Conestoga College

Cloud Development and Operations

Sem - 2

Cloud Architectures and Infrastructure as Code

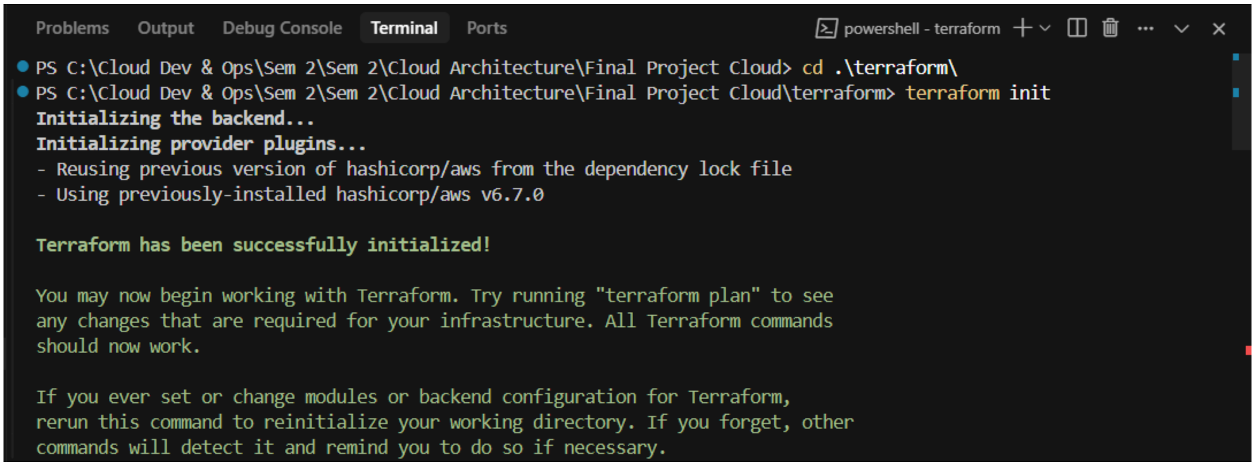
PROG8870

Final Project

Name:- Archit Patel

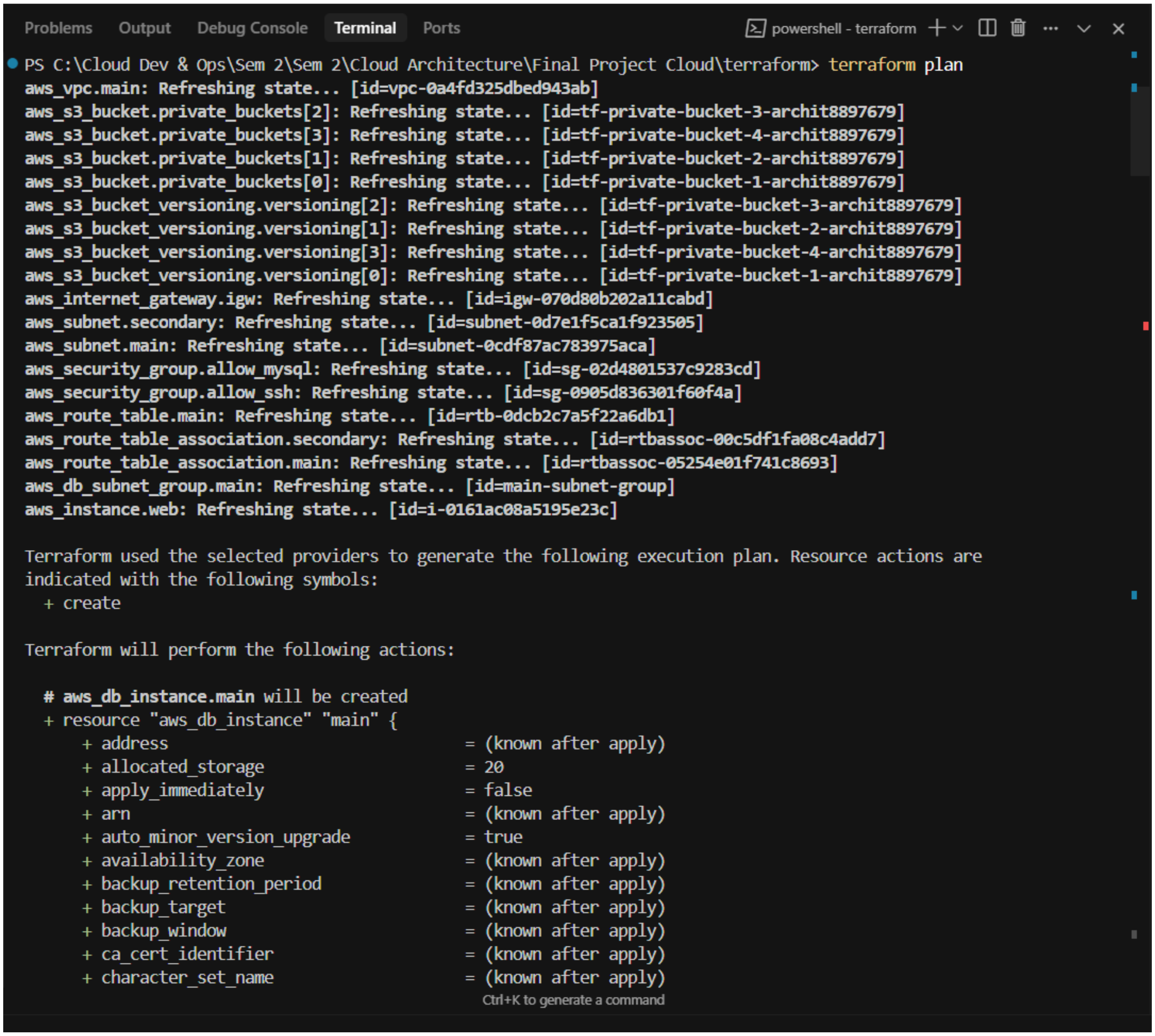
Professor:- Vikas Vattikonda

Terraform init:

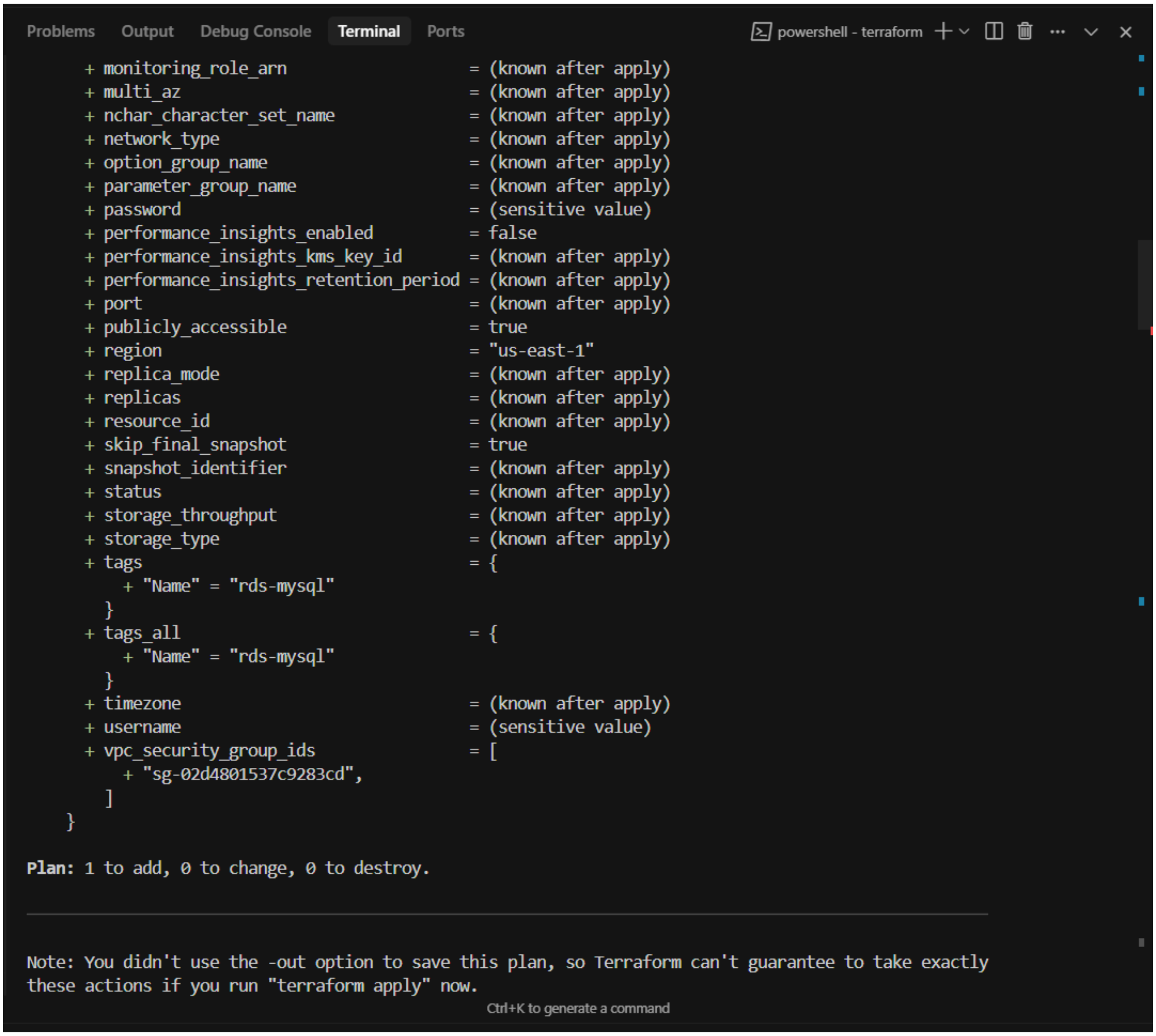


```
PS C:\Cloud Dev & Ops\Sem 2\Sem 2\Cloud Architecture\Final Project Cloud> cd .\terraform\
PS C:\Cloud Dev & Ops\Sem 2\Sem 2\Cloud Architecture\Final Project Cloud\terraform> terraform init
Initializing the backend...
Initializing provider plugins...
- Reusing previous version of hashicorp/aws from the dependency lock file
- Using previously-installed hashicorp/aws v6.7.0

Terraform has been successfully initialized!

You may now begin working with Terraform. Try running "terraform plan" to see
any changes that are required for your infrastructure. All Terraform commands
should now work.

If you ever set or change modules or backend configuration for Terraform,
rerun this command to reinitialize your working directory. If you forget, other
commands will detect it and remind you to do so if necessary.
```

