

# **AWS LAB ASSIGNMENT**

**Task: 1 create Windows server and install ADDS create two users name - Vikas, Richa via username and password user vikas should be able to login.**

**Task: 2 Install IIS service and create index.html file take access on public browser**

**Task 3: Amazon Linux Server Setup**

# **Windows Server ADDS ,IIS and Amazon Linux Setup**

Detailed Tasks, Steps, Explanation &  
Theory

## Task 1: Create Windows Server, Install ADDS, and Create Users

- Create Windows Instance in AWS
- Generate Key Pair for secure SSH/RDP access.
- Launch the instance.



Search

[Alt+S]



Asia Pacific (Mumbai) ▾  
Arpit%20Rupauliha

Account ID: 2311-3921-6533 ▾



EC2 > Instances > i-050b7d7246c814665



EC2

Dashboard

AWS Global View ↗

Events

▼ Instances

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Capacity Reservations

Capacity Manager New

▼ Images

## Instance summary for i-050b7d7246c814665 (Windows-ADDS-Server) Info



Connect

Instance state ▾

Actions ▾

Updated less than a minute ago

### Instance ID

i-050b7d7246c814665

### IPv6 address

–

### Hostname type

IP name: ip-172-31-22-194.ap-south-1.compute.internal

### Answer private resource DNS name

IPv4 (A)

### Auto-assigned IP address

–

### Public IPv4 address

–

### Instance state

Stopped

### Private IP DNS name (IPv4 only)

ip-172-31-22-194.ap-south-1.compute.internal

### Instance type

c7i-flex.large

### VPC ID

vpc-00f9c36ed1d527696 ↗

### Private IPv4 addresses

172.31.22.194

### Public DNS

–

### Elastic IP addresses

–

### AWS Compute Optimizer finding

Opt-in to AWS Compute Optimizer for recommendations.

# Installing ADDS

- - Open Server Manager → Add Roles & Features
- - Select Active Directory Domain Services
- - Install ADDS

