

## Domain 02 Demo 05

### Generating a Web Server Certificate

**Objective:** To demonstrate the process of generating and managing web server certificates using PKI, focusing on installing Internet Information Services (IIS) on Windows Server 2022 and configuring it to serve a secure web page

**Tools required:** Windows Server 2022 and Internet Information Services (IIS)

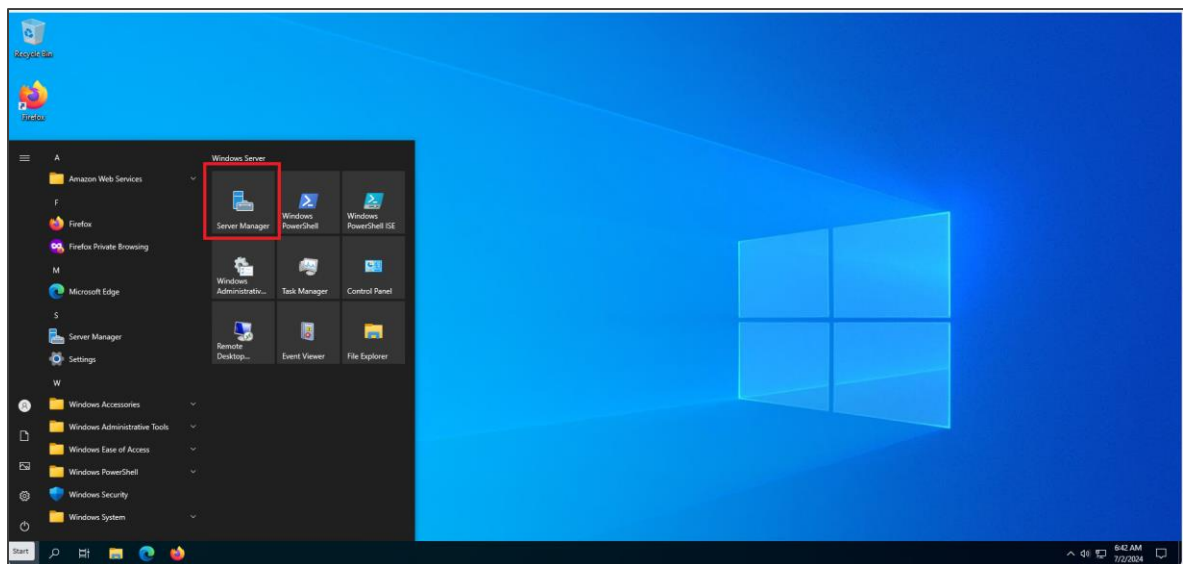
**Prerequisites:** Completion of the previous lab on Configuring and Managing PKI

Steps to be followed:

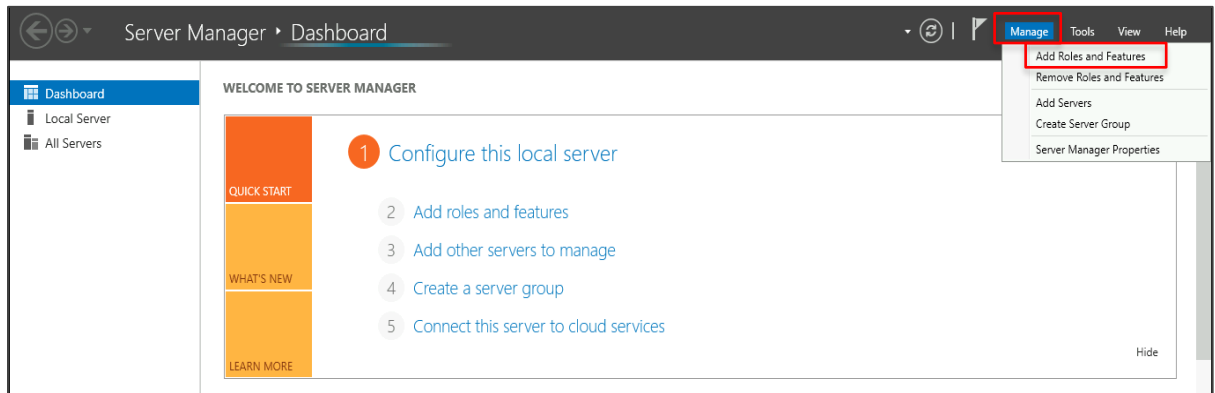
1. Install Internet Information Services (IIS)
2. Create a secure website

#### Step 1: Install Internet Information Services (IIS)

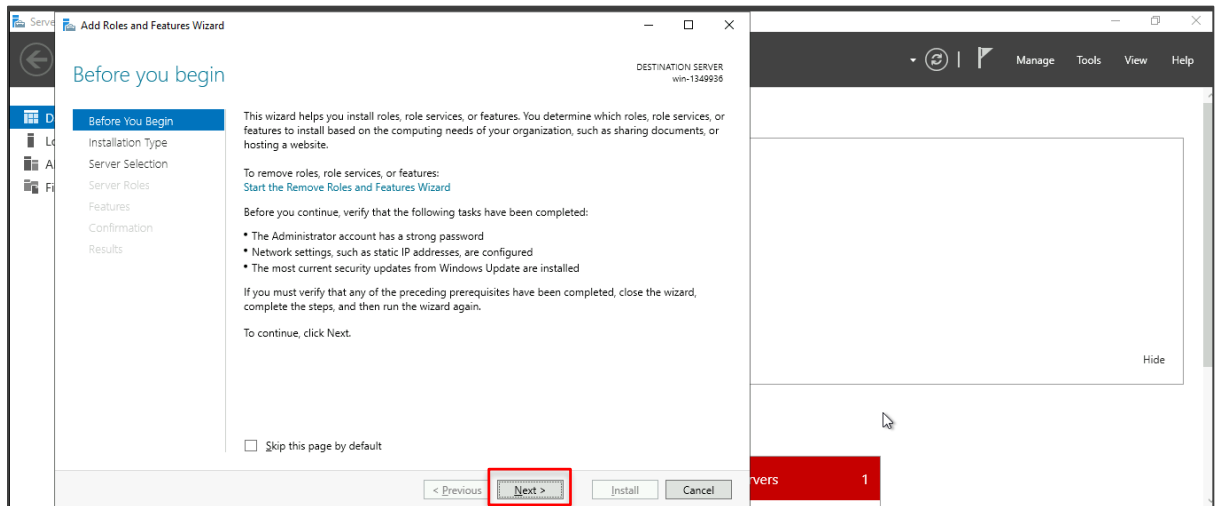
##### 1.1 Navigate to **Server Manager** on Windows Server 2022