Terraform plan:

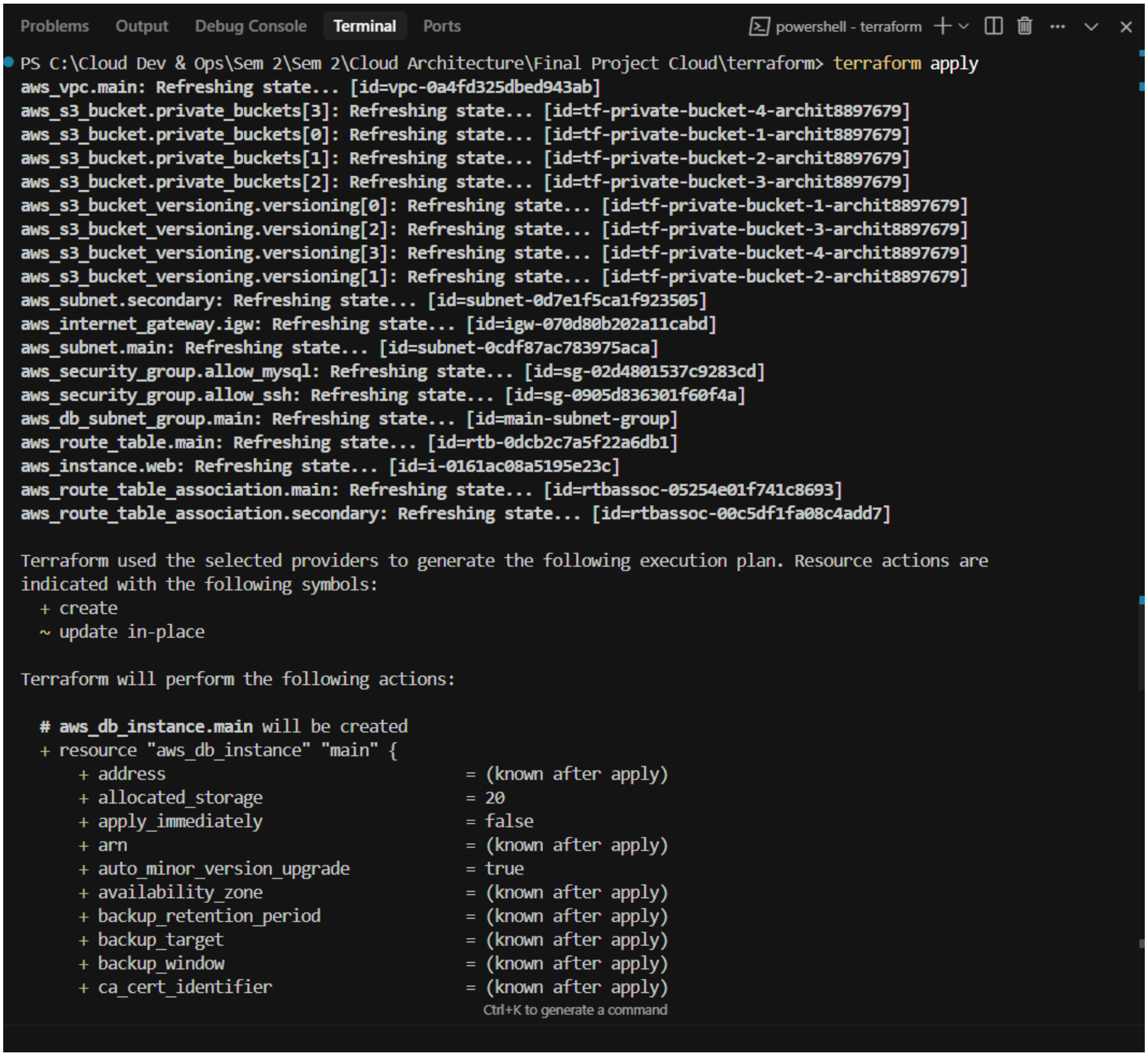


```
PS C:\Cloud Dev & Ops\Sem 2\Sem 2\Cloud Architecture\Final Project Cloud\terraform> terraform plan
aws_vpc.main: Refreshing state... [id=vpc-0a4fd325dbed943ab]
aws_s3_bucket.private_buckets[2]: Refreshing state... [id=tf-private-bucket-3-archit8897679]
aws_s3_bucket.private_buckets[3]: Refreshing state... [id=tf-private-bucket-4-archit8897679]
aws_s3_bucket.private_buckets[1]: Refreshing state... [id=tf-private-bucket-2-archit8897679]
aws_s3_bucket.private_buckets[0]: Refreshing state... [id=tf-private-bucket-1-archit8897679]
aws_s3_bucket_versioning.versioning[2]: Refreshing state... [id=tf-private-bucket-3-archit8897679]
aws_s3_bucket_versioning.versioning[1]: Refreshing state... [id=tf-private-bucket-2-archit8897679]
aws_s3_bucket_versioning.versioning[3]: Refreshing state... [id=tf-private-bucket-4-archit8897679]
aws_s3_bucket_versioning.versioning[0]: Refreshing state... [id=tf-private-bucket-1-archit8897679]
aws_internet_gateway.igw: Refreshing state... [id=igw-070d80b202a11cabd]
aws_subnet.secondary: Refreshing state... [id=subnet-0d7e1f5ca1f923505]
aws_subnet.main: Refreshing state... [id=subnet-0cdf87ac783975aca]
aws_security_group.allow_mysql: Refreshing state... [id=sg-02d4801537c9283cd]
aws_security_group.allow_ssh: Refreshing state... [id=sg-0905d836301f60f4a]
aws_route_table.main: Refreshing state... [id=rtb-0dcb2c7a5f22a6db1]
aws_route_table_association.secondary: Refreshing state... [id=rtbassoc-00c5df1fa08c4add7]
aws_route_table_association.main: Refreshing state... [id=rtbassoc-05254e01f741c8693]
aws_db_subnet_group.main: Refreshing state... [id=main-subnet-group]
aws_instance.web: Refreshing state... [id=i-0161ac08a5195e23c]

Terraform used the selected providers to generate the following execution plan. Resource actions are
indicated with the following symbols:
  + create

Terraform will perform the following actions:

  # aws_db_instance.main will be created
  + resource "aws_db_instance" "main" {
      + address                               = (known after apply)
      + allocated_storage                     = 20
      + apply_immediately                     = false
      + arn                                   = (known after apply)
      + auto_minor_version_upgrade            = true
      + availability_zone                     = (known after apply)
      + backup_retention_period               = (known after apply)
      + backup_target                         = (known after apply)
      + backup_window                         = (known after apply)
      + ca_cert_identifier                    = (known after apply)
      + character_set_name                    = (known after apply)
```

