VS Code integration with AWS

Step-by-Step Procedure

Step 1: Launch the EC2 Instance

Go to AWS Console → EC2 → Instances.

Start the instance and copy the Public IPv4 address.

Make sure port 22 (SSH) is open in the security group (for your IP).

Step 2: Install Remote - SSH Extension in VS Code

Open VS Code.

Go to Extensions (or press Ctrl+Shift+X).

Search for "Remote - SSH".

Click Install.

This extension enables VS Code to connect to remote servers using SSH.

Step 3: Prepare the PEM Key and Set Permissions

Move the .pem file to a secure location on your system (e.g., ~/.ssh/).

Set Permissions (Linux/macOS/WSL):

chmod 400 ~/.ssh/your-key.pem

This command ensures only the owner can read the file, which is essential for SSH to accept the key.

Step 4: Add SSH Configuration

Instead of manually typing the SSH command every time, you can create or edit the SSH config file.

Open SSH Config File:

In VS Code:

Open Command Palette (Ctrl+Shift+P)

Type: Remote-SSH: Open SSH Configuration File

Choose the one in ~/.ssh/config

 Add the following block:

Host my-ec2

   HostName <your-ec2-public-ip>

   User ec2-user

   IdentityFile ~/.ssh/your-key.pem

Host: a nickname (you can choose anything)

 HostName: your EC2 public IP

User: ec2-user for Amazon Linux or ubuntu for Ubuntu

 IdentityFile: path to your PEM key

Step 5: Connect to EC2 via Remote - SSH

Open Command Palette (Ctrl+Shift+P)

Select: Remote-SSH: Connect to Host

Choose: my-ec2 (the nickname from config)

VS Code will open a new remote window connected to the EC2 instance.

Youtube Link : https://youtu.be/KQr0eI97cLQ?si=iWpbRr8DyYBFvsdh