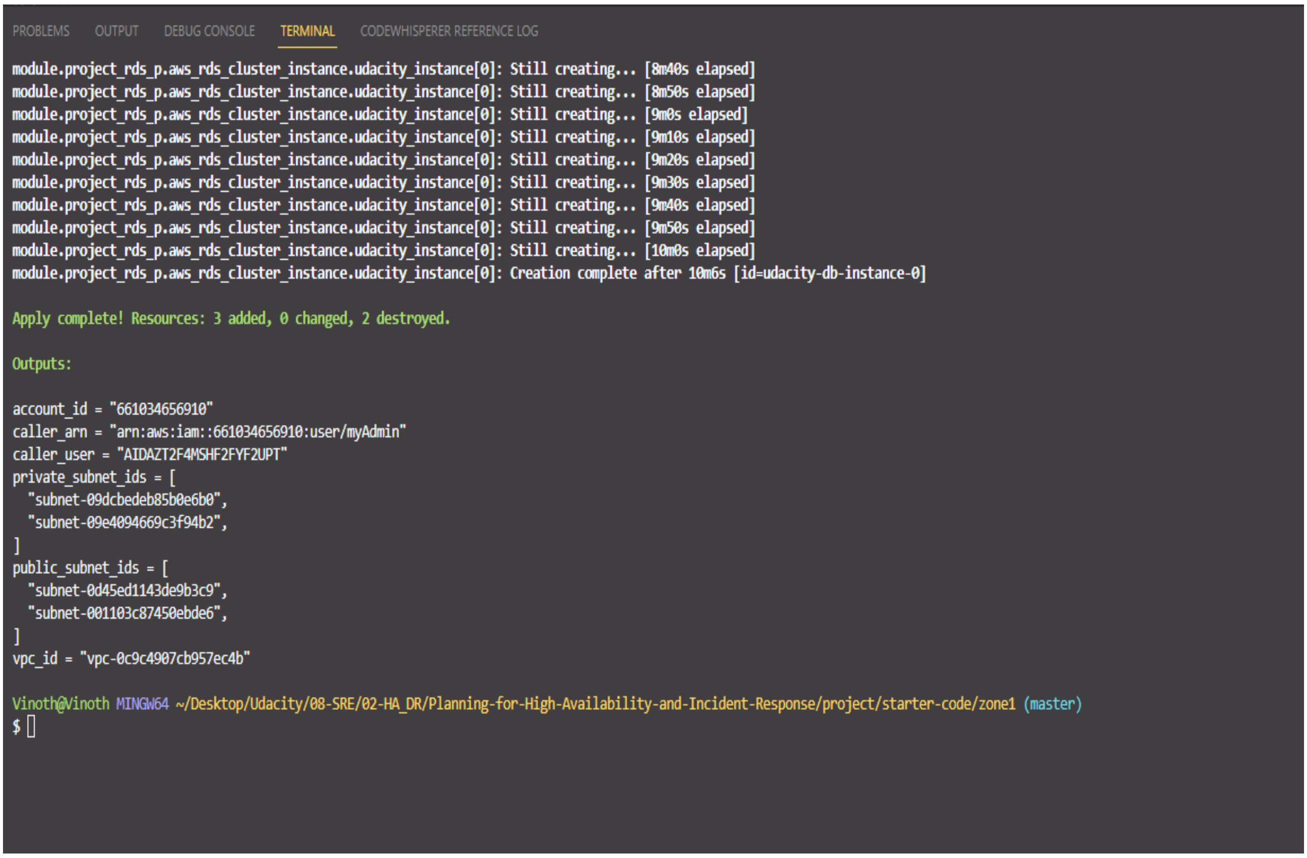
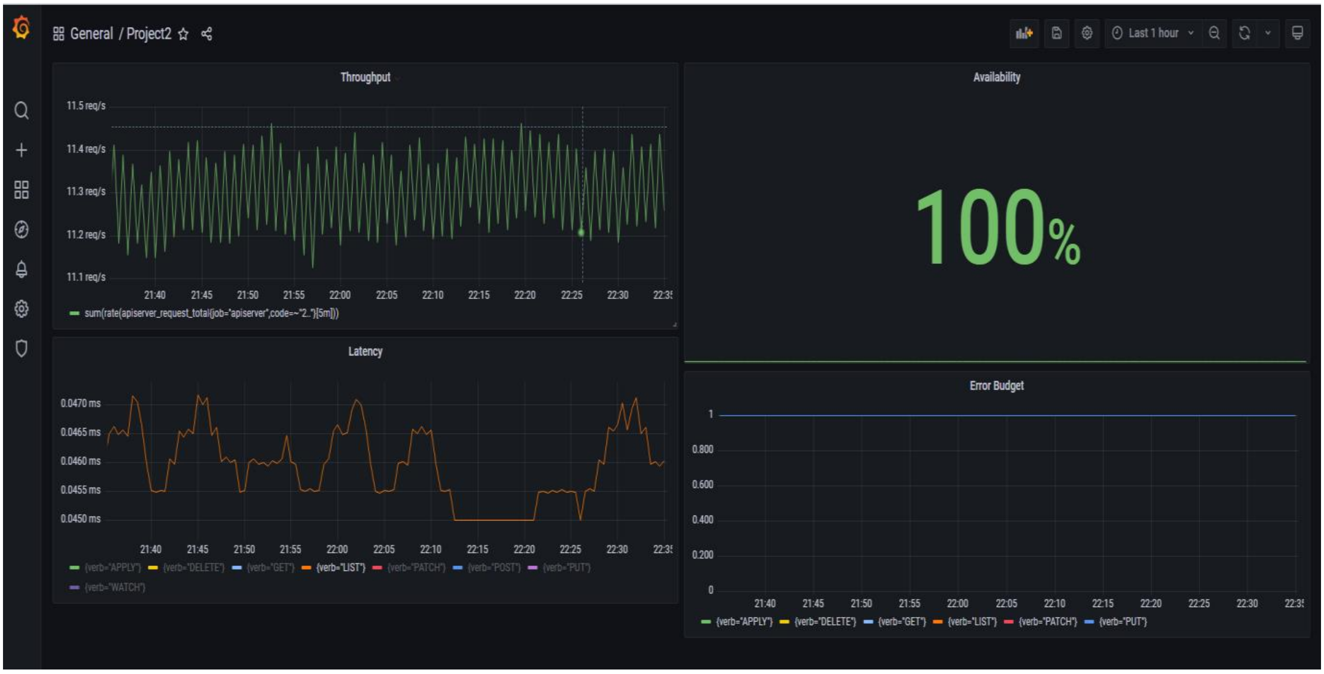
Zone1 – Terraform apply:

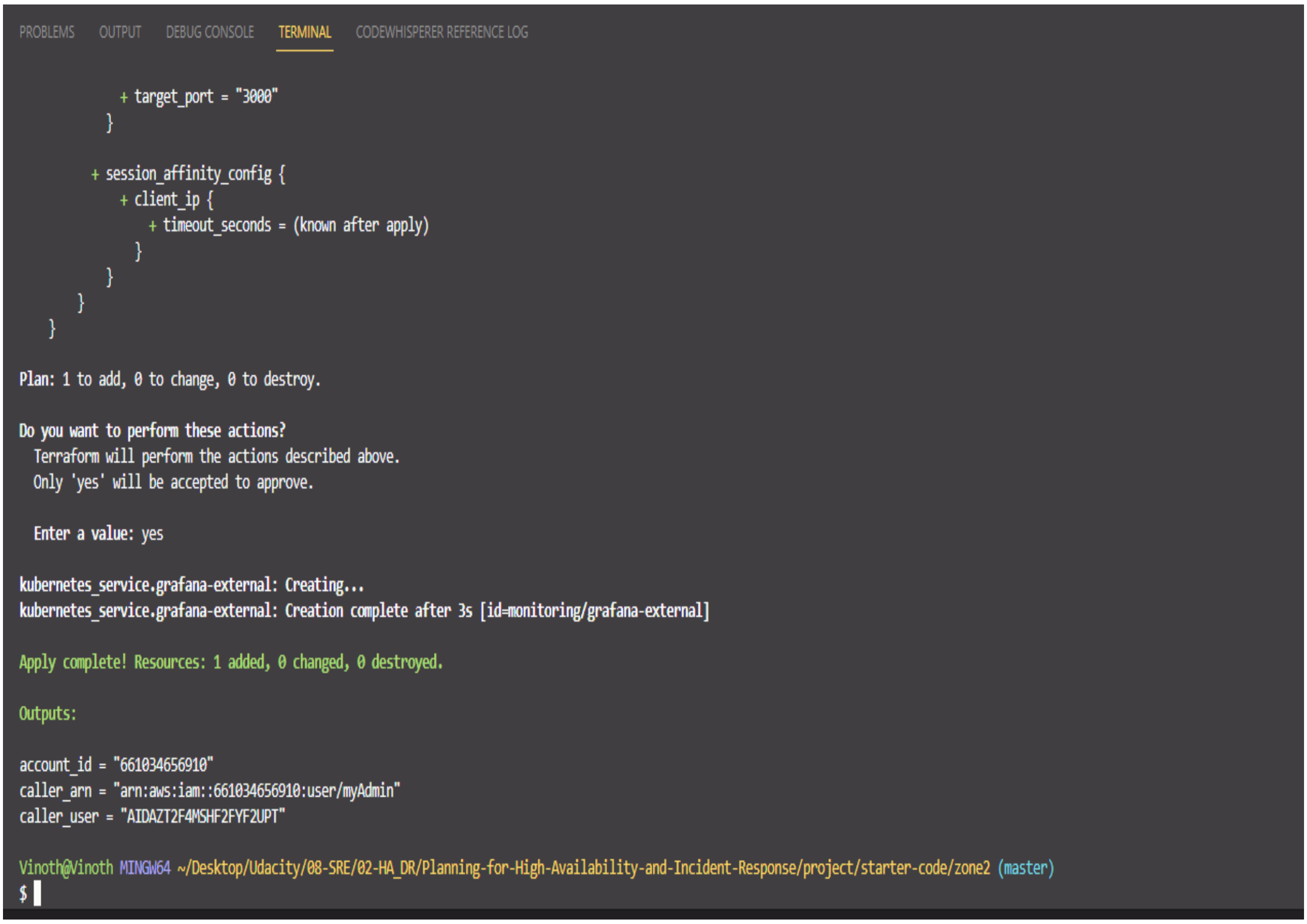


```
module.project_rds_p.aws_rds_cluster_instance.udacity_instance[0]: Still creating... [8m40s elapsed]
module.project_rds_p.aws_rds_cluster_instance.udacity_instance[0]: Still creating... [8m50s elapsed]
module.project_rds_p.aws_rds_cluster_instance.udacity_instance[0]: Still creating... [9m0s elapsed]
module.project_rds_p.aws_rds_cluster_instance.udacity_instance[0]: Still creating... [9m10s elapsed]
module.project_rds_p.aws_rds_cluster_instance.udacity_instance[0]: Still creating... [9m20s elapsed]
module.project_rds_p.aws_rds_cluster_instance.udacity_instance[0]: Still creating... [9m30s elapsed]
module.project_rds_p.aws_rds_cluster_instance.udacity_instance[0]: Still creating... [9m40s elapsed]
module.project_rds_p.aws_rds_cluster_instance.udacity_instance[0]: Still creating... [9m50s elapsed]
module.project_rds_p.aws_rds_cluster_instance.udacity_instance[0]: Still creating... [10m0s elapsed]
module.project_rds_p.aws_rds_cluster_instance.udacity_instance[0]: Creation complete after 10m6s [id=udacity-db-instance-0]

Apply complete! Resources: 3 added, 0 changed, 2 destroyed.

Outputs:

account_id = "661034656910"
caller_arn = "arn:aws:iam::661034656910:user/myAdmin"
caller_user = "AIDAZT2F4MSHF2FYF2UPT"
private_subnet_ids = [
  "subnet-09dcbedeb85b0e6b0",
  "subnet-09e4094669c3f94b2",
]
public_subnet_ids = [
  "subnet-0d45ed1143de9b3c9",
  "subnet-001103c87450ebde6",
]
vpc_id = "vpc-0c9c4907cb957ec4b"

Vinoth@Vinoth MINGW64 ~/Desktop/Udacity/08-SRE/02-HA_DR/Planning-for-High-Availability-and-Incident-Response/project/starter-code/zone1 (master)
$ 
```

