

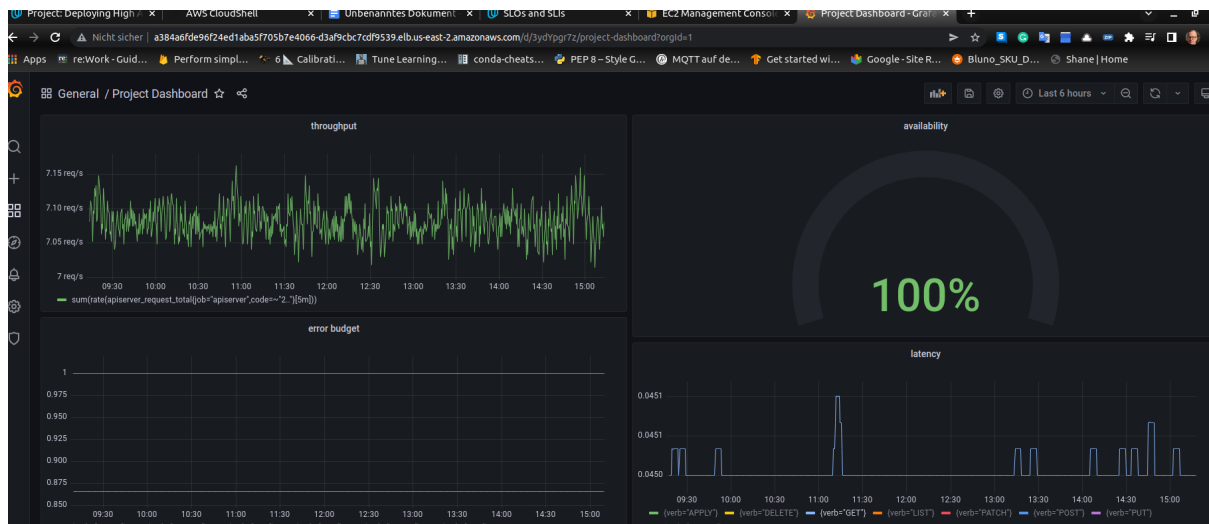
1. Running terraform for “zone 1”:

```
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-0018e4b3cc0d8afa",
]
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-0b390bd6ca3d660e1]
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[1]: Creating...
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-1:748863297393:targetgroup/udacity-lb-tg/6eb01a49de94813b-2022060119032550800000001]
module.project_alb.aws_lb_target_group_attachment.udacity[0]: Creation complete after 1s [id=arn:aws:elasticloadbalancing:us-west-1:748863297393:targetgroup/udacity-lb-tg/6eb01a49de94813b-2022060119032570450000002]

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

Outputs:
account_id = "748863297393"
caller_arn = "arn:aws:iam::748863297393:user/udacity_user"
caller_user = "AIDA24LAMBSY3A3WAG4TB..."
```

4. DB HA deployment:

4.1. Zone 1:

```
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[1]: Creation complete after 6m39s [id=udacity-db-instance-0]
module.project_rds_p.aws_rds_cluster_instance.udacity_instance[1]: Modifying... [id=udacity-db-cluster-s]
module.project_rds_p.aws_rds_cluster_instance.udacity_instance[1]: Still creating... [6m40s elapsed]
module.project_rds_p.aws_rds_cluster_instance.udacity_instance[1]: Modifications complete after 1s [id=udacity-db-cluster-s]
module.project_rds_p.aws_rds_cluster_instance.udacity_instance[1]: Still creating... [6m50s elapsed]
module.project_rds_p.aws_rds_cluster_instance.udacity_instance[1]: Still creating... [7m0s elapsed]
module.project_rds_p.aws_rds_cluster_instance.udacity_instance[1]: Still creating... [7m10s elapsed]
module.project_rds_p.aws_rds_cluster_instance.udacity_instance[1]: Still creating... [7m20s elapsed]
module.project_rds_p.aws_rds_cluster_instance.udacity_instance[1]: Still creating... [7m30s elapsed]
module.project_rds_p.aws_rds_cluster_instance.udacity_instance[1]: Still creating... [7m40s elapsed]
module.project_rds_p.aws_rds_cluster_instance.udacity_instance[1]: Still creating... [7m50s elapsed]
module.project_rds_p.aws_rds_cluster_instance.udacity_instance[1]: Still creating... [8m0s elapsed]
module.project_rds_p.aws_rds_cluster_instance.udacity_instance[1]: Still creating... [8m10s elapsed]
module.project_rds_p.aws_rds_cluster_instance.udacity_instance[1]: Still creating... [8m20s elapsed]
module.project_rds_p.aws_rds_cluster_instance.udacity_instance[1]: Still creating... [8m30s elapsed]
module.project_rds_p.aws_rds_cluster_instance.udacity_instance[1]: Still creating... [8m40s elapsed]
module.project_rds_p.aws_rds_cluster_instance.udacity_instance[1]: Still creating... [8m50s elapsed]
module.project_rds_p.aws_rds_cluster_instance.udacity_instance[1]: Still creating... [9m0s elapsed]
module.project_rds_p.aws_rds_cluster_instance.udacity_instance[1]: Still creating... [9m10s elapsed]
module.project_rds_p.aws_rds_cluster_instance.udacity_instance[1]: Still creating... [9m20s elapsed]
module.project_rds_p.aws_rds_cluster_instance.udacity_instance[1]: Still creating... [9m30s elapsed]
module.project_rds_p.aws_rds_cluster_instance.udacity_instance[1]: Still creating... [9m40s elapsed]
module.project_rds_p.aws_rds_cluster_instance.udacity_instance[1]: Still creating... [9m50s elapsed]
module.project_rds_p.aws_rds_cluster_instance.udacity_instance[1]: Still creating... [10m0s elapsed]
module.project_rds_p.aws_rds_cluster_instance.udacity_instance[1]: Still creating... [10m10s elapsed]
module.project_rds_p.aws_rds_cluster_instance.udacity_instance[1]: Still creating... [10m20s elapsed]
module.project_rds_p.aws_rds_cluster_instance.udacity_instance[1]: Still creating... [10m30s elapsed]
module.project_rds_p.aws_rds_cluster_instance.udacity_instance[1]: Still creating... [10m40s elapsed]
module.project_rds_p.aws_rds_cluster_instance.udacity_instance[1]: Still creating... [10m50s elapsed]
module.project_rds_p.aws_rds_cluster_instance.udacity_instance[1]: Still creating... [11m0s elapsed]
module.project_rds_p.aws_rds_cluster_instance.udacity_instance[1]: Still creating... [11m10s elapsed]
module.project_rds_p.aws_rds_cluster_instance.udacity_instance[1]: Still creating... [11m20s elapsed]
module.project_rds_p.aws_rds_cluster_instance.udacity_instance[1]: Still creating... [11m30s elapsed]
module.project_rds_p.aws_rds_cluster_instance.udacity_instance[1]: Still creating... [11m40s elapsed]
module.project_rds_p.aws_rds_cluster_instance.udacity_instance[1]: Still creating... [11m50s elapsed]
module.project_rds_p.aws_rds_cluster_instance.udacity_instance[1]: Still creating... [12m0s elapsed]
module.project_rds_p.aws_rds_cluster_instance.udacity_instance[1]: Still creating... [12m10s elapsed]
30 module.project_rds_p.aws_rds_cluster_instance.udacity_instance[1]: Still creating... [12m20s elapsed]
module.project_rds_p.aws_rds_cluster_instance.udacity_instance[1]: Still creating... [12m30s elapsed]
module.project_rds_p.aws_rds_cluster_instance.udacity_instance[1]: Still creating... [12m40s elapsed]
module.project_rds_p.aws_rds_cluster_instance.udacity_instance[1]: Creation complete after 12m48s [id=udacity-db-instance-1]
34
35
Apply complete! Resources: 3 added, 1 changed, 2 destroyed.
37
Outputs:
39
account_id = "748063297393"
caller_arn = "arn:aws:iam::748063297393:user/udacity_user"
caller_user = "AIDA24LAMBSY3A3WAG4TB"
private_subnet_ids = [
  4"subnet-odd7f8364fad0a6aa",
  4"subnet-0a4b053874f614bd",
]46
public_subnet_ids = [
  4"subnet-04982f10ee2338c69",
  4"subnet-069e8eb8746c7e39e",
]
vpc_id = "vpc-0583f3d60c5aa77ca"
Alle suchen ☐ Formatierte Anzeige ☐ Groß- und Kleinschreibung beachten
```

