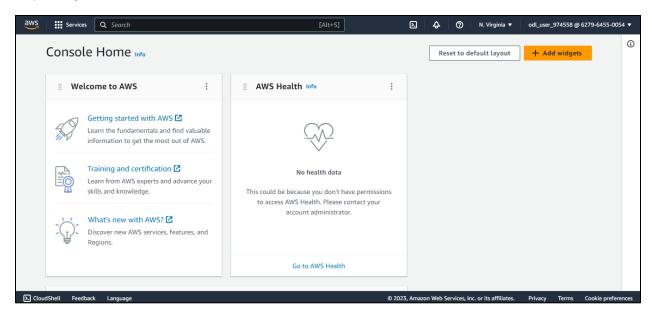
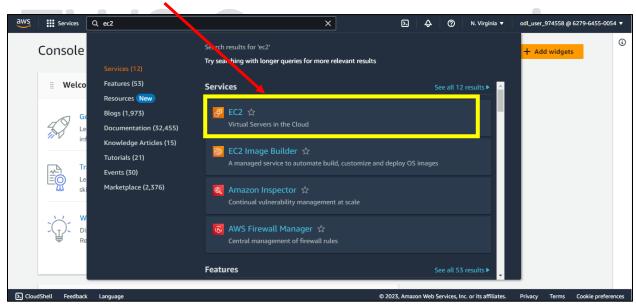
Before we see Terraform in action, first let's check if we have EC2 instance using below steps,

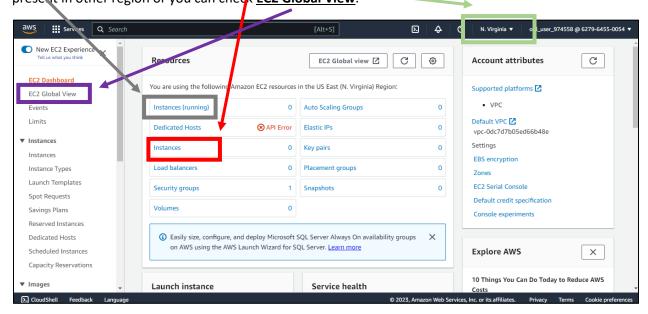
Step 1: Login to AWS account



Step 2: Search and goto **EC2** service.



Step 3: Here you will see if you have any <u>instances</u> present in your account and which of them are <u>running</u> and other info. And look for the <u>region</u> which is selected, you can change the region if it is present in other region or you can check <u>EC2 Global View</u>.



And as of now, we don't have instances in our account.

So now, we'll create a EC2 instance using terraform and then we'll see if gets created or not using above steps.

Terraform In Action

Step 1: Install terraform on your machine and complete the setup.

Step 2: In order to connect to AWS using Terraform, terraform has to successfully authenticate. It is done with the help of Programmatic API Keys (Access Key and Secret). So we'll need to create or use the existing ones for authentication. To do that please check steps given in below doc.



Step 3: Now we need to set these variables on our CLI, so we can use those for authentication.

If you are using Windows, then use below commands to set these variables -

If you are using Linux, then use below commands to set these variables -

Please check below logs for reference.



Step 4: Now create a new file with tf extension, for e.g. main.tf. You can create this file in your current directory or desired directory.



Step 5: Now run terraform init command. It initializes a new or existing Terraform configuration. It downloads the necessary provider plugins and sets up the backend configuration.

Please check below logs for reference.



Step 6: Now run terraform plan command. It will create an execution plan that shows the changes Terraform will make to the infrastructure. It compares the desired state in the Terraform configuration with the current state and displays a list of actions that will be taken.

Please check below logs for reference.



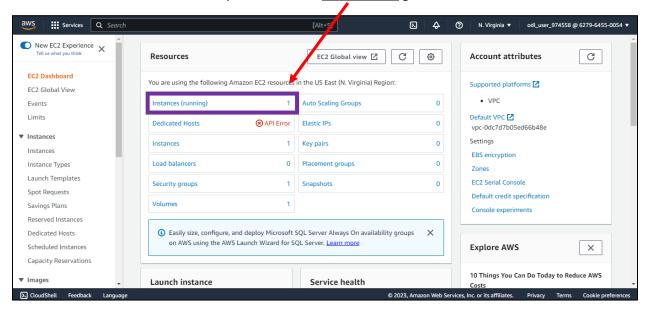
Step 7: Now run terraform apply command. It will apply the changes described in the execution plan. Creates, modifies, or destroys resources to match the desired state defined in the configuration.

Please check below logs for reference.

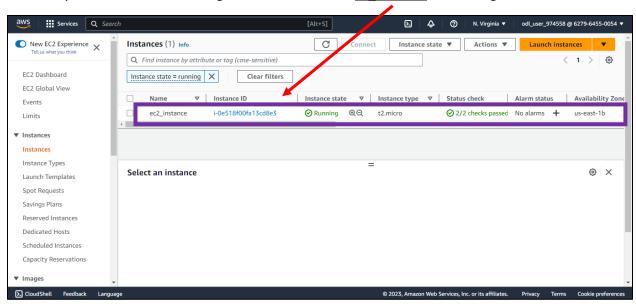


Step 8: Again check the first steps mentioned in top section of document to verify if resource got created or not.

Goto EC2 service window. And now you can see the EC2 instance got created, so click on it.



And here you can see EC2 instance got created with name ec instance which we gave in main.tf file



Don't try to connect to this EC2 instance, as the SSH rule is not added in NSG.