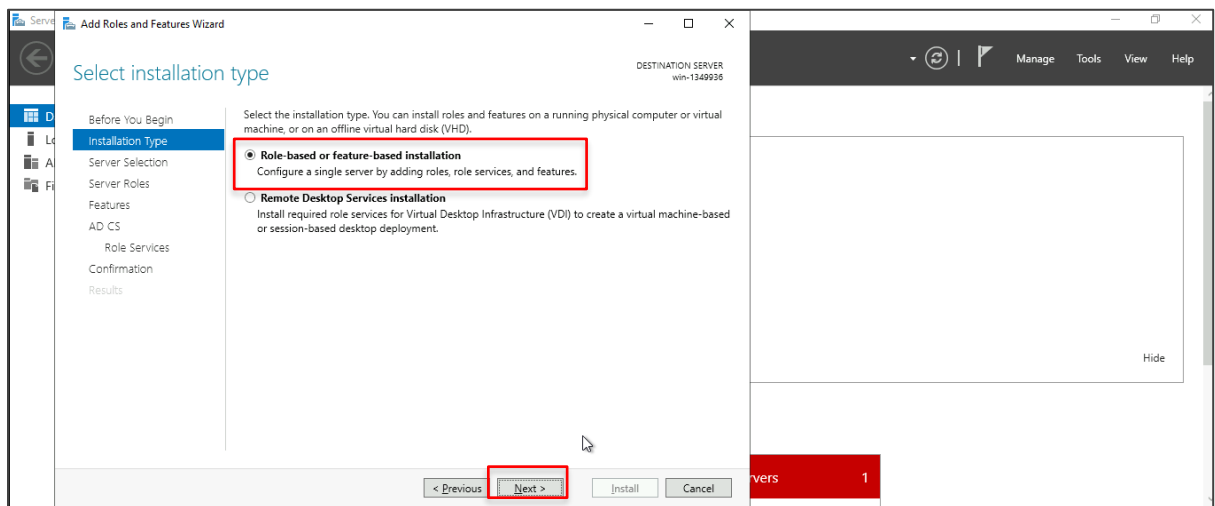
## 1.2 Click on **Manage** and select **Add Roles and Features**



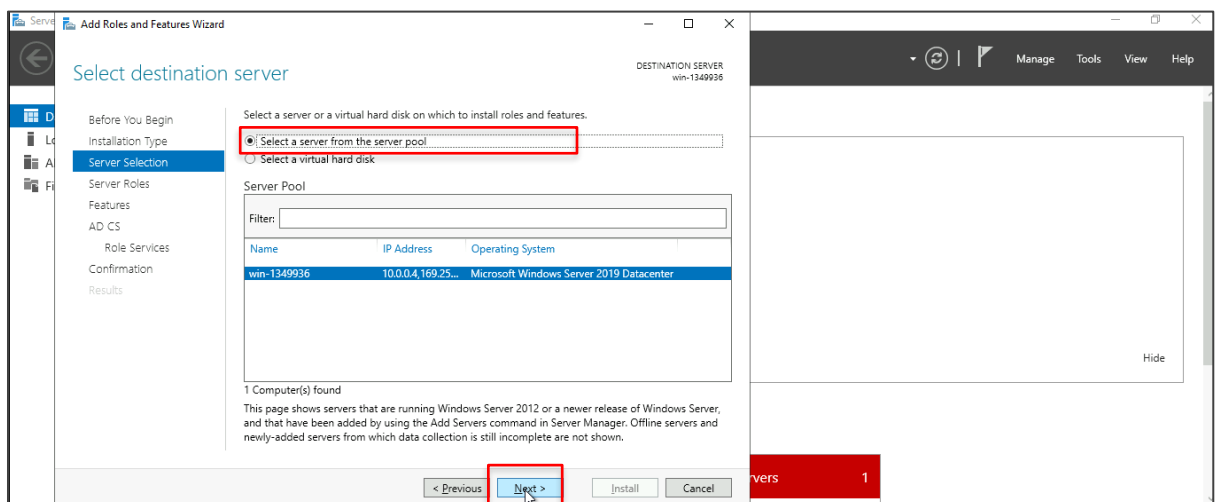
## 1.3 Click on **Next**



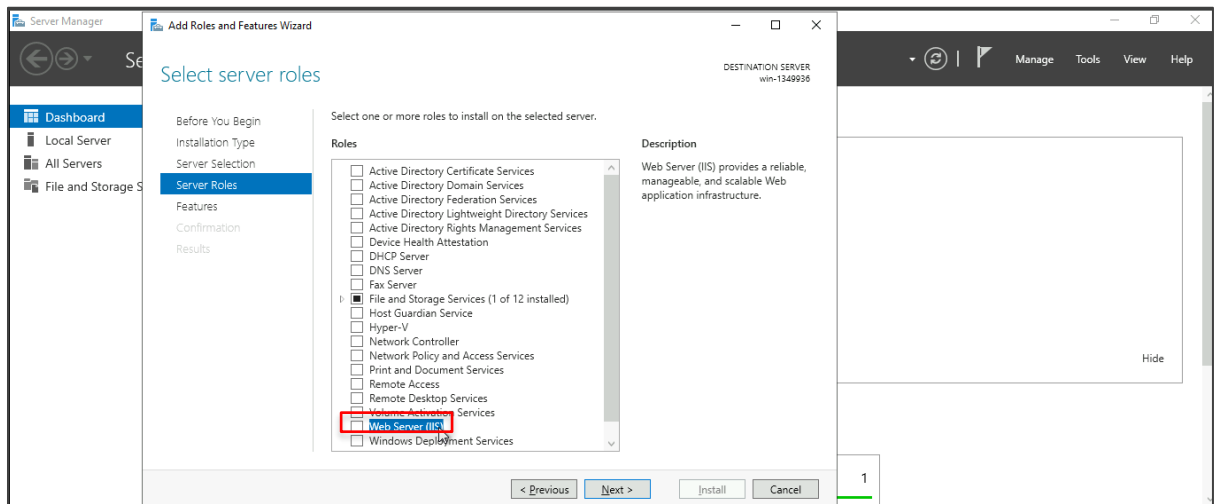
## 1.4 Select the **Role-based or feature-based installation** option and click **Next**



