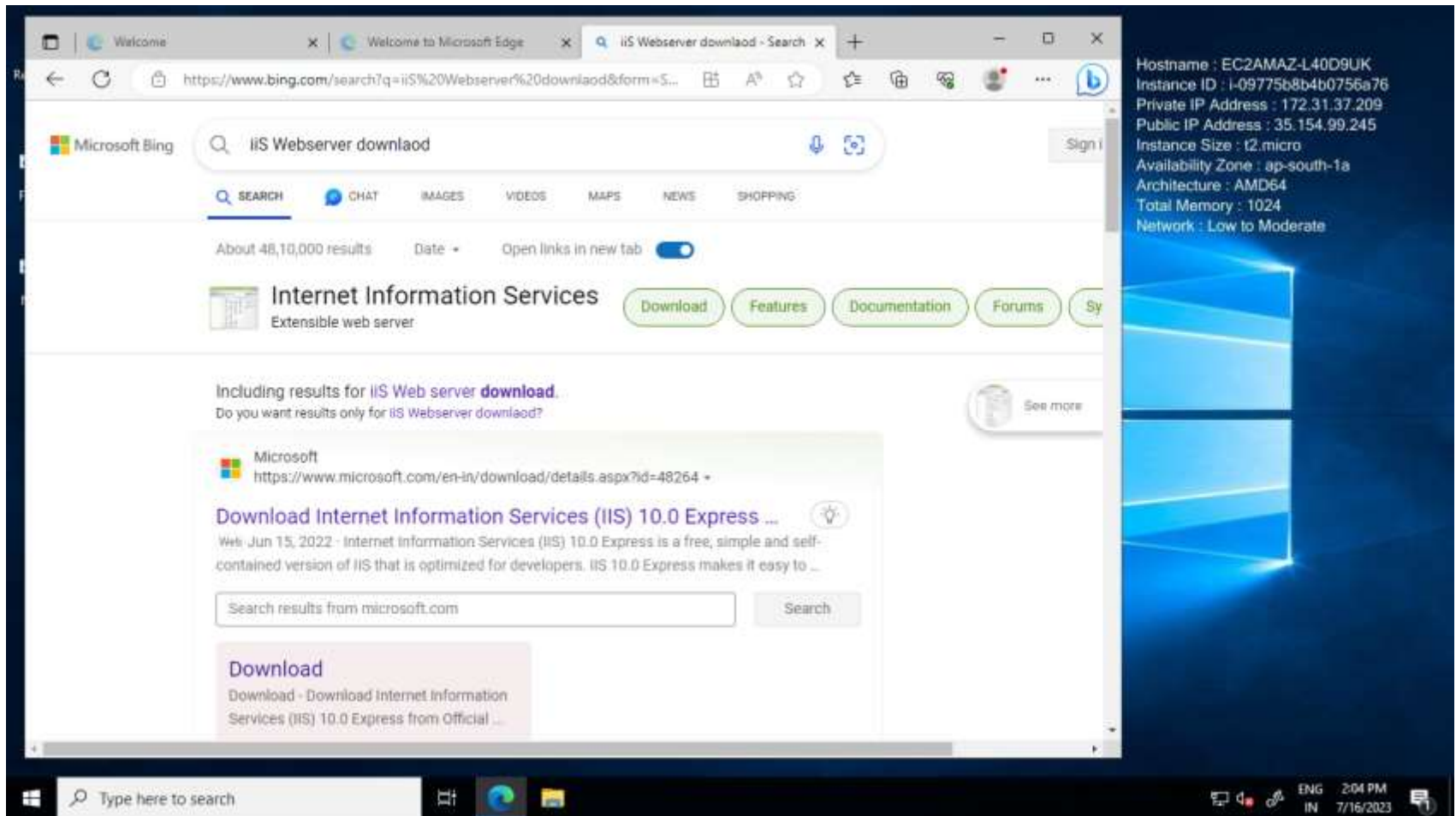
Security group rule ID	Type Info	Protocol Info	Port range Info	Source Info	Description - optional Info	
sg-0c4e6ab0d68971757	RDP	TCP	3389	Custom <input type="text" value="0.0.0.0/0"/>		Delete
-	HTTP	TCP	80	Anywh... <input type="text" value="0.0.0.0/0"/>		Delete
-	HTTP	TCP	80	Anywh... <input type="text" value="0.0.0.0/0"/>		Delete
-	HTTPS	TCP	443	Anywh... <input type="text" value="0.0.0.0/0"/>		Delete

