

2nd DevOps Assignment: Create and Connect to an AWS EC2 Instance

Part 1: Create an EC2 Instance on AWS

1. **Log in to AWS Console**
 - Open the [AWS Management Console](#) and log in to your account.
2. **Navigate to EC2 Service**
 - In the AWS Console, go to **Services** → **Compute** → **EC2**.
3. **Launch a New Instance**
 - Click **Launch Instance** to start creating a new instance.
4. **Configure Instance Details**
 - **Name:** Enter a name for your instance.
 - **Amazon Machine Image (AMI):** Choose **Amazon Linux**.
 - **Instance Type:** Select **t2.micro** (eligible for the free tier).
5. **Choose or Create a Key Pair**

- In the **Key pair (login)** section, select an existing key pair or create a new one:
 - If creating a new key pair, choose a name and download it in .pem format.
 - Convert the .pem file to .ppk format using PuTTYgen for use with PuTTY:
 - Open **PuTTYgen**, load the .pem file, and save it as .ppk.

Create key pair

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Key pair name

Key pairs allow you to connect to your instance securely.

The name can include up to 255 ASCII characters. It can't include leading or trailing spaces.

Key pair type

☒ RSA
RSA encrypted private and public key pair

☐ ED25519
ED25519 encrypted private and public key pair

Private key file format

☐ .pem
For use with OpenSSH

☒ .ppk
For use with PuTTY

⚠ When prompted, store the private key in a secure and accessible location on your computer. You will need it later to connect to your instance. [Learn more](#)

CancelCreate key pair

6. Configure Network Settings

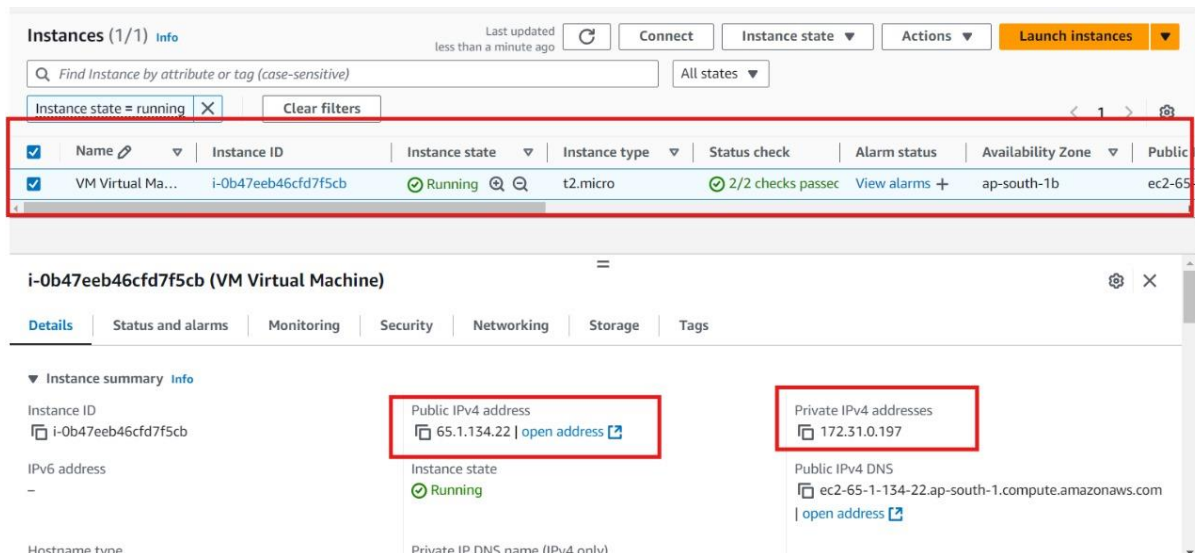
- Leave the default network settings, or customize if needed.

7. Launch the Instance

- Review the configuration and click **Launch Instance**.

8. Wait for the Instance to Initialize

- Once launched, wait for the instance status to change to **running**.

