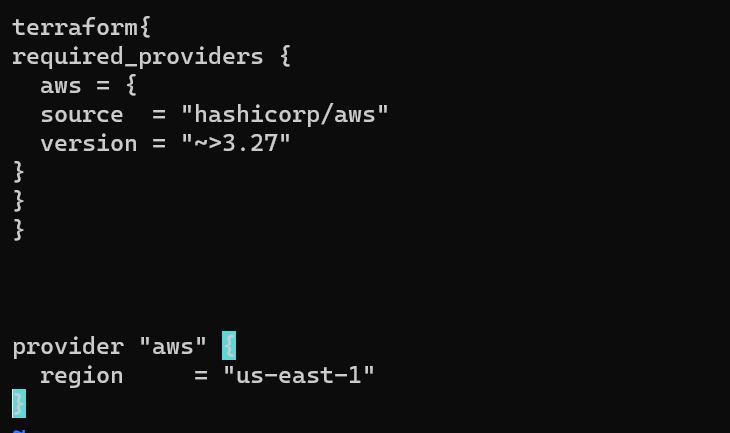
Project : 1

Terraform is an open-source infrastructure as a CODE (IAC) tool that allows to create, manage & deploy the production- ready environment. In this project, we will deploy a three- tier application in aws using terraform.

Step -1 : create a file for the provider by using .tf

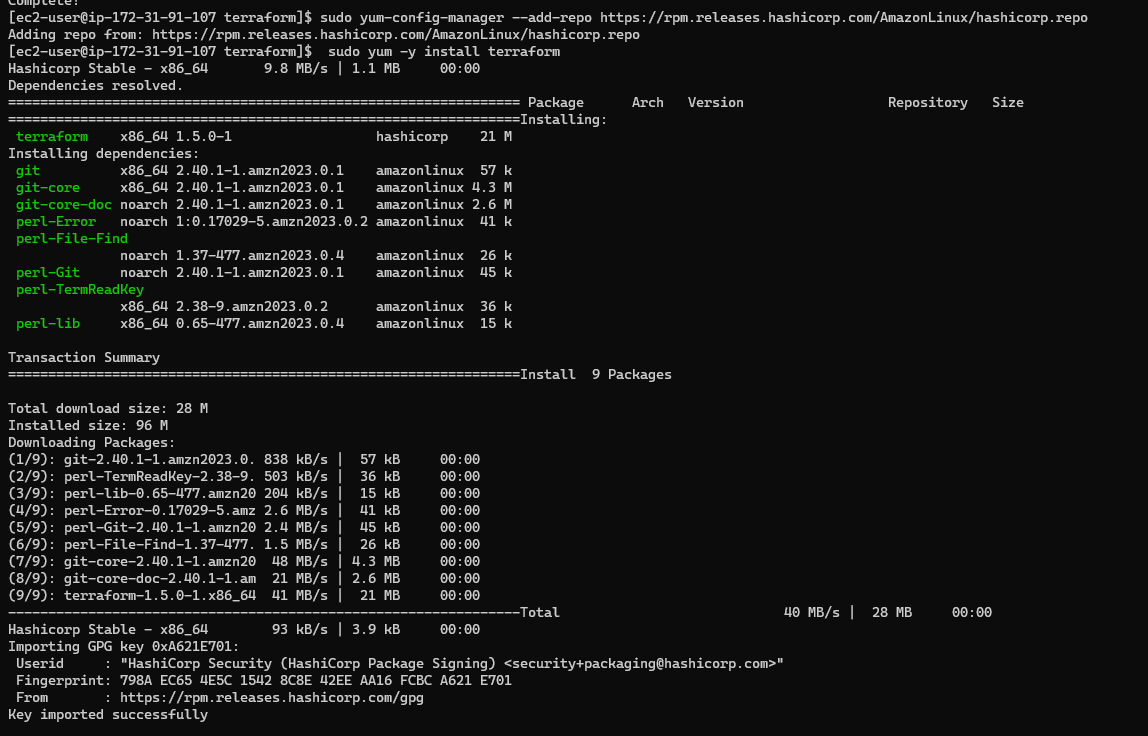


Step -2 : first of all install terraform in your server by using Linux commands.