CloudShell Feedback Language

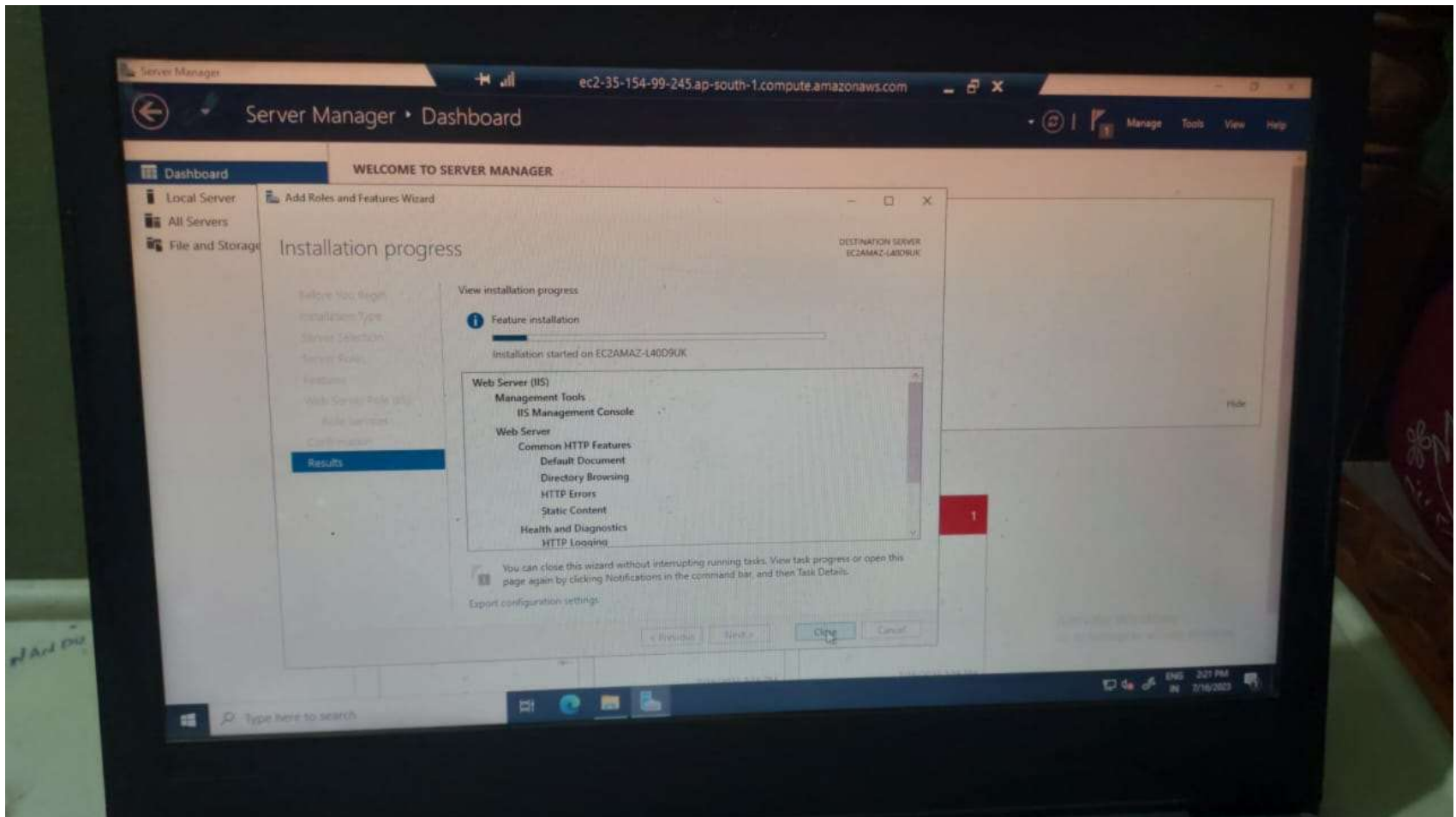
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Now open virtual machine->browser->search for relevant server you need i.e IIS(Internet Information service which is extensible webserver) webserver->install it



Now from search bar in virtual machine ->server manager->wait for sometime until a new local machine is created->click on new machine->add role and feature->click next next until you see the selection of IIS server ->click next next->Install ->close



Server Manager • Dashboard

WELCOME TO SERVER MANAGER

1 Configure this local server

QUICK START

- 1 Add roles and features
- 2 Add other servers to manage
- 3 Create a server group
- 4 Connect this server to cloud services

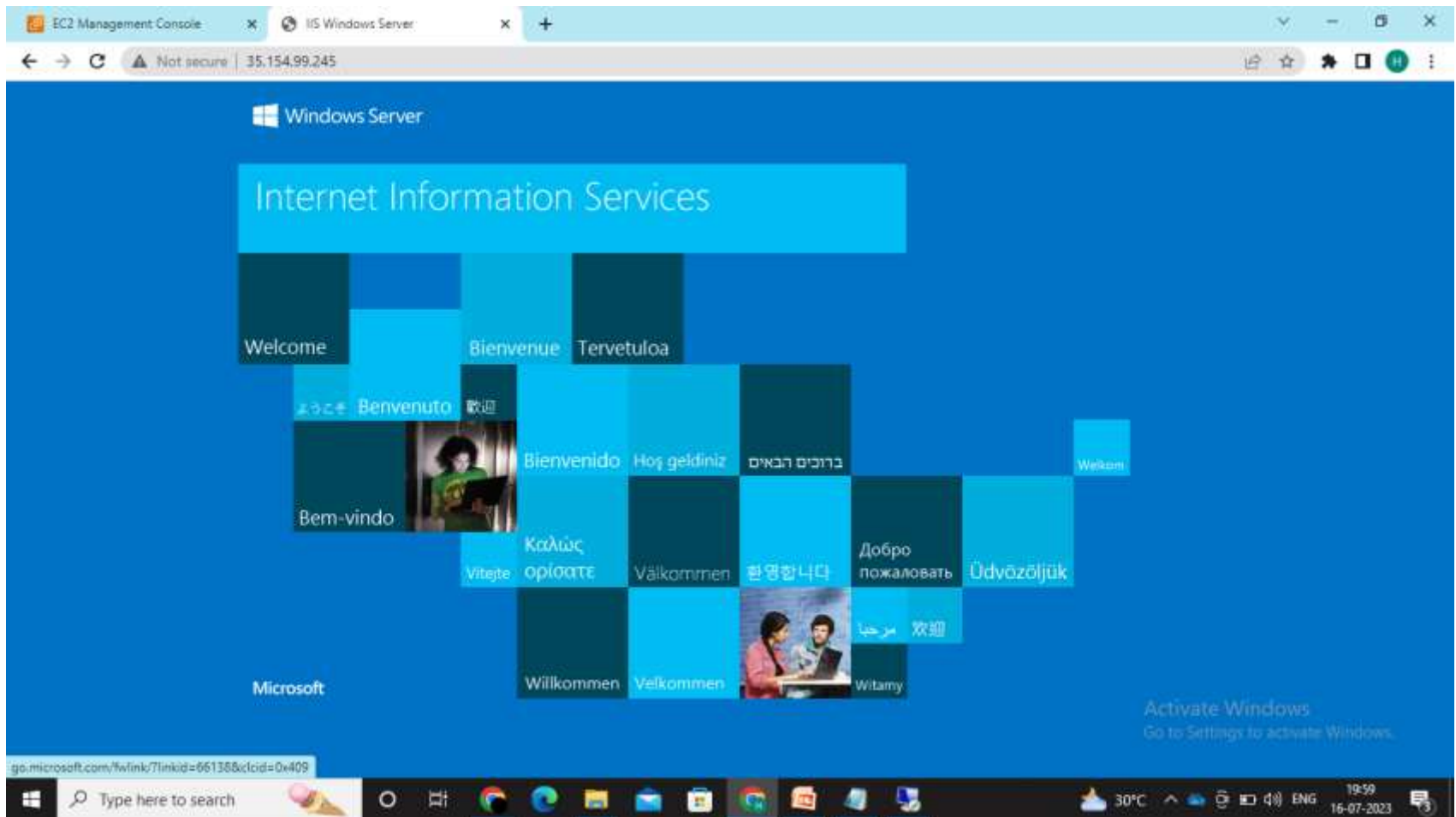
ROLE AND SERVER GROUPS

Server 2 | Server group 1 | Servers total: 1

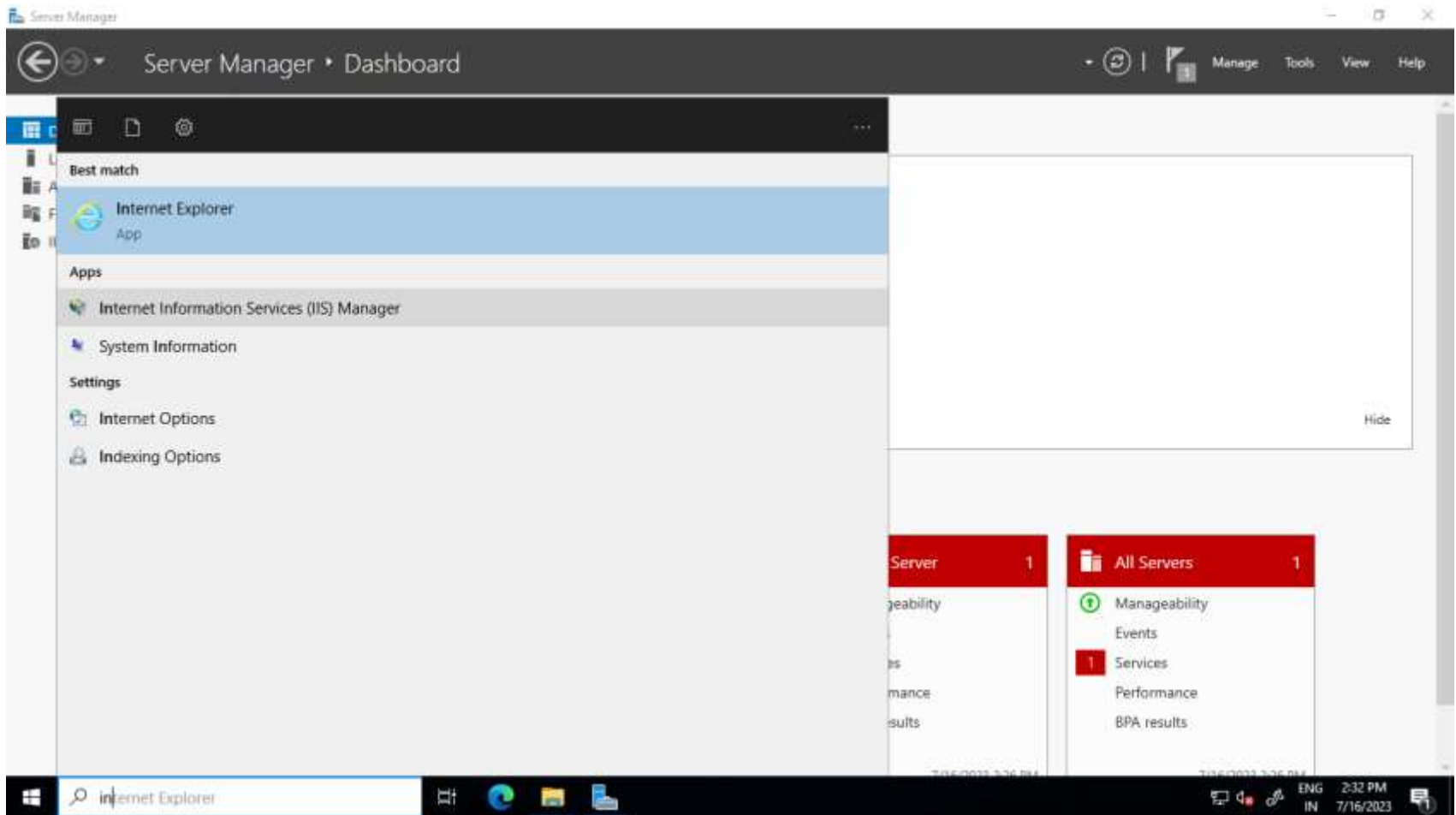
File and Storage Services	File and Storage Services	Local Server	All Servers
1 Manageability	1 Manageability	1 Manageability	1 Manageability
Events	Events	Events	Events
Performance	Performance	Performance	Performance
SQL results	SQL results	SQL results	SQL results