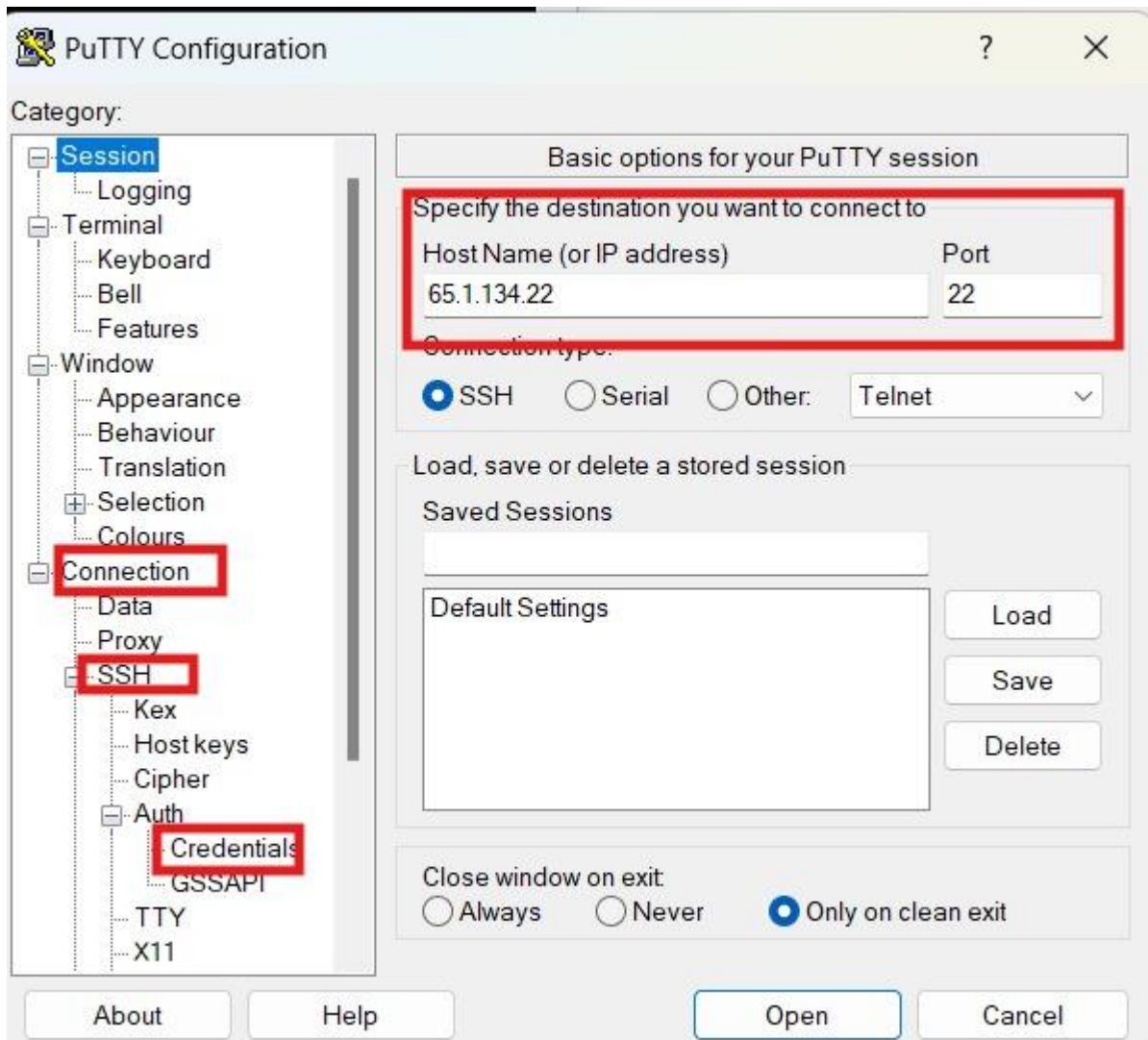


Part 2: Connect to the EC2 Instance Using PuTTY

1. Gather Connection Information

- In the EC2 Dashboard, select your instance.
- Note the **Public IP address**, which you will use to connect.
- Ensure you have the **private key (.ppk) file** and the **default**

