

# Assignment 6

## **Title: Deployment of a Static Website Using Microsoft IIS Web Server on AWS EC2 Windows Instance**

**Aim:** To deploy a static website using the Microsoft Internet Information Services (IIS) web server on a Windows Server 2022 virtual machine hosted in AWS EC2.

### **Procedure:**

#### ***Step 1: Create an EC2 Instance***

- Log in to the AWS Management Console.
- Navigate to the *EC2 Dashboard* by searching for "EC2" in the search bar.
- Click on *Launch Instance* to create a new virtual machine.
- Configure the instance as follows:
  - *Name:* WindowsWebServer\_SR
  - *Amazon Machine Image (AMI):* Microsoft Windows Server 2022 Base
  - *Instance Type:* t2.micro (Free Tier eligible)
  - *Key Pair:* Create a new key pair named *WindowsServerSR.pem* and download it for future use.
  - *Security Group:* Ensure that RDP, HTTPS and HTTP are allowed in inbound rules.
- Click on *Launch Instance* and wait for the instance to initialize.

#### ***Step 2: Connect to the Windows Instance Using RDP***

- In the *EC2 Dashboard*, select the newly created instance (*WindowsWebServer\_SR*).
- Click on *Connect* and navigate to the *RDP Client* tab.
- Download the *Remote Desktop File*.
- Click on *Decrypt Password*, upload the *WindowsServerSR.pem* file, and retrieve the instance password.
- Open *Remmina* (or any RDP client), load the downloaded *RDP file*, and enter:
  - *Username:* Administrator
  - *Password:* decrypted from AWS
  - *Domain:* enter the provided domain
- Click *Connect* to open the Windows Server virtual machine.

#### ***Step 3: Install IIS Web Server***

- Open *Server Manager* on the Windows instance.
- Click on *Manage* → *Add Roles and Features*.
- In the *Add Roles and Features Wizard*:
  - Select *Role-based or feature-based installation*.
  - Choose the *local server* as the destination.
  - Under *Server Roles*, check *Web Server (IIS)*.
  - Proceed with the installation.
- After installation, verify that IIS is running by opening a web browser and navigating to <http://localhost/>. The IIS default page should be displayed.

## Step 4: Deploy the Static Website

- Open *File Explorer* and navigate to: *C:\inetpub\wwwroot\*
- Create a new *index.html* file and add the desired HTML code for the website.
- Save the file and close the editor.

## Step 5: Access the Website Externally

- Go back to the *AWS EC2 Dashboard* and select the instance.
- Copy the *Public DNS (IPv4)* of the instance.
- Open a web browser and paste the copied *Public DNS* in the address bar.
- Press *Enter* – the static website should load successfully.

## Screenshots:







