

us-east-2:

```
Outputs:

account_id = "850748373480"
caller_arn = "arn:aws:iam::850748373480:user/mluc"
caller_user = "AIDA4MFEN7HUHUOKKWFQP"
west_private_subnet_ids = [
  "subnet-05e082272f8e6e8d7",
  "subnet-0e1b3c8ee044ad2f6",
]
west_public_subnet_ids = [
  "subnet-0d7ba92ea93a00fcd",
  "subnet-0b02b5d81294b29f9",
]
west_vpc_id = "vpc-065dd28d107659baf"
```

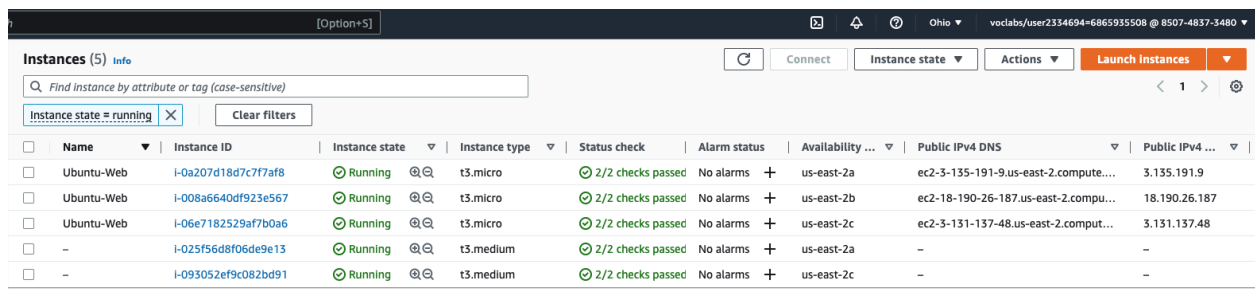
...

```
zone1 myluc$ terraform state list
data.aws_ami.amazon_linux_2
data.aws_caller_identity.current
data.aws_eks_cluster.cluster
data.aws_eks_cluster_auth.cluster
kubernetes_namespace.udacity
kubernetes_service.grafana-external
module.project_alb.aws_lb.udacity
module.project_alb.aws_lb_listener.udacity
module.project_alb.aws_lb_target_group.udacity
module.project_alb.aws_lb_target_group_attachment.udacity[0]
module.project_alb.aws_lb_target_group_attachment.udacity[1]
module.project_ec2.aws_instance.ubuntu[0]
module.project_ec2.aws_instance.ubuntu[1]
module.project_ec2.aws_instance.ubuntu[2]
module.project_ec2.aws_security_group.ec2_sg
module.project_eks.data.aws_iam_policy_document.eks_assume_role_policy
module.project_eks.data.aws_iam_policy_document.eks_node_assume_role_policy
module.project_eks.aws_eks_cluster.cluster
module.project_eks.aws_eks_node_group.node
module.project_eks.aws_iam_policy.eks_cluster_role_cloudwatch_policy
module.project_eks.aws_iam_policy.eks_node_instance_policy
module.project_eks.aws_iam_role.eks_cluster_role
module.project_eks.aws_iam_role.eks_node_cluster_role
module.project_eks.aws_iam_role_policy_attachment.cluster_AmazonEKSCloudwatchPolicy
module.project_eks.aws_iam_role_policy_attachment.cluster_AmazonEKSClusterPolicy
module.project_eks.aws_iam_role_policy_attachment.cluster_AmazonEKSServicePolicy
module.project_eks.aws_iam_role_policy_attachment.node_AmazonEC2ContainerRegistryReadOnly
module.project_eks.aws_iam_role_policy_attachment.node_AmazonEKSWorkerNodePolicy
module.project_eks.aws_iam_role_policy_attachment.node_AmazonEKS_CNI_Policy
module.project_eks.aws_iam_role_policy_attachment.node_CloudWatchAgentServerPolicy
module.project_eks.aws_iam_role_policy_attachment.node_harmony_policy_attachment
module.project_eks.aws_security_group.eks-cluster
```

```
module.project_rds_p.aws_db_subnet_group.udacity_db_subnet_group
module.project_rds_p.aws_rds_cluster.udacity_cluster
module.project_rds_p.aws_rds_cluster_instance.udacity_instance[0]
module.project_rds_p.aws_rds_cluster_instance.udacity_instance[1]
module.project_rds_p.aws_rds_cluster_parameter_group.cluster_pg
module.project_rds_p.aws_security_group.db_sg_1
module.project_rds_s.aws_db_subnet_group.udacity_db_subnet_group
module.project_rds_s.aws_rds_cluster.udacity_cluster-s
module.project_rds_s.aws_rds_cluster_instance.udacity_instance-s[0]
module.project_rds_s.aws_rds_cluster_instance.udacity_instance-s[1]
module.project_rds_s.aws_rds_cluster_parameter_group.cluster_pg-s
module.project_rds_s.aws_security_group.db_sg_2
module.vpc.aws_eip.nat[0]
module.vpc.aws_internet_gateway.this[0]
module.vpc.aws_nat_gateway.this[0]
module.vpc.aws_route.private_nat_gateway[0]
module.vpc.aws_route.private_nat_gateway[1]
module.vpc.aws_route.private_nat_gateway[2]
module.vpc.aws_route.public_internet_gateway[0]
module.vpc.aws_route.public_internet_gateway[1]
module.vpc.aws_route.public_internet_gateway[2]
module.vpc.aws_route_table.private[0]
module.vpc.aws_route_table.private[1]
module.vpc.aws_route_table.private[2]
module.vpc.aws_route_table.public[0]
module.vpc.aws_route_table_association.private[0]
module.vpc.aws_route_table_association.private[1]
module.vpc.aws_route_table_association.private[2]
module.vpc.aws_route_table_association.public[0]
module.vpc.aws_route_table_association.public[1]
module.vpc.aws_route_table_association.public[2]
module.vpc.aws_subnet.private[0]
module.vpc.aws_subnet.private[1]
module.vpc.aws_subnet.private[2]
module.vpc.aws_subnet.public[0]
module.vpc.aws_subnet.public[1]
module.vpc.aws_subnet.public[2]
module.vpc.aws_vpc.this
module.vpc_west.aws_eip.nat[0]
module.vpc_west.aws_internet_gateway.this[0]
module.vpc_west.aws_nat_gateway.this[0]
module.vpc_west.aws_route.private_nat_gateway[0]
module.vpc_west.aws_route.private_nat_gateway[1]
module.vpc_west.aws_route.public_internet_gateway[0]
module.vpc_west.aws_route.public_internet_gateway[1]
module.vpc_west.aws_route_table.private[0]
module.vpc_west.aws_route_table.private[1]
module.vpc_west.aws_route_table.public[0]
module.vpc_west.aws_route_table_association.private[0]
module.vpc_west.aws_route_table_association.private[1]
module.vpc_west.aws_route_table_association.public[0]
module.vpc_west.aws_route_table_association.public[1]
module.vpc_west.aws_subnet.private[0]
module.vpc_west.aws_subnet.private[1]
module.vpc_west.aws_subnet.public[0]
module.vpc_west.aws_subnet.public[1]
module.vpc_west.aws_vpc.this
```
```

3 EC2 instances of the Ubuntu-Web VM

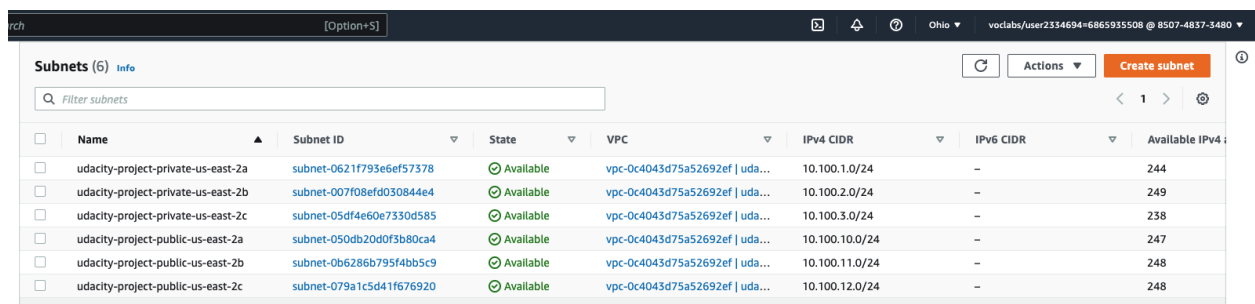
2 EKS nodes for the udacity-cluster EKS cluster



The screenshot shows the AWS Management Console 'Instances' page. It displays a list of 5 EC2 instances. The first three are 'Ubuntu-Web' instances in the 'us-east-2a' availability zone, and the last two are in 'us-east-2c'. All instances are in a 'Running' state with '2/2 checks passed'.

| Name       | Instance ID         | Instance state | Instance type | Status check      | Alarm status | Availability zone | Public IPv4 DNS                      | Public IPv4 ... |
|------------|---------------------|----------------|---------------|-------------------|--------------|-------------------|--------------------------------------|-----------------|
| Ubuntu-Web | i-0a207d18d7c7f7af8 | Running        | t3.micro      | 2/2 checks passed | No alarms    | us-east-2a        | ec2-3-135-191-9.us-east-2.compute... | 3.135.191.9     |
| Ubuntu-Web | i-008a6640df923e567 | Running        | t3.micro      | 2/2 checks passed | No alarms    | us-east-2b        | ec2-18-190-26-187.us-east-2.compu... | 18.190.26.187   |
| Ubuntu-Web | i-06e7182529af7b0a6 | Running        | t3.micro      | 2/2 checks passed | No alarms    | us-east-2c        | ec2-3-131-137-48.us-east-2.comput... | 3.131.137.48    |
| -          | i-025f56d8f06de9e13 | Running        | t3.medium     | 2/2 checks passed | No alarms    | us-east-2a        | -                                    | -               |
| -          | i-093052ef9c082bd91 | Running        | t3.medium     | 2/2 checks passed | No alarms    | us-east-2c        | -                                    | -               |

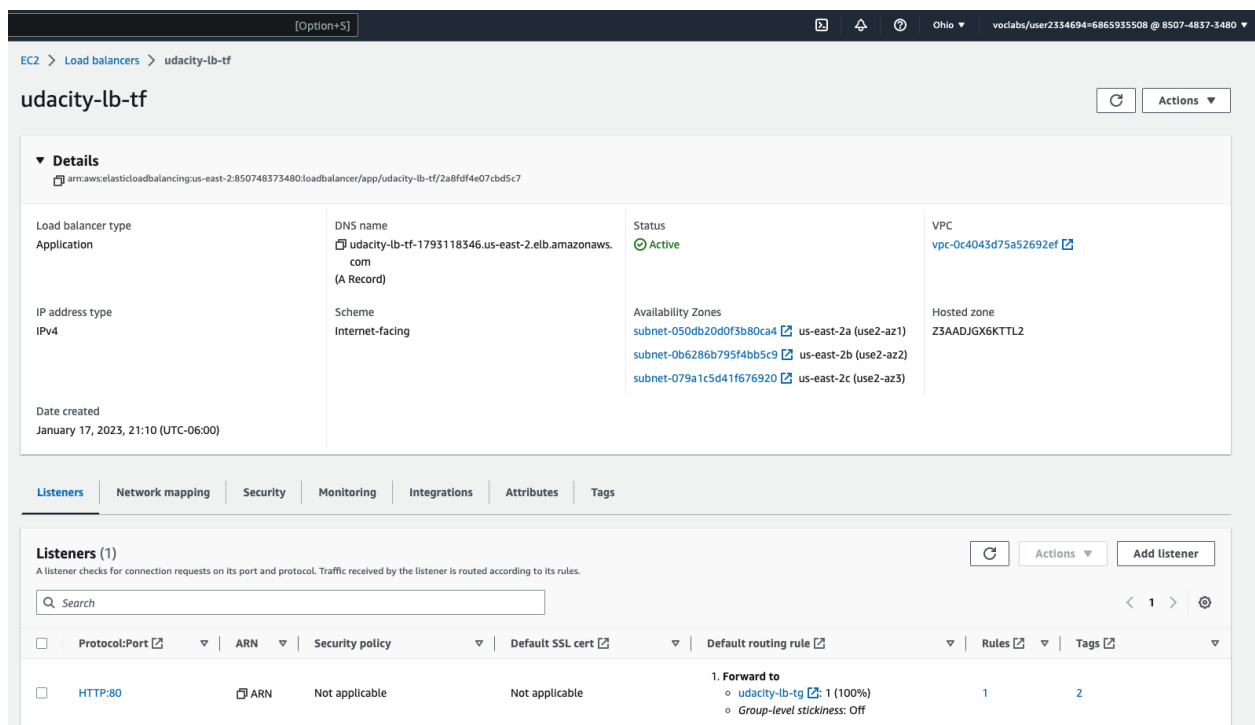
The VPC has IPs in multiple availability zones



The screenshot shows the AWS Management Console 'Subnets' page. It displays a list of 6 subnets across three availability zones (us-east-2a, us-east-2b, us-east-2c). All subnets are in an 'Available' state and belong to the 'vpc-0c4043d75a52692ef' VPC.

| Name                               | Subnet ID                | State     | VPC                            | IPv4 CIDR      | IPv6 CIDR | Available IPv4 |
|------------------------------------|--------------------------|-----------|--------------------------------|----------------|-----------|----------------|
| udacity-project-private-us-east-2a | subnet-0621f793e6ef57378 | Available | vpc-0c4043d75a52692ef   uda... | 10.100.1.0/24  | -         | 244            |
| udacity-project-private-us-east-2b | subnet-007f08efd030844e4 | Available | vpc-0c4043d75a52692ef   uda... | 10.100.2.0/24  | -         | 249            |
| udacity-project-private-us-east-2c | subnet-05df4e60e7330d585 | Available | vpc-0c4043d75a52692ef   uda... | 10.100.3.0/24  | -         | 238            |
| udacity-project-public-us-east-2a  | subnet-050db20d0f3b80ca4 | Available | vpc-0c4043d75a52692ef   uda... | 10.100.10.0/24 | -         | 247            |
| udacity-project-public-us-east-2b  | subnet-0b6286b795f4bb5c9 | Available | vpc-0c4043d75a52692ef   uda... | 10.100.11.0/24 | -         | 248            |
| udacity-project-public-us-east-2c  | subnet-079a1c5d41f676920 | Available | vpc-0c4043d75a52692ef   uda... | 10.100.12.0/24 | -         | 248            |

ALB (application load balancer) module was added to the modules folder under the zone1 folder. This will deploy a load balancer for the Ubuntu-Web VM group that they will deploy



The screenshot shows the AWS Management Console 'Load balancers' page for 'udacity-lb-tf'. It displays the details of the load balancer, including its type (Application), DNS name, status (Active), and VPC. Below the details, there is a section for 'Listeners' showing a single listener for HTTP:80.

| Load balancer type | DNS name                                                        | Status | VPC                   |
|--------------------|-----------------------------------------------------------------|--------|-----------------------|
| Application        | udacity-lb-tf-1793118346.us-east-2.elb.amazonaws.com (A Record) | Active | vpc-0c4043d75a52692ef |

| Protocol:Port | ARN | Security policy | Default SSL cert | Default routing rule                                                 | Rules | Tags |
|---------------|-----|-----------------|------------------|----------------------------------------------------------------------|-------|------|
| HTTP:80       | ARN | Not applicable  | Not applicable   | 1. Forward to<br>udacity-lb-tg (100%)<br>Group-level stickiness: Off | 1     | 2    |

EC2 > Target groups > udacity-lb-tg

## udacity-lb-tg Actions ▾

**Details**

arn:aws:elasticloadbalancing:us-east-2:850748373480:targetgroup/udacity-lb-tg/09313ca5581c2233

|                         |                                                |                           |                                              |
|-------------------------|------------------------------------------------|---------------------------|----------------------------------------------|
| Target type<br>Instance | Protocol : Port<br>HTTP: 80                    | Protocol version<br>HTTP1 | VPC<br><a href="#">vpc-0c4043d75a52692ef</a> |
| IP address type<br>IPv4 | Load balancer<br><a href="#">udacity-lb-tf</a> |                           |                                              |

|               |                |                  |               |                |                 |
|---------------|----------------|------------------|---------------|----------------|-----------------|
| Total targets | Healthy<br>🟢 0 | Unhealthy<br>🔴 2 | Unused<br>🔴 0 | Initial<br>🕒 0 | Draining<br>🕒 0 |
|---------------|----------------|------------------|---------------|----------------|-----------------|

**Targets** | Monitoring | Health checks | Attributes | Tags

**Registered targets (2)** 🔄 Deregister Register targets

🔍 Filter resources by property or value

| <input type="checkbox"/> | Instance ID ▾                       | Name ▾     | Port ▾ | Zone ▾     | Health status ▾ | Health status details                        |
|--------------------------|-------------------------------------|------------|--------|------------|-----------------|----------------------------------------------|
| <input type="checkbox"/> | <a href="#">i-0a207d18d7c7f7af8</a> | Ubuntu-Web | 80     | us-east-2a | 🔴 unhealthy     | Health checks failed with these codes: [401] |
| <input type="checkbox"/> | <a href="#">i-008a6640df923e567</a> | Ubuntu-Web | 80     | us-east-2b | 🔴 unhealthy     | Health checks failed with these codes: [401] |

\*\*\*\*\*

Us-west-2:

```

Outputs:

account_id = "850748373480"
caller_arn = "arn:aws:iam::850748373480:user/mluc"
caller_user = "AIDA4MFEN7HUHUOKKWFQP"
Roberts-MBP-2-538:zone2 myluc$

```

...

```

zone2 myluc$ terraform state list
data.aws_ami.amazon_linux_2
data.aws_caller_identity.current
data.aws_eks_cluster.cluster
data.aws_eks_cluster_auth.cluster
data.aws_iam_policy.cloudwatch-policy
data.aws_iam_policy.instance-policy
data.aws_iam_role.eks_cluster_role
data.aws_iam_role.eks_node_role
data.terraform_remote_state.vpc
kubernetes_namespace.udacity
kubernetes_service.grafana-external
module.project_alb.aws_lb.udacity
module.project_alb.aws_lb_listener.udacity
module.project_alb.aws_lb_target_group.udacity
module.project_alb.aws_lb_target_group_attachment.udacity[0]
module.project_alb.aws_lb_target_group_attachment.udacity[1]

```

```

module.project_ec2.aws_instance.ubuntu[0]
module.project_ec2.aws_instance.ubuntu[1]
module.project_ec2.aws_instance.ubuntu[2]
module.project_ec2.aws_security_group.ec2_sg
module.project_eks.data.aws_iam_policy_document.eks_assume_role_policy
module.project_eks.data.aws_iam_policy_document.eks_node_assume_role_policy
module.project_eks.aws_eks_cluster.cluster
module.project_eks.aws_eks_node_group.node
module.project_eks.aws_iam_role_policy_attachment.cluster_AmazonEKSCloudwatchPolicy
module.project_eks.aws_iam_role_policy_attachment.cluster_AmazonEKSClusterPolicy
module.project_eks.aws_iam_role_policy_attachment.cluster_AmazonEKSServicePolicy
module.project_eks.aws_iam_role_policy_attachment.node_AmazonEC2ContainerRegistryReadOnly
module.project_eks.aws_iam_role_policy_attachment.node_AmazonEKSWorkerNodePolicy
module.project_eks.aws_iam_role_policy_attachment.node_AmazonEKS_CNI_Policy
module.project_eks.aws_iam_role_policy_attachment.node_CloudWatchAgentServerPolicy
module.project_eks.aws_iam_role_policy_attachment.node_harmony_policy_attachment
module.project_eks.aws_security_group.eks-cluster

```

...

### 3 EC2 instances of the Ubuntu-Web VM

| Name       | Instance ID         | Instance state | Instance type | Status check      | Alarm status | Availability Zone | Public IPv4 DNS          | Public IPv4 ... | Elastic IP |
|------------|---------------------|----------------|---------------|-------------------|--------------|-------------------|--------------------------|-----------------|------------|
| Ubuntu-Web | i-01d8813a0d211d45b | Running        | t3.micro      | 2/2 checks passed | No alarms    | us-west-1b        | ec2-13-56-168-127.us-... | 13.56.168.127   | -          |
| Ubuntu-Web | i-02710f9310024db10 | Running        | t3.micro      | 2/2 checks passed | No alarms    | us-west-1b        | ec2-54-177-171-188.us... | 54.177.171.188  | -          |
| Ubuntu-Web | i-0fc6c6e19a73c4c39 | Running        | t3.micro      | 2/2 checks passed | No alarms    | us-west-1b        | ec2-13-57-183-89.us-w... | 13.57.183.89    | -          |

### 2 EKS nodes for the udacity-cluster EKS cluster

| Name | Instance ID         | Instance state | Instance type | Status check      | Alarm status | Availability Zone | Public IPv4 DNS | Public IPv4 ... | Elastic IP |
|------|---------------------|----------------|---------------|-------------------|--------------|-------------------|-----------------|-----------------|------------|
| -    | i-0997540749c285b1e | Running        | t3.medium     | 2/2 checks passed | No alarms    | us-west-1c        | -               | -               | -          |
| -    | i-0cdd6dfca68cae25  | Running        | t3.medium     | 2/2 checks passed | No alarms    | us-west-1b        | -               | -               | -          |

Multiple availability zones (students will need to add availability zones to VPC)

| Name                               | Subnet ID                | State     | VPC                                     | IPv4 CIDR      | IPv6 CIDR |
|------------------------------------|--------------------------|-----------|-----------------------------------------|----------------|-----------|
| udacity-project-private-us-west-1b | subnet-05e082272f8e6e8d7 | Available | vpc-065dd28d107659baf   udacity-project | 10.100.1.0/24  | -         |
| udacity-project-private-us-west-1c | subnet-0e1b3c8ee044ad2f6 | Available | vpc-065dd28d107659baf   udacity-project | 10.100.2.0/24  | -         |
| udacity-project-public-us-west-1b  | subnet-0d7ba92ea93a00fcd | Available | vpc-065dd28d107659baf   udacity-project | 10.100.10.0/24 | -         |
| udacity-project-public-us-west-1c  | subnet-0b02b5d81294b29f9 | Available | vpc-065dd28d107659baf   udacity-project | 10.100.11.0/24 | -         |

ALB module was added to the modules folder under the zone1 and zone2 folder. This will deploy a load balancer for the Ubuntu-Web VM group that students will deploy

EC2 > Load balancers > udacity-lb-tf

udacity-lb-tf

Actions

▼ Details

arn:aws:elasticloadbalancing:us-west-1:850748373480:loadbalancer/app/udacity-lb-tf/3672c31c3fb71a0

Load balancer type

Application

DNS name

udacity-lb-tf-92389250.us-west-1.elb.amazonaws.com (A Record)

Status

Active

VPC

vpc-065dd28d107659baf

IP address type

IPv4

Scheme

Internet-facing

Availability Zones

subnet-0b02b5d81294b29f9 us-west-1c (usw1-az1)  
subnet-0d7ba92ea93a00fcd us-west-1b (usw1-az3)

Hosted zone

Z368ELLRRE2KJO

Date created

January 17, 2023, 23:49 (UTC-06:00)

Listeners

Network mapping

Security

Monitoring

Integrations

Attributes

Tags

Listeners (1)

A listener checks for connection requests on its port and protocol. Traffic received by the listener is routed according to its rules.

Search

< 1 > ⚙

☐

Protocol:Port

ARN

Security policy

Default SSL cert

Default routing rule

Rules

Tags

☐

HTTP:80

ARN

Not applicable

Not applicable

1. Forward to

- udacity-lb-tg: 1 (100%)
- Group-level stickiness: Off

1

2

EC2 > Target groups > udacity-lb-tg

udacity-lb-tg

Actions

Details

arn:aws:elasticloadbalancing:us-west-1:850748373480:targetgroup/udacity-lb-tg/855323d1ff35a99a

Target type

Instance

Protocol : Port

HTTP: 80

Protocol version

HTTP1

VPC

vpc-065dd28d107659baf

IP address type

IPv4

Load balancer

udacity-lb-tf

Total targets

2

Healthy

0

Unhealthy

2

Unused

0

Initial

0

Draining

0

Targets

Monitoring

Health checks

Attributes

Tags

Registered targets (2)

Filter resources by property or value

< 1 > ⚙

☐

Instance ID

Name

Port

Zone

Health status

Health status details

☐

I-01d8813a0d211d45b

Ubuntu-Web

80

us-west-1b

unhealthy

Health checks failed with these codes: [401]

☐

I-0fc6c6e19a73c4c39

Ubuntu-Web

80

us-west-1b

unhealthy

Health checks failed with these codes: [401]

\*\*\*\*\*

RDS:

2 RDS instance nodes

[Option+S]
Ohio
voclabs/user2334694=6865935508 @ 8507-4837-3480

RDS > Databases

**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](#)

**Databases**
Group resources
Modify
Actions
Restore from S3
Create database


RDS backup window set to 5 days

[Option+S]
Ohio
voclabs/user2334694=6865935508 @ 8507-4837-3480

|                                  |                       |                  |              |            |             |           |        |
|----------------------------------|-----------------------|------------------|--------------|------------|-------------|-----------|--------|
| <input checked="" type="radio"/> | udacity-db-cluster    | Regional cluster | Aurora MySQL | us-east-2  | 2 Instances | Available | -      |
| <input type="radio"/>            | udacity-db-instance-1 | Writer instance  | Aurora MySQL | us-east-2c | db.t2.small | Available | 13.67% |
| <input type="radio"/>            | udacity-db-instance-0 | Reader instance  | Aurora MySQL | us-east-2b | db.t2.small | Available | 14.00% |

Connectivity & security
Monitoring
Logs & events
Configuration
Maintenance & backups
Tags

**Maintenance**

Maintenance window  
January 19, 2023 00:28 - 00:58 UTC-6

Pending maintenance  
none

**Pending maintenance (0)**
Apply now
Apply at next maintenance window

| Description                      | Type | Status | Apply date |
|----------------------------------|------|--------|------------|
| No pending maintenance available |      |        |            |

**Backup**

|                                       |                                                                 |                                                            |
|---------------------------------------|-----------------------------------------------------------------|------------------------------------------------------------|
| Automated backups<br>Enabled (5 Days) | Earliest restorable time<br>January 17, 2023, 21:10 (UTC-06:00) | Latest restore time<br>January 17, 2023, 22:37 (UTC-06:00) |
| Copy tags to snapshots<br>Disabled    | Backup window<br>07:10-07:40 UTC (GMT)                          |                                                            |