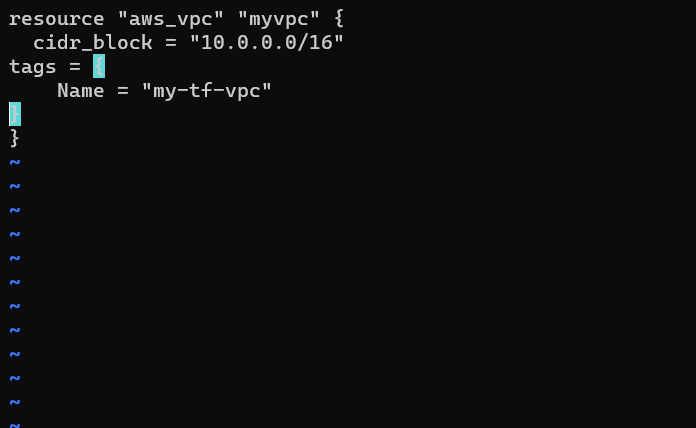
* sudo yum install -y yum-utils shadow-utils



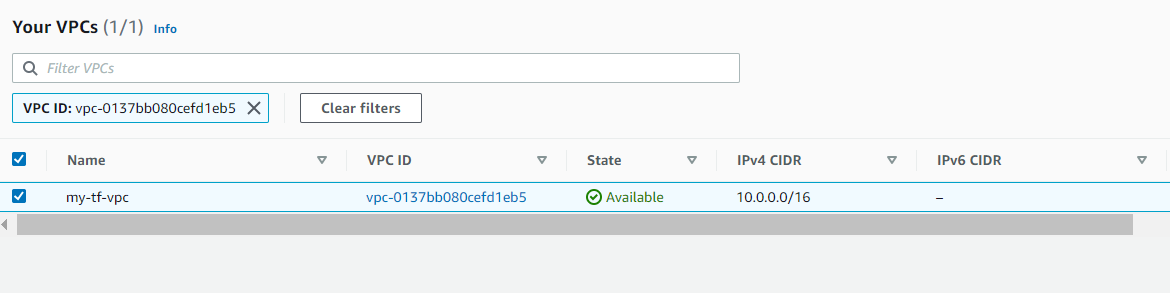
* sudo yum-config-manager --add-repo <https://rpm.releases.hashicorp.com/AmazonLinux/hashicorp.repo>.
* sudo yum -y install terraform.



Step -3 : create a file for the VPC with the extension of .tf



* this is the graphical user interface of VPC which we have created by using .tf extension in command line interface.



Step -4 : create a file for the SUBNET with the extension of .tf

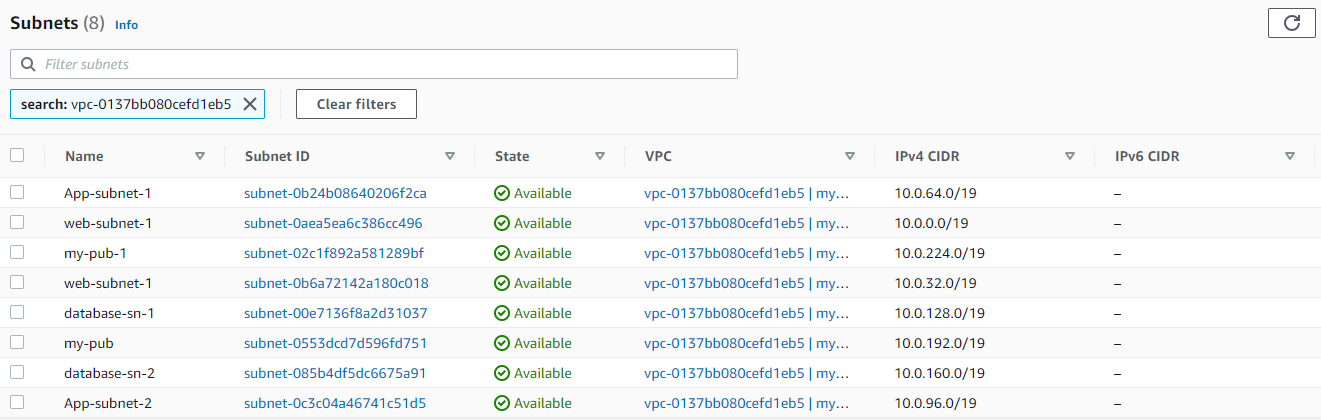
* Here I create 2 public subnets and 2 private subnets.