Grafana Screenshot:

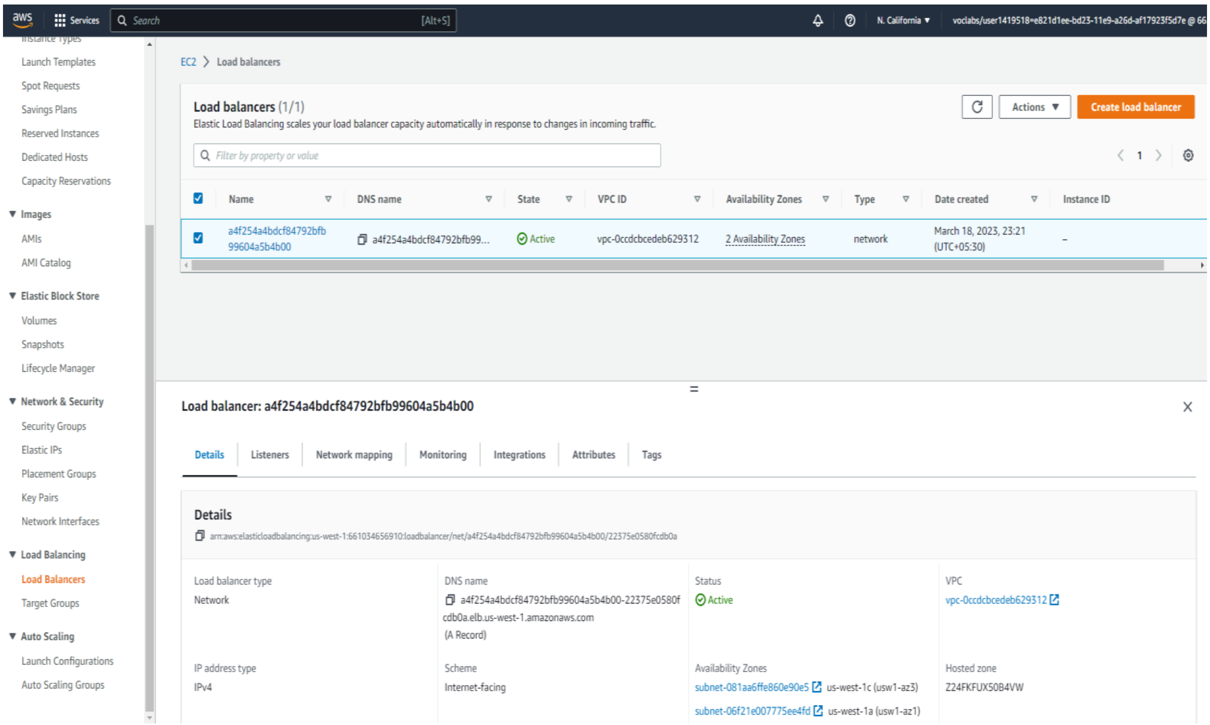


Zone2 – Terraform apply:



```
              + target_port = "3000"
            }

          + session_affinity_config {
              + client_ip {
                  + timeout_seconds = (known after apply)
                }
            }
        }
    }

Plan: 1 to add, 0 to change, 0 to destroy.

Do you want to perform these actions?
  Terraform will perform the actions described above.
  Only 'yes' will be accepted to approve.

  Enter a value: yes

kubernetes_service.grafana-external: Creating...
kubernetes_service.grafana-external: Creation complete after 3s [id=monitoring/grafana-external]

Apply complete! Resources: 1 added, 0 changed, 0 destroyed.

Outputs:

account_id = "661034656910"
caller_arn = "arn:aws:iam::661034656910:user/myAdmin"
caller_user = "AIDAZT2F4MSHF2FYF2UPT"

Vinoth@Vinoth MINGW64 ~/Desktop/Udacity/08-SRE/02-HA_DR/Planning-for-High-Availability-and-Incident-Response/project/starter-code/zone2 (master)
$ 
```

LB – Zone2



Load balancers (1/1)

Elastic Load Balancing scales your load balancer capacity automatically in response to changes in incoming traffic.

☑	Name	DNS name	State	VPC ID	Availability Zones	Type	Date created	Instance ID
☑	a4f254a4bdcf84792bfb99604a5b4b00	a4f254a4bdcf84792bfb99...	✓ Active	vpc-0ccdcbcedeb629312	2 Availability Zones	network	March 18, 2023, 23:21 (UTC+05:30)	–

Load balancer: a4f254a4bdcf84792bfb99604a5b4b00

Details

arn:aws:elasticloadbalancing:us-west-1:661034656910:loadbalancer/net/a4f254a4bdcf84792bfb99604a5b4b00/22375e0580fcdb0a

Load balancer type
Network

DNS name
a4f254a4bdcf84792bfb99604a5b4b00-22375e0580fcdb0a.elb.us-west-1.amazonaws.com
(A Record)

Status
✓ Active

VPC
vpc-0ccdcbcedeb629312

IP address type
IPv4

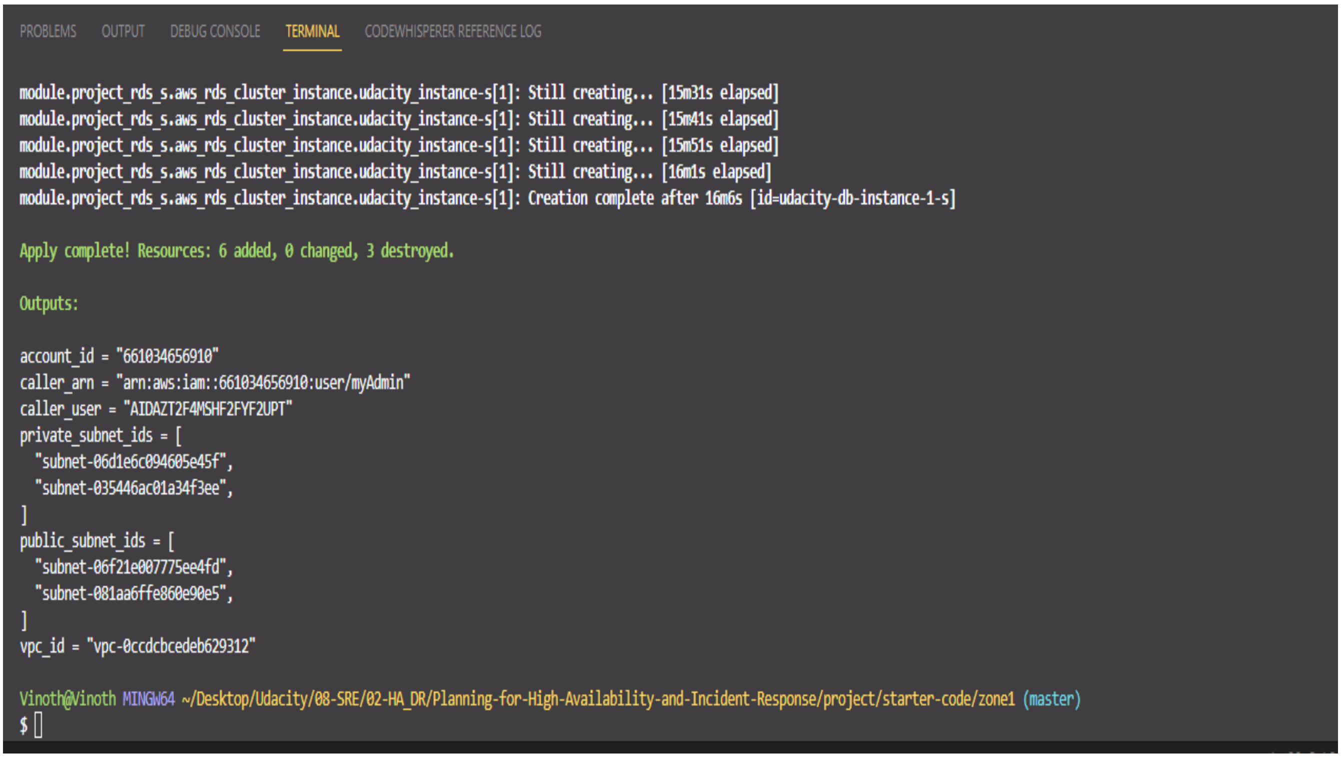
Scheme
Internet-facing

Availability Zones
subnet-081aa6ffe860e90e5 us-west-1c (usw1-az3)