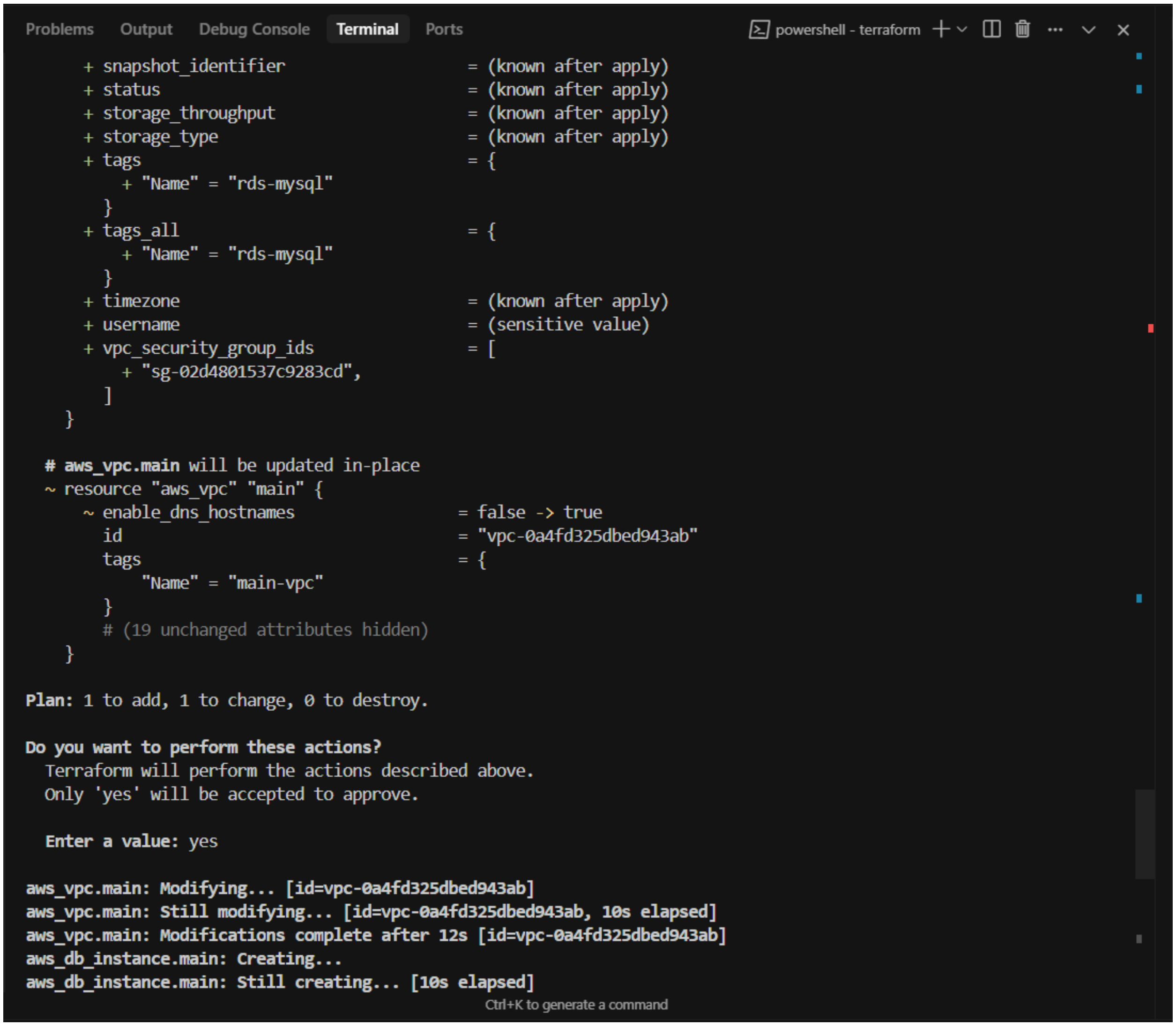


```
      + monitoring_role_arn                   = (known after apply)
      + multi_az                              = (known after apply)
      + nchar_character_set_name              = (known after apply)
      + network_type                          = (known after apply)
      + option_group_name                     = (known after apply)
      + parameter_group_name                  = (known after apply)
      + password                              = (sensitive value)
      + performance_insights_enabled          = false
      + performance_insights_kms_key_id       = (known after apply)
      + performance_insights_retention_period = (known after apply)
      + port                                  = (known after apply)
      + publicly_accessible                   = true
      + region                                = "us-east-1"
      + replica_mode                          = (known after apply)
      + replicas                              = (known after apply)
      + resource_id                           = (known after apply)
      + skip_final_snapshot                   = true
      + snapshot_identifier                   = (known after apply)
      + status                                = (known after apply)
      + storage_throughput                    = (known after apply)
      + storage_type                          = (known after apply)
      + tags                                  = {
          + "Name" = "rds-mysql"
        }
      + tags_all                              = {
          + "Name" = "rds-mysql"
        }
      + timezone                              = (known after apply)
      + username                              = (sensitive value)
      + vpc_security_group_ids                = [
          + "sg-02d4801537c9283cd",
        ]
    }

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

─────────────────────────────────────────────────────────────────────────────

Note: You didn't use the -out option to save this plan, so Terraform can't guarantee to take exactly
these actions if you run "terraform apply" now.
```

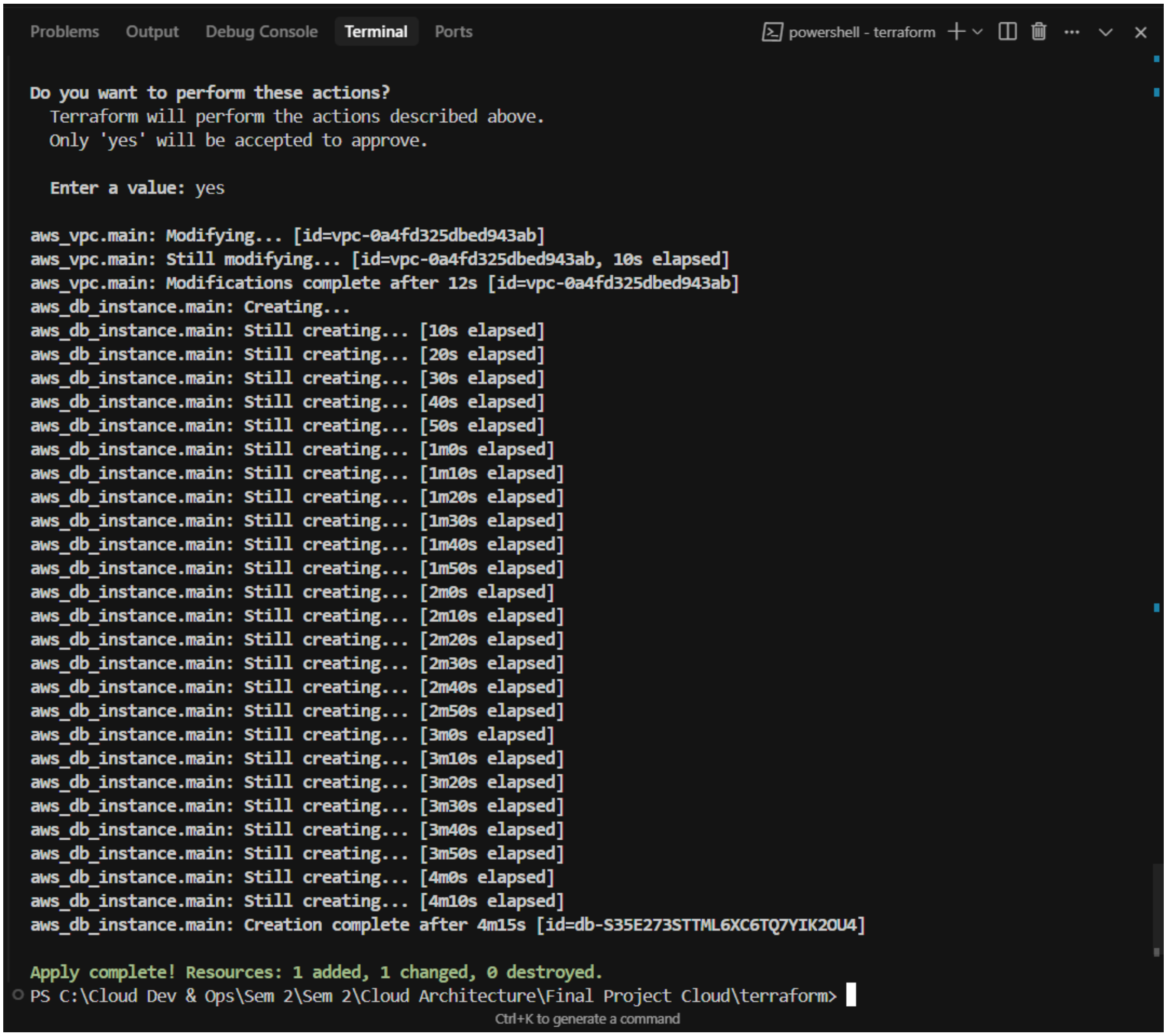
Terraform apply:



```
PS C:\Cloud Dev & Ops\Sem 2\Sem 2\Cloud Architecture\Final Project Cloud\terraform> terraform apply
aws_vpc.main: Refreshing state... [id=vpc-0a4fd325dbed943ab]
aws_s3_bucket.private_buckets[3]: Refreshing state... [id=tf-private-bucket-4-archit8897679]
aws_s3_bucket.private_buckets[0]: Refreshing state... [id=tf-private-bucket-1-archit8897679]
aws_s3_bucket.private_buckets[1]: Refreshing state... [id=tf-private-bucket-2-archit8897679]
aws_s3_bucket.private_buckets[2]: Refreshing state... [id=tf-private-bucket-3-archit8897679]
aws_s3_bucket_versioning.versioning[0]: Refreshing state... [id=tf-private-bucket-1-archit8897679]
aws_s3_bucket_versioning.versioning[2]: Refreshing state... [id=tf-private-bucket-3-archit8897679]
aws_s3_bucket_versioning.versioning[3]: Refreshing state... [id=tf-private-bucket-4-archit8897679]
aws_s3_bucket_versioning.versioning[1]: Refreshing state... [id=tf-private-bucket-2-archit8897679]
aws_subnet.secondary: Refreshing state... [id=subnet-0d7e1f5ca1f923505]
aws_internet_gateway.igw: Refreshing state... [id=igw-070d80b202a11cabd]
aws_subnet.main: Refreshing state... [id=subnet-0cdf87ac783975aca]
aws_security_group.allow_mysql: Refreshing state... [id=sg-02d4801537c9283cd]
aws_security_group.allow_ssh: Refreshing state... [id=sg-0905d836301f60f4a]
aws_db_subnet_group.main: Refreshing state... [id=main-subnet-group]
aws_route_table.main: Refreshing state... [id=rtb-0dcb2c7a5f22a6db1]
aws_instance.web: Refreshing state... [id=i-0161ac08a5195e23c]
aws_route_table_association.main: Refreshing state... [id=rtbassoc-05254e01f741c8693]
aws_route_table_association.secondary: Refreshing state... [id=rtbassoc-00c5df1fa08c4add7]

Terraform used the selected providers to generate the following execution plan. Resource actions are
indicated with the following symbols:
  + create
  ~ update in-place

Terraform will perform the following actions:

  # aws_db_instance.main will be created
  + resource "aws_db_instance" "main" {
      + address                               = (known after apply)
      + allocated_storage                     = 20
      + apply_immediately                     = false
      + arn                                   = (known after apply)
      + auto_minor_version_upgrade            = true
      + availability_zone                     = (known after apply)
      + backup_retention_period               = (known after apply)
      + backup_target                         = (known after apply)
      + backup_window                         = (known after apply)
      + ca_cert_identifier                    = (known after apply)
```



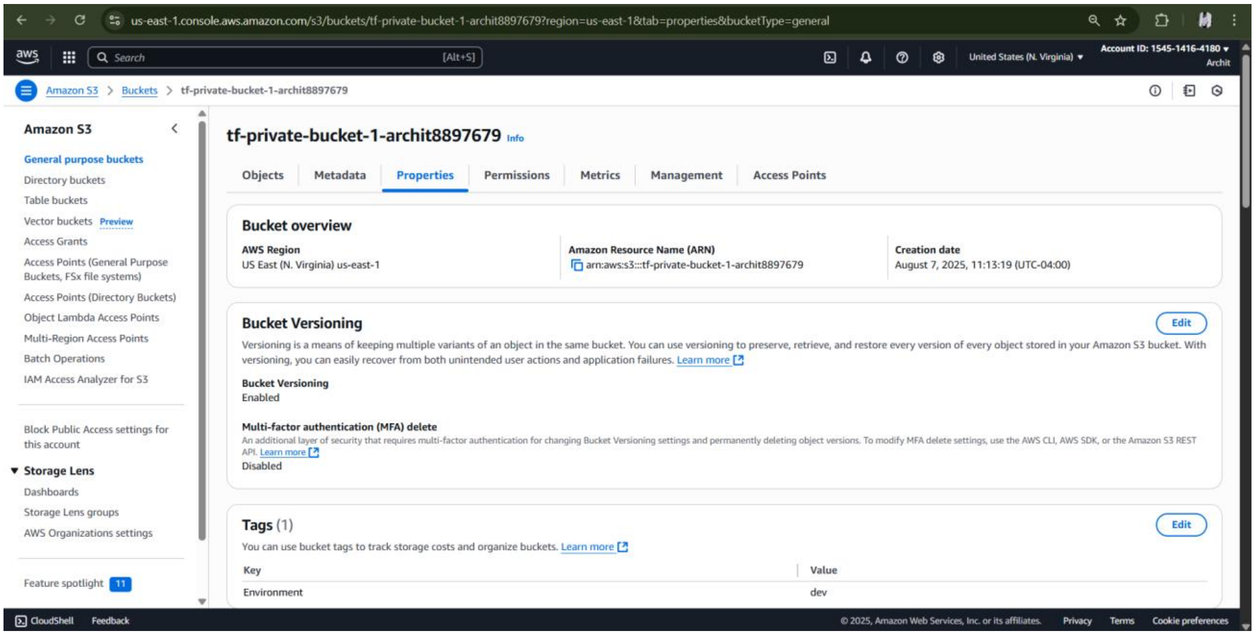
```
      + snapshot_identifier                   = (known after apply)
      + status                                = (known after apply)
      + storage_throughput                    = (known after apply)
      + storage_type                          = (known after apply)
      + tags                                  = {
          + "Name" = "rds-mysql"
        }
      + tags_all                              = {
          + "Name" = "rds-mysql"
        }
      + timezone                              = (known after apply)
      + username                              = (sensitive value)
      + vpc_security_group_ids                = [
          + "sg-02d4801537c9283cd",
        ]
    }

  # aws_vpc.main will be updated in-place
  ~ resource "aws_vpc" "main" {
      ~ enable_dns_hostnames                 = false -> true
        id                                   = "vpc-0a4fd325dbed943ab"
        tags                                 = {
            "Name" = "main-vpc"
        }
        # (19 unchanged attributes hidden)
    }

Plan: 1 to add, 1 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

aws_vpc.main: Modifying... [id=vpc-0a4fd325dbed943ab]
aws_vpc.main: Still modifying... [id=vpc-0a4fd325dbed943ab, 10s elapsed]
aws_vpc.main: Modifications complete after 12s [id=vpc-0a4fd325dbed943ab]
aws_db_instance.main: Creating...
aws_db_instance.main: Still creating... [10s elapsed]
```



```
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

aws_vpc.main: Modifying... [id=vpc-0a4fd325dbed943ab]
aws_vpc.main: Still modifying... [id=vpc-0a4fd325dbed943ab, 10s elapsed]
aws_vpc.main: Modifications complete after 12s [id=vpc-0a4fd325dbed943ab]
aws_db_instance.main: Creating...
aws_db_instance.main: Still creating... [10s elapsed]
aws_db_instance.main: Still creating... [20s elapsed]
aws_db_instance.main: Still creating... [30s elapsed]
aws_db_instance.main: Still creating... [40s elapsed]
aws_db_instance.main: Still creating... [50s elapsed]
aws_db_instance.main: Still creating... [1m0s elapsed]
aws_db_instance.main: Still creating... [1m10s elapsed]
aws_db_instance.main: Still creating... [1m20s elapsed]
aws_db_instance.main: Still creating... [1m30s elapsed]
aws_db_instance.main: Still creating... [1m40s elapsed]
aws_db_instance.main: Still creating... [1m50s elapsed]
aws_db_instance.main: Still creating... [2m0s elapsed]
aws_db_instance.main: Still creating... [2m10s elapsed]
aws_db_instance.main: Still creating... [2m20s elapsed]
aws_db_instance.main: Still creating... [2m30s elapsed]
aws_db_instance.main: Still creating... [2m40s elapsed]
aws_db_instance.main: Still creating... [2m50s elapsed]
aws_db_instance.main: Still creating... [3m0s elapsed]
aws_db_instance.main: Still creating... [3m10s elapsed]
aws_db_instance.main: Still creating... [3m20s elapsed]
aws_db_instance.main: Still creating... [3m30s elapsed]
aws_db_instance.main: Still creating... [3m40s elapsed]
aws_db_instance.main: Still creating... [3m50s elapsed]
aws_db_instance.main: Still creating... [4m0s elapsed]
aws_db_instance.main: Still creating... [4m10s elapsed]
aws_db_instance.main: Creation complete after 4m15s [id=db-S35E273STTML6XC6TQ7YIK2OU4]

Apply complete! Resources: 1 added, 1 changed, 0 destroyed.
PS C:\Cloud Dev & Ops\Sem 2\Sem 2\Cloud Architecture\Final Project Cloud\terraform>
```

S3 Bucket + Versioning Enable

1. tf-private-bucket-1-archit8897679


us-east-1.console.aws.amazon.com/s3/buckets/tf-private-bucket-1-archit8897679?region=us-east-1&tab=properties&bucketType=general
aws
Search
[Alt+S]
United States (N. Virginia) ▾
Account ID: 1545-1416-4180 ▾
Archit
Amazon S3 > Buckets > tf-private-bucket-1-archit8897679
Amazon S3
General purpose buckets
Directory buckets
Table buckets
Vector buckets Preview
Access Grants
Access Points (General Purpose Buckets, FSx file systems)
Access Points (Directory Buckets)
Object Lambda Access Points
Multi-Region Access Points
Batch Operations
IAM Access Analyzer for S3
Block Public Access settings for this account
▼ Storage Lens
Dashboards
Storage Lens groups
AWS Organizations settings
Feature spotlight 11
Objects
Metadata
Properties
Permissions
Metrics
Management
Access Points
Edit
Edit
CloudShell
Feedback
© 2025, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences

tf-private-bucket-1-archit8897679 Info

Bucket overview

AWS Region	Amazon Resource Name (ARN)	Creation date
US East (N. Virginia) us-east-1	arn:aws:s3:::tf-private-bucket-1-archit8897679	August 7, 2025, 11:13:19 (UTC-04:00)

Bucket Versioning

Versioning is a means of keeping multiple variants of an object in the same bucket. You can use versioning to preserve, retrieve, and restore every version of every object stored in your Amazon S3 bucket. With versioning, you can easily recover from both unintended user actions and application failures. Learn more

Bucket Versioning
Enabled

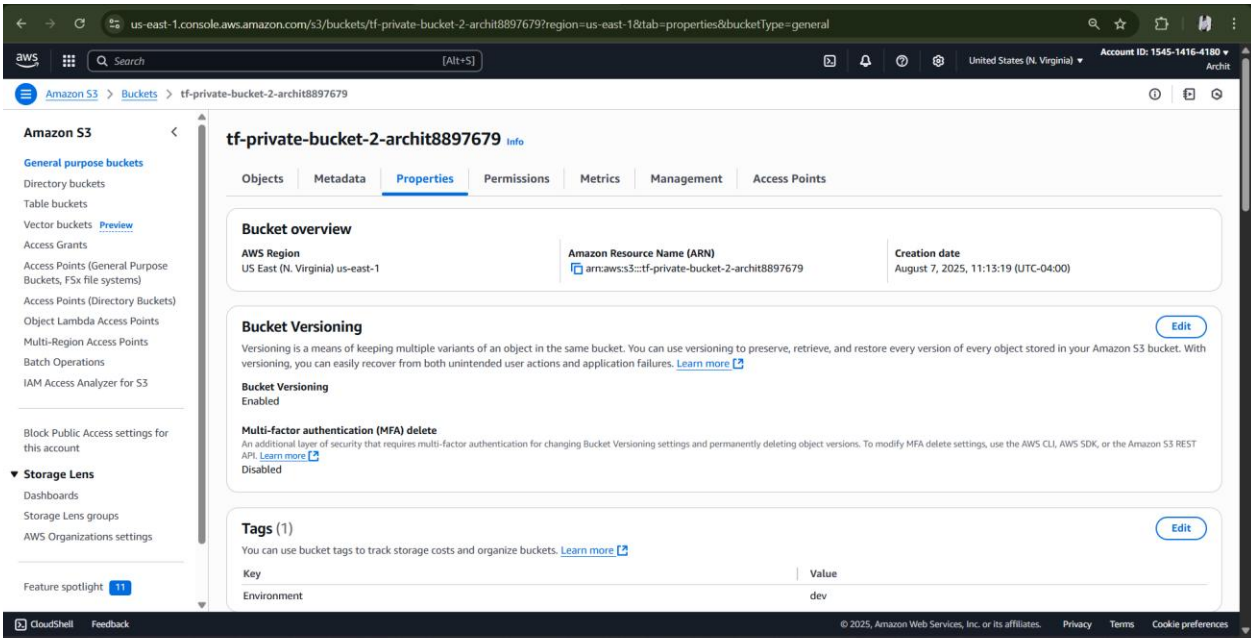
Multi-factor authentication (MFA) delete
An additional layer of security that requires multi-factor authentication for changing Bucket Versioning settings and permanently deleting object versions. To modify MFA delete settings, use the AWS CLI, AWS SDK, or the Amazon S3 REST API. Learn more
Disabled