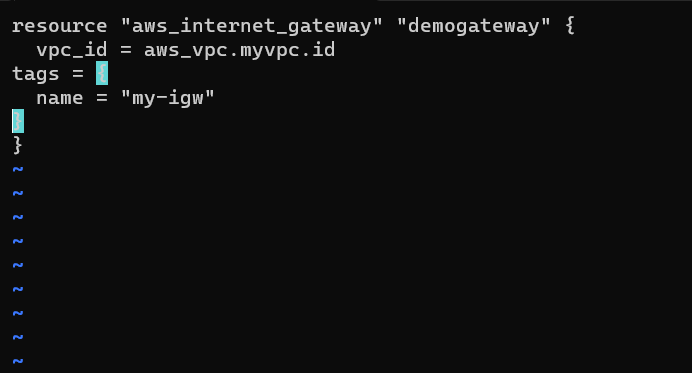
* Here I created 2 database subnets.



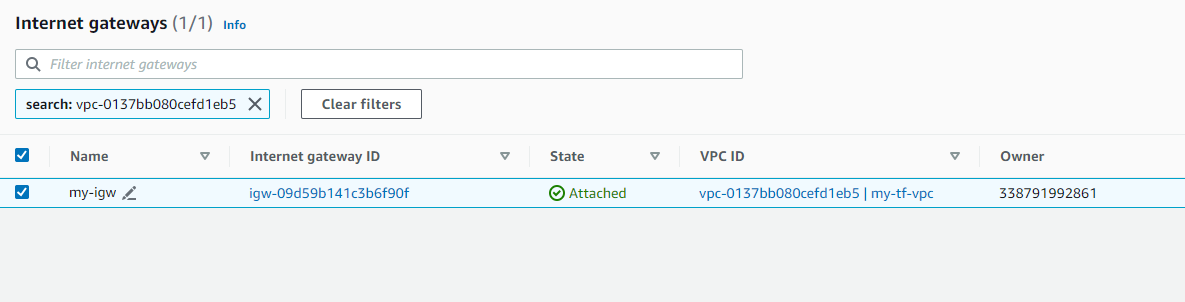
* This is the graphical user interface of the subnets which we have created using .tf extension in command line interface.