subnet-06f21e007775ee4fd us-west-1a (usw1-az1)

Hosted zone
Z24FKFUX50B4VW

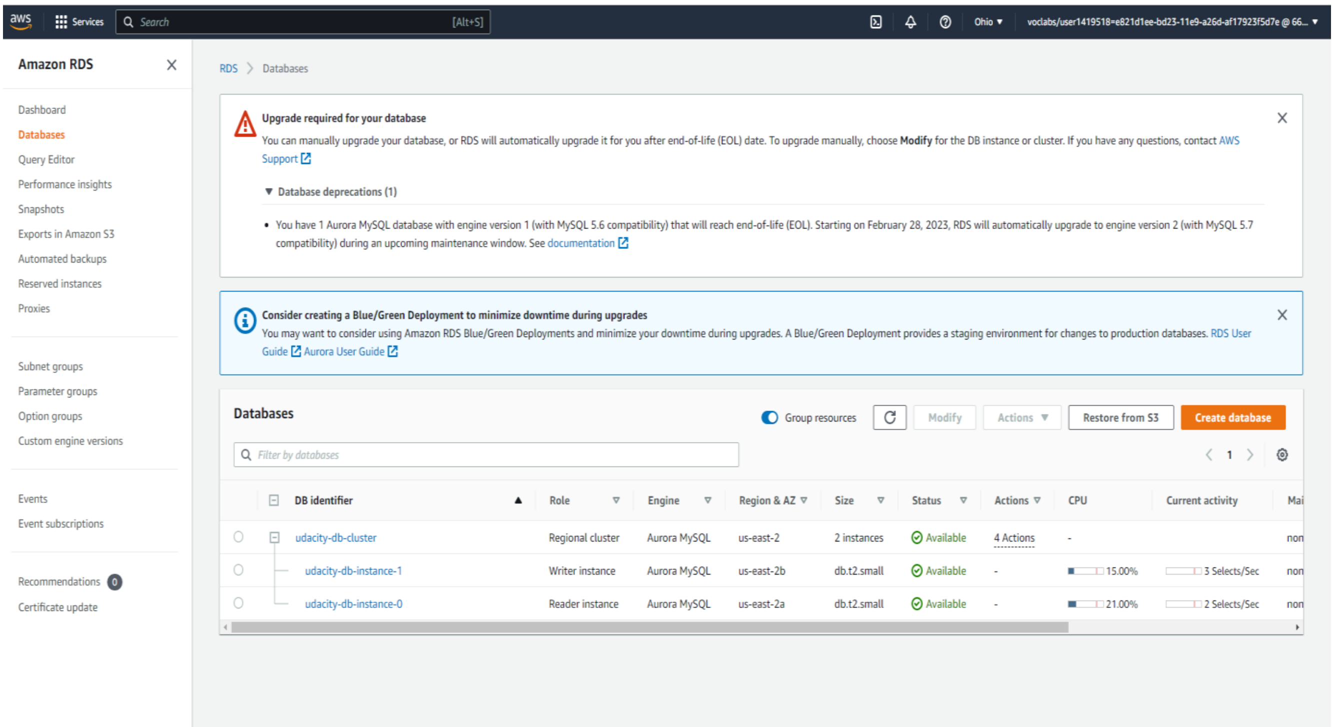
DB – High Availability Deployment:

Terraform Run:



```
module.project_rds_s.aws_rds_cluster_instance.udacity_instance-s[1]: Still creating... [15m31s elapsed]
module.project_rds_s.aws_rds_cluster_instance.udacity_instance-s[1]: Still creating... [15m41s elapsed]
module.project_rds_s.aws_rds_cluster_instance.udacity_instance-s[1]: Still creating... [15m51s elapsed]
module.project_rds_s.aws_rds_cluster_instance.udacity_instance-s[1]: Still creating... [16m1s elapsed]
module.project_rds_s.aws_rds_cluster_instance.udacity_instance-s[1]: Creation complete after 16m6s [id=udacity-db-instance-1-s]

Apply complete! Resources: 6 added, 0 changed, 3 destroyed.

Outputs:

account_id = "661034656910"
caller_arn = "arn:aws:iam::661034656910:user/myAdmin"
caller_user = "AIDAZT2F4MSHF2FYF2UPT"
private_subnet_ids = [
  "subnet-06d1e6c094605e45f",
  "subnet-035446ac01a34f3ee",
]
public_subnet_ids = [
  "subnet-06f21e007775ee4fd",
  "subnet-081aa6ffe860e90e5",
]
vpc_id = "vpc-0ccdcbcedeb629312"

Vinoth@Vinoth MINGW64 ~/Desktop/Udacity/08-SRE/02-HA_DR/Planning-for-High-Availability-and-Incident-Response/project/starter-code/zone1 (master)
$ 
```

Zone1:



Upgrade required for your database

You can manually upgrade your database, or RDS will automatically upgrade it for you after end-of-life (EOL) date. To upgrade manually, choose **Modify** for the DB instance or cluster. If you have any questions, contact AWS Support

▼ Database deprecations (1)

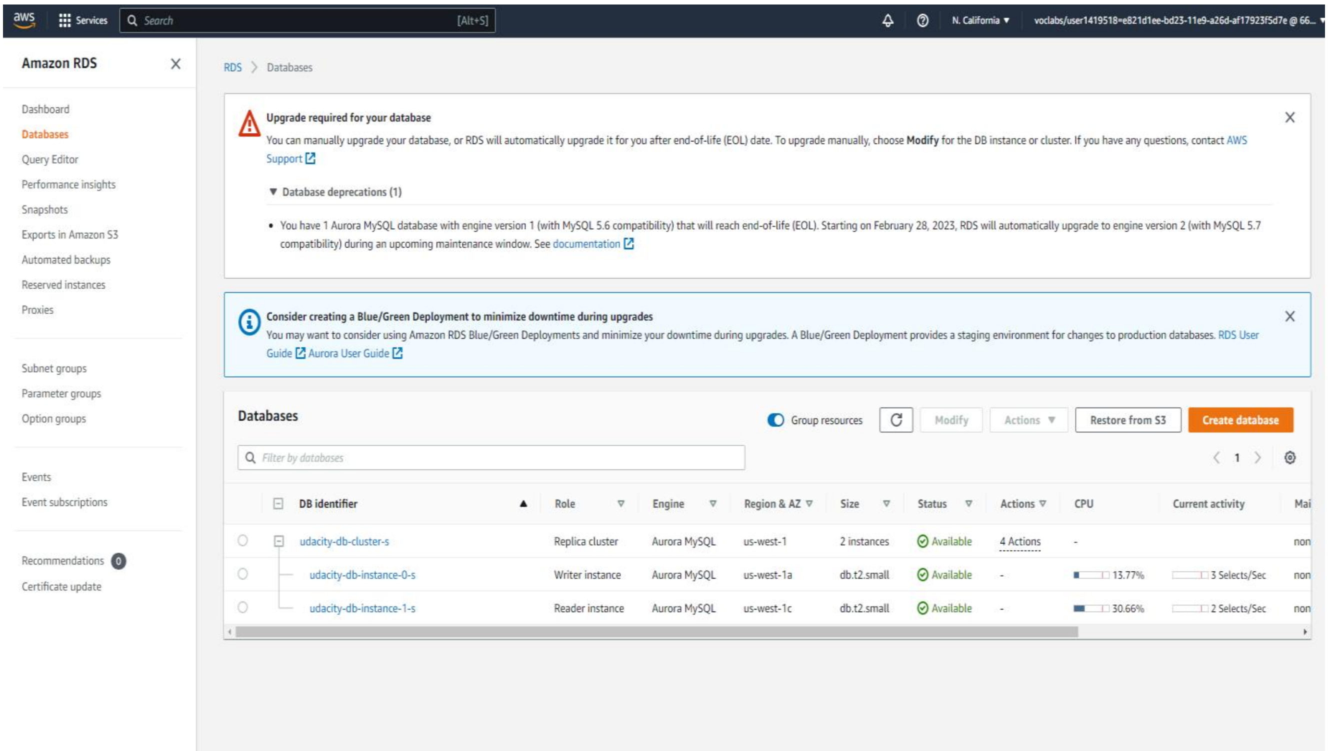
- You have 1 Aurora MySQL database with engine version 1 (with MySQL 5.6 compatibility) that will reach end-of-life (EOL). Starting on February 28, 2023, RDS will automatically upgrade to engine version 2 (with MySQL 5.7 compatibility) during an upcoming maintenance window. See documentation

Consider creating a Blue/Green Deployment to minimize downtime during upgrades

You may want to consider using Amazon RDS Blue/Green Deployments and minimize your downtime during upgrades. A Blue/Green Deployment provides a staging environment for changes to production databases. RDS User Guide Aurora User Guide

DB identifier	Role	Engine	Region & AZ	Size	Status	Actions	CPU	Current activity	Mai
udacity-db-cluster	Regional cluster	Aurora MySQL	us-east-2	2 instances	✓ Available	4 Actions	-		non
udacity-db-instance-1	Writer instance	Aurora MySQL	us-east-2b	db.t2.small	✓ Available	-	15.00%	3 Selects/Sec	non
udacity-db-instance-0	Reader instance	Aurora MySQL	us-east-2a	db.t2.small	✓ Available	-	21.00%	2 Selects/Sec	non

Zone2:



Upgrade required for your database

You can manually upgrade your database, or RDS will automatically upgrade it for you after end-of-life (EOL) date. To upgrade manually, choose **Modify** for the DB instance or cluster. If you have any questions, contact AWS Support

