

1, Running terraform for “zone 1”:

```
us-east-2

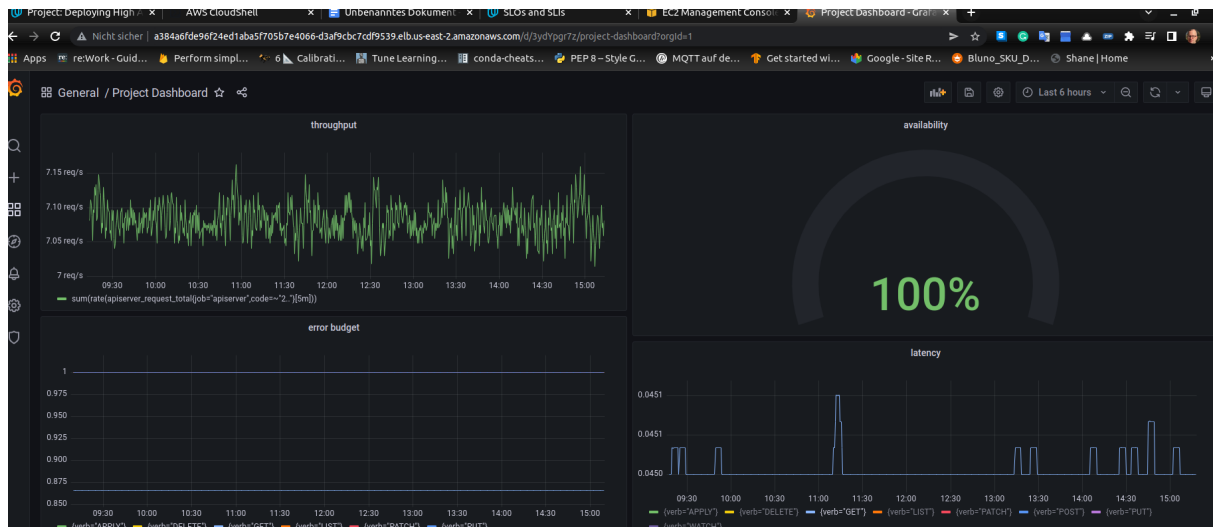
module.project_rds_p.aws_rds_cluster_instance.udacity_instance[0]: Creating...
module.project_rds_p.aws_rds_cluster_instance.udacity_instance[0]: Still creating... [10s elapsed]
module.project_rds_p.aws_rds_cluster_instance.udacity_instance[0]: Still creating... [20s elapsed]
module.project_rds_p.aws_rds_cluster_instance.udacity_instance[0]: Still creating... [30s elapsed]
module.project_rds_p.aws_rds_cluster_instance.udacity_instance[0]: Still creating... [40s elapsed]
module.project_rds_p.aws_rds_cluster_instance.udacity_instance[0]: Still creating... [50s elapsed]
module.project_rds_p.aws_rds_cluster_instance.udacity_instance[0]: Still creating... [1m0s elapsed]
module.project_rds_p.aws_rds_cluster_instance.udacity_instance[0]: Still creating... [1m10s elapsed]
module.project_rds_p.aws_rds_cluster_instance.udacity_instance[0]: Still creating... [1m20s elapsed]
module.project_rds_p.aws_rds_cluster_instance.udacity_instance[0]: Still creating... [1m30s elapsed]
module.project_rds_p.aws_rds_cluster_instance.udacity_instance[0]: Still creating... [1m40s elapsed]
module.project_rds_p.aws_rds_cluster_instance.udacity_instance[0]: Still creating... [1m50s elapsed]
module.project_rds_p.aws_rds_cluster_instance.udacity_instance[0]: Still creating... [2m0s elapsed]
module.project_rds_p.aws_rds_cluster_instance.udacity_instance[0]: Still creating... [2m10s elapsed]
module.project_rds_p.aws_rds_cluster_instance.udacity_instance[0]: Still creating... [2m20s elapsed]
module.project_rds_p.aws_rds_cluster_instance.udacity_instance[0]: Still creating... [2m30s elapsed]
module.project_rds_p.aws_rds_cluster_instance.udacity_instance[0]: Still creating... [2m40s elapsed]
module.project_rds_p.aws_rds_cluster_instance.udacity_instance[0]: Still creating... [2m50s elapsed]
module.project_rds_p.aws_rds_cluster_instance.udacity_instance[0]: Still creating... [3m0s elapsed]
module.project_rds_p.aws_rds_cluster_instance.udacity_instance[0]: Still creating... [3m10s elapsed]
module.project_rds_p.aws_rds_cluster_instance.udacity_instance[0]: Still creating... [3m20s elapsed]
module.project_rds_p.aws_rds_cluster_instance.udacity_instance[0]: Still creating... [3m30s elapsed]
module.project_rds_p.aws_rds_cluster_instance.udacity_instance[0]: Still creating... [3m40s elapsed]
module.project_rds_p.aws_rds_cluster_instance.udacity_instance[0]: Still creating... [3m50s elapsed]
module.project_rds_p.aws_rds_cluster_instance.udacity_instance[0]: Still creating... [4m0s elapsed]
module.project_rds_p.aws_rds_cluster_instance.udacity_instance[0]: Still creating... [4m10s elapsed]
module.project_rds_p.aws_rds_cluster_instance.udacity_instance[0]: Still creating... [4m20s elapsed]
module.project_rds_p.aws_rds_cluster_instance.udacity_instance[0]: Still creating... [4m30s elapsed]
module.project_rds_p.aws_rds_cluster_instance.udacity_instance[0]: Still creating... [4m40s elapsed]
module.project_rds_p.aws_rds_cluster_instance.udacity_instance[0]: Still creating... [4m50s elapsed]
module.project_rds_p.aws_rds_cluster_instance.udacity_instance[0]: Still creating... [5m0s elapsed]
module.project_rds_p.aws_rds_cluster_instance.udacity_instance[0]: Still creating... [5m10s elapsed]
module.project_rds_p.aws_rds_cluster_instance.udacity_instance[0]: Still creating... [5m20s elapsed]
module.project_rds_p.aws_rds_cluster_instance.udacity_instance[0]: Still creating... [5m30s elapsed]
module.project_rds_p.aws_rds_cluster_instance.udacity_instance[0]: Still creating... [5m40s elapsed]
module.project_rds_p.aws_rds_cluster_instance.udacity_instance[0]: Still creating... [5m50s elapsed]
module.project_rds_p.aws_rds_cluster_instance.udacity_instance[0]: Still creating... [6m0s elapsed]
module.project_rds_p.aws_rds_cluster_instance.udacity_instance[0]: Still creating... [6m10s elapsed]
module.project_rds_p.aws_rds_cluster_instance.udacity_instance[0]: Still creating... [6m20s elapsed]
module.project_rds_p.aws_rds_cluster_instance.udacity_instance[0]: Still creating... [6m30s elapsed]
module.project_rds_p.aws_rds_cluster_instance.udacity_instance[0]: Still creating... [6m40s elapsed]
module.project_rds_p.aws_rds_cluster_instance.udacity_instance[0]: Still creating... [6m50s elapsed]
module.project_rds_p.aws_rds_cluster_instance.udacity_instance[0]: Still creating... [7m0s elapsed]
module.project_rds_p.aws_rds_cluster_instance.udacity_instance[0]: Still creating... [7m10s elapsed]
module.project_rds_p.aws_rds_cluster_instance.udacity_instance[0]: Creation complete after 7m17s [id=udacity-db-instance-0]

Apply complete! Resources: 13 added, 3 changed, 4 destroyed.

Outputs:

account_id = "748063297393"
caller_arn = "arn:aws:iam::748063297393:user/udacity_user"
caller_user = "AIDA24LAMB5Y3A3WAG4TB"
private_subnet_ids = [
  "subnet-063d0ff422cab07e1",
  "subnet-0d4fe566bc8f7d941",
]
public_subnet_ids = [
  "subnet-056429579bc194890",
  "subnet-0018e64b3cc0d8afa",
]
vpc_id = "vpc-07b9c752aa57822bb"
[cloudshell-user@ip-10-0-43-254 zone1]$
```

2. Grafana screenshot:



3. Running terraform for zone2:

```
+ maintenance_options {
+   auto_recovery = (known after apply)
+ }

+ metadata_options {
+   http_endpoint           = (known after apply)
+   http_put_response_hop_limit = (known after apply)
+   http_tokens             = (known after apply)
+   instance_metadata_tags   = (known after apply)
+ }

+ network_interface {
+   delete_on_termination = (known after apply)
+   device_index          = (known after apply)
+   network_card_index    = (known after apply)
+   network_interface_id  = (known after apply)
+ }

+ root_block_device {
+   delete_on_termination = (known after apply)
+   device_name           = (known after apply)
+   encrypted              = (known after apply)
+   iops                   = (known after apply)
+   kms_key_id             = (known after apply)
+   tags                   = (known after apply)
+   throughput             = (known after apply)
+   volume_id              = (known after apply)
+   volume_size            = (known after apply)
+   volume_type            = (known after apply)
+ }
}

Plan: 5 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

module.project_ec2.aws_instance.ubuntu[0]: Creating...
module.project_ec2.aws_instance.ubuntu[2]: Creating...
module.project_ec2.aws_instance.ubuntu[1]: Creating...
module.project_ec2.aws_instance.ubuntu[0]: Still creating... [10s elapsed]
module.project_ec2.aws_instance.ubuntu[2]: Still creating... [10s elapsed]
module.project_ec2.aws_instance.ubuntu[1]: Still creating... [10s elapsed]
module.project_ec2.aws_instance.ubuntu[0]: Creation complete after 12s [id=i-0b390bd6cc34660e1]
module.project_ec2.aws_instance.ubuntu[2]: Creation complete after 12s [id=i-0ae87c5aea5102ac6]
module.project_ec2.aws_instance.ubuntu[1]: Creation complete after 12s [id=i-02a68e81a596a2e4e]
module.project_alb.aws_lb_target_group_attachment.udacity[0]: Creating...
module.project_alb.aws_lb_target_group_attachment.udacity[1]: Creation complete after 1s [id=arn:aws:elasticloadbalancing:us-west-1:748063297393:targetgroup/udacity-lb-tg/6eb03a49de94813b-20220601190325658800000001]
module.project_alb.aws_lb_target_group_attachment.udacity[0]: Creation complete after 1s [id=arn:aws:elasticloadbalancing:us-west-1:748063297393:targetgroup/udacity-lb-tg/6eb03a49de94813b-20220601190325704500000002]

Apply complete! Resources: 5 added, 0 changed, 0 destroyed.

Outputs:
account_id = "748063297393"
caller_arn = "arn:aws:iam::748063297393:user/udacity_user"
caller_user = "AIDA24LAMBSY3A3WAG4TB"
```

4. DB HA deployment (AWS console snapshot, the AWS CloudShell was running into a timeout):

Databases

Group resources

Modify

Actions

Restore from S3

Create database

Filter by databases

	DB identifier	Role	Engine	Region & AZ	Size	Status	CPU	Current activity	Maintena
	udacity-db-cluster-s	Replica cluster	Aurora MySQL	us-west-1	2 Instances	Available	-		next wind
	udacity-db-instance-1-s	Writer Instance	Aurora MySQL	us-west-1a	db.t2.small	Available	14.58%	2 Selects/Sec	none
	udacity-db-instance-0-s	Reader Instance	Aurora MySQL	us-west-1b	db.t2.small	Available	13.83%	2 Selects/Sec	none

RDS > Databases

Databases

Group resources

Modify

Actions

Restore from S3

Create database

Filter by databases

	DB identifier	Role	Engine	Region & AZ	Size	Status	CPU	Current activity	Maintena
	udacity-db-cluster	Regional cluster	Aurora MySQL	us-east-2	1 Instance	Available	-		none
	udacity-db-instance-0	Writer Instance	Aurora MySQL	us-east-2a	db.t2.small	Available	13.28%	2 Selects/Sec	none

5. Delete zone1:

us-east-2

[illegible]

Destroy complete! Resources: 6 destroyed.

```
[cloudshell-user@ip-10-0-173-88 zone1]$
```

6. Delete zone2: I am running in the same issue like:
<https://knowledge.udacity.com/questions/793669>

```
AWS CloudShell

us-east-2

Error: Unsupported attribute
on alb.tf line 6, in module "project_alb":
6:   vpc_id = data.terraform_remote_state.vpc.outputs.vpc_id
    data.terraform_remote_state.vpc.outputs is object with no attributes
This object does not have an attribute named "vpc_id".

Error: Unsupported attribute
on ec2.tf line 16, in module "project_ec2":
16:   private_subnet_ids = data.terraform_remote_state.vpc.outputs.private_subnet_ids
    data.terraform_remote_state.vpc.outputs is object with no attributes
This object does not have an attribute named "private_subnet_ids".

Error: Unsupported attribute
on ec2.tf line 17, in module "project_ec2":
17:   public_subnet_ids = data.terraform_remote_state.vpc.outputs.public_subnet_ids
    data.terraform_remote_state.vpc.outputs is object with no attributes
This object does not have an attribute named "public_subnet_ids".

Error: Unsupported attribute
on ec2.tf line 18, in module "project_ec2":
18:   vpc_id = data.terraform_remote_state.vpc.outputs.vpc_id
    data.terraform_remote_state.vpc.outputs is object with no attributes
This object does not have an attribute named "vpc_id".

Error: Unsupported attribute
on eks.tf line 20, in module "project_eks":
20:   private_subnet_ids = data.terraform_remote_state.vpc.outputs.private_subnet_ids
    data.terraform_remote_state.vpc.outputs is object with no attributes
This object does not have an attribute named "private_subnet_ids".

Error: Unsupported attribute
on eks.tf line 22, in module "project_eks":
22:   vpc_id = data.terraform_remote_state.vpc.outputs.vpc_id
    data.terraform_remote_state.vpc.outputs is object with no attributes
This object does not have an attribute named "vpc_id".

[ccloudshell-user@ip-10-0-173-88 zone2]$
```

I removed the assets manually.