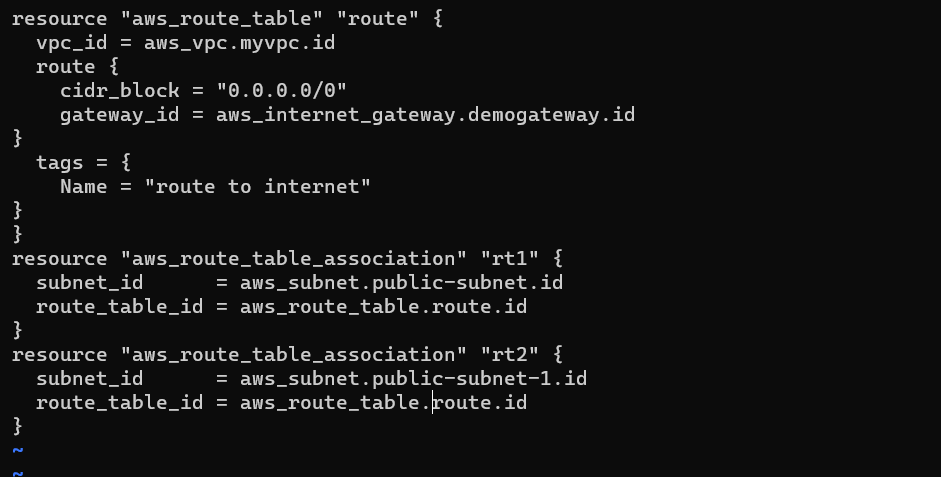


Step -5 : Create a file for the internet Gateway with the extension of .tf

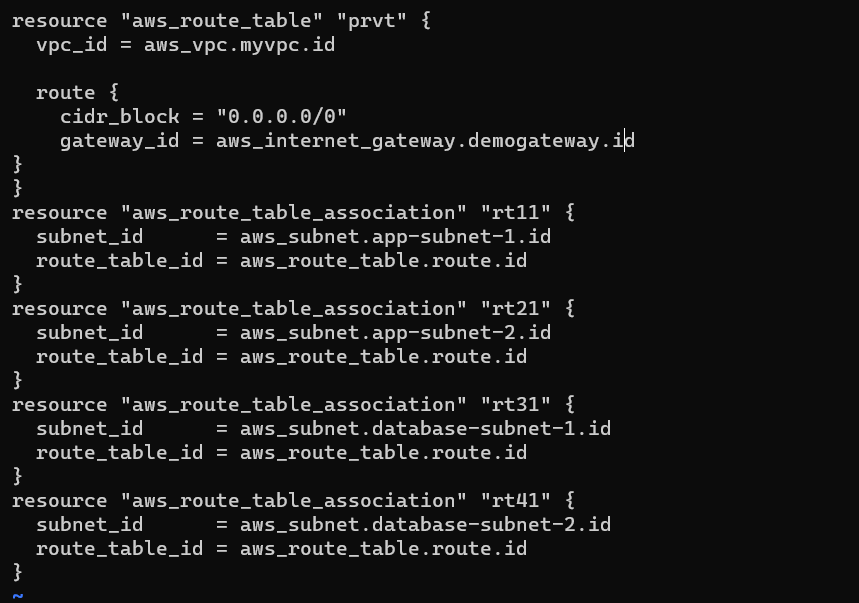


* This is graphical user interface of the internet gateway which we have created by using .tf extension in command line interface.

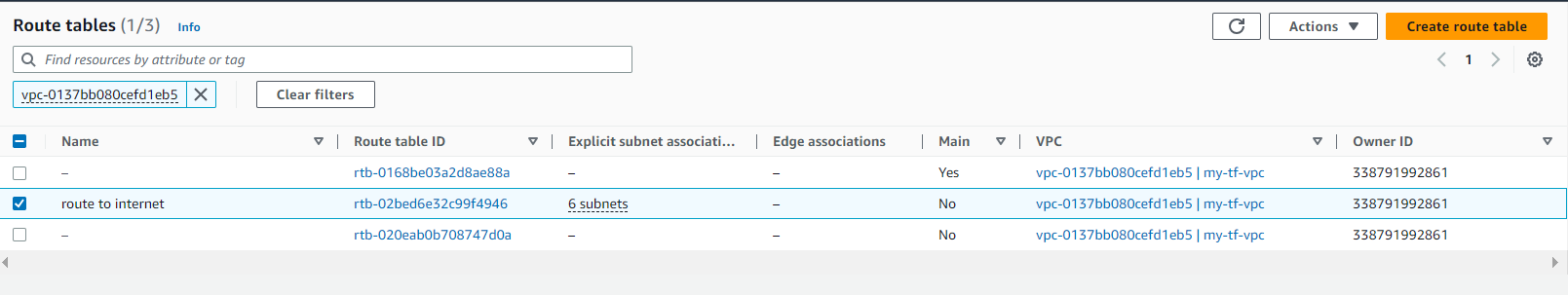




* Create a file for the route tables with extension of .tf (private)



