**Karmani Deployment Steps**

**Step-1 -> Download and Configure WinSCP**

**1.** Download and install WinSCP from the official website.

**2.** Launch WinSCP and select the protocol (SFTP, FTP, or SCP).

**3.** Enter the hostname or IP address of the remote server, along with username and password.

**4.** specify the port number and choose between SSH-2 and SSH-1 protocols.

**5.** Once the credentials have been entered, click on the "Login" button to connect to the remote server.

**6.** Once connected, the remote directory tree will appear on the right-hand side of the window, and local directory tree on the left-hand side.

**7.** we can navigate through the remote directory tree by double-clicking on folders, and files can be transfer by dragging and dropping them between the remote and local directories.

**8.** After finishing, transferring files, click on the "Disconnect" button to close the connection to the remote server.

**Step-2 -> Build or Publish the Required Projects**

**1. Publish the backed API project to some local folder and zip the folder.**

**a. Click on the "Build" menu**: Click on the **"Build"** menu in the menu bar at the top of the Visual Studio window.

**b. Select "Publish”:** In the "Build" menu, select **"Publish EDCS\_KARMANI\_API"**. This will open the Publish dialog.

**c. Select a publish target**: In the Publish dialog, select a publish target. In this case a local folder is chosen to publish the project.

**d. Configure publishing settings**: Depending on the publish target we choose, we need to configure various publishing settings, such as connection settings, database settings, and other deployment options.

**e. Preview and publish the project**: After configuring the publishing settings, preview the changes and verify that everything properly configured. Click the **"Publish"** button to publish the project to the selected folder.

**f.** Zip the published folder.

**2. Build the front end react project and zip the build folder**

**a.** Open the react project in vs code.

**b.** Open new terminal.

**c.** Run the command **“npm run build”** to build the project.

**d.** Zip the build folder.

**Step-3 -> Copy the zipped folder to remote directory**

**1.** Once connected to remote server through **WinSCP**, you will see the remote directory tree on the right-hand side of the window, and your local directory tree on the left-hand side.

**2.** Now Change the Disk drive on **WinSCP** to the drive in which the zipped folder is located and navigate to that zipped folder through the local directory on left hand side and now drag and drop the zipped folders to the remote directory in the required path of your preference and unzipped the folder.

**Step-4 -> Deploy the project**

1. **Open IIS Manager:** Open the Internet Information Services (IIS) Manager by searching for it in the Start menu or by running "inetmgr" in the Run dialog in remote server.
2. **Create a new website or application**: In IIS Manager, right-click on "Sites" and select "Add Website" or "Add Application". Fill in the required information, such as the site name, physical path, and binding information.
3. **Configure the website or application:** After creating the website or application, you need to configure it by setting various options, such as authentication, authorization, and other settings. You can do this by right-clicking on the website or application and selecting "Edit Permissions" or "Edit Features".
4. **Copy the project files to the website or application folder**: To deploy the project, copy the unzipped project files to the website or application folder that is created in step 3.
5. **Start The Server:** After copying the project files to the website folder, Open the IISC Manager and locate Manage Websites on the right-hand side and start the server.
6. **Test the website or application:** After starting the server, test the website or application by browsing to its URL in a web browser. Make sure that everything is working as expected, and that there are no errors or issues.