Tags (1)

You can use bucket tags to track storage costs and organize buckets. Learn more

Key	Value
Environment	dev

2. tf-private-bucket-2-archit8897679


us-east-1.console.aws.amazon.com/s3/buckets/tf-private-bucket-2-archit8897679?region=us-east-1&tab=properties&bucketType=general
aws
Search
[Alt+S]
United States (N. Virginia) ▾
Account ID: 1545-1416-4180 ▾
Archit
Amazon S3 > Buckets > tf-private-bucket-2-archit8897679
Amazon S3
General purpose buckets
Directory buckets
Table buckets
Vector buckets Preview
Access Grants
Access Points (General Purpose Buckets, FSx file systems)
Access Points (Directory Buckets)
Object Lambda Access Points
Multi-Region Access Points
Batch Operations
IAM Access Analyzer for S3
Block Public Access settings for this account
▼ Storage Lens
Dashboards
Storage Lens groups
AWS Organizations settings
Feature spotlight 11
Objects
Metadata
Properties
Permissions
Metrics
Management
Access Points
Edit
Edit
CloudShell
Feedback
© 2025, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences

tf-private-bucket-2-archit8897679 Info

Bucket overview

AWS Region	Amazon Resource Name (ARN)	Creation date
US East (N. Virginia) us-east-1	arn:aws:s3:::tf-private-bucket-2-archit8897679	August 7, 2025, 11:13:19 (UTC-04:00)

Bucket Versioning

Versioning is a means of keeping multiple variants of an object in the same bucket. You can use versioning to preserve, retrieve, and restore every version of every object stored in your Amazon S3 bucket. With versioning, you can easily recover from both unintended user actions and application failures. Learn more

Bucket Versioning
Enabled

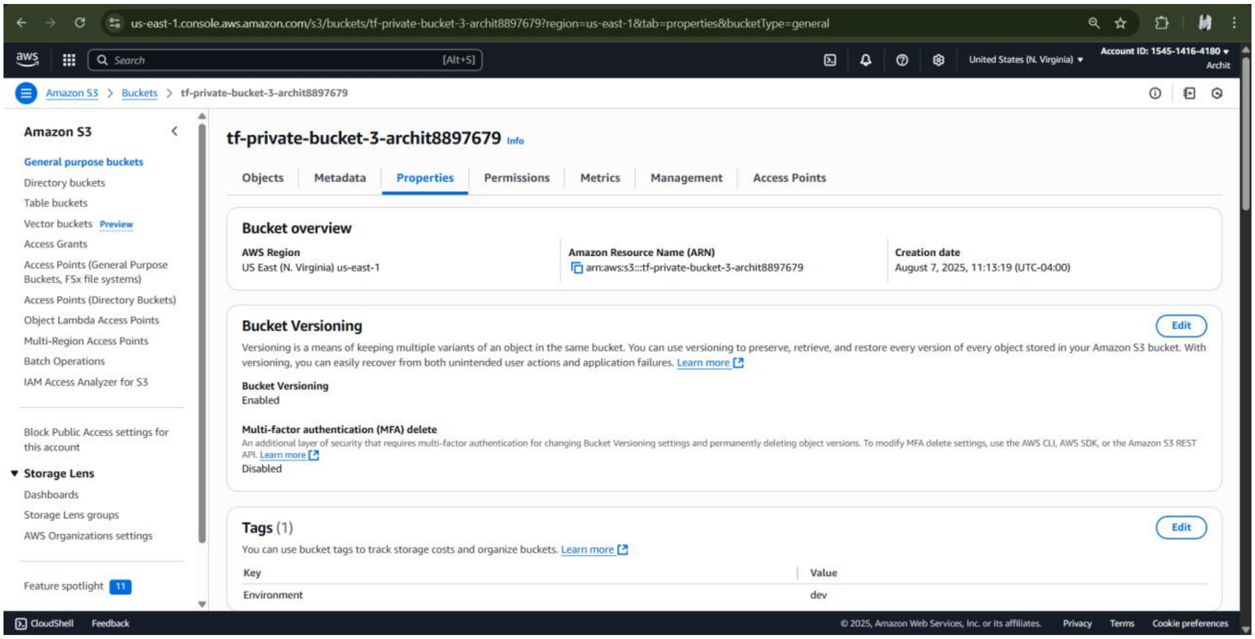
Multi-factor authentication (MFA) delete
An additional layer of security that requires multi-factor authentication for changing Bucket Versioning settings and permanently deleting object versions. To modify MFA delete settings, use the AWS CLI, AWS SDK, or the Amazon S3 REST API. Learn more
Disabled

Tags (1)

You can use bucket tags to track storage costs and organize buckets. Learn more

Key	Value
Environment	dev

3. tf-private-bucket-3-archit8897679


us-east-1.console.aws.amazon.com/s3/buckets/tf-private-bucket-3-archit8897679?region=us-east-1&tab=properties&bucketType=general
aws
Search
[Alt+S]
United States (N. Virginia) ▾
Account ID: 1545-1416-4180 ▾
Archit
Amazon S3 > Buckets > tf-private-bucket-3-archit8897679
Amazon S3
General purpose buckets
Directory buckets
Table buckets
Vector buckets Preview
Access Grants
Access Points (General Purpose Buckets, FSx file systems)
Access Points (Directory Buckets)
Object Lambda Access Points
Multi-Region Access Points
Batch Operations
IAM Access Analyzer for S3
Block Public Access settings for this account
▼ Storage Lens
Dashboards
Storage Lens groups
AWS Organizations settings
Feature spotlight 11
Info
Objects
Metadata
Properties
Permissions
Metrics
Management
Access Points
Edit
Edit
CloudShell
Feedback
© 2025, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences

tf-private-bucket-3-archit8897679

Bucket overview

AWS Region
US East (N. Virginia) us-east-1

Amazon Resource Name (ARN)
arn:aws:s3:::tf-private-bucket-3-archit8897679

Creation date
August 7, 2025, 11:13:19 (UTC-04:00)

Bucket Versioning

Versioning is a means of keeping multiple variants of an object in the same bucket. You can use versioning to preserve, retrieve, and restore every version of every object stored in your Amazon S3 bucket. With versioning, you can easily recover from both unintended user actions and application failures. Learn more

Bucket Versioning
Enabled

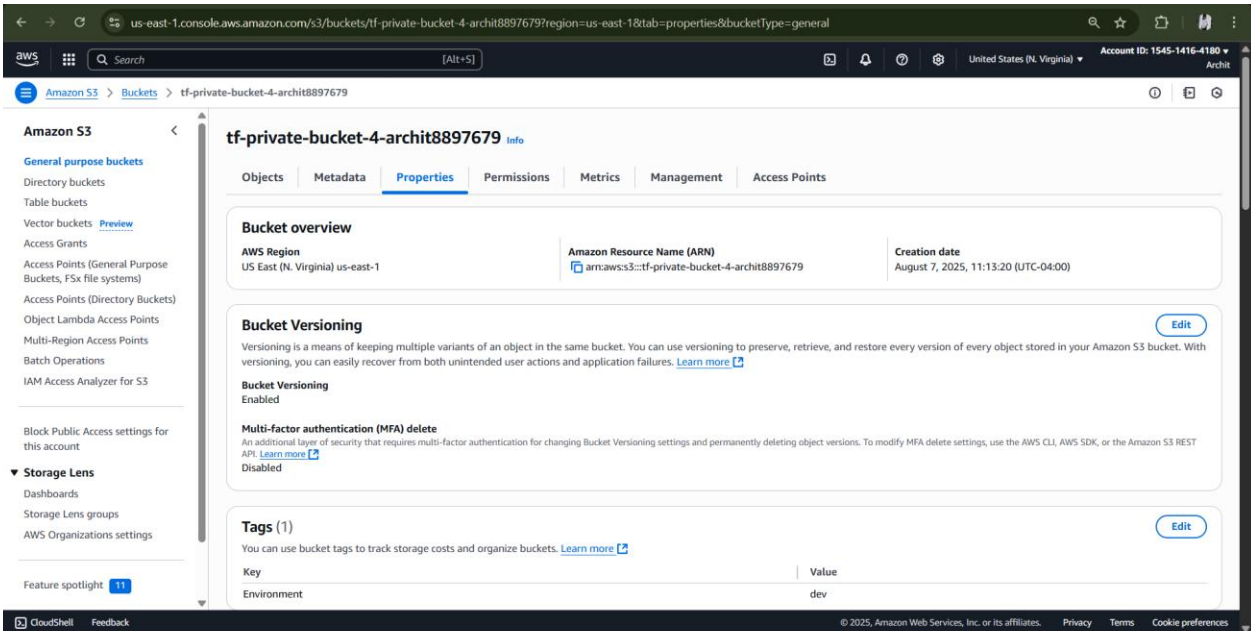
Multi-factor authentication (MFA) delete
An additional layer of security that requires multi-factor authentication for changing Bucket Versioning settings and permanently deleting object versions. To modify MFA delete settings, use the AWS CLI, AWS SDK, or the Amazon S3 REST API. Learn more
Disabled

Tags (1)