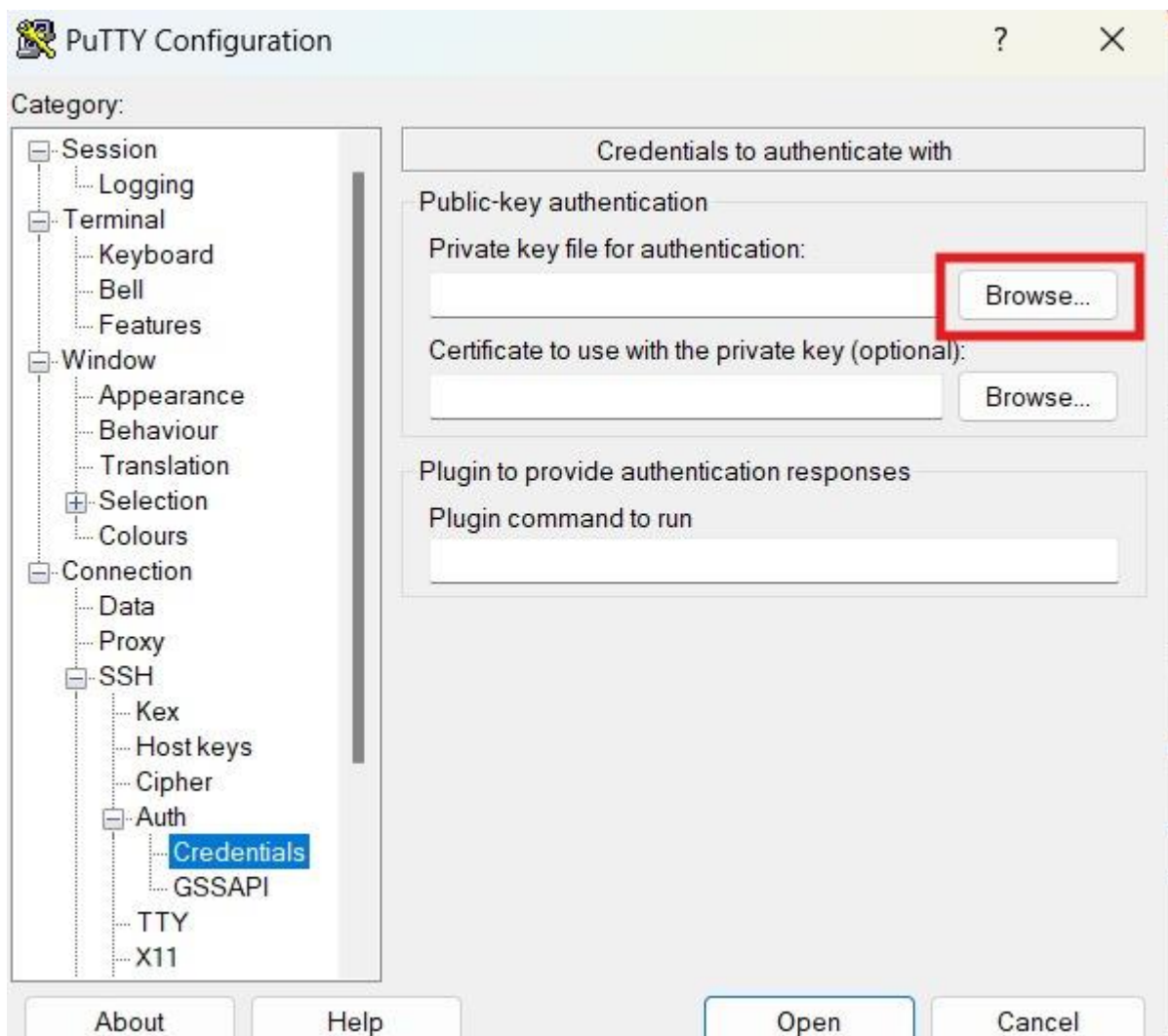
username (ec2-user for Amazon Linux).



2. Open PuTTY and Configure Connection

- Open **PuTTY** on your computer.
- **Host Name:** Enter the **Public IP** of your instance.

- **Port:** Use the default **22** for SSH.
- ### 3. Add the Private Key
- In the PuTTY sidebar, go to **Connection** → **SSH** → **Auth**.
 - Under **Private key file for authentication**, browse to select your .ppk file.



4. **Open the Connection**

- Click **Open** to start the SSH session.

5. **Log In to the EC2 Instance**

- A terminal will open, and you will be prompted to **login as**:
 - Enter ec2-user as the username.

6. **Switch to Root User (Optional)**

- After logging in, you can switch to the root user with:

bash

Copy code

sudo su –

