

Devops Assignment-1

Praveen Kumar Chukkapalli

Launching a new EC2 instance in AWS

The screenshot shows the AWS Management Console interface for launching a new EC2 instance. The browser address bar displays the URL: `us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#LaunchInstances:`. The console header includes the AWS logo, a search bar, and navigation links. The main content area is titled "Launch a new Amazon EC2 instance" and provides instructions on how to get started. The "Name and tags" section has a text input field labeled "Name" with the value "My_linux" and a button "Add additional tags". The "Application and OS Images (Amazon Machine Image)" section includes a search bar and a "Quick Start" section with various AMI options like Amazon Linux, macOS, Ubuntu, Windows, Red Hat, and SUSE Linux. The "Summary" panel on the right shows the configuration: "Number of instances" set to 1, "Software Image (AMI)" as "Amazon Linux 2023 AMI 2023.3.2...", "Virtual server type (instance type)" as "t2.micro", "Firewall (security group)" as "New security group", and "Storage (volumes)" as "1 volume(s) - 8 GiB". At the bottom of the summary panel are buttons for "Cancel", "Launch instance", and "Review commands".

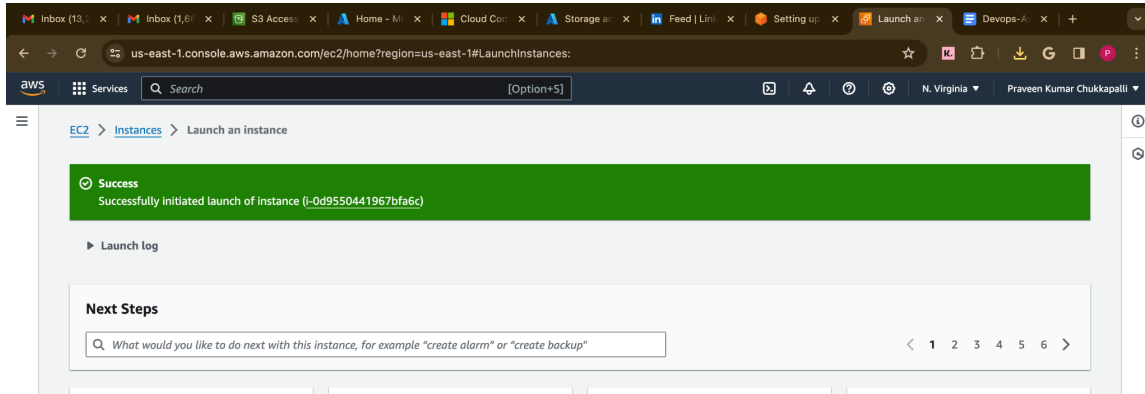
Generating the Private key file for connecting to the instance

The screenshot shows the "Create key pair" dialog box in the AWS Management Console. The dialog box has a title bar with a close button. It contains the following fields and options: "Key pair name" with the value "My_linux_keyPair", "Key pair type" with "RSA" selected (and "ED25519" as an alternative), and "Private key file format" with ".pem" selected (and ".ppk" as an alternative). A warning message states: "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." At the bottom of the dialog box are buttons for "Cancel" and "Create key pair". The background shows the EC2 instance launch wizard with the "Key pair (login)" section visible.

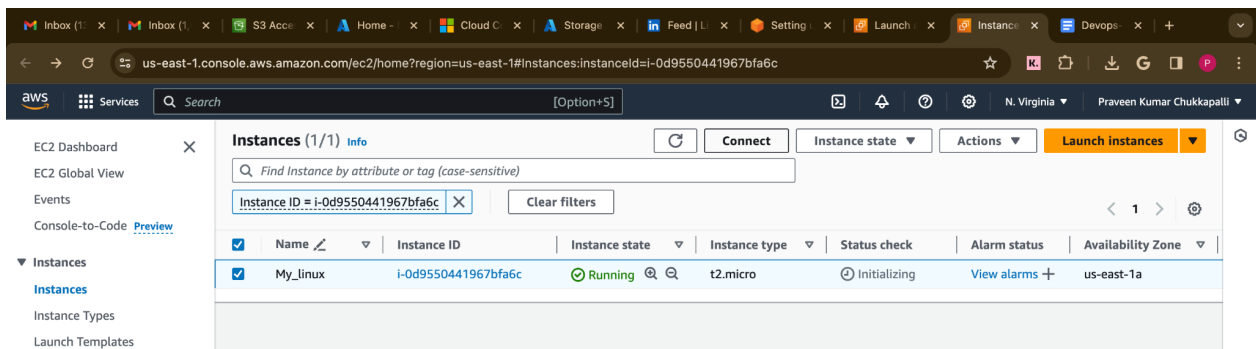
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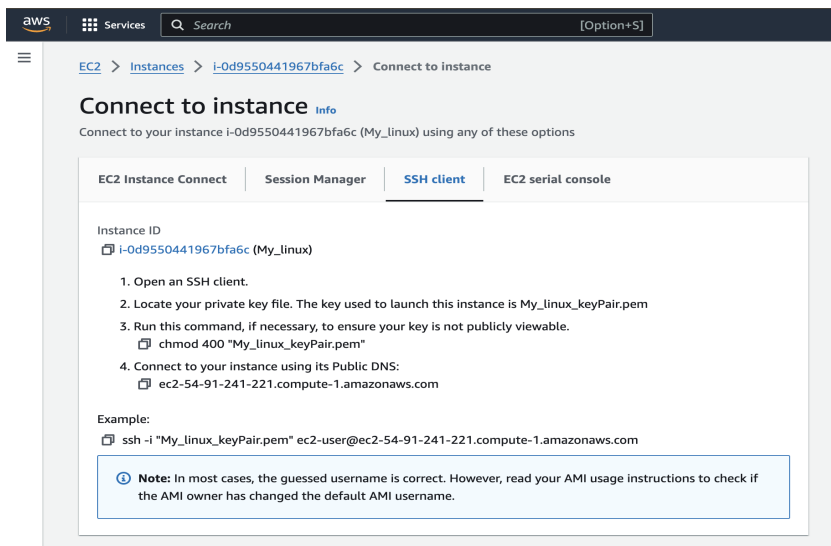
Done with Instance initialization