RDS in zone2 will be set up as a replica from zone1. Students will need to define this in the Terraform code

[Option+S]

N. California

voclabs/user2334694=6865935508 @ 8507-4837-3480

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 |
|--|-------------------------|-----------------|--------------|-------------|-------------|-----------|--------|---------|
|  | udacity-db-cluster-s    | Replica cluster | Aurora MySQL | us-west-1   | 2 instances | Available | -      |         |
|  | udacity-db-instance-0-s | Reader instance | Aurora MySQL | us-west-1c  | db.t2.small | Available | 11.83% |         |
|  | udacity-db-instance-1-s | Writer instance | Aurora MySQL | us-west-1b  | db.t2.small | Available | 14.17% |         |

[Option+S]

N. California

voclabs/user2334694=6865935508 @ 8507-4837-3480

Filter by databases

|  | DB identifier           | Role            | Engine       | Region & AZ | Size        | Status    | CPU    | Current |
|--|-------------------------|-----------------|--------------|-------------|-------------|-----------|--------|---------|
|  | udacity-db-cluster-s    | Replica cluster | Aurora MySQL | us-west-1   | 2 instances | Available | -      |         |
|  | udacity-db-instance-1-s | Writer instance | Aurora MySQL | us-west-1b  | db.t2.small | Available | 15.50% |         |
|  | udacity-db-instance-0-s | Reader instance | Aurora MySQL | us-west-1c  | db.t2.small | Available | 11.83% |         |

Connectivity & security

Monitoring

Logs & events

Configuration

Maintenance & backups

Tags

Database

Configuration

Capacity type

Availability

Encryption

DB cluster role

Replica cluster

Engine version

5.6.mysql\_aurora.1.19.1

Replication source

arn:aws:rds:us-east-2:850748373480:cluster:udacity-db-cluster

Resource ID

cluster-JJC7X6EC3XU6VLG7EHOEM3TD4U

Amazon Resource Name (ARN)

arn:aws:rds:us-west-1:850748373480:cluster:udacity-db-cluster-s

Provisioned: single-master

DB cluster ID

udacity-db-cluster-s

DB cluster parameter group

udacity-pg-s

Deletion protection

Disabled

IAM DB authentication

Not enabled

Master username

udacity

Master password

\*\*\*\*\*

Multi-AZ

2 Zones

Encryption

Not enabled



[Option+S]
N. California
voclabs/user2334694=6865935508 @ 8507-4837-3480

| DB identifier           | Role            | Engine       | Region & AZ | Size        | Status    | CPU    | Current |
|-------------------------|-----------------|--------------|-------------|-------------|-----------|--------|---------|
| udacity-db-cluster-s    | Replica cluster | Aurora MySQL | us-west-1   | 2 Instances | Available | -      |         |
| udacity-db-instance-1-s | Writer instance | Aurora MySQL | us-west-1b  | db.t2.small | Available | 15.50% |         |
| udacity-db-instance-0-s | Reader instance | Aurora MySQL | us-west-1c  | db.t2.small | Available | 11.83% |         |

Connectivity & security
Monitoring
Logs & events
Configuration
Maintenance & backups
Tags

### Maintenance

Maintenance window  
January 21, 2023 06:22 - 06:52 UTC-6

Pending maintenance  
none

#### Pending maintenance (0)

Apply now
Apply at next maintenance window

| Description                      | Type | Status | Apply date |
|----------------------------------|------|--------|------------|
| No pending maintenance available |      |        |            |

### Backup

|                                       |                                                                 |                                                            |
|---------------------------------------|-----------------------------------------------------------------|------------------------------------------------------------|
| Automated backups<br>Enabled (5 Days) | Earliest restorable time<br>January 17, 2023, 21:49 (UTC-06:00) | Latest restore time<br>January 17, 2023, 22:43 (UTC-06:00) |
|---------------------------------------|-----------------------------------------------------------------|------------------------------------------------------------|

\*\*\*\*\*

## Destroy

...

**zone2:** terraform destroy

...

Plan: 0 to add, 0 to change, 22 to destroy.

Changes to Outputs:

- account\_id = "850748373480" -> null
- caller\_arn = "arn:aws:iam::850748373480:user/mluc" -> null
- caller\_user = "AIDA4MFEN7HUHUOKKWFQP" -> 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\_attachment.udacity[1]: Destroying...

[id=arn:aws:elasticloadbalancing:us-west-1:850748373480:targetgroup/udacity-lb-tg/855323d1ff33a99a-20230118073724087200000001]

module.project\_alb.aws\_lb\_target\_group\_attachment.udacity[0]: Destroying...

[id=arn:aws:elasticloadbalancing:us-west-1:850748373480:targetgroup/udacity-lb-tg/855323d1ff33a99a-20230118073724112100000002]

module.project\_alb.aws\_lb\_listener.udacity: Destroying...

[id=arn:aws:elasticloadbalancing:us-west-1:850748373480:listener/app/udacity-lb-tf/3672c31c3fbc71a0/ec7b1fb64e6937e]

module.project\_alb.aws\_lb\_target\_group\_attachment.udacity[1]: Destruction complete after 0s  
module.project\_alb.aws\_lb\_listener.udacity: Destruction complete after 0s  
module.project\_alb.aws\_lb.udacity: Destroying...  
[id=arn:aws:elasticloadbalancing:us-west-1:850748373480:loadbalancer/app/udacity-lb-tf/3672c31c3fbc71a0]  
module.project\_alb.aws\_lb\_target\_group\_attachment.udacity[0]: Destruction complete after 0s  
module.project\_alb.aws\_lb\_target\_group.udacity: Destroying...  
[id=arn:aws:elasticloadbalancing:us-west-1:850748373480:targetgroup/udacity-lb-tg/855323d1ff33a99a]  
module.project\_ec2.aws\_instance.ubuntu[2]: Destroying... [id=i-02710f9310024db10]  
module.project\_ec2.aws\_instance.ubuntu[1]: Destroying... [id=i-0fc6c6e19a73c4c39]  
module.project\_ec2.aws\_instance.ubuntu[0]: Destroying... [id=i-01d8813a0d211d45b]  
module.project\_alb.aws\_lb\_target\_group.udacity: Destruction complete after 1s  
kubernetes\_service.grafana-external: Destruction complete after 2s  
module.project\_alb.aws\_lb.udacity: Destruction complete after 2s  
kubernetes\_namespace.udacity: Destruction complete after 7s  
module.project\_eks.aws\_iam\_role\_policy\_attachment.cluster\_AmazonEKSCloudwatchPolicy: Destroying...  
[id=app-udacity-eks-node-role-20230118054943454800000008]  
module.project\_eks.aws\_iam\_role\_policy\_attachment.node\_CloudWatchAgentServerPolicy: Destroying...  
[id=app-udacity-eks-node-role-20230118054943271700000005]  
module.project\_eks.aws\_eks\_node\_group.node: Destroying... [id=udacity-cluster:app-udacity-node-group]  
module.project\_eks.aws\_iam\_role\_policy\_attachment.cluster\_AmazonEKSCloudwatchPolicy: Destruction complete after 0s  
module.project\_eks.aws\_iam\_role\_policy\_attachment.node\_CloudWatchAgentServerPolicy: Destruction complete after 0s  
module.project\_ec2.aws\_instance.ubuntu[1]: Still destroying... [id=i-0fc6c6e19a73c4c39, 10s elapsed]  
module.project\_ec2.aws\_instance.ubuntu[2]: Still destroying... [id=i-02710f9310024db10, 10s elapsed]  
module.project\_ec2.aws\_instance.ubuntu[0]: Still destroying... [id=i-01d8813a0d211d45b, 10s elapsed]  
module.project\_eks.aws\_eks\_node\_group.node: Still destroying... [id=udacity-cluster:app-udacity-node-group, 10s elapsed]  
module.project\_ec2.aws\_instance.ubuntu[0]: Still destroying... [id=i-01d8813a0d211d45b, 20s elapsed]  
module.project\_ec2.aws\_instance.ubuntu[2]: Still destroying... [id=i-02710f9310024db10, 20s elapsed]  
module.project\_ec2.aws\_instance.ubuntu[1]: Still destroying... [id=i-0fc6c6e19a73c4c39, 20s elapsed]  
module.project\_eks.aws\_eks\_node\_group.node: Still destroying... [id=udacity-cluster:app-udacity-node-group, 20s elapsed]  
module.project\_ec2.aws\_instance.ubuntu[2]: Still destroying... [id=i-02710f9310024db10, 30s elapsed]  
module.project\_ec2.aws\_instance.ubuntu[0]: Still destroying... [id=i-01d8813a0d211d45b, 30s elapsed]  
module.project\_ec2.aws\_instance.ubuntu[1]: Still destroying... [id=i-0fc6c6e19a73c4c39, 30s elapsed]  
module.project\_eks.aws\_eks\_node\_group.node: Still destroying... [id=udacity-cluster:app-udacity-node-group, 30s elapsed]  
module.project\_ec2.aws\_instance.ubuntu[1]: Still destroying... [id=i-0fc6c6e19a73c4c39, 40s elapsed]  
module.project\_ec2.aws\_instance.ubuntu[2]: Still destroying... [id=i-02710f9310024db10, 40s elapsed]  
module.project\_ec2.aws\_instance.ubuntu[0]: Still destroying... [id=i-01d8813a0d211d45b, 40s elapsed]  
module.project\_eks.aws\_eks\_node\_group.node: Still destroying... [id=udacity-cluster:app-udacity-node-group, 40s elapsed]  
module.project\_ec2.aws\_instance.ubuntu[0]: Still destroying... [id=i-01d8813a0d211d45b, 50s elapsed]  
module.project\_ec2.aws\_instance.ubuntu[2]: Still destroying... [id=i-02710f9310024db10, 50s elapsed]  
module.project\_ec2.aws\_instance.ubuntu[1]: Still destroying... [id=i-0fc6c6e19a73c4c39, 50s elapsed]  