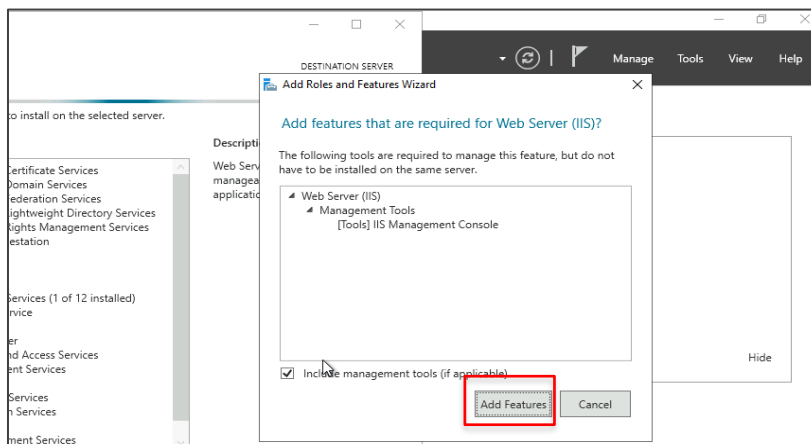
## 1.5 Choose the **Select a server from the server pool** option and click **Next**



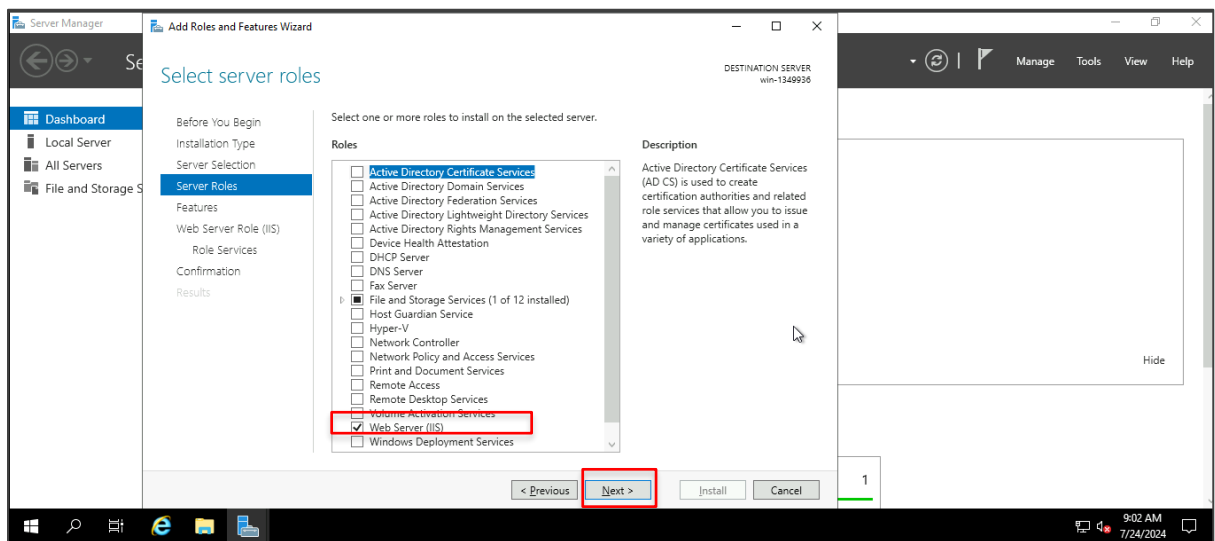
## 1.6 Select Web Server (IIS) option



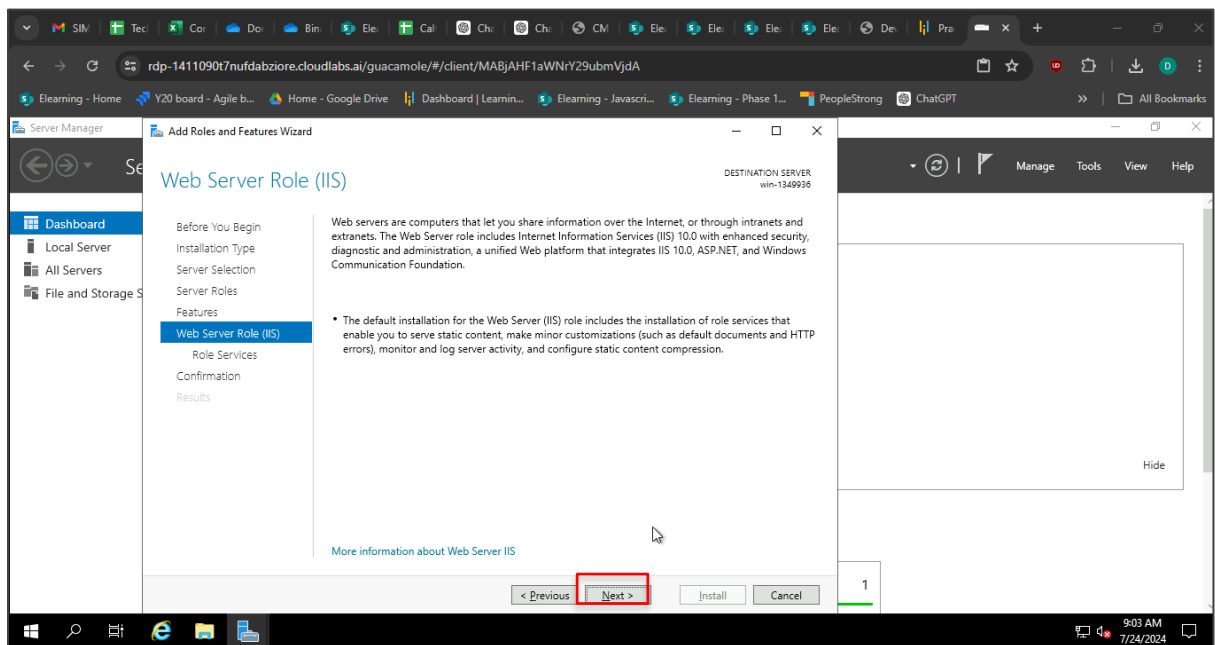
## 1.7 Click the Add Features button



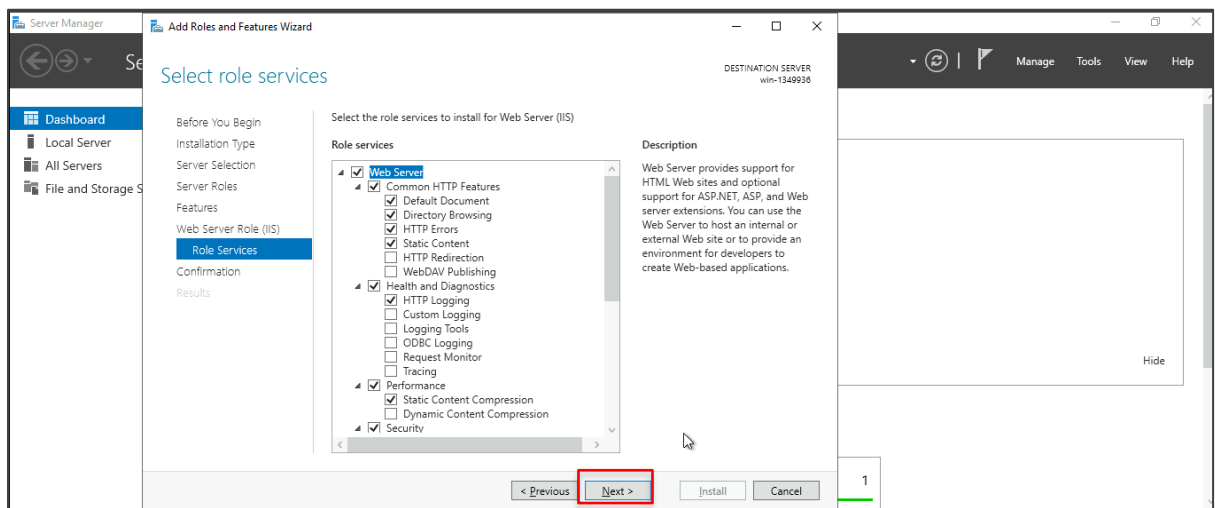