Internet Information Services (IIS) Manager

EC2AMAZ-HSD3Q22 > Sites >

File View Help

Connections

Server Manager

Start Page

EC2AMAZ-HS

Application

Sites

Default

index.h

Dashboard

Local Server

All Servers

AD DS

DNS

File and Storage Services >

IIS

Server Manager > Dashboard

Manage Tools View Help

WELCOME TO SERVER MANAGER

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

QUICK START

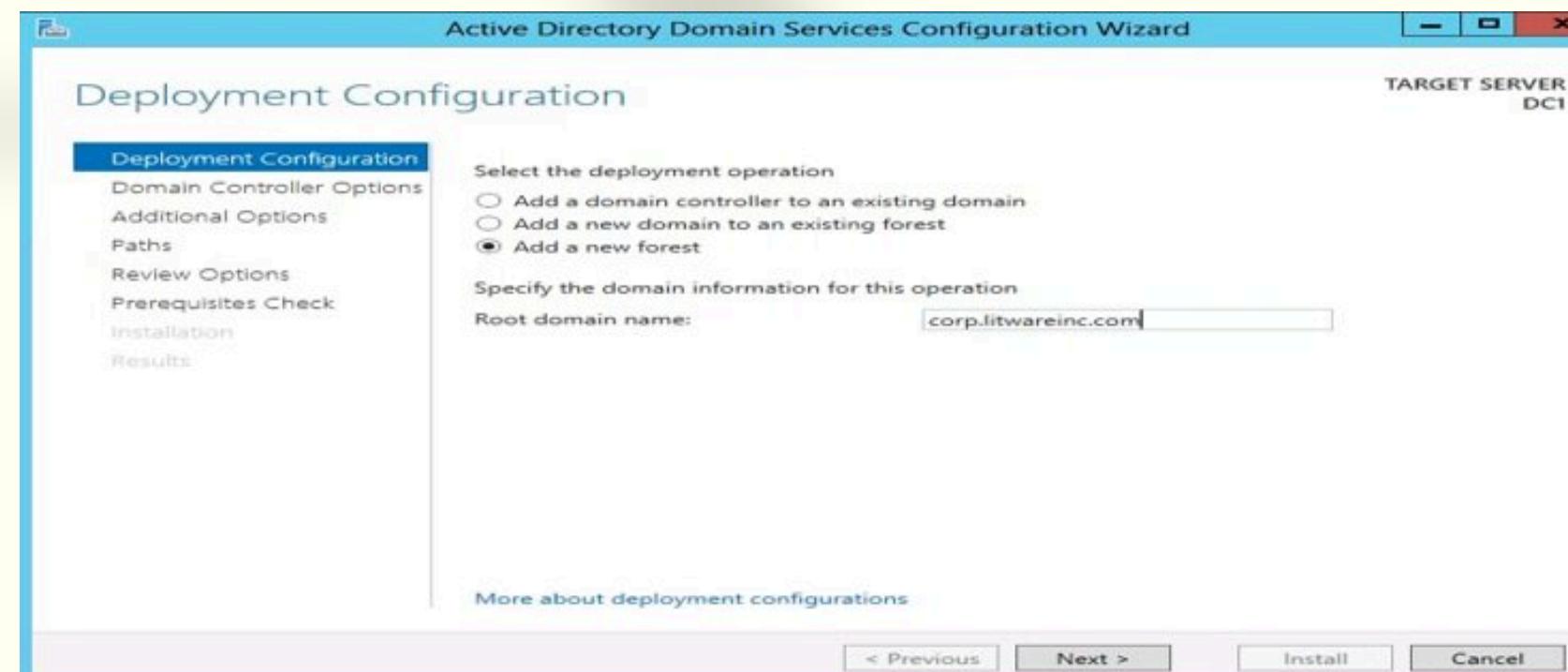
WHAT'S NEW

LEARN MORE

Hide

# Promote Server to Domain Controller

- After ADDS installation → Promote this server to a Domain Controller
  - Create a new forest
  - Set Directory Services Restore Mode (DSRM) password



Why DC? Domain Controllers store and validate credentials for the domain.

- - Open ADUC (Active Directory Users and Computers)
- - Create User: Vikas
- - Create User: Richa
- - Assign passwords to both users