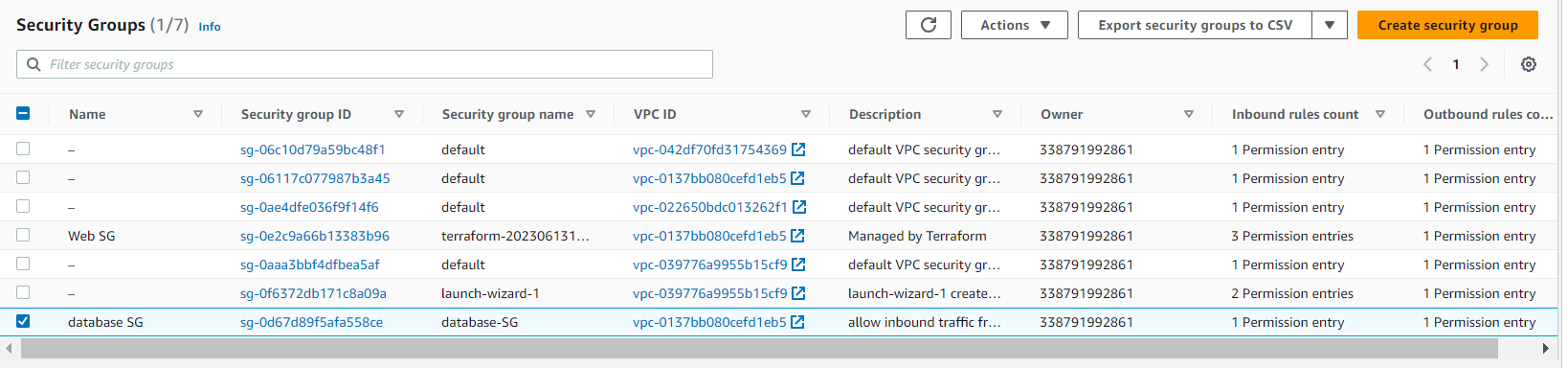
* This is graphical user interface of the route tables which we have created by using .tf extension in command line interface.



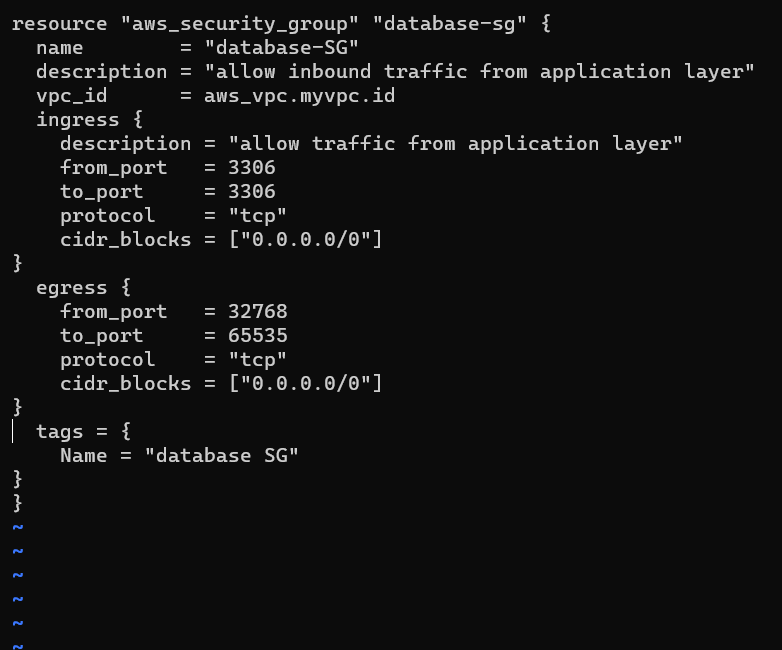
* Create a file for security group for the front-end tier.



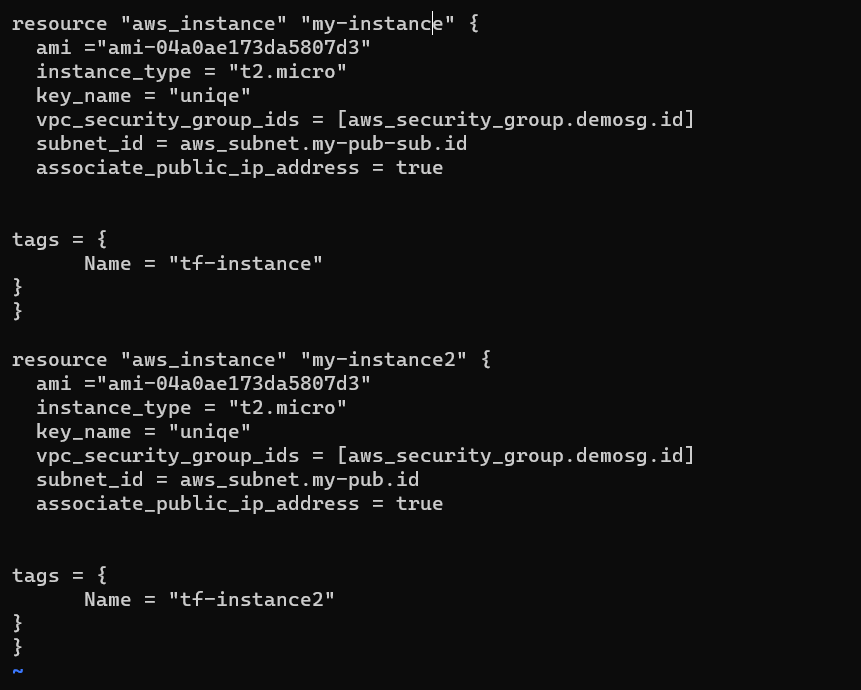
* This is graphical user interface of the route tables which we have created by using .tf extension in command line interface.



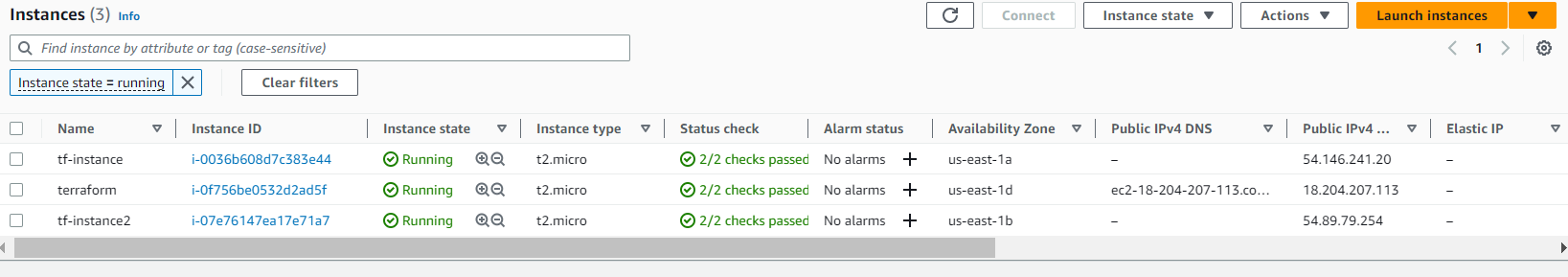
* Create a file for security group for the Database tier.



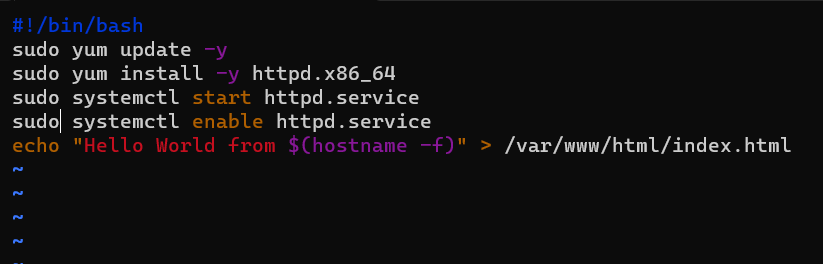
* Create a file for ec2 instance using .tf extension.