You can use bucket tags to track storage costs and organize buckets. Learn more

Key	Value
Environment	dev

4. tf-private-bucket-4-archit8897679


us-east-1.console.aws.amazon.com/s3/buckets/tf-private-bucket-4-archit8897679?region=us-east-1&tab=properties&bucketType=general
aws
Search
[Alt+S]
United States (N. Virginia) ▾
Account ID: 1545-1416-4180 ▾
Archit
Amazon S3 > Buckets > tf-private-bucket-4-archit8897679
Amazon S3
General purpose buckets
Directory buckets
Table buckets
Vector buckets Preview
Access Grants
Access Points (General Purpose Buckets, FSx file systems)
Access Points (Directory Buckets)
Object Lambda Access Points
Multi-Region Access Points
Batch Operations
IAM Access Analyzer for S3
Block Public Access settings for this account
▼ Storage Lens
Dashboards
Storage Lens groups
AWS Organizations settings
Feature spotlight 11
Info
Objects
Metadata
Properties
Permissions
Metrics
Management
Access Points
Edit
Edit
CloudShell
Feedback
© 2025, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences

tf-private-bucket-4-archit8897679

Bucket overview

AWS Region
US East (N. Virginia) us-east-1

Amazon Resource Name (ARN)
arn:aws:s3:::tf-private-bucket-4-archit8897679

Creation date
August 7, 2025, 11:13:20 (UTC-04:00)

Bucket Versioning

Versioning is a means of keeping multiple variants of an object in the same bucket. You can use versioning to preserve, retrieve, and restore every version of every object stored in your Amazon S3 bucket. With versioning, you can easily recover from both unintended user actions and application failures. Learn more

Bucket Versioning
Enabled

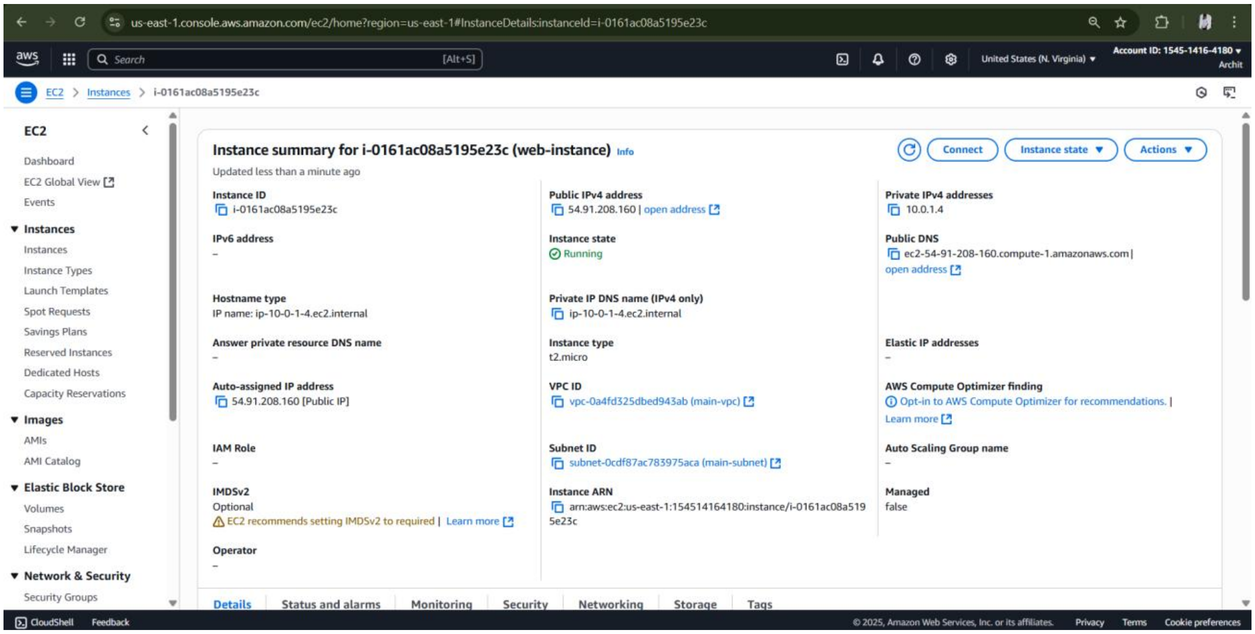
Multi-factor authentication (MFA) delete
An additional layer of security that requires multi-factor authentication for changing Bucket Versioning settings and permanently deleting object versions. To modify MFA delete settings, use the AWS CLI, AWS SDK, or the Amazon S3 REST API. Learn more
Disabled

Tags (1)

You can use bucket tags to track storage costs and organize buckets. Learn more

Key	Value
Environment	dev

EC2 Instance



Instance summary for i-0161ac08a5195e23c (web-instance) Info

Updated less than a minute ago

Instance ID
i-0161ac08a5195e23c

IPv6 address
–

Hostname type
IP name: ip-10-0-1-4.ec2.internal

Answer private resource DNS name
–

Auto-assigned IP address
54.91.208.160 [Public IP]

IAM Role
–

IMDSv2
Optional
⚠ EC2 recommends setting IMDSv2 to required | Learn more

Operator
–

Public IPv4 address
54.91.208.160 | open address

Instance state
✓ Running

Private IP DNS name (IPv4 only)
ip-10-0-1-4.ec2.internal

Instance type
t2.micro

VPC ID
vpc-0a4fd325dbed943ab (main-vpc)

Subnet ID
subnet-0cdf87ac783975aca (main-subnet)

Instance ARN
arn:aws:ec2:us-east-1:154514164180:instance/i-0161ac08a5195e23c

Private IPv4 addresses
10.0.1.4

Public DNS
ec2-54-91-208-160.compute-1.amazonaws.com |
open address

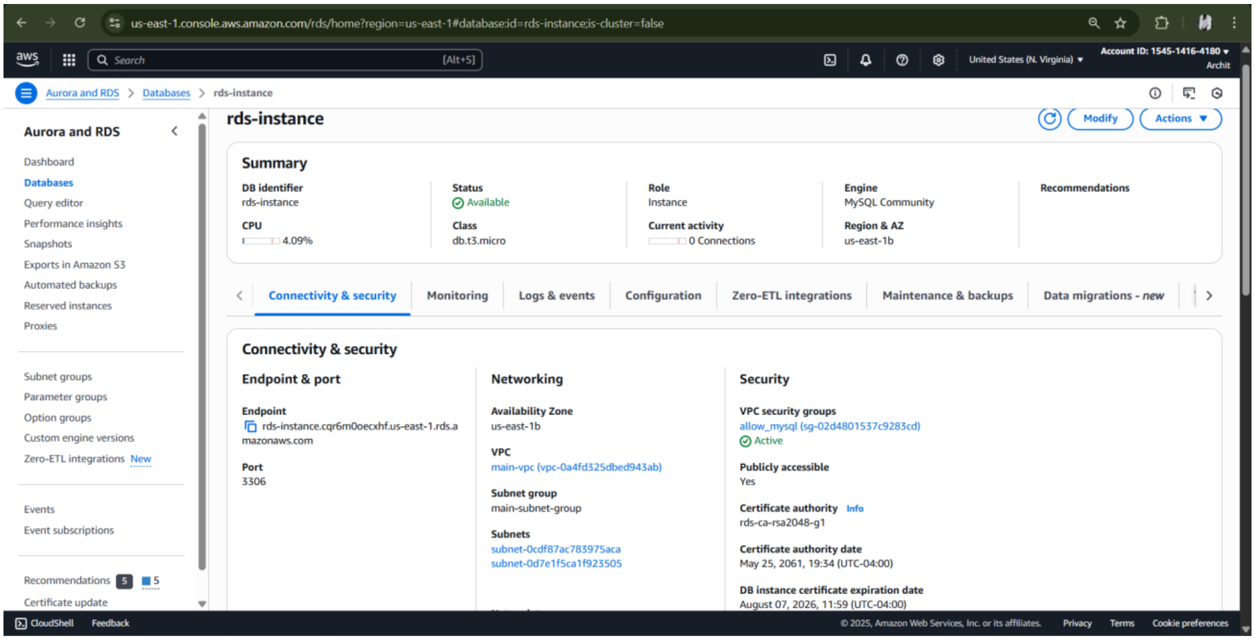
Elastic IP addresses
–

AWS Compute Optimizer finding
ⓘ Opt-in to AWS Compute Optimizer for recommendations. |
Learn more

Auto Scaling Group name
–

Managed
false

RDS Database



rds-instance

Summary

DB identifier
rds-instance

CPU
4.09%

Status
✓ Available

Class
db.t3.micro

Role
Instance

Current activity
0 Connections

Engine
MySQL Community

Region & AZ
us-east-1b

Recommendations

Connectivity & security

Endpoint & port

Endpoint
rds-instance.cqr6m0oecxhf.us-east-1.rds.amazonaws.com

Port
3306

Networking

Availability Zone
us-east-1b

VPC
main-vpc (vpc-0a4fd325dbed943ab)