Active Directory Users and Computers

File Action View Help

Recycle Bin

EC2 Feedback

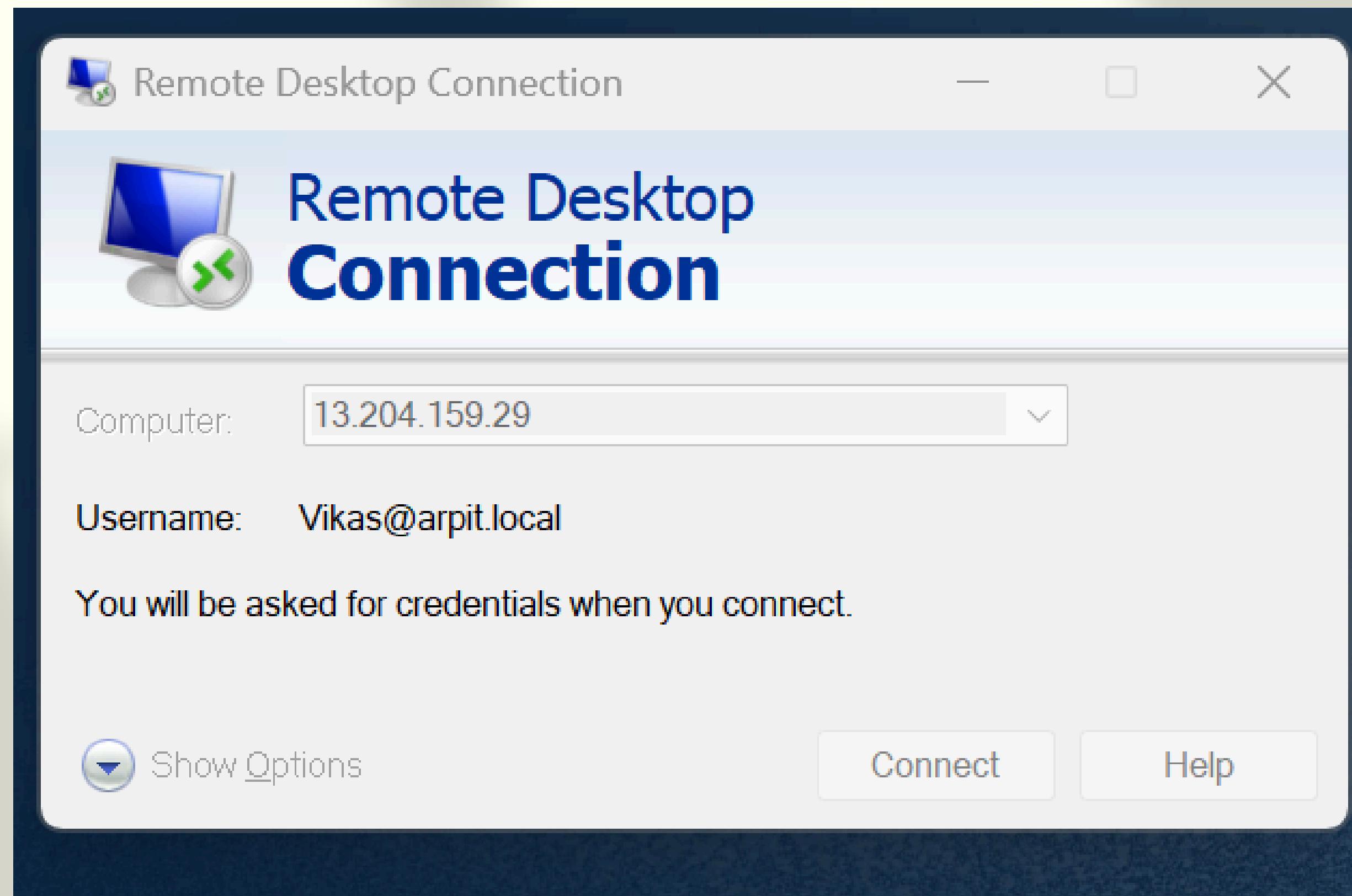
EC2 Microsoft Edge

Hostname  
Instance  
Private IP  
Public IP  
Instance  
Availability  
Architecture  
Total memory  
Network:

Name	Type	Description
Builtin	builtinDomain	
Computers	Container	Default container for up...
Domain Con...	Organizational ...	Default container for do...
ForeignSecur...	Container	Default container for sec...
Managed Se...	Container	Default container for ma...
richa	User	
Users	Container	Default container for up...
Vikas	User	

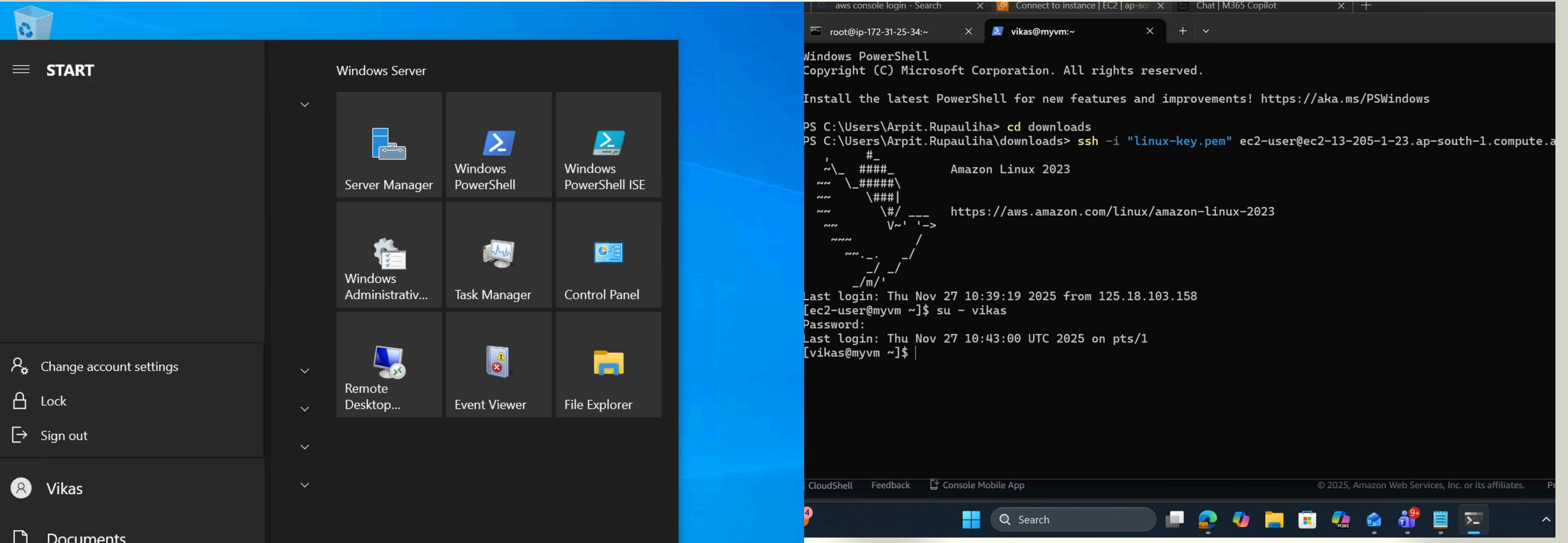
# Configure RDP Permissions

- - Go to: Computer Configuration → Windows Settings → SecuritySettings → Local Policies → User Rights Assignment
  - - Allow log on through Remote Desktop Services
  - Why? Allows non-admin domain users to login using RDP.
  - - Add: Vikas, Remote Desktop Users group
  - Why? RDP Users must be part of the Remote Desktop Usersgroup.