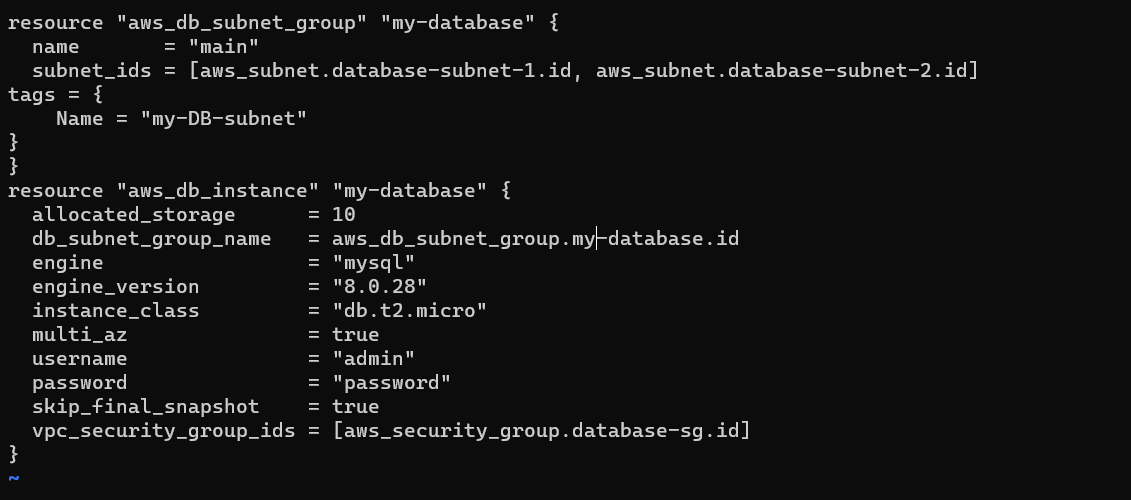
* This is graphical user interface of the ec2 instance which we have created by using .tf extension in command line interface.



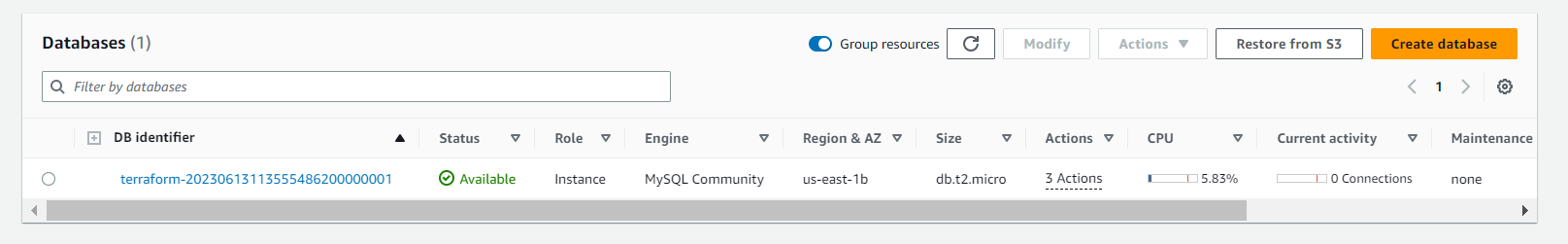
* Create a file for user data.