Now, Connecting the launched instance

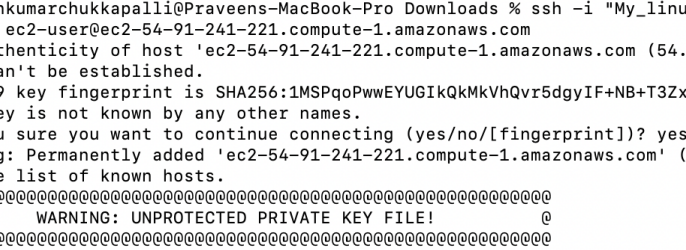


These are the instructions given for connecting to instance with SSH client ,



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I got the Mac OS, so I am using the CLI ssh client through Terminal to connect to the instance with a downloaded identity file (.pem key file).



```

praveenkumarchukkappalli@Praveens-MacBook-Pro Downloads % ssh -i "My_linux_keyPair.pem" ec2-user@ec2-54-91-241-221.compute-1.amazonaws.com
The authenticity of host 'ec2-54-91-241-221.compute-1.amazonaws.com (54.91.241.221)' can't be established.
ED25519 key fingerprint is SHA256:1MSPqoPwwEYUGIkQkMhVhQvr5dgyIF+NB+T3Zx6hSMU.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'ec2-54-91-241-221.compute-1.amazonaws.com' (ED25519) to the list of known hosts.
@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@
@      WARNING: UNPROTECTED PRIVATE KEY FILE!      @
@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@
Permissions 0644 for 'My_linux_keyPair.pem' are too open.
It is required that your private key files are NOT accessible by others.
This private key will be ignored.
Load key "My_linux_keyPair.pem": bad permissions
ec2-user@ec2-54-91-241-221.compute-1.amazonaws.com: Permission denied (publickey,gssapi-keyex,gssapi-with-mic).
praveenkumarchukkappalli@Praveens-MacBook-Pro Downloads %

```

I am unable to access the keypair file for establishing a connection as the key file does not have any granted permissions .

So, I am granting the file with read and view permissions by using `chmod 400 "My_linux_keyPair.pem"` command. After giving permissions, **I am able to connect with the instance through SSH .**

```

• • • Downloads — ec2-user@ip-172-31-34-3: ~ — ssh -i My_linux_keyPair.pem ec2-user@...
praveenkumarchukkapaalli@Praveens-MacBook-Pro Downloads % chmod 400 "My_linux_keyPair.pem"
praveenkumarchukkapaalli@Praveens-MacBook-Pro Downloads % ssh -i "My_linux_keyPair.pem" ec2-
user@ec2-54-91-241-221.compute-1.amazonaws.com

      #_
    ~\ _ #####_      Amazon Linux 2023
  ~ ~ \_ #####\_
  ~ ~ \_ #####|
  ~ ~ \_#/_/____      https://aws.amazon.com/linux/amazon-linux-2023
  ~ ~ V~' ' ->
    ~ ~ ~
    ~ ~ ~ _ . _ / _ / _ /
    ~ ~ ~ _/m/'

[ec2-user@ip-172-31-34-3 ~]$ uptime
17:29:43 up 9 min, 1 user, load average: 0.00, 0.05, 0.05
[ec2-user@ip-172-31-34-3 ~]$ █

```