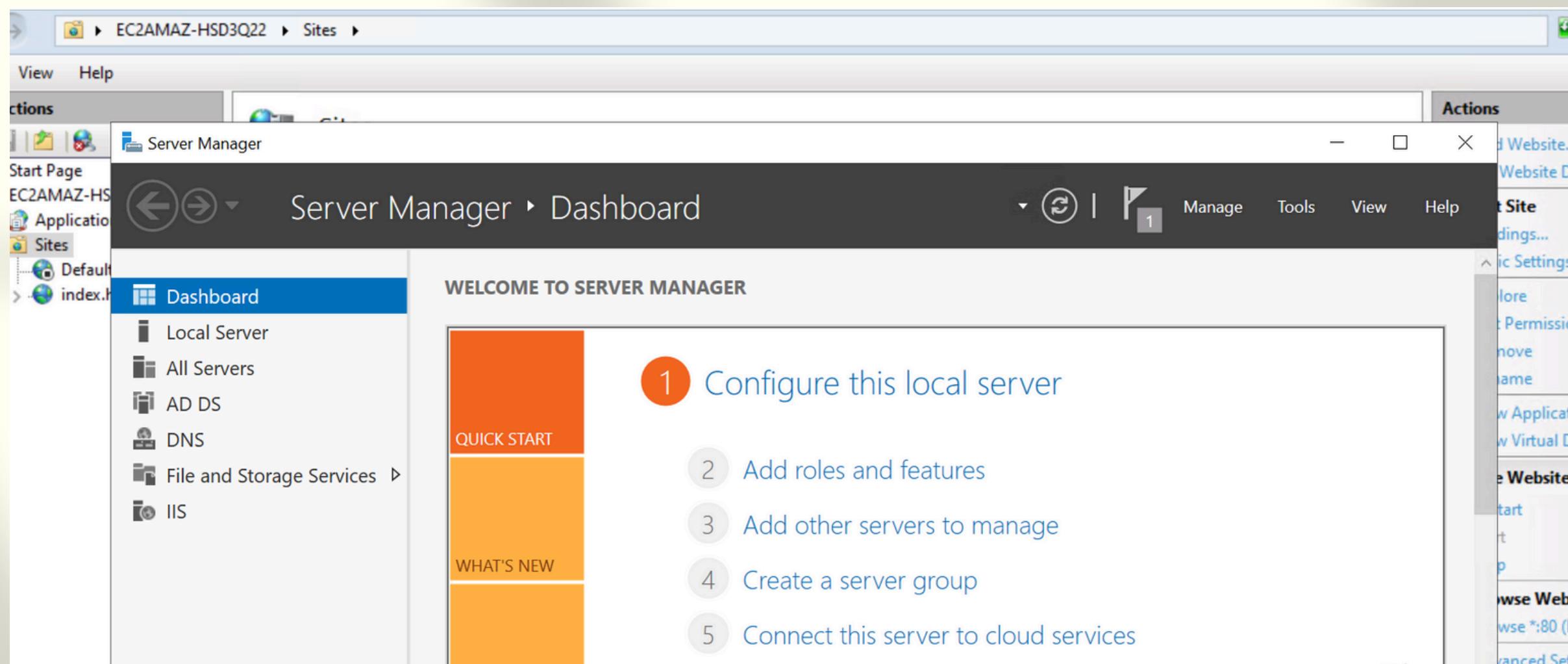
# Login as Vikas

- Logout from Administrator
- Login using Vikas credentials
- Open CMD → Username should show  
**'VIKAS'**



# Task 2: Install IIS & Create Website

## - Install IIS from Server Manager



IIS: Internet Information Services (Windows Web Server)

# Host Website on IIS

- Open IIS Manager

WHY? IIS is Microsoft's official web server built into Windows Server.

It is used to host websites, web applications, and APIs on Windows.