## 1.8 Verify that the **Web Server** option is selected and then click **Next**



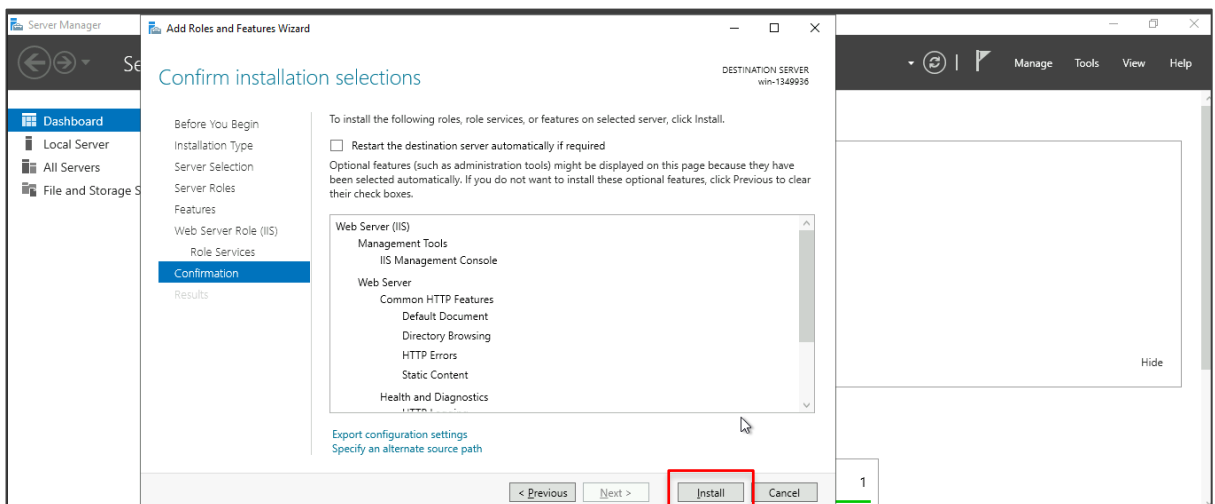
## 1.9 Read the note and click **Next**



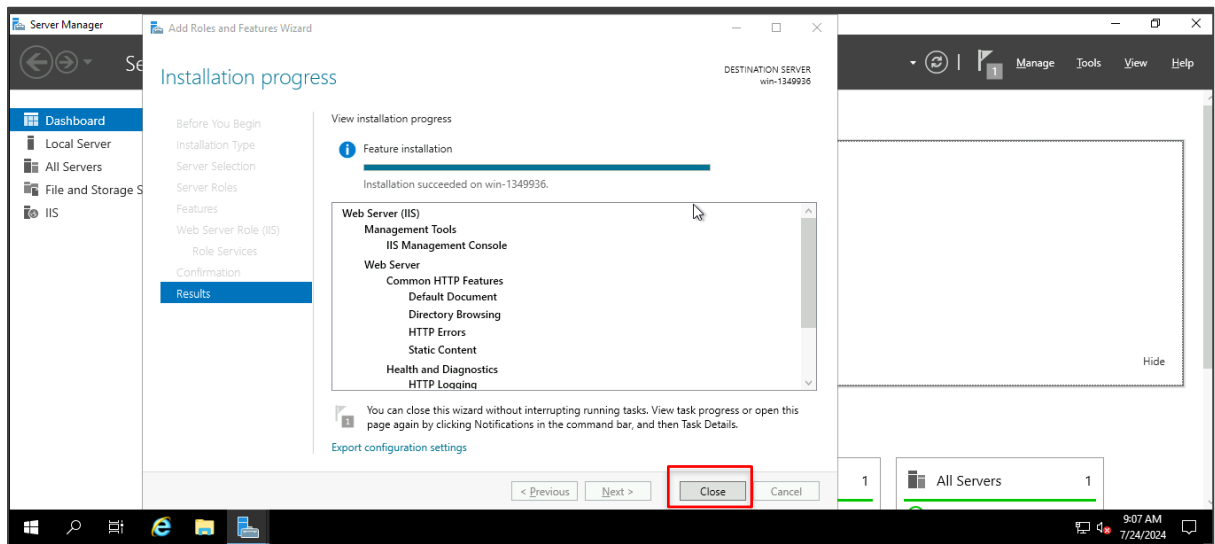
## 1.10 Keep the default configurations for **Role services** and click **Next**