Taskbar: 11:15 PM 11/16/2020

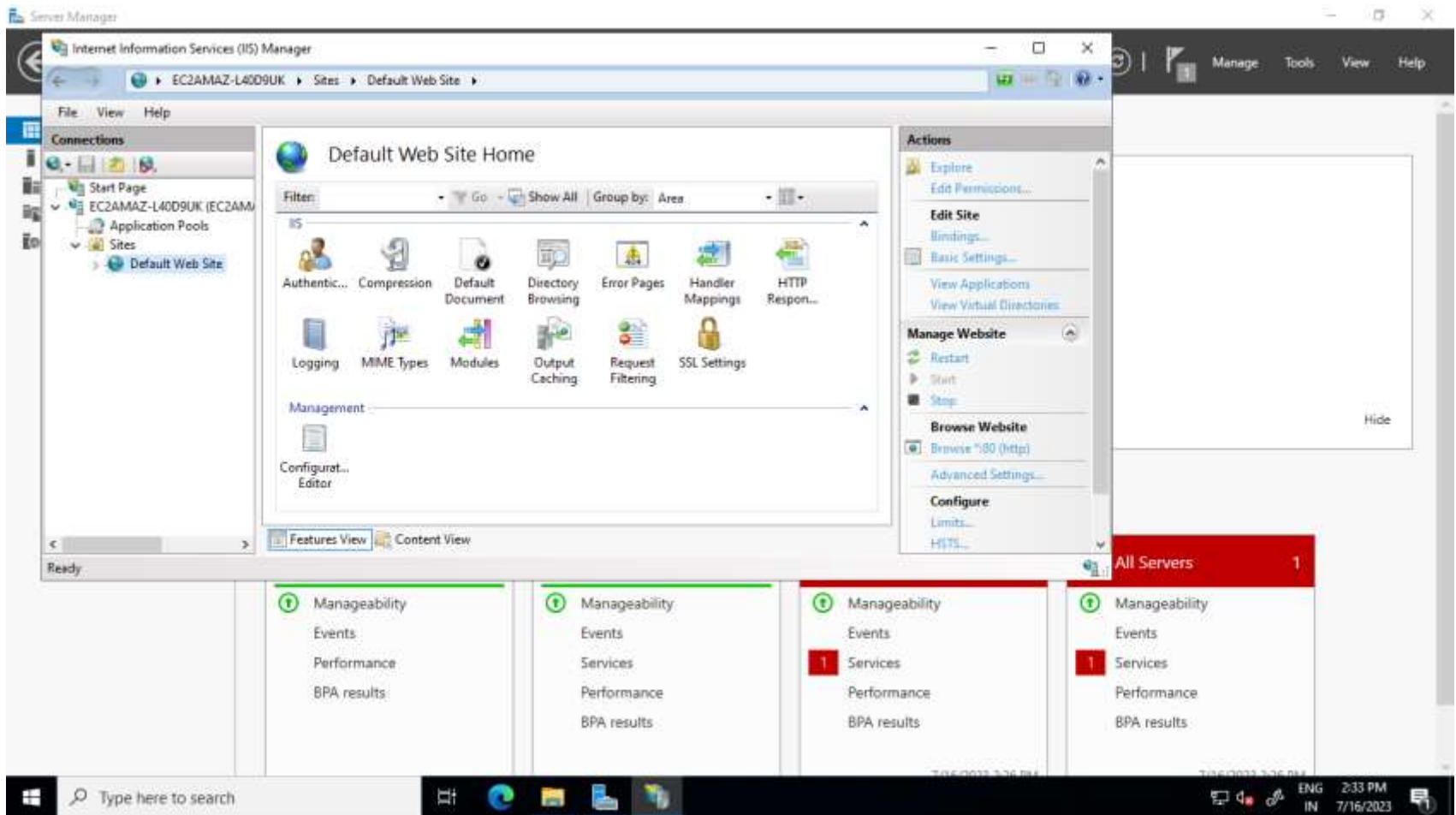
Go to webserver on your system -> paste the Public IPv4 address by this we can access our website, figure shows the default page of IIS



