

Deployment of a static HTML site on IIS (Internet Information Services) in a Windows VM

To deploy a static HTML site on IIS (Internet Information Services) in a Windows VM, follow the steps below:

1. Access the Windows VM

- Connect to your Azure Virtual Machine (VM) using **Remote Desktop Protocol (RDP)**:
 - Open the Remote Desktop application on your local machine.
 - Enter the public IP address of your Azure VM.
 - Log in with your VM's username and password.

2. Install IIS on the VM (if not already installed)

- Once connected to the VM, install IIS by following these steps:
 1. Open the **Server Manager**.
 2. Click on **Manage > Add Roles and Features**.
 3. In the wizard, choose **Role-based or feature-based installation**.
 4. Select your server (the VM) and click **Next**.
 5. In the **Server Roles** section, check the box for **Web Server (IIS)** and click **Next**.
 6. Click through the rest of the options, leaving defaults, and click **Install**.

After installation, IIS will be running on the VM.

3. Verify IIS Installation

- To confirm that IIS is running:
 1. Open a web browser in the VM and navigate to `http://localhost`.
 2. You should see the **IIS default page** ("IIS Welcome Page"), which indicates that the installation was successful.

4. Prepare the Static HTML Files

- On your local machine, create a folder with your static HTML files (e.g., `index.html`).

Example:

```
<!DOCTYPE html>
<html lang="en">
<head>
```

```
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Welcome to My Website</title>
<style>
  body {
    font-family: Arial, sans-serif;
    margin: 0;
    padding: 0;
    background-color: #f4f4f4;
    text-align: center;
  }
  header {
    background-color: #4CAF50;
    color: white;
    padding: 20px;
    text-align: center;
  }
  section {
    margin: 20px;
  }
  footer {
    background-color: #333;
    color: white;
    padding: 10px;
    position: fixed;
    bottom: 0;
    width: 100%;
  }
</style>
</head>
<body>

<header>
  <h1>Welcome to My Static Website!</h1>
</header>

<section>
  <h2>Hello, World!</h2>
  <p>This is a simple static HTML page hosted on an Azure VM.</p>
</section>

<footer>
  <p>© 2024 Your Name. All rights reserved.</p>
</footer>
```

</body>

</html>

- If your website includes images, CSS, or JavaScript files, make sure to structure the files in appropriate folders.

5. Upload the Static HTML Site to the VM

You can transfer the HTML files from your local machine to the VM using any of the following methods:

- **RDP File Transfer:**
 1. While connecting via RDP, go to **Local Resources > More** and select the drives or folders you want to share with the VM.
 2. Once connected to the VM, copy the HTML files from the shared folder to the VM.
- **Using FTP or File Transfer Applications:**
 - You can set up an FTP server on the VM or use tools like FileZilla or WinSCP to transfer files.

6. Deploy the Static HTML Site on IIS

- After transferring the HTML files to the VM:
 1. Open **IIS Manager** on the VM (search for "IIS" in the Start menu).
 2. In the **Connections** pane on the left, expand the node for your server and then expand **Sites**.
 3. You should see the **Default Web Site**. Right-click it and choose **Explore** to open the website root directory (C:\inetpub\wwwroot by default).
 4. Copy your static HTML files (e.g., index.html) into this directory.

7. Test the Deployed Site

- In your web browser, visit the public IP address of your Azure VM:

Copy code <http://<your-vm-public-ip>>

Example: <http://123.45.67.89>

- You should see your static HTML site.

8. Optional: Configure IIS Site Settings (Custom Domain, SSL)

- If you have a custom domain or want to configure SSL:
 - **Custom Domain:** Bind your domain to the IIS site using the **Site Bindings** option in IIS.

- **SSL:** Install an SSL certificate and bind it to your site for HTTPS access.

Summary of Key Steps:

1. Connect to the VM via RDP.
2. Install IIS (if not already installed).
3. Verify IIS installation.
4. Transfer your HTML files to the VM.
5. Copy the files to the IIS root directory (C:\inetpub\wwwroot).
6. Access the site via the public IP address of the VM.