## 1.11 Finally, click **Install**

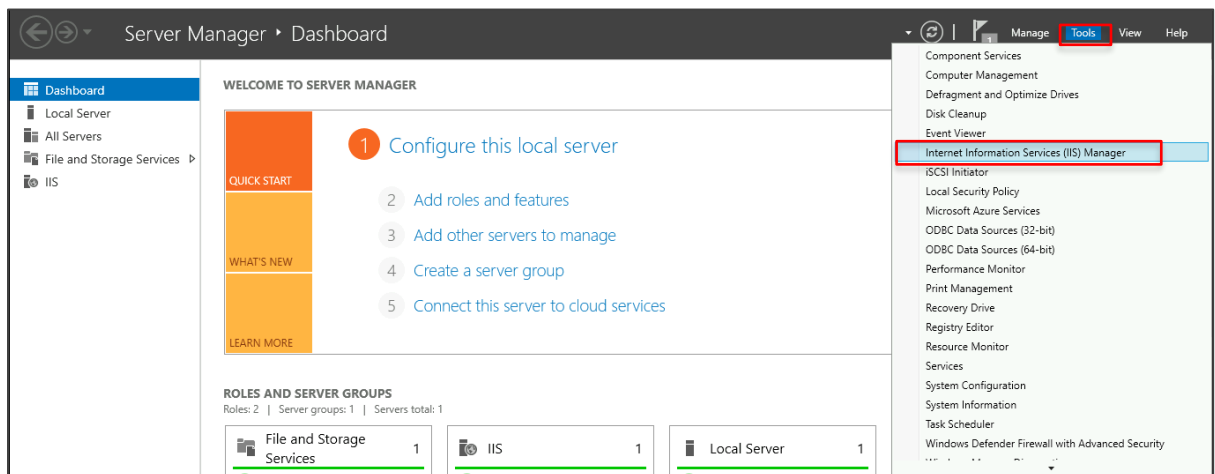


1.12 Once the feature installation is completed, click **Close**

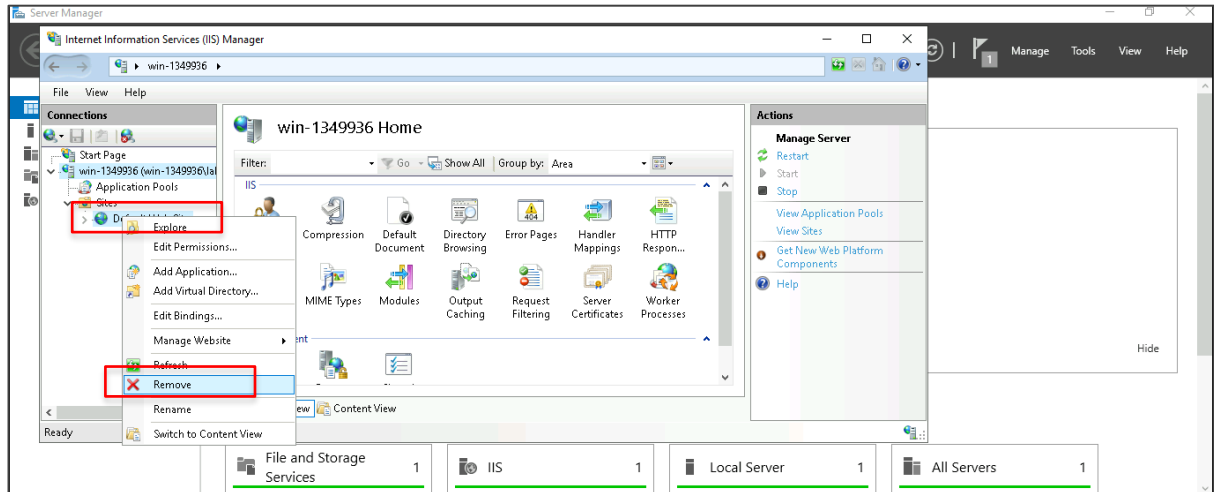


## Step 2: Create a secure website

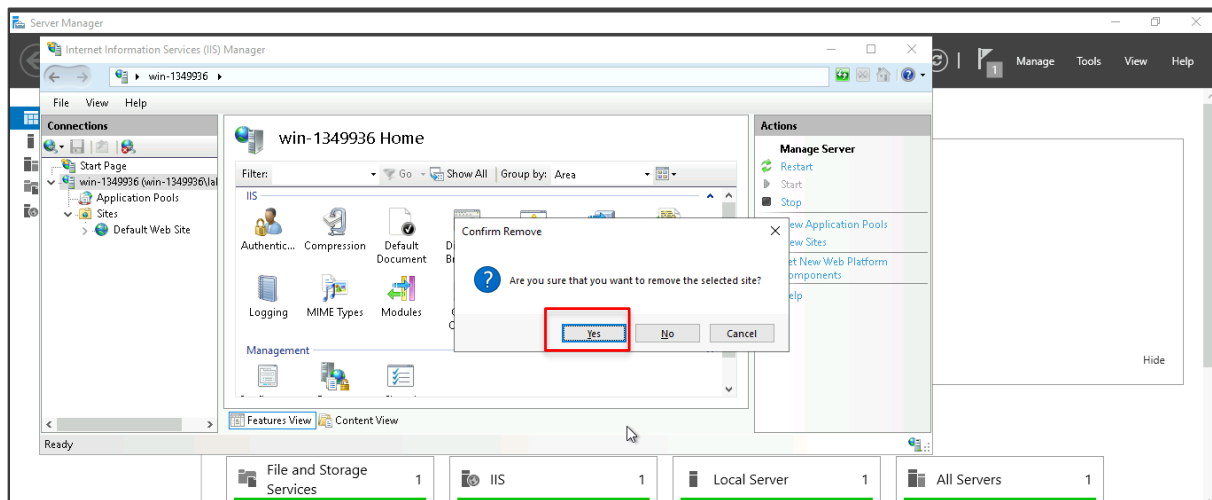
2.1 Navigate to the **Server Manager** dashboard, click on **Tools**, and select **Internet Information Services (IIS) Manager**



2.2 In the left navigation pane of the IIS console, navigate to the **Default Web Site** under the **Sites** folder, right-click on it, and select **Remove**