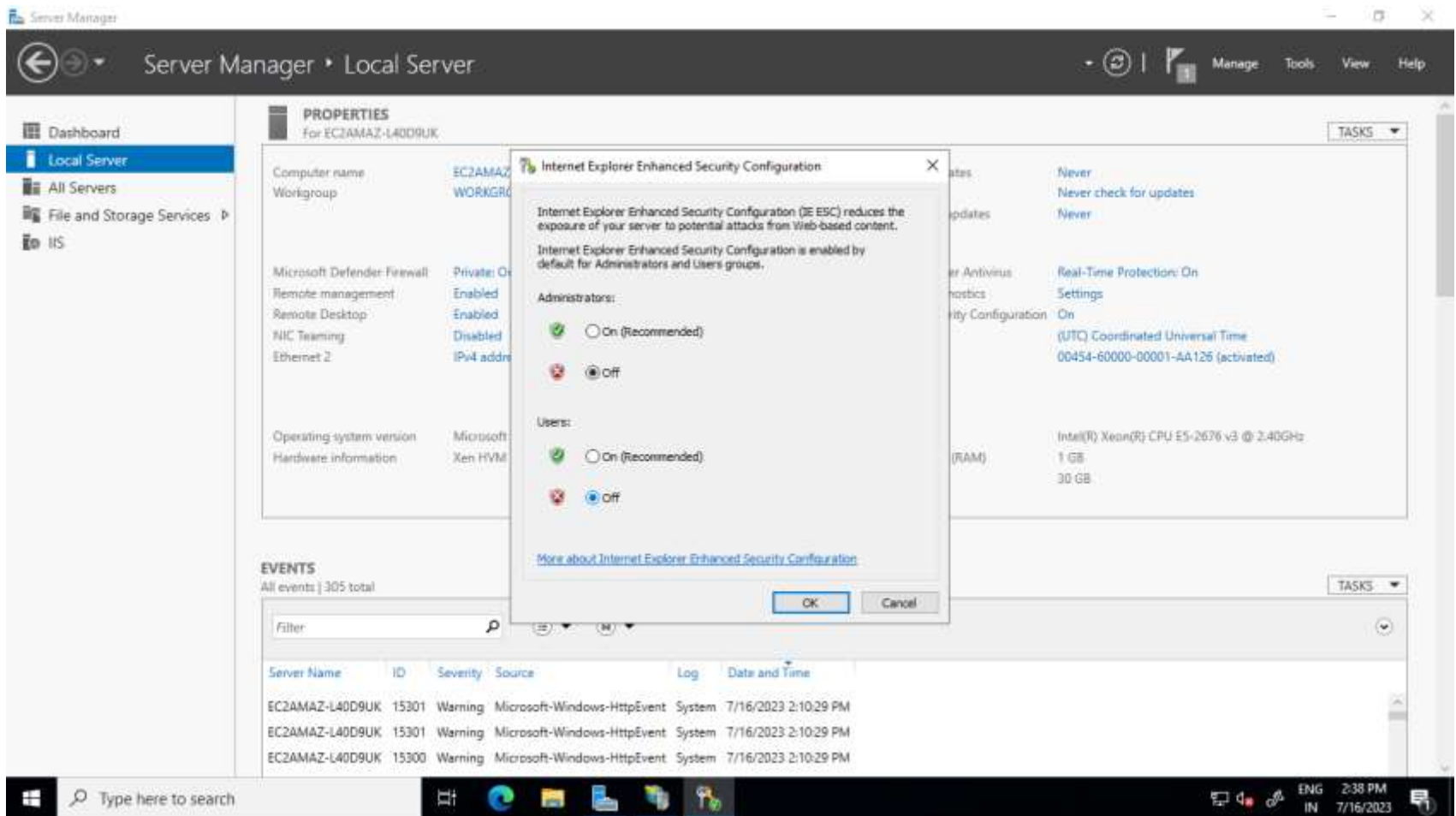
Now open IIS server on your virtual machine