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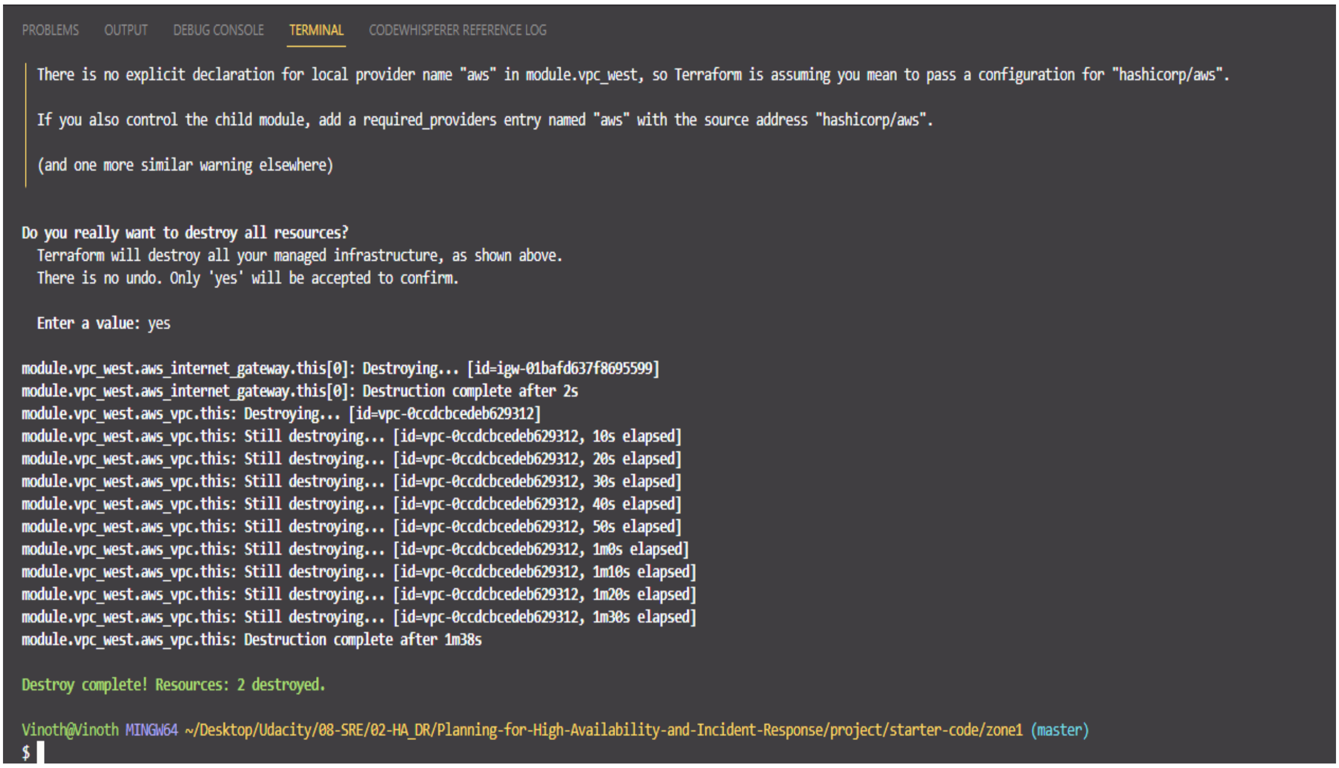
Databases

DB identifier	Role	Engine	Region & AZ	Size	Status	Actions	CPU	Current activity	Mai
udacity-db-cluster-s	Replica cluster	Aurora MySQL	us-west-1	2 instances	Available	4 Actions	-		non
udacity-db-instance-0-s	Writer instance	Aurora MySQL	us-west-1a	db.t2.small	Available	-	13.77%	3 Selects/Sec	non
udacity-db-instance-1-s	Reader instance	Aurora MySQL	us-west-1c	db.t2.small	Available	-	30.66%	2 Selects/Sec	non

Terraform Destroy:



```
│ There is no explicit declaration for local provider name "aws" in module.vpc_west, so Terraform is assuming you mean to pass a configuration for "hashicorp/aws".
│
│ If you also control the child module, add a required_providers entry named "aws" with the source address "hashicorp/aws".
│
│ (and one more similar warning elsewhere)
╵

Do you really want to destroy all resources?
  Terraform will destroy all your managed infrastructure, as shown above.
  There is no undo. Only 'yes' will be accepted to confirm.

  Enter a value: yes

module.vpc_west.aws_internet_gateway.this[0]: Destroying... [id=igw-01bafd637f8695599]
module.vpc_west.aws_internet_gateway.this[0]: Destruction complete after 2s
module.vpc_west.aws_vpc.this: Destroying... [id=vpc-0ccdcbcedeb629312]
module.vpc_west.aws_vpc.this: Still destroying... [id=vpc-0ccdcbcedeb629312, 10s elapsed]
module.vpc_west.aws_vpc.this: Still destroying... [id=vpc-0ccdcbcedeb629312, 20s elapsed]
module.vpc_west.aws_vpc.this: Still destroying... [id=vpc-0ccdcbcedeb629312, 30s elapsed]
module.vpc_west.aws_vpc.this: Still destroying... [id=vpc-0ccdcbcedeb629312, 40s elapsed]
module.vpc_west.aws_vpc.this: Still destroying... [id=vpc-0ccdcbcedeb629312, 50s elapsed]
module.vpc_west.aws_vpc.this: Still destroying... [id=vpc-0ccdcbcedeb629312, 1m0s elapsed]
module.vpc_west.aws_vpc.this: Still destroying... [id=vpc-0ccdcbcedeb629312, 1m10s elapsed]
module.vpc_west.aws_vpc.this: Still destroying... [id=vpc-0ccdcbcedeb629312, 1m20s elapsed]
module.vpc_west.aws_vpc.this: Still destroying... [id=vpc-0ccdcbcedeb629312, 1m30s elapsed]
module.vpc_west.aws_vpc.this: Destruction complete after 1m38s

Destroy complete! Resources: 2 destroyed.

Vinoth@Vinoth MINGW64 ~/Desktop/Udacity/08-SRE/02-HA_DR/Planning-for-High-Availability-and-Incident-Response/project/starter-code/zone1 (master)
$
```