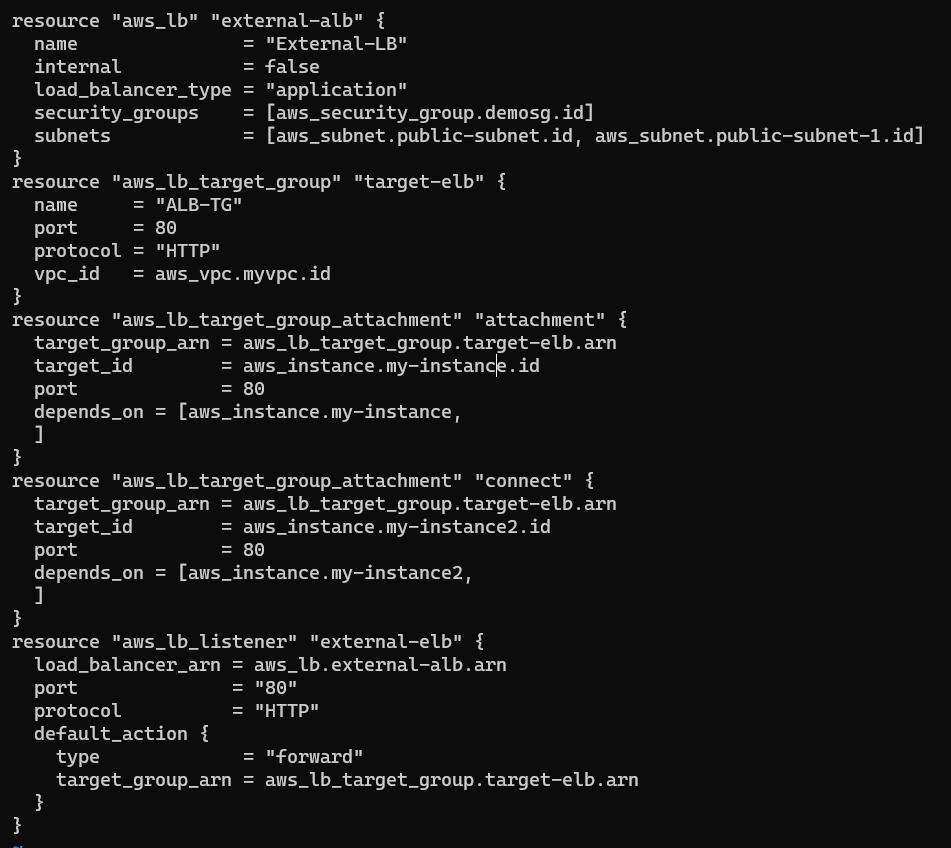
* Create a file for RDS instance



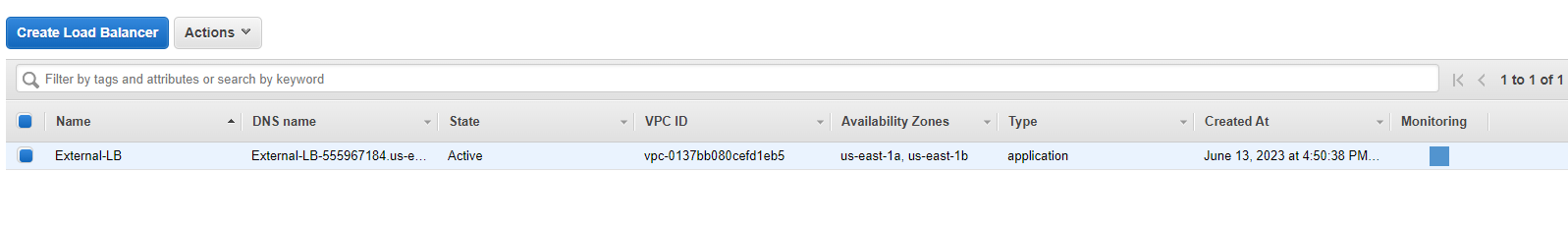
* This is graphical user interface of the RDS instance which we have created by using .tf extension in command line interface.



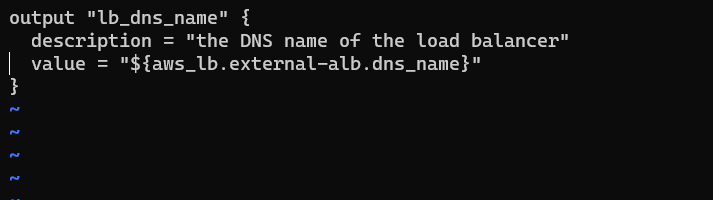
* Create a file for application load balancer



* This is graphical user interface of the application load balancer which we have created by using .tf extension in command line interface.



* Create a file for outputs.



* Output on website by using IP address from EC2 instance.