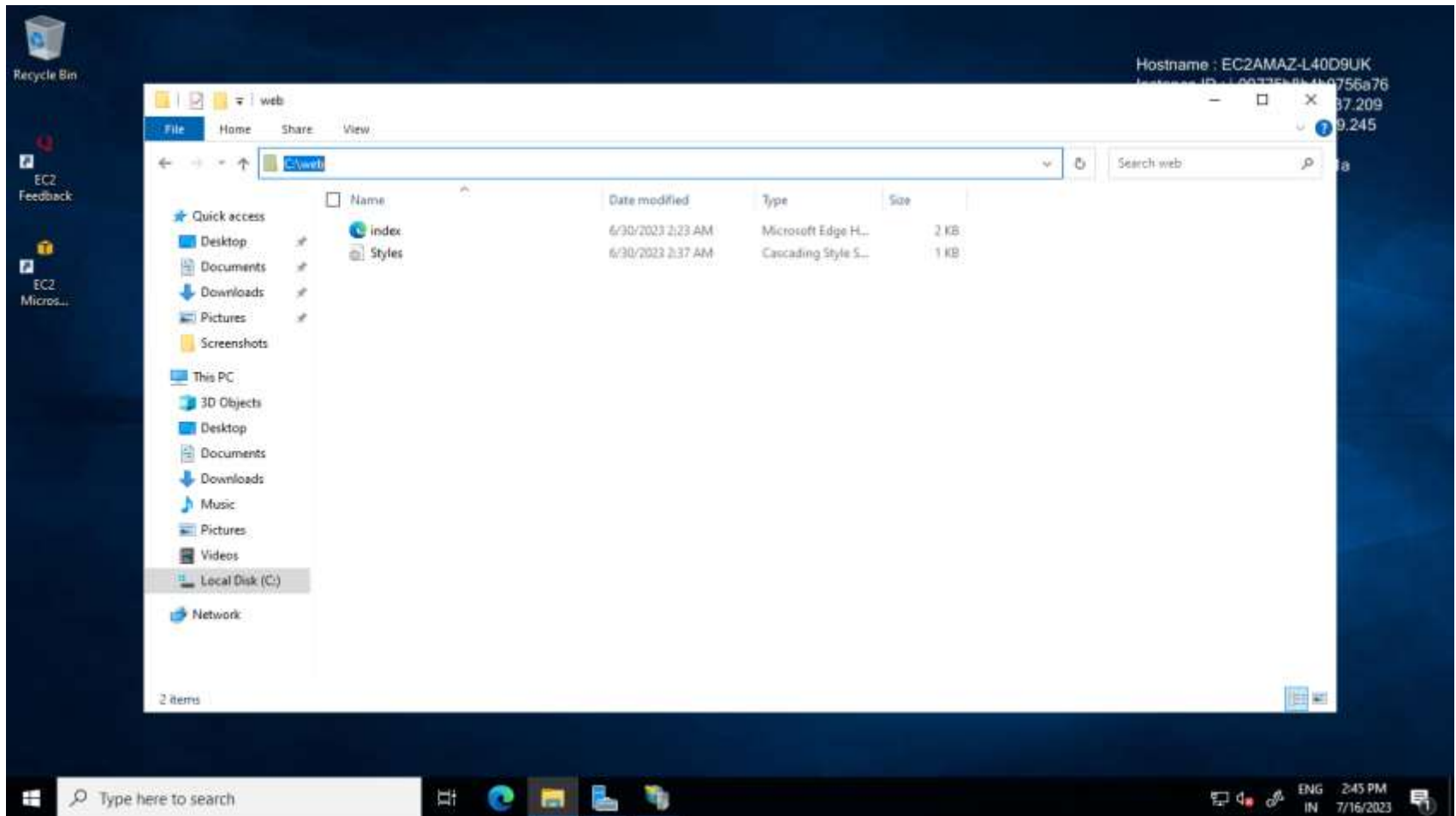
In Default web site we need map our own website to access it



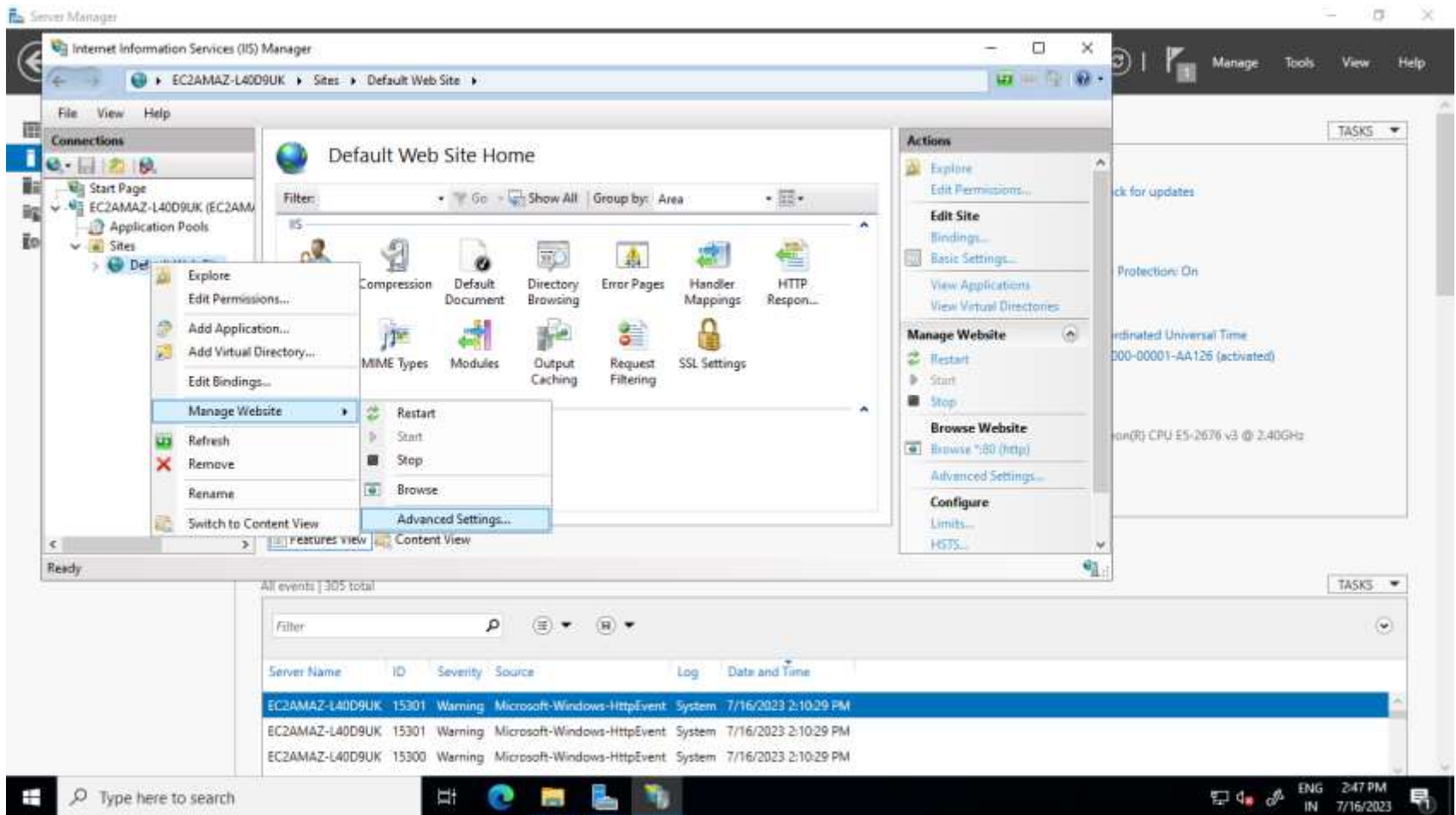
Now go to local server->IE Enhanced security configuration ->off it->ok then you can download and access any files form internet explorer