Amazon RDS

Dashboard

Databases

Query Editor

Performance Insights

Snapshots

Automated backups

Reserved instances

Proxies

Subnet groups

Parameter groups

Option groups

RDS > Databases

Databases

Filter by databases

Group resources

Modify

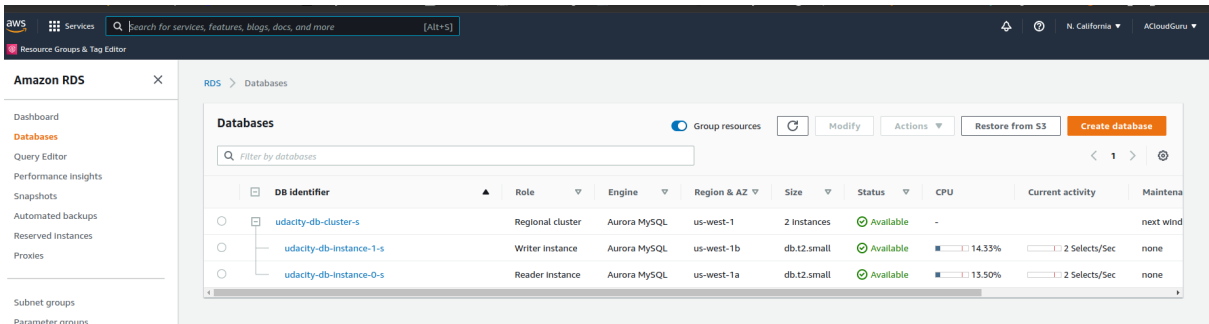
Actions

Restore from S3

Create database

	DB identifier	Role	Engine	Region & AZ	Size	Status	CPU	Current activity	Maintenance
	udacity-db-cluster	Regional cluster	Aurora MySQL	us-east-2	2 instances	Available	-		none
	udacity-db-instance-0	Writer instance	Aurora MySQL	us-east-2b	db.t2.small	Available	23.83%	0 Selects/Sec	none
	udacity-db-instance-1	Reader instance	Aurora MySQL	us-east-2c	db.t2.small	Creating	-		none

4.2. Zone 2:



5. Delete zone1:

[illegible]

```
Destroy complete! Resources: 6 destroyed.
[cloudshell-user@ip-10-0-173-88 zone1]$
```

6. Delete zone2:

Plan: 0 to add, 0 to change, 12 to destroy.

Changes to Outputs:

```
account_id = "748063297393" -> null
caller_arn = "arn:aws:iam::748063297393:user/udacity_user" -> null
caller_user = "AIDA24LAMB5Y3A3WAG4TB" -> null
```

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

```
kubernetes_namespace.udacity: Destroying... [id=udacity]
kubernetes_service.grafana-external: Destroying... [id=monitoring/grafana-external]
module.project_alb.aws_lb_target_group.udacity: Destroying... [id=arn:aws:elasticloadbalancing:us-west-1:748063297393:targetgroup/udacity-lb-tg/6eb03a49de94813b]
module.vpc.aws_eip.nat[0]: Destroying... [id=eipalloc-075d009ec9c29ba64]
module.project_alb.aws_lb_target_group.udacity: Destruction complete after 1s
module.vpc.aws_eip.nat[0]: Destruction complete after 1s
kubernetes_service.grafana-external: Destruction complete after 4s
kubernetes_namespace.udacity: Destruction complete after 8s
module.project_eks.aws_iam_role_policy_attachment.node_AmazonEKSWorkerNodePolicy: Destroying... [id=app-udacity-eks-node-role-20220601183721853400000008]
module.project_eks.aws_iam_role_policy_attachment.cluster_AmazonEKSServicePolicy: Destroying... [id=app-udacity-eks-cluster-role-20220601183721734700000001]
module.project_eks.aws_iam_role_policy_attachment.node_harmony_policy_attachment: Destroying... [id=app-udacity-eks-node-role-20220601183721841300000005]
module.project_eks.aws_iam_role_policy_attachment.node_AmazonEKS_CNI_Policy: Destroying... [id=app-udacity-eks-node-role-20220601183721842000000006]
module.project_eks.aws_iam_role_policy_attachment.node_CloudWatchAgentServerPolicy: Destroying... [id=app-udacity-eks-node-role-20220601183721846500000007]
module.project_eks.aws_iam_role_policy_attachment.cluster_AmazonEKSCloudwatchPolicy: Destroying... [id=app-udacity-eks-node-role-20220601183721736300000003]
module.project_eks.aws_iam_role_policy_attachment.cluster_AmazonEKSClusterPolicy: Destroying... [id=app-udacity-eks-cluster-role-20220601183721736600000004]
module.project_eks.aws_iam_role_policy_attachment.node_AmazonEC2ContainerRegistryReadOnly: Destroying... [id=app-udacity-eks-node-role-20220601183721735100000002]
module.project_eks.aws_iam_role_policy_attachment.node_AmazonEKSWorkerNodePolicy: Destruction complete after 0s
module.project_eks.aws_iam_role_policy_attachment.cluster_AmazonEKSCloudwatchPolicy: Destruction complete after 0s
module.project_eks.aws_iam_role_policy_attachment.node_AmazonEKS_CNI_Policy: Destruction complete after 0s
module.project_eks.aws_iam_role_policy_attachment.node_harmony_policy_attachment: Destruction complete after 0s
module.project_eks.aws_iam_role_policy_attachment.cluster_AmazonEKSClusterPolicy: Destruction complete after 0s
module.project_eks.aws_iam_role_policy_attachment.cluster_AmazonEKSServicePolicy: Destruction complete after 0s
module.project_eks.aws_iam_role_policy_attachment.node_CloudWatchAgentServerPolicy: Destruction complete after 0s
```

Destroy complete! Resources: 12 destroyed.

[cloudshell-user@ip-10-0-111-22 zone2]\$