module.project\_ec2.aws\_instance.ubuntu[0]: Destruction complete after 51s  
module.project\_eks.aws\_eks\_node\_group.node: Still destroying... [id=udacity-cluster:app-udacity-node-group, 50s elapsed]  
module.project\_ec2.aws\_instance.ubuntu[2]: Still destroying... [id=i-02710f9310024db10, 1m0s elapsed]  
module.project\_ec2.aws\_instance.ubuntu[1]: Still destroying... [id=i-0fc6c6e19a73c4c39, 1m0s elapsed]  
module.project\_eks.aws\_eks\_node\_group.node: Still destroying... [id=udacity-cluster:app-udacity-node-group, 1m0s elapsed]  
module.project\_ec2.aws\_instance.ubuntu[1]: Still destroying... [id=i-0fc6c6e19a73c4c39, 1m10s elapsed]  
module.project\_ec2.aws\_instance.ubuntu[2]: Still destroying... [id=i-02710f9310024db10, 1m10s elapsed]  
module.project\_eks.aws\_eks\_node\_group.node: Still destroying... [id=udacity-cluster:app-udacity-node-group, 1m10s elapsed]  
module.project\_ec2.aws\_instance.ubuntu[1]: Still destroying... [id=i-0fc6c6e19a73c4c39, 1m20s elapsed]  
module.project\_ec2.aws\_instance.ubuntu[2]: Still destroying... [id=i-02710f9310024db10, 1m20s elapsed]  
module.project\_ec2.aws\_instance.ubuntu[1]: Destruction complete after 1m21s  
module.project\_eks.aws\_eks\_node\_group.node: Still destroying... [id=udacity-cluster:app-udacity-node-group, 1m20s elapsed]  
module.project\_ec2.aws\_instance.ubuntu[2]: Still destroying... [id=i-02710f9310024db10, 1m30s elapsed]  
module.project\_eks.aws\_eks\_node\_group.node: Still destroying... [id=udacity-cluster:app-udacity-node-group, 1m30s elapsed]  
module.project\_ec2.aws\_instance.ubuntu[2]: Still destroying... [id=i-02710f9310024db10, 1m40s elapsed]  
module.project\_eks.aws\_eks\_node\_group.node: Still destroying... [id=udacity-cluster:app-udacity-node-group, 1m40s elapsed]  
module.project\_ec2.aws\_instance.ubuntu[2]: Still destroying... [id=i-02710f9310024db10, 1m50s elapsed]  
module.project\_eks.aws\_eks\_node\_group.node: Still destroying... [id=udacity-cluster:app-udacity-node-group, 1m50s elapsed]  
module.project\_ec2.aws\_instance.ubuntu[2]: Still destroying... [id=i-02710f9310024db10, 2m0s elapsed]  
module.project\_eks.aws\_eks\_node\_group.node: Still destroying... [id=udacity-cluster:app-udacity-node-group, 2m0s elapsed]  
module.project\_ec2.aws\_instance.ubuntu[2]: Still destroying... [id=i-02710f9310024db10, 2m11s elapsed]

module.project\_eks.aws\_eks\_node\_group.node: Still destroying... [id=udacity-cluster:app-udacity-node-group, 2m10s elapsed]  
module.project\_ec2.aws\_instance.ubuntu[2]: Still destroying... [id=i-02710f9310024db10, 2m21s elapsed]  
module.project\_eks.aws\_eks\_node\_group.node: Still destroying... [id=udacity-cluster:app-udacity-node-group, 2m20s elapsed]  
module.project\_ec2.aws\_instance.ubuntu[2]: Still destroying... [id=i-02710f9310024db10, 2m31s elapsed]  
module.project\_eks.aws\_eks\_node\_group.node: Still destroying... [id=udacity-cluster:app-udacity-node-group, 2m30s elapsed]  
module.project\_ec2.aws\_instance.ubuntu[2]: Still destroying... [id=i-02710f9310024db10, 2m41s elapsed]  
module.project\_eks.aws\_eks\_node\_group.node: Still destroying... [id=udacity-cluster:app-udacity-node-group, 2m40s elapsed]  
module.project\_ec2.aws\_instance.ubuntu[2]: Still destroying... [id=i-02710f9310024db10, 2m51s elapsed]  
module.project\_eks.aws\_eks\_node\_group.node: Still destroying... [id=udacity-cluster:app-udacity-node-group, 2m50s elapsed]  
module.project\_ec2.aws\_instance.ubuntu[2]: Still destroying... [id=i-02710f9310024db10, 3m1s elapsed]  
module.project\_eks.aws\_eks\_node\_group.node: Still destroying... [id=udacity-cluster:app-udacity-node-group, 3m0s elapsed]  
module.project\_ec2.aws\_instance.ubuntu[2]: Still destroying... [id=i-02710f9310024db10, 3m11s elapsed]  
module.project\_eks.aws\_eks\_node\_group.node: Still destroying... [id=udacity-cluster:app-udacity-node-group, 3m10s elapsed]  
module.project\_ec2.aws\_instance.ubuntu[2]: Still destroying... [id=i-02710f9310024db10, 3m21s elapsed]  
module.project\_eks.aws\_eks\_node\_group.node: Still destroying... [id=udacity-cluster:app-udacity-node-group, 3m20s elapsed]  
module.project\_ec2.aws\_instance.ubuntu[2]: Still destroying... [id=i-02710f9310024db10, 3m31s elapsed]  
module.project\_eks.aws\_eks\_node\_group.node: Still destroying... [id=udacity-cluster:app-udacity-node-group, 3m30s elapsed]  
module.project\_ec2.aws\_instance.ubuntu[2]: Still destroying... [id=i-02710f9310024db10, 3m41s elapsed]  
module.project\_eks.aws\_eks\_node\_group.node: Still destroying... [id=udacity-cluster:app-udacity-node-group, 3m40s elapsed]  
module.project\_ec2.aws\_instance.ubuntu[2]: Still destroying... [id=i-02710f9310024db10, 3m51s elapsed]  
module.project\_eks.aws\_eks\_node\_group.node: Still destroying... [id=udacity-cluster:app-udacity-node-group, 3m50s elapsed]  
module.project\_ec2.aws\_instance.ubuntu[2]: Still destroying... [id=i-02710f9310024db10, 4m1s elapsed]  
module.project\_eks.aws\_eks\_node\_group.node: Still destroying... [id=udacity-cluster:app-udacity-node-group, 4m0s elapsed]  
module.project\_ec2.aws\_instance.ubuntu[2]: Still destroying... [id=i-02710f9310024db10, 4m11s elapsed]  
module.project\_ec2.aws\_instance.ubuntu[2]: Destruction complete after 4m13s  
module.project\_ec2.aws\_security\_group.ec2\_sg: Destroying... [id=sg-01268d5cd28889166]  
module.project\_ec2.aws\_security\_group.ec2\_sg: Destruction complete after 1s  
module.project\_eks.aws\_eks\_node\_group.node: Still destroying... [id=udacity-cluster:app-udacity-node-group, 4m10s elapsed]  
module.project\_eks.aws\_eks\_node\_group.node: Destruction complete after 4m19s  
module.project\_eks.aws\_iam\_role\_policy\_attachment.node\_AmazonEKSWorkerNodePolicy: Destroying...  
[id=app-udacity-eks-node-role-20230118054943253600000003]  
module.project\_eks.aws\_iam\_role\_policy\_attachment.node\_AmazonEC2ContainerRegistryReadOnly: Destroying...  
[id=app-udacity-eks-node-role-20230118054943268300000004]  
module.project\_eks.aws\_iam\_role\_policy\_attachment.node\_harmony\_policy\_attachment: Destroying...  
[id=app-udacity-eks-node-role-20230118054943237200000002]  
module.project\_eks.aws\_iam\_role\_policy\_attachment.node\_AmazonEKS\_CNI\_Policy: Destroying...  
[id=app-udacity-eks-node-role-20230118054943234000000001]  
module.project\_eks.aws\_eks\_cluster.cluster: Destroying... [id=udacity-cluster]  
module.project\_eks.aws\_iam\_role\_policy\_attachment.node\_harmony\_policy\_attachment: Destruction complete after 1s  
module.project\_eks.aws\_iam\_role\_policy\_attachment.node\_AmazonEKS\_CNI\_Policy: Destruction complete after 1s  
module.project\_eks.aws\_iam\_role\_policy\_attachment.node\_AmazonEKSWorkerNodePolicy: Destruction complete after 1s  
module.project\_eks.aws\_iam\_role\_policy\_attachment.node\_AmazonEC2ContainerRegistryReadOnly: Destruction complete after 1s  
module.project\_eks.aws\_eks\_cluster.cluster: Still destroying... [id=udacity-cluster, 10s elapsed]  
module.project\_eks.aws\_eks\_cluster.cluster: Still destroying... [id=udacity-cluster, 20s elapsed]  
module.project\_eks.aws\_eks\_cluster.cluster: Still destroying... [id=udacity-cluster, 30s elapsed]  
module.project\_eks.aws\_eks\_cluster.cluster: Still destroying... [id=udacity-cluster, 40s elapsed]  
module.project\_eks.aws\_eks\_cluster.cluster: Still destroying... [id=udacity-cluster, 50s elapsed]  
module.project\_eks.aws\_eks\_cluster.cluster: Still destroying... [id=udacity-cluster, 1m0s elapsed]  
module.project\_eks.aws\_eks\_cluster.cluster: Still destroying... [id=udacity-cluster, 1m10s elapsed]  
module.project\_eks.aws\_eks\_cluster.cluster: Still destroying... [id=udacity-cluster, 1m20s elapsed]  
module.project\_eks.aws\_eks\_cluster.cluster: Still destroying... [id=udacity-cluster, 1m30s elapsed]  
module.project\_eks.aws\_eks\_cluster.cluster: Destruction complete after 1m34s  
module.project\_eks.aws\_iam\_role\_policy\_attachment.cluster\_AmazonEKSClusterPolicy: Destroying...  
[id=app-udacity-eks-cluster-role-20230118054943325000000007]  
module.project\_eks.aws\_iam\_role\_policy\_attachment.cluster\_AmazonEKSServicePolicy: Destroying...  
[id=app-udacity-eks-cluster-role-20230118054943306900000006]  
module.project\_eks.aws\_security\_group.eks-cluster: Destroying... [id=sg-0e5cb1b3735867a22]  
module.project\_eks.aws\_iam\_role\_policy\_attachment.cluster\_AmazonEKSServicePolicy: Destruction complete after 1s  
module.project\_eks.aws\_iam\_role\_policy\_attachment.cluster\_AmazonEKSClusterPolicy: Destruction complete after 1s  
module.project\_eks.aws\_security\_group.eks-cluster: Destruction complete after 1s

Destroy complete! Resources: 22 destroyed.

...

...

**zone1:** terraform destroy

...

Plan: 0 to add, 0 to change, 77 to destroy.

Changes to Outputs:

```
- account_id = "850748373480" -> null
- caller_arn = "arn:aws:iam::850748373480:user/mluc" -> null
- caller_user = "AIDA4MFEN7HUHUOKKWFQP" -> null
- west_private_subnet_ids = [
 - "subnet-05e082272f8e6e8d7",
 - "subnet-0e1b3c8ee044ad2f6",
] -> null
- west_public_subnet_ids = [
 - "subnet-0d7ba92ea93a00fcd",
 - "subnet-0b02b5d81294b29f9",
] -> null
- west_vpc_id = "vpc-065dd28d107659baf" -> null
```

| Warning: Reference to undefined provider

| on main.tf line 41, in module "vpc\_west":

| 41: aws = aws.usw1

| 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

kubernetes\_namespace.udacity: Destroying... [id=udacity]

kubernetes\_service.grafana-external: Destroying... [id=monitoring/grafana-external]

module.vpc\_west.aws\_route\_table\_association.private[1]: Destroying... [id=rtbassoc-06c26026a7c92e154]

module.vpc\_west.aws\_route\_table\_association.public[1]: Destroying... [id=rtbassoc-06fab2aefd83c141c]

module.vpc\_west.aws\_route\_table\_association.private[0]: Destroying... [id=rtbassoc-0cac8bd3790c88c59]

module.vpc\_west.aws\_route.public\_internet\_gateway[1]: Destroying... [id=r-rtb-02a005db2b2853a7e1080289494]

module.vpc\_west.aws\_route.public\_internet\_gateway[0]: Destroying... [id=r-rtb-02a005db2b2853a7e1080289494]

module.vpc\_west.aws\_route.private\_nat\_gateway[0]: Destroying... [id=r-rtb-0a8ebfe5c75018d471080289494]

module.vpc\_west.aws\_route.private\_nat\_gateway[1]: Destroying... [id=r-rtb-0452639aae55678ee1080289494]

module.vpc\_west.aws\_route\_table\_association.public[0]: Destroying... [id=rtbassoc-02b1f66f7c9be18af]

module.vpc\_west.aws\_route.public\_internet\_gateway[1]: Destruction complete after 0s

module.project\_rds\_s.aws\_rds\_cluster\_instance.udacity\_instance-s[0]: Destroying... [id=udacity-db-instance-0-s]

module.vpc\_west.aws\_route\_table\_association.private[1]: Destruction complete after 0s

module.project\_rds\_s.aws\_rds\_cluster\_instance.udacity\_instance-s[1]: Destroying... [id=udacity-db-instance-1-s]

module.vpc\_west.aws\_route\_table\_association.private[0]: Destruction complete after 0s

module.project\_rds\_p.aws\_rds\_cluster\_instance.udacity\_instance[1]: Destroying... [id=udacity-db-instance-1]

module.vpc\_west.aws\_route\_table\_association.public[1]: Destruction complete after 1s

module.project\_alb.aws\_lb\_target\_group\_attachment.udacity[0]: Destroying...  
[id=arn:aws:elasticloadbalancing:us-east-2:850748373480:targetgroup/udacity-lb-tg/09313ca5581c2233-20230118031027685500000006]  
module.vpc\_west.aws\_route\_table\_association.public[0]: Destruction complete after 1s  
module.project\_alb.aws\_lb\_listener.udacity: Destroying...  
[id=arn:aws:elasticloadbalancing:us-east-2:850748373480:listener/app/udacity-lb-tf/2a8fdf4e07cbd5c7/6c1c7cb10cc59881]  
module.vpc\_west.aws\_route.private\_nat\_gateway[1]: Destruction complete after 1s  
module.project\_alb.aws\_lb\_target\_group\_attachment.udacity[1]: Destroying...  
[id=arn:aws:elasticloadbalancing:us-east-2:850748373480:targetgroup/udacity-lb-tg/09313ca5581c2233-20230118042122529100000003]  
module.vpc\_west.aws\_route.public\_internet\_gateway[0]: Destruction complete after 1s  
module.project\_rds\_p.aws\_rds\_cluster\_instance.udacity\_instance[0]: Destroying... [id=udacity-db-instance-0]  
module.vpc\_west.aws\_route.private\_nat\_gateway[0]: Destruction complete after 1s  
module.vpc\_west.aws\_route\_table.public[0]: Destroying... [id=rtb-02a005db2b2853a7e]  
module.project\_alb.aws\_lb\_target\_group\_attachment.udacity[0]: Destruction complete after 0s  
module.vpc\_west.aws\_nat\_gateway.this[0]: Destroying... [id=nat-08b9c079487fc91ef]  
module.project\_alb.aws\_lb\_listener.udacity: Destruction complete after 0s  
module.vpc\_west.aws\_route\_table.private[1]: Destroying... [id=rtb-0452639aae55678ee]  
module.project\_alb.aws\_lb\_target\_group\_attachment.udacity[1]: Destruction complete after 0s  
module.vpc\_west.aws\_route\_table.private[0]: Destroying... [id=rtb-0a8ebfe5c75018d47]  
module.project\_alb.aws\_lb.udacity: Destroying...  
[id=arn:aws:elasticloadbalancing:us-east-2:850748373480:loadbalancer/app/udacity-lb-tf/2a8fdf4e07cbd5c7]  
module.vpc\_west.aws\_route\_table.private[1]: Destruction complete after 0s  
module.project\_ec2.aws\_instance.ubuntu[2]: Destroying... [id=i-06e7182529af7b0a6]  
module.vpc\_west.aws\_route\_table.public[0]: Destruction complete after 0s  
module.project\_alb.aws\_lb\_target\_group.udacity: Destroying...  
[id=arn:aws:elasticloadbalancing:us-east-2:850748373480:targetgroup/udacity-lb-tg/09313ca5581c2233]  
kubernetes\_service.grafana-external: Destruction complete after 2s  
module.project\_ec2.aws\_instance.ubuntu[1]: Destroying... [id=i-008a6640df923e567]  
module.vpc\_west.aws\_route\_table.private[0]: Destruction complete after 1s  
module.project\_ec2.aws\_instance.ubuntu[0]: Destroying... [id=i-0a207d18d7c7f7af8]  
module.project\_alb.aws\_lb\_target\_group.udacity: Destruction complete after 1s  
module.project\_alb.aws\_lb.udacity: Destruction complete after 2s  
kubernetes\_namespace.udacity: Destruction complete after 6s  
module.project\_eks.aws\_iam\_policy.eks\_cluster\_role\_cloudwatch\_policy: Destroying...  
[id=arn:aws:iam::850748373480:policy/app-udacity-eks-cluster-role-cloudwatch-policy]  
module.project\_eks.aws\_eks\_node\_group.node: Destroying... [id=udacity-cluster:app-udacity-node-group]  
module.project\_eks.aws\_iam\_policy.eks\_cluster\_role\_cloudwatch\_policy: Destruction complete after 1s  
module.project\_rds\_s.aws\_rds\_cluster\_instance.udacity\_instance-s[0]: Still destroying... [id=udacity-db-instance-0-s, 10s elapsed]  
module.project\_rds\_p.aws\_rds\_cluster\_instance.udacity\_instance[1]: Still destroying... [id=udacity-db-instance-1, 10s elapsed]  
module.project\_rds\_p.aws\_rds\_cluster\_instance.udacity\_instance[0]: Still destroying... [id=udacity-db-instance-0, 10s elapsed]  
module.vpc\_west.aws\_nat\_gateway.this[0]: Still destroying... [id=nat-08b9c079487fc91ef, 10s elapsed]  
module.project\_ec2.aws\_instance.ubuntu[2]: Still destroying... [id=i-06e7182529af7b0a6, 10s elapsed]  
module.project\_ec2.aws\_instance.ubuntu[1]: Still destroying... [id=i-008a6640df923e567, 10s elapsed]  
module.project\_ec2.aws\_instance.ubuntu[0]: Still destroying... [id=i-0a207d18d7c7f7af8, 10s elapsed]  
module.project\_ec2.aws\_instance.ubuntu[2]: Destruction complete after 11s  
module.project\_ec2.aws\_instance.ubuntu[0]: Destruction complete after 10s  
module.project\_ec2.aws\_instance.ubuntu[1]: Destruction complete after 10s  
module.project\_ec2.aws\_security\_group.ec2\_sg: Destroying... [id=sg-09f26d23dedf1dad1]  
module.project\_eks.aws\_eks\_node\_group.node: Still destroying... [id=udacity-cluster:app-udacity-node-group, 10s elapsed]  
module.project\_rds\_s.aws\_rds\_cluster\_instance.udacity\_instance-s[0]: Still destroying... [id=udacity-db-instance-0-s, 20s elapsed]  
module.project\_rds\_p.aws\_rds\_cluster\_instance.udacity\_instance[1]: Still destroying... [id=udacity-db-instance-1, 20s elapsed]  
module.project\_rds\_p.aws\_rds\_cluster\_instance.udacity\_instance[0]: Still destroying... [id=udacity-db-instance-0, 20s elapsed]  
module.vpc\_west.aws\_nat\_gateway.this[0]: Still destroying... [id=nat-08b9c079487fc91ef, 20s elapsed]  
module.project\_ec2.aws\_security\_group.ec2\_sg: Still destroying... [id=sg-09f26d23dedf1dad1, 10s elapsed]  
module.project\_eks.aws\_eks\_node\_group.node: Still destroying... [id=udacity-cluster:app-udacity-node-group, 20s elapsed]  
module.project\_ec2.aws\_security\_group.ec2\_sg: Destruction complete after 18s  
module.project\_rds\_s.aws\_rds\_cluster\_instance.udacity\_instance-s[0]: Still destroying... [id=udacity-db-instance-0-s, 30s elapsed]  
module.project\_rds\_p.aws\_rds\_cluster\_instance.udacity\_instance[1]: Still destroying... [id=udacity-db-instance-1, 30s elapsed]  
module.project\_rds\_p.aws\_rds\_cluster\_instance.udacity\_instance[0]: Still destroying... [id=udacity-db-instance-0, 30s elapsed]  
module.vpc\_west.aws\_nat\_gateway.this[0]: Still destroying... [id=nat-08b9c079487fc91ef, 30s elapsed]

[illegible]

[illegible]

module.project\_eks.aws\_eks\_node\_group.node: Destruction complete after 4m19s  
module.project\_eks.aws\_iam\_policy.eks\_node\_instance\_policy: Destroying...  
[id=arn:aws:iam::850748373480:policy/app-udacity-instance-policy]  
module.project\_eks.aws\_iam\_role.eks\_node\_cluster\_role: Destroying... [id=app-udacity-eks-node-role]  
module.project\_eks.aws\_eks\_cluster.cluster: Destroying... [id=udacity-cluster]  
module.project\_eks.aws\_iam\_policy.eks\_node\_instance\_policy: Destruction complete after 0s  
module.project\_eks.aws\_iam\_role.eks\_node\_cluster\_role: Destruction complete after 0s  
module.project\_rds\_s.aws\_rds\_cluster\_instance.udacity\_instance-s[0]: Still destroying... [id=udacity-db-instance-0-s, 4m30s elapsed]  
module.project\_rds\_p.aws\_rds\_cluster\_instance.udacity\_instance[1]: Still destroying... [id=udacity-db-instance-1, 4m30s elapsed]  
module.project\_eks.aws\_eks\_cluster.cluster: Still destroying... [id=udacity-cluster, 10s elapsed]  
module.project\_rds\_s.aws\_rds\_cluster\_instance.udacity\_instance-s[0]: Still destroying... [id=udacity-db-instance-0-s, 4m40s elapsed]  
module.project\_rds\_p.aws\_rds\_cluster\_instance.udacity\_instance[1]: Still destroying... [id=udacity-db-instance-1, 4m40s elapsed]  
module.project\_eks.aws\_eks\_cluster.cluster: Still destroying... [id=udacity-cluster, 20s elapsed]  
module.project\_rds\_p.aws\_rds\_cluster\_instance.udacity\_instance[1]: Destruction complete after 4m45s  
module.project\_rds\_s.aws\_rds\_cluster\_instance.udacity\_instance-s[0]: Still destroying... [id=udacity-db-instance-0-s, 4m50s elapsed]  
module.project\_eks.aws\_eks\_cluster.cluster: Still destroying... [id=udacity-cluster, 30s elapsed]  
module.project\_rds\_s.aws\_rds\_cluster\_instance.udacity\_instance-s[0]: Still destroying... [id=udacity-db-instance-0-s, 5m0s elapsed]  
module.project\_eks.aws\_eks\_cluster.cluster: Still destroying... [id=udacity-cluster, 40s elapsed]  
module.project\_rds\_s.aws\_rds\_cluster\_instance.udacity\_instance-s[0]: Still destroying... [id=udacity-db-instance-0-s, 5m10s elapsed]  
module.project\_eks.aws\_eks\_cluster.cluster: Still destroying... [id=udacity-cluster, 50s elapsed]  
module.project\_rds\_s.aws\_rds\_cluster\_instance.udacity\_instance-s[0]: Still destroying... [id=udacity-db-instance-0-s, 5m20s elapsed]  
module.project\_eks.aws\_eks\_cluster.cluster: Still destroying... [id=udacity-cluster, 1m0s elapsed]  
module.project\_rds\_s.aws\_rds\_cluster\_instance.udacity\_instance-s[0]: Still destroying... [id=udacity-db-instance-0-s, 5m30s elapsed]  
module.project\_eks.aws\_eks\_cluster.cluster: Still destroying... [id=udacity-cluster, 1m10s elapsed]  
module.project\_rds\_s.aws\_rds\_cluster\_instance.udacity\_instance-s[0]: Still destroying... [id=udacity-db-instance-0-s, 5m40s elapsed]  
module.project\_eks.aws\_eks\_cluster.cluster: Still destroying... [id=udacity-cluster, 1m20s elapsed]  
module.project\_rds\_s.aws\_rds\_cluster\_instance.udacity\_instance-s[0]: Destruction complete after 5m46s  
module.project\_eks.aws\_eks\_cluster.cluster: Still destroying... [id=udacity-cluster, 1m30s elapsed]  
module.project\_eks.aws\_eks\_cluster.cluster: Still destroying... [id=udacity-cluster, 1m40s elapsed]  
module.project\_eks.aws\_eks\_cluster.cluster: Destruction complete after 1m44s  
module.project\_eks.aws\_iam\_role\_policy\_attachment.cluster\_AmazonEKSClusterPolicy: Destroying...  
[id=app-udacity-eks-cluster-role-20230118031244596000000007]  
module.project\_eks.aws\_iam\_role\_policy\_attachment.cluster\_AmazonEKSServicePolicy: Destroying...  
[id=app-udacity-eks-cluster-role-20230118031244601700000008]  
module.project\_eks.aws\_security\_group.eks-cluster: Destroying... [id=sg-0009e299a5079563d]  
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.eks\_cluster\_role: Destroying... [id=app-udacity-eks-cluster-role]  
module.project\_eks.aws\_iam\_role.eks\_cluster\_role: Destruction complete after 0s  
module.project\_eks.aws\_security\_group.eks-cluster: Destruction complete after 0s  
module.vpc.aws\_route\_table\_association.public[1]: Destroying... [id=rtbassoc-0f7ae864bfac71927]  
module.vpc.aws\_route.private\_nat\_gateway[2]: Destroying... [id=r-rtb-0459095f1ece683271080289494]  
module.vpc.aws\_route.public\_internet\_gateway[0]: Destroying... [id=r-rtb-05680a8911b1f2f7e1080289494]  
module.vpc.aws\_route\_table\_association.public[0]: Destroying... [id=rtbassoc-052da33ed3a4d4a2c]  
module.vpc.aws\_route.private\_nat\_gateway[0]: Destroying... [id=r-rtb-01e3a091a7d8c07dc1080289494]  
module.vpc.aws\_route\_table\_association.private[2]: Destroying... [id=rtbassoc-01050050d96fea2b1]  
module.vpc.aws\_route\_table\_association.public[2]: Destroying... [id=rtbassoc-04d4c63a5376a56d1]  
module.vpc.aws\_route.private\_nat\_gateway[1]: Destroying... [id=r-rtb-0be2634774aaf35f1080289494]  
module.vpc.aws\_route.public\_internet\_gateway[1]: Destroying... [id=r-rtb-05680a8911b1f2f7e1080289494]  
module.vpc.aws\_route.public\_internet\_gateway[2]: Destroying... [id=r-rtb-05680a8911b1f2f7e1080289494]  
module.vpc.aws\_route.public\_internet\_gateway[2]: Destruction complete after 1s  
module.vpc.aws\_route\_table\_association.private[1]: Destroying... [id=rtbassoc-05356873f8257c998]  
module.vpc.aws\_route.public\_internet\_gateway[0]: Destruction complete after 1s  
module.vpc.aws\_route\_table\_association.private[0]: Destroying... [id=rtbassoc-0c0a67fee5e0b1c71]