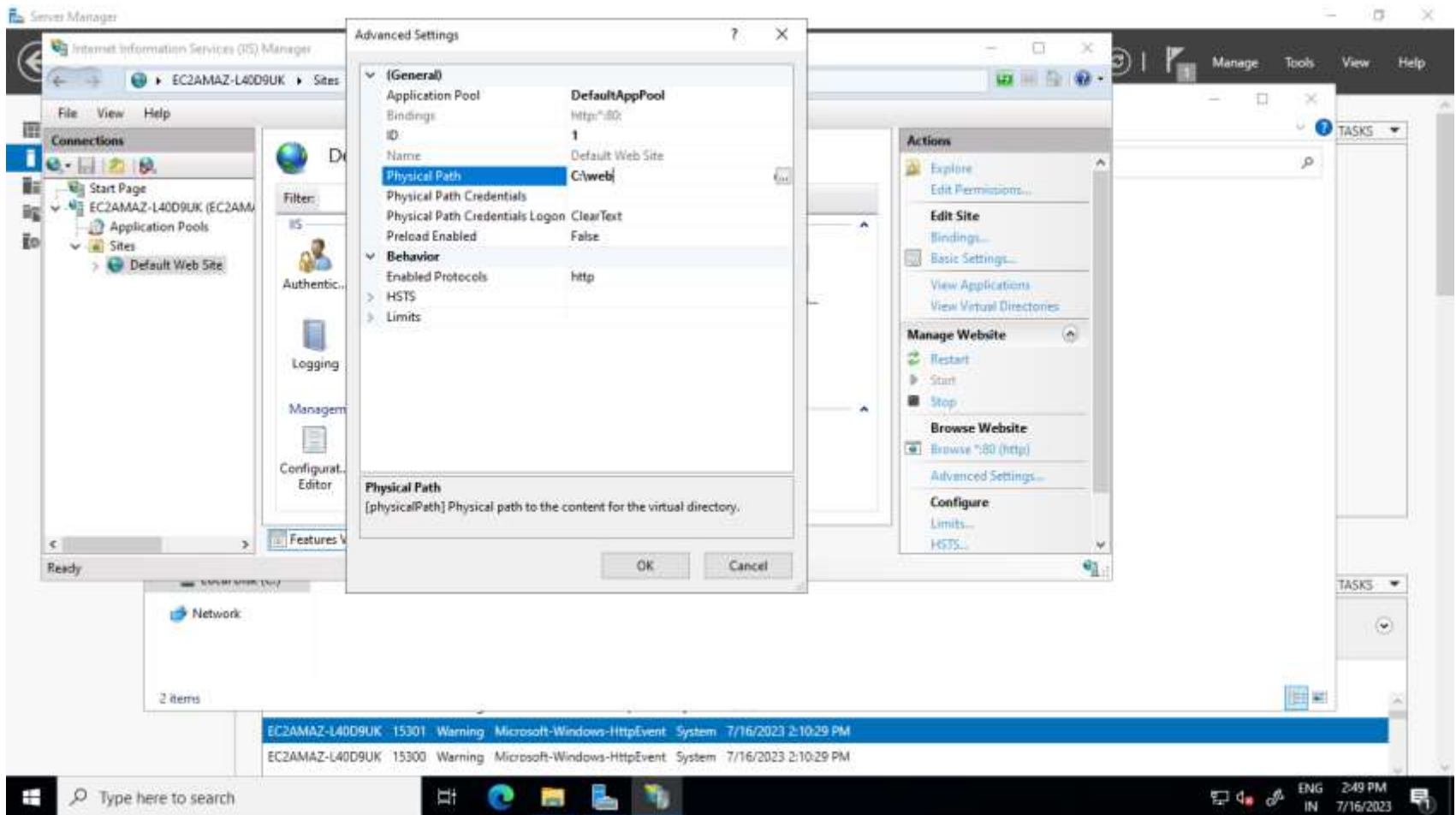
Copy your website files from local system to the virtual system to c drive by creating folder as follows and copy the path of the files