- Stop Default Web Site
- Create new site: Demosite

Internet Information Services (IIS) Manager

EC2AMAZ-HSD3Q22 > Sites

File View Help

**Connections**

- Start Page
- EC2AMAZ-HSD3Q22 (ARPITV)
  - Application Pools
  - Sites
    - Default Web Site
    - index.html

**Sites**

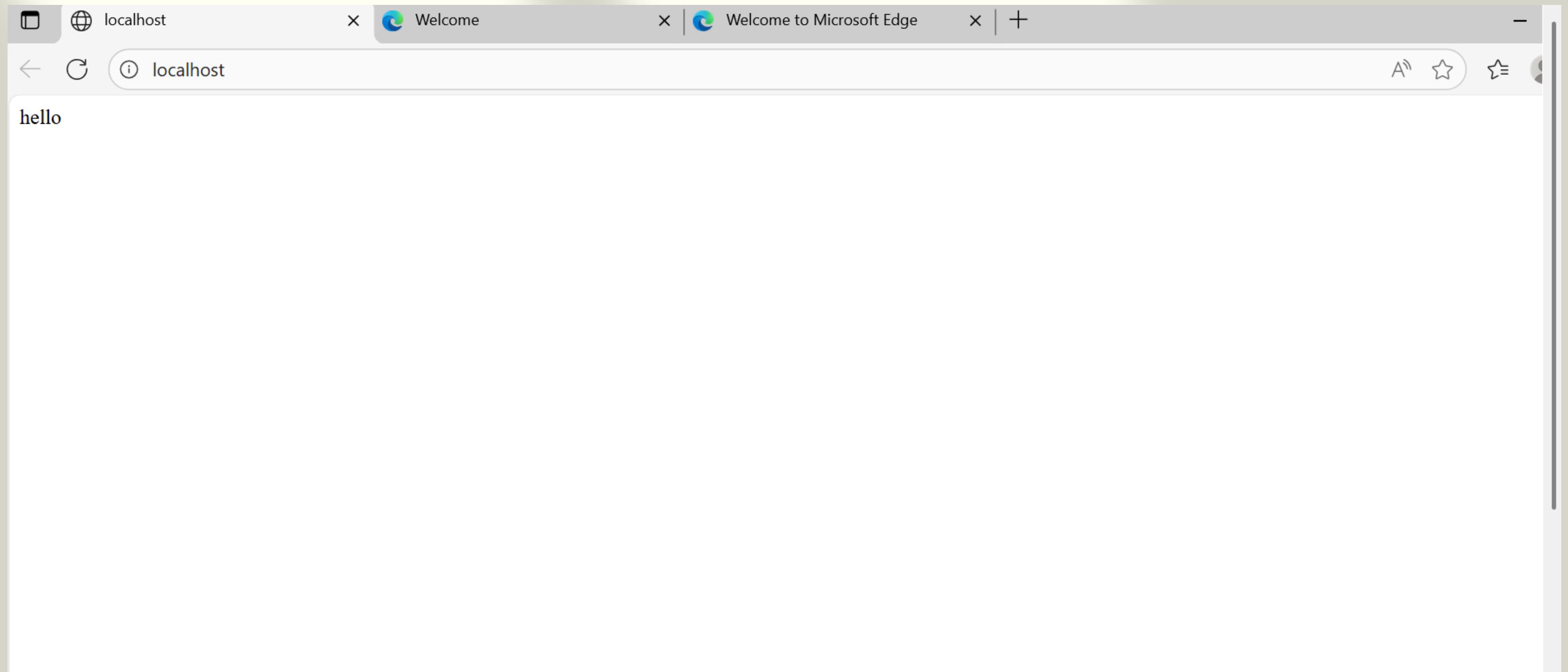
Name	ID	Status	Binding	Path
Default Web Site	1	Stopped (...)	*:80 (http)	%SystemDrive%\inetpub\wwwroot
index.html	2	Started (ht...)	*:80 (http)	C:\inetpub\wwwroot

**Actions**

- Add Website..
- Set Website D
- Edit Site**
- Bindings...
- Basic Settings
- Explore
- Edit Permissions
- Remove
- Rename
- View Application
- View Virtual D
- Manage Website**
- Restart
- Start
- Stop
- Browse Web**
- Browse \*:80 (h...)
- Advanced Set
- Configure**

# Host Website on IIS

- Add index.html in Default Document
  - Restart site
  - Copy public IP → `http://<ip>`