Subnet group
main-subnet-group

Subnets
subnet-0cdf87ac783975aca
subnet-0d7e1f5ca1f923505

Security

VPC security groups
allow_mysql (sg-02d4801537c9283cd)
✓ Active

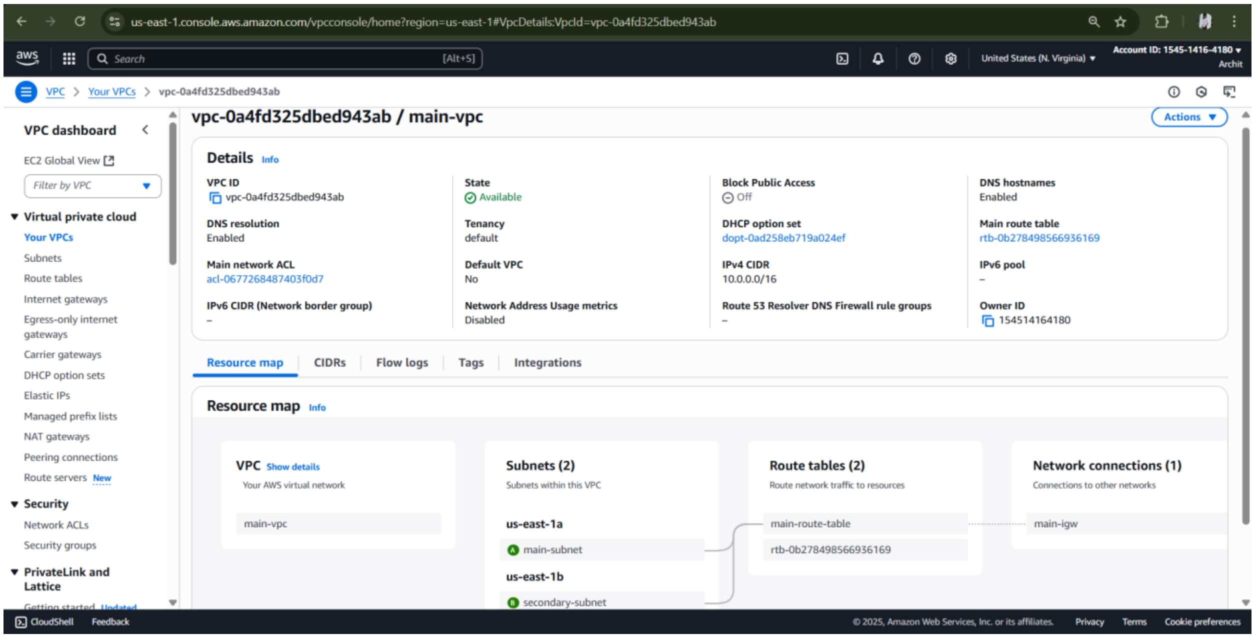
Publicly accessible
Yes

Certificate authority Info
rds-ca-rsa2048-g1

Certificate authority date
May 25, 2061, 19:34 (UTC-04:00)

DB instance certificate expiration date
August 07, 2026, 11:59 (UTC-04:00)

VPC



vpc-0a4fd325dbed943ab / main-vpc

Details

VPC ID
vpc-0a4fd325dbed943ab

DNS resolution
Enabled

Main network ACL
acl-0677268487403f0d7

IPv6 CIDR (Network border group)
–

State
Available

Tenancy
default

Default VPC
No

Network Address Usage metrics
Disabled

Block Public Access
Off

DHCP option set
dopt-0ad258eb719a024ef

IPv4 CIDR
10.0.0.0/16

Route 53 Resolver DNS Firewall rule groups
–

DNS hostnames
Enabled

Main route table
rtb-0b278498566936169

IPv6 pool
–

Owner ID
154514164180

Resource map

VPC Show details
Your AWS virtual network
main-vpc

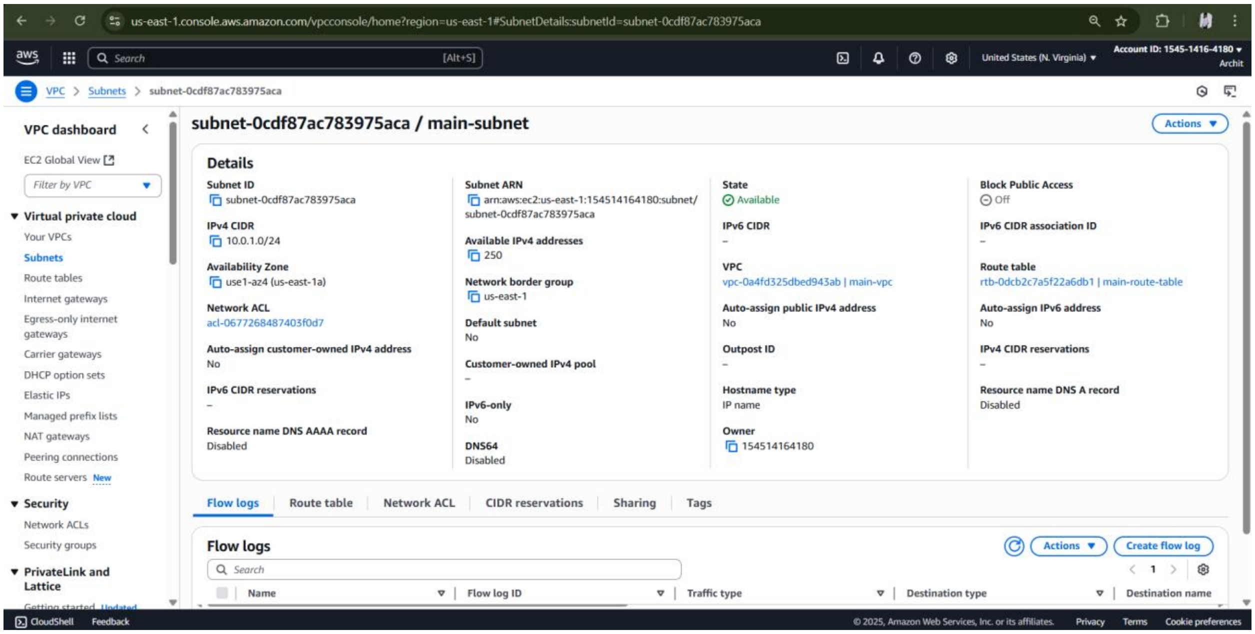
Subnets (2)
Subnets within this VPC
us-east-1a
A main-subnet
us-east-1b
B secondary-subnet

Route tables (2)
Route network traffic to resources
main-route-table
rtb-0b278498566936169

Network connections (1)
Connections to other networks
main-igw

Subnets

1. main subnet



subnet-0cdf87ac783975aca / main-subnet

Details

Subnet ID
subnet-0cdf87ac783975aca

IPv4 CIDR
10.0.1.0/24

Availability Zone
use1-az4 (us-east-1a)

Network ACL
acl-0677268487403f0d7

Auto-assign customer-owned IPv4 address
No

IPv6 CIDR reservations
–

Resource name DNS AAAA record
Disabled

Subnet ARN
arn:aws:ec2:us-east-1:154514164180:subnet/subnet-0cdf87ac783975aca

Available IPv4 addresses
250

Network border group
us-east-1

Default subnet
No

Customer-owned IPv4 pool
–

IPv6-only
No

DNS64
Disabled

State
Available

IPv6 CIDR
–

VPC
vpc-0a4fd325dbed943ab | main-vpc

Auto-assign public IPv4 address
No

Outpost ID
–

Hostname type
IP name

Owner
154514164180

Block Public Access
Off

IPv6 CIDR association ID
–

Route table
rtb-0dcb2c7a5f22a6db1 | main-route-table

Auto-assign IPv6 address
No

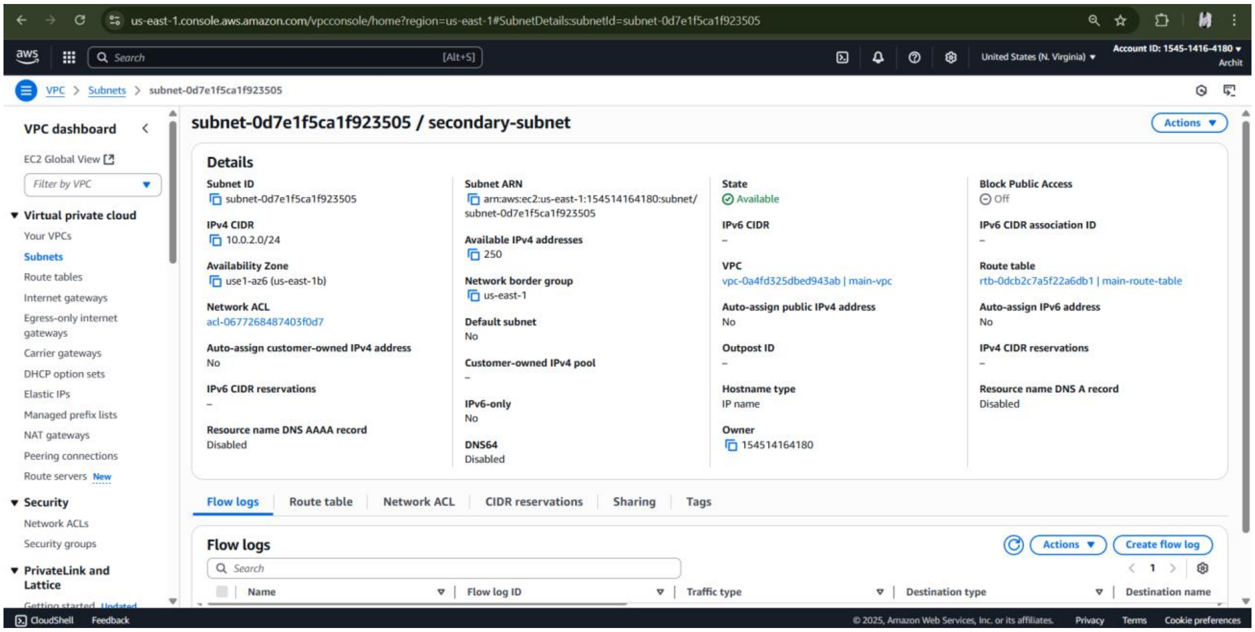
IPv4 CIDR reservations
–

Resource name DNS A record
Disabled

Flow logs

Name	Flow log ID	Traffic type	Destination type	Destination name

2. secondary subnet



subnet-0d7e1f5ca1f923505 / secondary-subnet

Details

Subnet ID
subnet-0d7e1f5ca1f923505

IPv4 CIDR
10.0.2.0/24

Availability Zone
use1-az6 (us-east-1b)