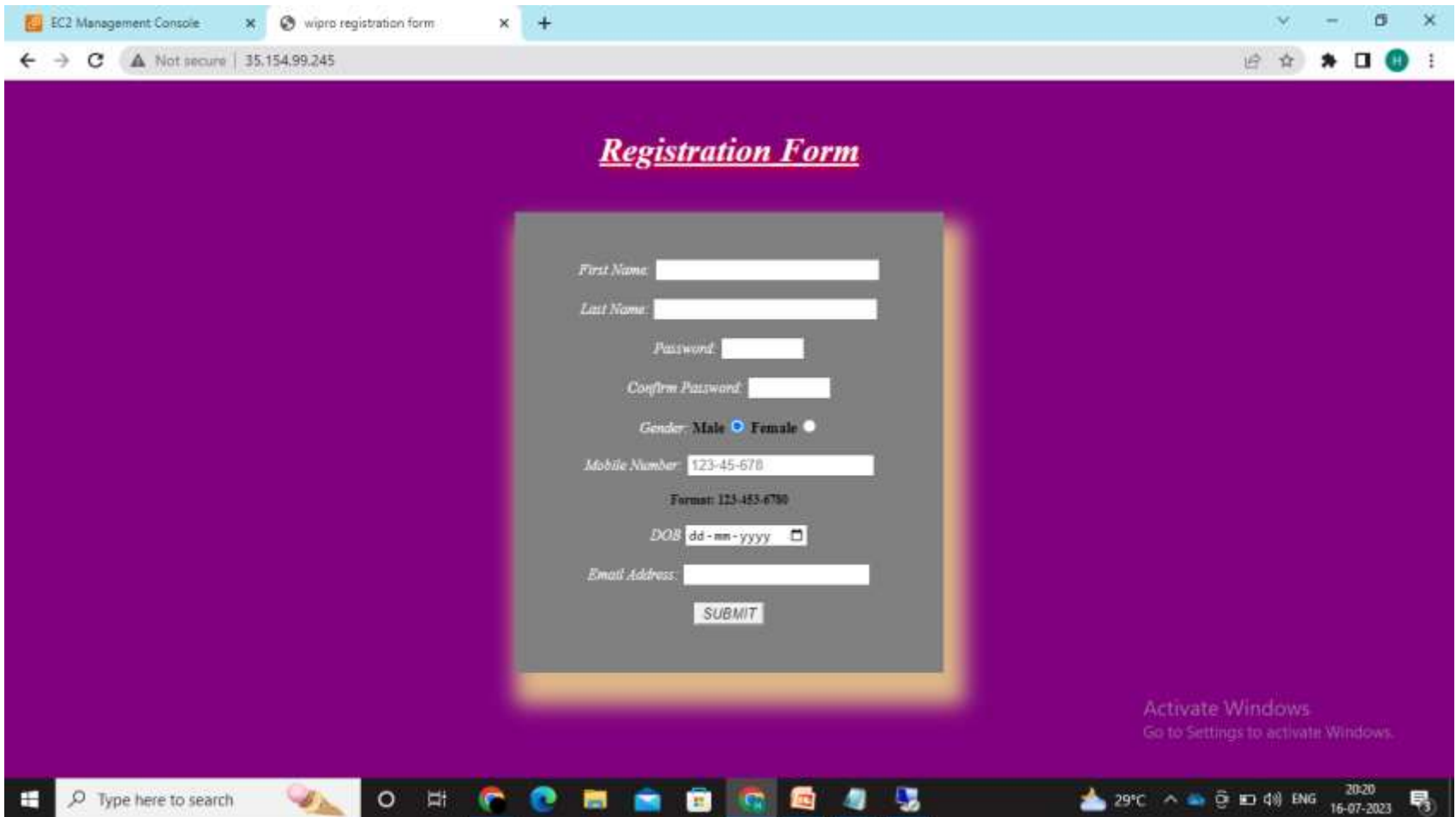
Now IIS server ->default web site->manage website->advance settings->physical path->remove the default path and paste the path that you have copied before



Click ok then your website is deployed on the IIS server ,then come back to Aws cloud instance page and copy the public IP address and click enter



Then we can see our personal website on our local computer as shown



The screenshot shows a web browser window with two tabs: "EC2 Management Console" and "wipro registration form". The address bar shows "Not secure" and the IP address "35.154.99.245". The main content area has a purple background with the title "Registration Form" in red, italicized text. Below the title is a gray registration form with the following fields and options:

- First Name:
- Last Name:
- Password:
- Confirm Password:
- Gender: ☐ Male ☒ Female ☐
- Mobile Number:
- Format: 123-455-6780
- DOB:
- Email Address:
-

At the bottom right of the purple area, there is a message: "Activate Windows Go to Settings to activate Windows." The Windows taskbar is visible at the bottom, showing the search bar, task view button, and several application icons. The system tray on the right shows the date and time as "20:20 16-07-2023".

Lastly terminate the instance.

The screenshot displays the AWS Management Console interface for the EC2 service. The top navigation bar shows the 'Instances (1/1)' section. A table lists the instance details:

Name	Instance ID	Instance state	Instance type
TalentNextWindows1	i-09775b8b4b0756a76	Running	t2.micro

The 'Actions' dropdown menu is open, showing options: Stop instance, Start instance, Reboot instance, Hibernate instance, and Terminate instance. The 'Terminate instance' option is highlighted.

Below the table, the details for the selected instance 'i-09775b8b4b0756a76 (TalentNextWindows1)' are shown:

- Instance ID: i-09775b8b4b0756a76 (TalentNextWindows1)
- Public IPv4 address: 35.154.99.245 | [open address](#)
- Private IPv4 addresses: 172.31.37.209
- Instance state: Running
- Private IP DNS name (IPv4 only): ip-172-31-37-209.ap-south-1.compute.internal
- Public IPv4 DNS: ec2-35-154-99-245.ap-south-1.compute.amazonaws.com | [open address](#)

The Windows logo is visible in the bottom right corner of the console.