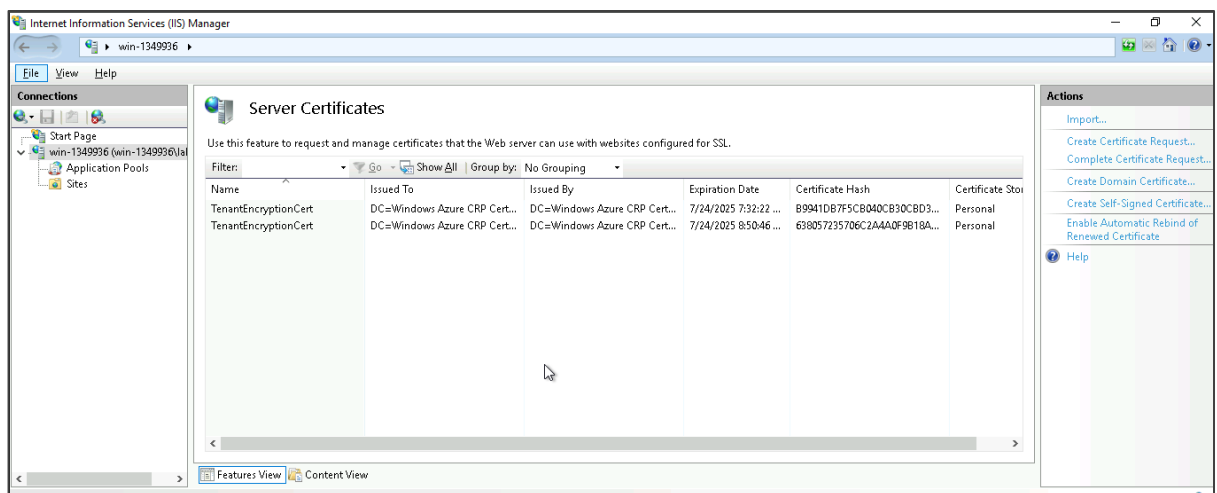
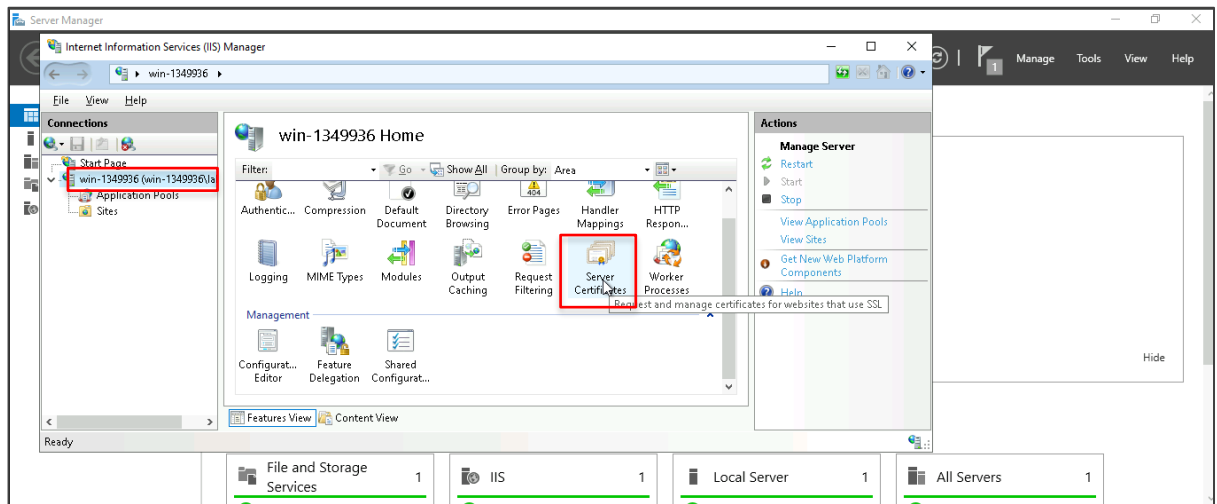


