Using Visual Studio Code with SSH to Connect to a Remote Server

Prerequisites

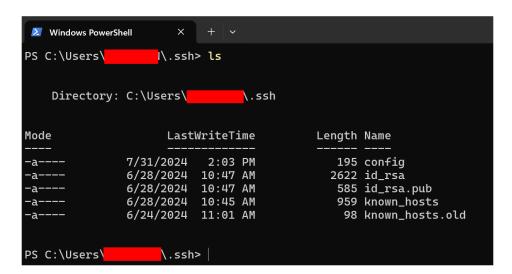
- 1. Visual Studio Code: Installed on your local machine.
- 2. Remote SSH Extension: Installed in Visual Studio Code.
- 3. SSH Access: Ensure you have SSH access to the remote server.

Step 1: Set Up SSH Configuration

On Windows

- 1. Open Command Prompt or PowerShell:
 - Press Win + R, type cmd or powershell, and press Enter.
- 2. Navigate to the .ssh Directory:
 - In the terminal, type the following command: cd %userprofile%\.ssh
 - If the .ssh directory does not exist, create it:

```
mkdir %userprofile%\.ssh
cd %userprofile%\.ssh
```



- 3. Create or Edit the config File:
 - To create or open the config file using Notepad, type:
 notepad config
 - If prompted to create a new file, confirm the creation.



Tip:

- By default the file will be stored as config.txt
- o rename it to "config"
- 4. Add SSH Configuration:
 - Add your SSH configuration details to the file. For example:



- · Save the file.
- 5. Verify the Config File:
 - Ensure the file is saved as config without any extension by listing the contents of the .ssh directory:

dir

On Linux or macOS

- 1. Open Terminal.
- 2. Navigate to the .ssh Directory:
 - In the terminal, type the following command: cd ~/.ssh
 - If the .ssh directory does not exist, create it:

```
mkdir ~/.ssh
cd ~/.ssh
```

- 3. Create or Edit the config File:
 - To create or open the config file using nano:

```
nano config
```

- 4. Add SSH Configuration:
 - Add your SSH configuration details to the file. For example:



• Save the file by pressing Ctrl+O, then Enter, and exit with Ctrl+X.

Step 2: Connect to the Remote Server Using Visual Studio Code

- 1. Open Visual Studio Code on your local machine.
- 2. Install Remote SSH Extension:
 - Go to the Extensions view by clicking the Extensions icon in the Activity Bar or pressing Ctrl+Shift+X.
 - Search for Remote SSH and click Install.
- 3. Open the Command Palette:
 - Press Ctrl+Shift+P to open the Command Palette.
 - \bullet Type Remote-SSH: Connect to Host and select it.

4. Select Your SSH Host:

- A list of configured SSH hosts will appear. Select the host you added to your config file (e.g.,
- A new VS Code window will open, connecting you to the remote server.
- 5. Open Folder on Remote Host:
 - In the new VS Code window, navigate to the desired directory on the remote server.
 - Click on the Explorer icon in the Activity Bar, then select Open Folder and navigate to / scripts or your target directory.

Troubleshooting

- Command Not Found Error: Ensure that the code command is available in your PATH. You can add it by opening the Command Palette in VS Code (Ctrl+Shift+P), typing Shell Command: Install 'code' command in PATH, and selecting it.
- SSH Connection Issues: Verify your SSH configuration and ensure that you can connect to the remote server using a standalone SSH client like ssh