```
| Error: deleting RDS Cluster Instance (udacity-db-instance-1-s): InvalidDBClusterStateFault: Cannot delete the last instance of the
| read replica DB cluster. Promote the DB cluster to a standalone DB cluster in order to delete it.
| status code: 400, request id: fbd97858-7891-4b9a-84c7-ccd64d419e5d
|
```

```
...
zone1: terraform destroy
...
Plan: 0 to add, 0 to change
```

```
- account_id = "850748373480" -> null
- caller_arn = "arn:aws:iam::850748373480:user/mluc" -> null
- caller_user = "AIDA4MFEN7HUHUOKKWFQP" -> null
- west_private_subnet_ids = [
 - "subnet-05e082272f8e6e8d7",
 - "subnet-0e1b3c8ee044ad2f6",
] -> null
- west_vpc_id = "vpc-065dd28d107659baf" -> null
```

Warning: Reference to undefined provider

```
on main.tf line 41, in module "vpc_west":
41: aws = aws.usw1
```

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.project_rds_s.aws_rds_cluster_instance.udacity_instance-s[1]: Destroying... [id=udacity-db-instance-1-s]
module.project_rds_s.aws_rds_cluster_instance.udacity_instance-s[1]: Still destroying... [id=udacity-db-instance-1-s, 10s elapsed]
module.project_rds_s.aws_rds_cluster_instance.udacity_instance-s[1]: Still destroying... [id=udacity-db-instance-1-s, 20s elapsed]
module.project_rds_s.aws_rds_cluster_instance.udacity_instance-s[1]: Still destroying... [id=udacity-db-instance-1-s, 30s elapsed]
module.project_rds_s.aws_rds_cluster_instance.udacity_instance-s[1]: Still destroying... [id=udacity-db-instance-1-s, 40s elapsed]
module.project_rds_s.aws_rds_cluster_instance.udacity_instance-s[1]: Still destroying... [id=udacity-db-instance-1-s, 50s elapsed]
module.project_rds_s.aws_rds_cluster_instance.udacity_instance-s[1]: Still destroying... [id=udacity-db-instance-1-s, 1m0s elapsed]
module.project_rds_s.aws_rds_cluster_instance.udacity_instance-s[1]: Still destroying... [id=udacity-db-instance-1-s, 1m10s elapsed]
module.project_rds_s.aws_rds_cluster_instance.udacity_instance-s[1]: Still destroying... [id=udacity-db-instance-1-s, 1m20s elapsed]
module.project_rds_s.aws_rds_cluster_instance.udacity_instance-s[1]: Still destroying... [id=udacity-db-instance-1-s, 1m31s elapsed]
module.project_rds_s.aws_rds_cluster_instance.udacity_instance-s[1]: Still destroying... [id=udacity-db-instance-1-s, 1m41s elapsed]
module.project_rds_s.aws_rds_cluster_instance.udacity_instance-s[1]: Still destroying... [id=udacity-db-instance-1-s, 1m51s elapsed]
module.project_rds_s.aws_rds_cluster_instance.udacity_instance-s[1]: Still destroying... [id=udacity-db-instance-1-s, 2m1s elapsed]
module.project_rds_s.aws_rds_cluster_instance.udacity_instance-s[1]: Still destroying... [id=udacity-db-instance-1-s, 2m11s elapsed]
module.project_rds_s.aws_rds_cluster_instance.udacity_instance-s[1]: Still destroying... [id=udacity-db-instance-1-s, 2m21s elapsed]
module.project_rds_s.aws_rds_cluster_instance.udacity_instance-s[1]: Still destroying... [id=udacity-db-instance-1-s, 2m31s elapsed]
module.project_rds_s.aws_rds_cluster_instance.udacity_instance-s[1]: Still destroying... [id=udacity-db-instance-1-s, 2m41s elapsed]
module.project_rds_s.aws_rds_cluster_instance.udacity_instance-s[1]: Still destroying... [id=udacity-db-instance-1-s, 2m51s elapsed]
module.project_rds_s.aws_rds_cluster_instance.udacity_instance-s[1]: Still destroying... [id=udacity-db-instance-1-s, 3m1s elapsed]
module.project_rds_s.aws_rds_cluster_instance.udacity_instance-s[1]: Still destroying... [id=udacity-db-instance-1-s, 3m11s elapsed]
module.project_rds_s.aws_rds_cluster_instance.udacity_instance-s[1]: Still destroying... [id=udacity-db-instance-1-s, 3m21s elapsed]
module.project_rds_s.aws_rds_cluster_instance.udacity_instance-s[1]: Still destroying... [id=udacity-db-instance-1-s, 3m31s elapsed]
module.project_rds_s.aws_rds_cluster_instance.udacity_instance-s[1]: Destruction complete after 3m34s
module.project_rds_s.aws_rds_cluster.udacity_cluster-s: Destroying... [id=udacity-db-cluster-s]
module.project_rds_s.aws_rds_cluster.udacity_cluster-s: Still destroying... [id=udacity-db-cluster-s, 10s elapsed]
module.project_rds_s.aws_rds_cluster.udacity_cluster-s: Still destroying... [id=udacity-db-cluster-s, 20s elapsed]
module.project_rds_s.aws_rds_cluster.udacity_cluster-s: Still destroying... [id=udacity-db-cluster-s, 30s elapsed]
module.project_rds_s.aws_rds_cluster.udacity_cluster-s: Still destroying... [id=udacity-db-cluster-s, 40s elapsed]
module.project_rds_s.aws_rds_cluster.udacity_cluster-s: Still destroying... [id=udacity-db-cluster-s, 50s elapsed]
module.project_rds_s.aws_rds_cluster.udacity_cluster-s: Still destroying... [id=udacity-db-cluster-s, 1m0s elapsed]
```

module.project\_rds\_s.aws\_rds\_cluster.udacity\_cluster-s: Still destroying... [id=udacity-db-cluster-s, 1m10s elapsed]  
module.project\_rds\_s.aws\_rds\_cluster.udacity\_cluster-s: Destruction complete after 1m11s  
module.project\_rds\_s.aws\_db\_subnet\_group.udacity\_db\_subnet\_group: Destroying... [id=udacity\_db\_subnet\_group]  
module.project\_rds\_s.aws\_rds\_cluster\_parameter\_group.cluster\_pg-s: Destroying... [id=udacity-pg-s]  
module.project\_rds\_s.aws\_security\_group.db\_sg\_2: Destroying... [id=sg-05ac05b457af309d1]  
module.project\_rds\_p.aws\_rds\_cluster.udacity\_cluster: Destroying... [id=udacity-db-cluster]  
module.project\_rds\_s.aws\_db\_subnet\_group.udacity\_db\_subnet\_group: Destruction complete after 0s  
module.vpc\_west.aws\_subnet.private[0]: Destroying... [id=subnet-05e082272f8e6e8d7]  
module.vpc\_west.aws\_subnet.private[1]: Destroying... [id=subnet-0e1b3c8ee044ad2f6]  
module.project\_rds\_s.aws\_rds\_cluster\_parameter\_group.cluster\_pg-s: Destruction complete after 0s  
module.vpc\_west.aws\_subnet.private[1]: Destruction complete after 1s  
module.vpc\_west.aws\_subnet.private[0]: Destruction complete after 1s  
module.project\_rds\_s.aws\_security\_group.db\_sg\_2: Destruction complete after 1s  
module.vpc\_west.aws\_vpc.this: Destroying... [id=vpc-065dd28d107659baf]  
module.vpc\_west.aws\_vpc.this: Destruction complete after 0s  
module.project\_rds\_p.aws\_rds\_cluster.udacity\_cluster: Still destroying... [id=udacity-db-cluster, 10s elapsed]  
module.project\_rds\_p.aws\_rds\_cluster.udacity\_cluster: Still destroying... [id=udacity-db-cluster, 20s elapsed]  
module.project\_rds\_p.aws\_rds\_cluster.udacity\_cluster: Still destroying... [id=udacity-db-cluster, 30s elapsed]  
module.project\_rds\_p.aws\_rds\_cluster.udacity\_cluster: Still destroying... [id=udacity-db-cluster, 40s elapsed]  
module.project\_rds\_p.aws\_rds\_cluster.udacity\_cluster: Still destroying... [id=udacity-db-cluster, 50s elapsed]  
module.project\_rds\_p.aws\_rds\_cluster.udacity\_cluster: Still destroying... [id=udacity-db-cluster, 1m0s elapsed]  
module.project\_rds\_p.aws\_rds\_cluster.udacity\_cluster: Destruction complete after 1m0s  
module.project\_rds\_p.aws\_db\_subnet\_group.udacity\_db\_subnet\_group: Destroying... [id=udacity\_db\_subnet\_group]  
module.project\_rds\_p.aws\_rds\_cluster\_parameter\_group.cluster\_pg: Destroying... [id=udacity-pg-p]  
module.project\_rds\_p.aws\_security\_group.db\_sg\_1: Destroying... [id=sg-013b736557e2136ea]  
module.project\_rds\_p.aws\_db\_subnet\_group.udacity\_db\_subnet\_group: Destruction complete after 1s  
module.vpc.aws\_subnet.private[0]: Destroying... [id=subnet-0621f793e6ef57378]  
module.vpc.aws\_subnet.private[2]: Destroying... [id=subnet-05df4e60e7330d585]  
module.vpc.aws\_subnet.private[1]: Destroying... [id=subnet-007f08efd030844e4]  
module.project\_rds\_p.aws\_rds\_cluster\_parameter\_group.cluster\_pg: Destruction complete after 1s  
module.vpc.aws\_subnet.private[2]: Destruction complete after 0s  
module.vpc.aws\_subnet.private[1]: Destruction complete after 0s  
module.vpc.aws\_subnet.private[0]: Destruction complete after 0s  
module.project\_rds\_p.aws\_security\_group.db\_sg\_1: Destruction complete after 1s  
module.vpc.aws\_vpc.this: Destroying... [id=vpc-0c4043d75a52692ef]  
module.vpc.aws\_vpc.this: Destruction complete after 1s

Destroy complete! Resources: 16 destroyed.

...