2.3 Confirm the deletion by clicking **Yes**



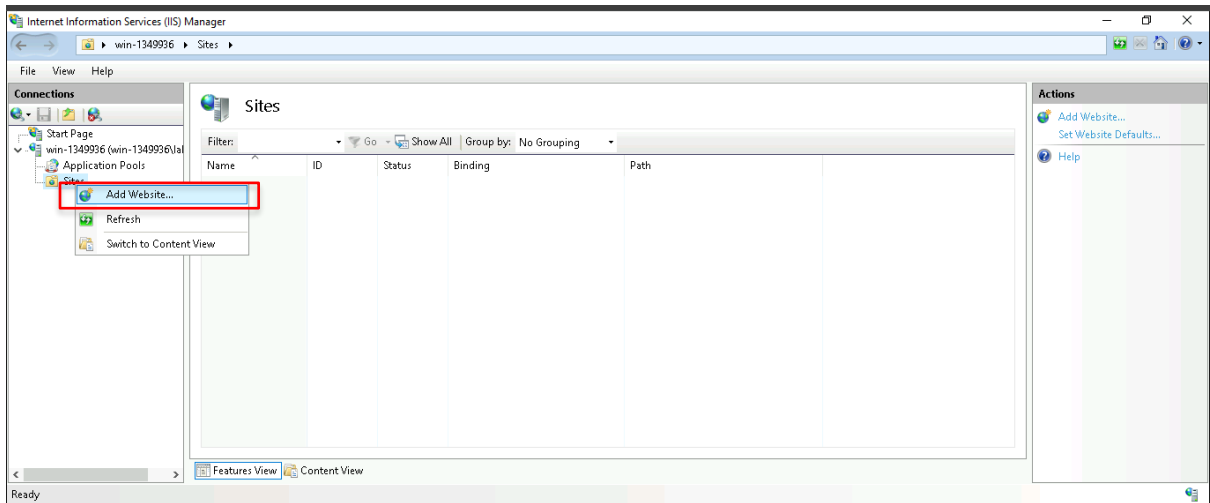


## 2.4 Select the current server and double-click on the **Server Certificates** option

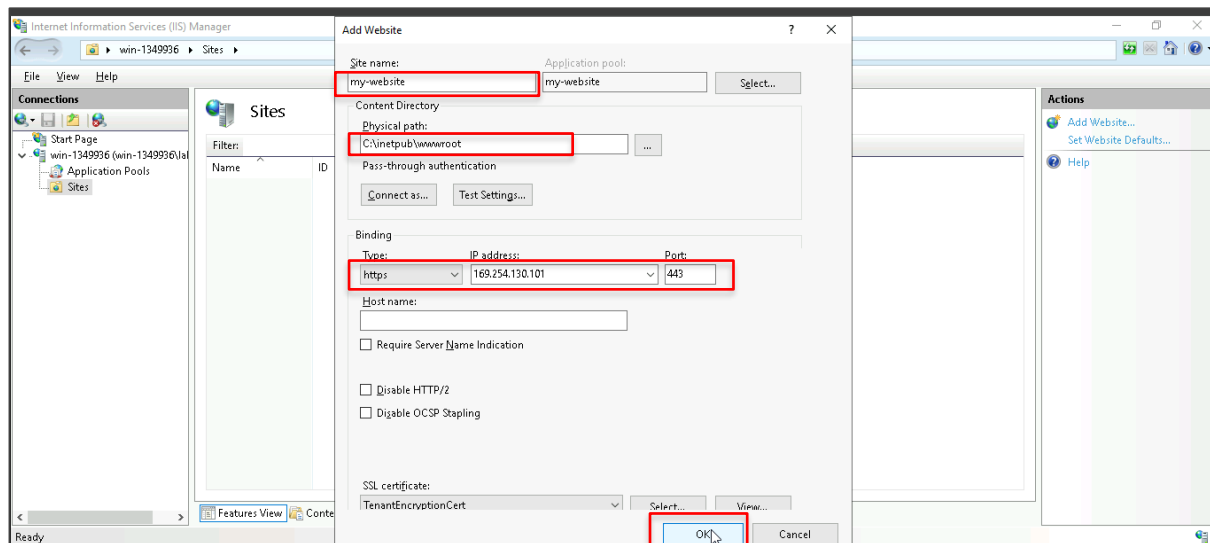


It shows the details of the issue created in the last lab.

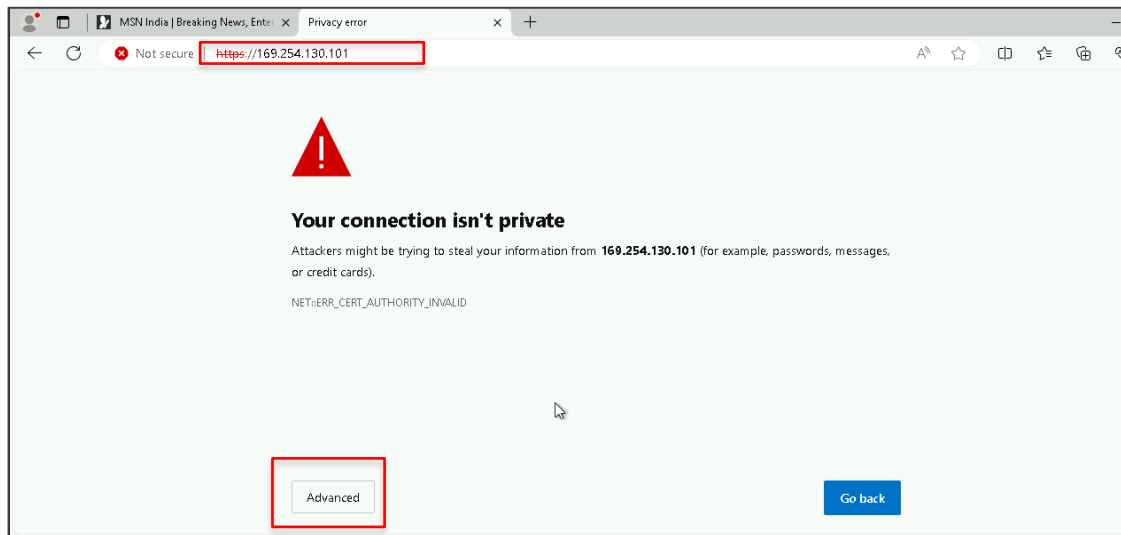
## 2.5 Right-click on the **Sites** folder in the left navigation panel and then click on **Add Website**



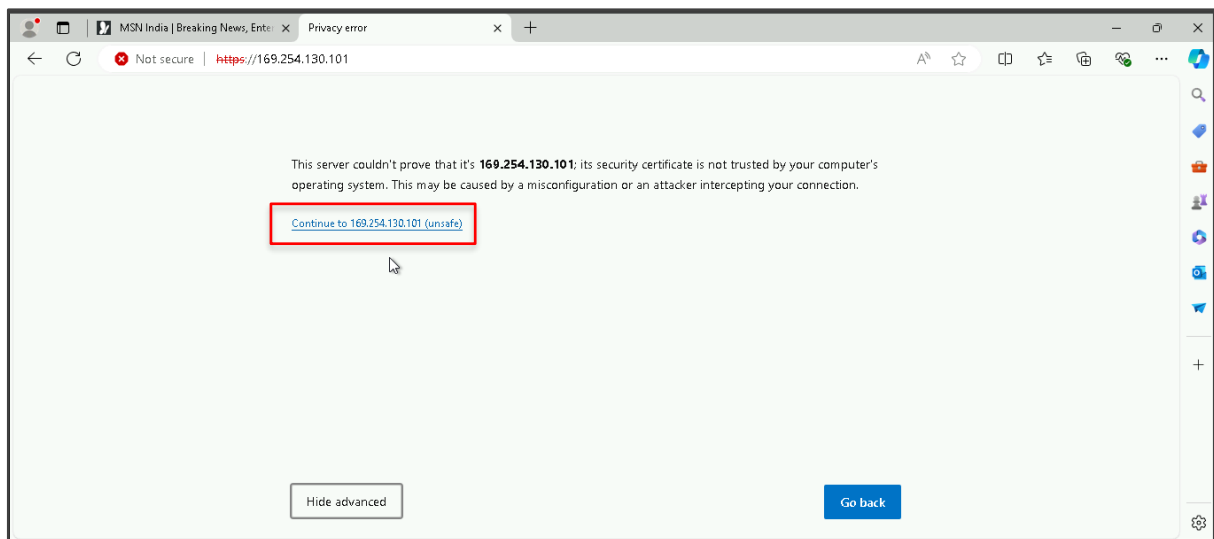
## 2.6 Fill in the required details to add a new website and click **OK**