# Task 3: Amazon Linux Server Setup

- Launch Amazon Linux instance
  - Create Key Pair

The screenshot shows the AWS EC2 Instances page for an instance with ID i-0dde03c5fc4d29815. The instance is named linuxVM and is currently stopped. The summary table provides the following details:

Attribute	Value
Instance ID	i-0dde03c5fc4d29815
IPv6 address	-
Hostname type	IP name: ip-172-31-25-34.ap-south-1.compute.internal
Answer private resource DNS name	IPv4 (A)
Auto-assigned IP address	-
Public IPv4 address	-
Private IP4 addresses	172.31.25.34
Instance state	Stopped
Private IP DNS name (IPv4 only)	ip-172-31-25-34.ap-south-1.compute.internal
Instance type	t3.micro
VPC ID	vpc-00f9c36ed1d527696
Elastic IP addresses	-
AWS Compute Optimizer finding	Opt-in to AWS Compute Optimizer for recommendations.

# Task 3: Amazon Linux Server Setup

- Create users: Vikas, Richa
- Set passwords

```
apr-util-lmdb-1.6.3-1.amzn2023.0.2.x86_64
generic-logos-httpd-18.0.0-12.amzn2023.0.3.noarch
httpd-core-2.4.65-1.amzn2023.0.2.x86_64
httpd-tools-2.4.65-1.amzn2023.0.2.x86_64
mailcap-2.1.49-3.amzn2023.0.3.noarch
mod_lua-2.4.65-1.amzn2023.0.2.x86_64

apr-util-openssl-1.6.3-1.amzn2023.0.2.x86_64
httpd-2.4.65-1.amzn2023.0.2.x86_64
httpd-filesystem-2.4.65-1.amzn2023.0.2.noarch
libbrotli-1.0.9-4.amzn2023.0.2.x86_64
mod_http2-2.0.27-1.amzn2023.0.3.x86_64

Complete!
[root@myvm ~]# systemctl httpd start
Unknown command verb httpd.
[root@myvm ~]# systemctl start httpd
[root@myvm ~]# adduser vikas
[root@myvm ~]# passwd vikas
Changing password for user vikas.
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
passwd: all authentication tokens updated successfully.
[root@myvm ~]# adduser richa
[root@myvm ~]# passwd richa
Changing password for user richa.
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
passwd: all authentication tokens updated successfully.
[root@myvm ~]#
[root@myvm ~]# ls /home
ec2-user richa vikas
[root@myvm ~]#
```

# Install & Configure Apache (httpd)

- Install httpd: sudo yum install httpd

Why install httpd? Apache Web Server is required to host websites.

- Start service: sudo systemctl start httpd
  - Navigate to /var/www/html
  - Create index.html using vi editor

Nothing to do.  
Complete!  
(root@Task3 ~) # sudo yum install httpd -y  
Last metadata expiration check: 0:00:06 ago on Thu Nov 27 10:53:21 2025.  
Dependencies resolved.

Package	Arch	Version	Repository	Size
Installing:				
httpd	x86_64	2.4.65-1.amzn2023.0.2	amazonlinux	47 k
Installing dependencies:				
apr	x86_64	1.7.5-1.amzn2023.0.4	amazonlinux	129 k
apr-util	x86_64	1.6.3-1.amzn2023.0.2	amazonlinux	97 k
apr-util-lmdb	x86_64	1.6.3-1.amzn2023.0.2	amazonlinux	13 k
generic-logos-httpd	noarch	18.0.0-12.amzn2023.0.3	amazonlinux	19 k
httpd-core	x86_64	2.4.65-1.amzn2023.0.2	amazonlinux	1.4 M
httpd-filesystem	noarch	2.4.65-1.amzn2023.0.2	amazonlinux	13 k
httpd-tools	x86_64	2.4.65-1.amzn2023.0.2	amazonlinux	81 k
libbrotli	x86_64	1.0.9-4.amzn2023.0.2	amazonlinux	315 k
mailcap	noarch	2.1.49-3.amzn2023.0.3	amazonlinux	33 k
Installing weak dependencies:				
apr-util-openssl	x86_64	1.6.3-1.amzn2023.0.2	amazonlinux	15 k
mod_http2	x86_64	2.0.27-1.amzn2023.0.3	amazonlinux	166 k
mod_lua	x86_64	2.4.65-1.amzn2023.0.2	amazonlinux	60 k

# Host Website on Amazon Linux

- Insert HTML code into index.html  
[IMAGE PLACEHOLDER]
- Open browser → <http://<instance-ip>>