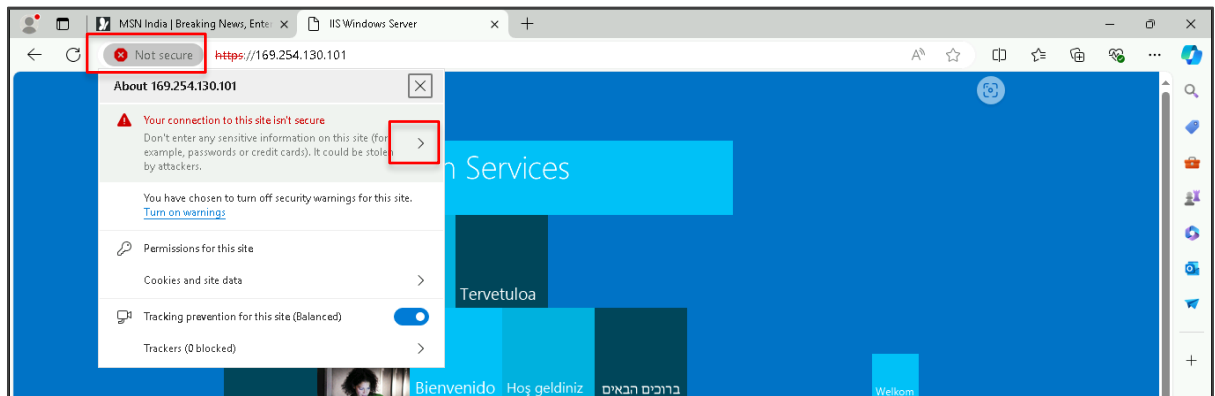
2.7 Open the Edge browser, enter the URL shown in the screenshot, and click on **Advanced**



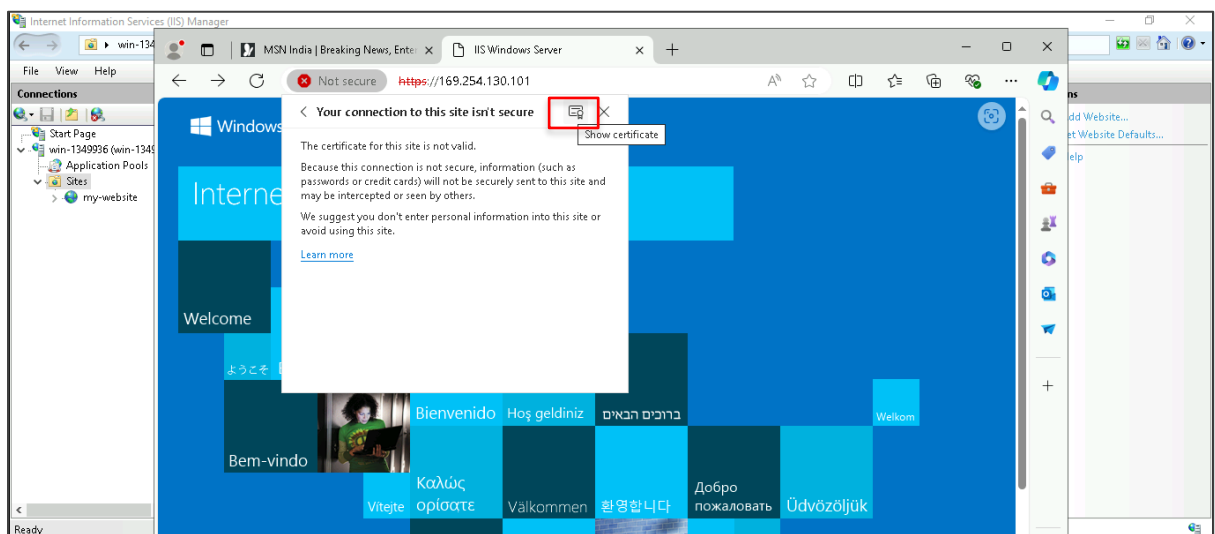
2.8 Click **Continue to 169.254.130.101**

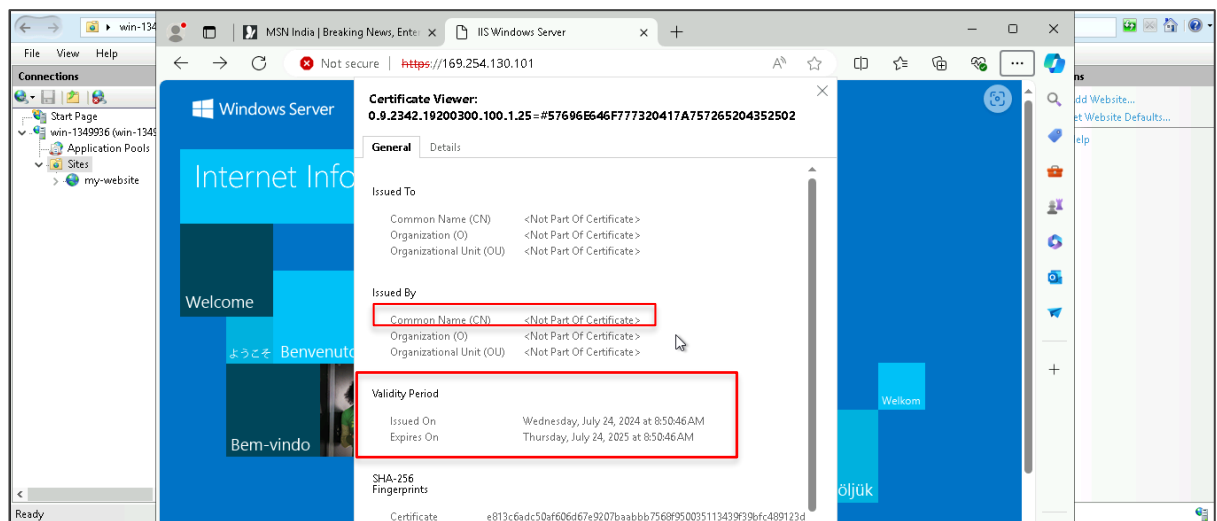


2.9 Click on **Not Secure** on the left side of the URL and then click on the arrow shown in the screenshot



2.10 Click on the **Show certificate** icon





Notice the common name and the validity period pulled from the Certificate server

Following these steps, you have successfully installed IIS, created a web page, and secured it with a web server certificate. This process ensures that your web server can provide encrypted communications, protecting the data transmitted between the servers and clients.