Network ACL
acl-0677268487403f0d7

Auto-assign customer-owned IPv4 address
No

IPv6 CIDR reservations
–

Resource name DNS AAAA record
Disabled

Subnet ARN
arn:aws:ec2:us-east-1:154514164180:subnet/subnet-0d7e1f5ca1f923505

Available IPv4 addresses
250

Network border group
us-east-1

Default subnet
No

Customer-owned IPv4 pool
–

IPv6-only
No

DNS64
Disabled

State
Available

IPv6 CIDR
–

VPC
vpc-0a4fd325dbed943ab | main-vpc

Auto-assign public IPv4 address
No

Outpost ID
–

Hostname type
IP name

Owner
154514164180

Block Public Access
Off

IPv6 CIDR association ID
–

Route table
rtb-0dcb2c7a5f22a6db1 | main-route-table

Auto-assign IPv6 address
No

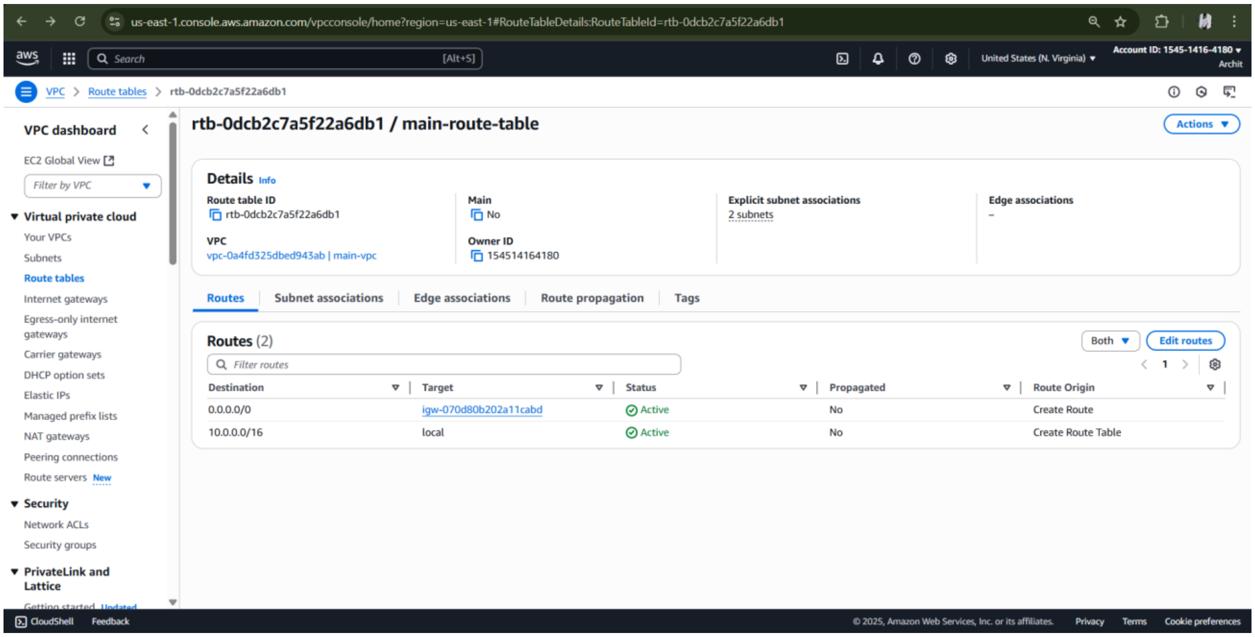
IPv4 CIDR reservations
–

Resource name DNS A record
Disabled

Flow logs

Name	Flow log ID	Traffic type	Destination type	Destination name

Route Tables



rtb-0dcb2c7a5f22a6db1 / main-route-table

Details

Route table ID
rtb-0dcb2c7a5f22a6db1

VPC
vpc-0a4fd325dbed943ab | main-vpc

Main
No

Owner ID
154514164180

Explicit subnet associations
2 subnets

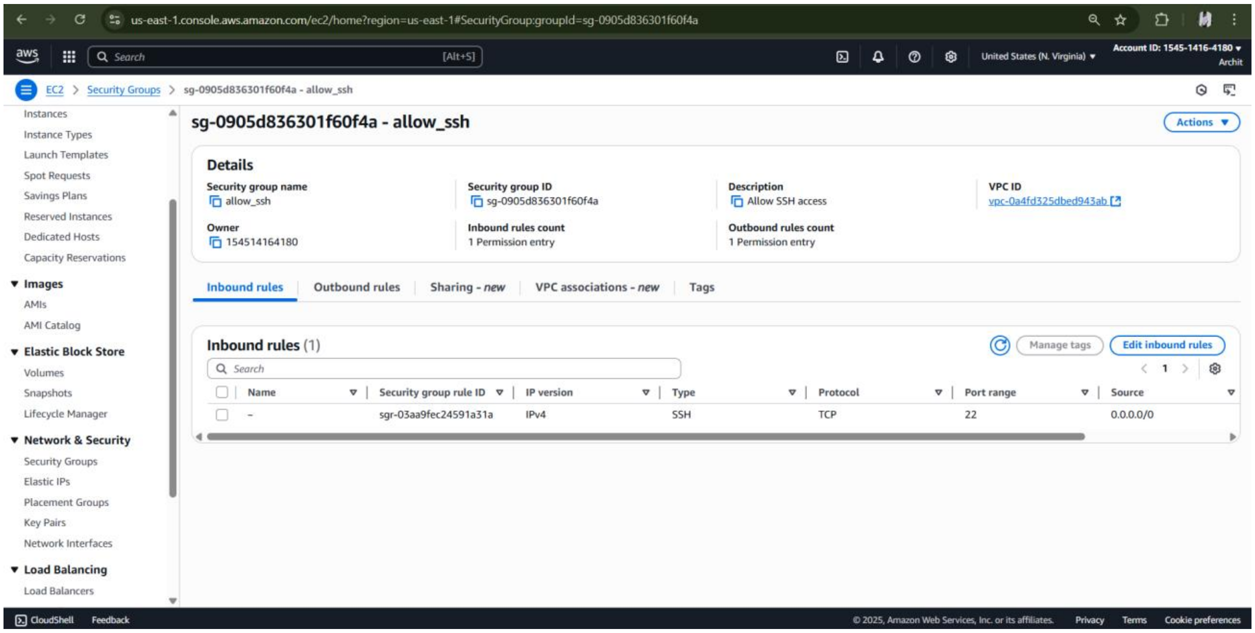
Edge associations
–

Routes (2)

Destination	Target	Status	Propagated	Route Origin
0.0.0.0/0	igw-070d80b202a11cabd	Active	No	Create Route
10.0.0.0/16	local	Active	No	Create Route Table

Security Groups

1. allow_ssh with port 22



sg-0905d836301f60f4a - allow_ssh

Details

Security group name: allow_ssh

Security group ID: sg-0905d836301f60f4a

Description: Allow SSH access

VPC ID: vpc-0a4fd325dbed943ab

Owner: 154514164180

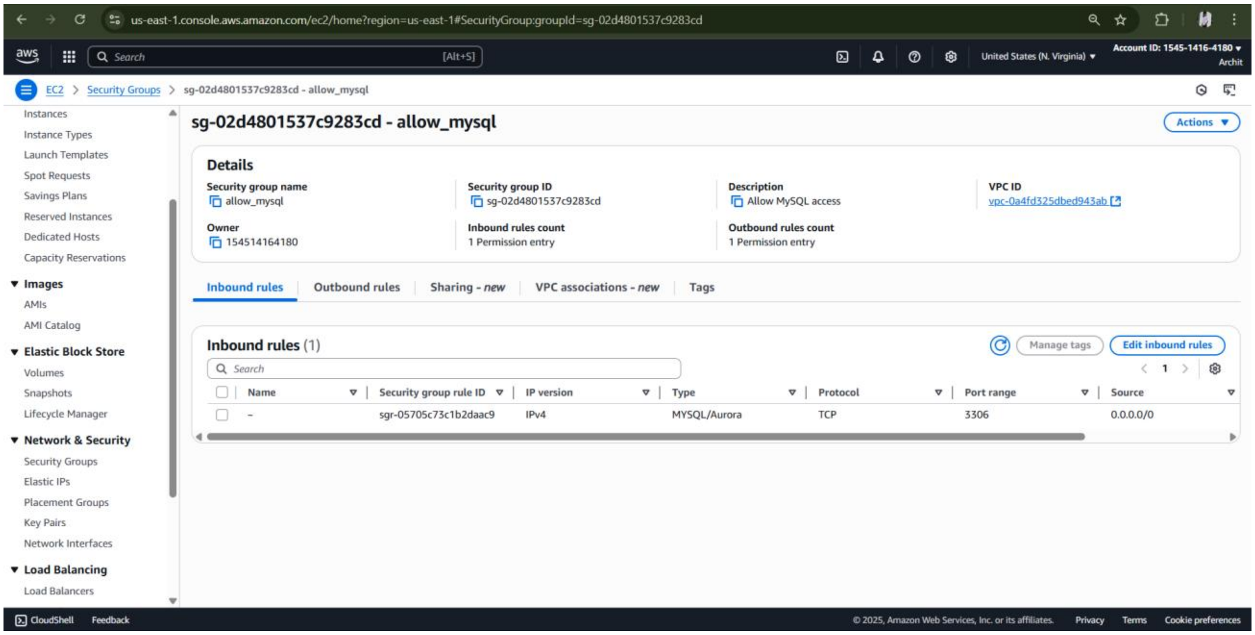
Inbound rules count: 1 Permission entry

Outbound rules count: 1 Permission entry

Inbound rules (1)

Name	Security group rule ID	IP version	Type	Protocol	Port range	Source
-	sgr-03aa9fec24591a31a	IPv4	SSH	TCP	22	0.0.0.0/0

2. allow_mysql with port 3306



sg-02d4801537c9283cd - allow_mysql

Details

Security group name: allow_mysql

Security group ID: sg-02d4801537c9283cd

Description: Allow MySQL access

VPC ID: vpc-0a4fd325dbed943ab

Owner: 154514164180

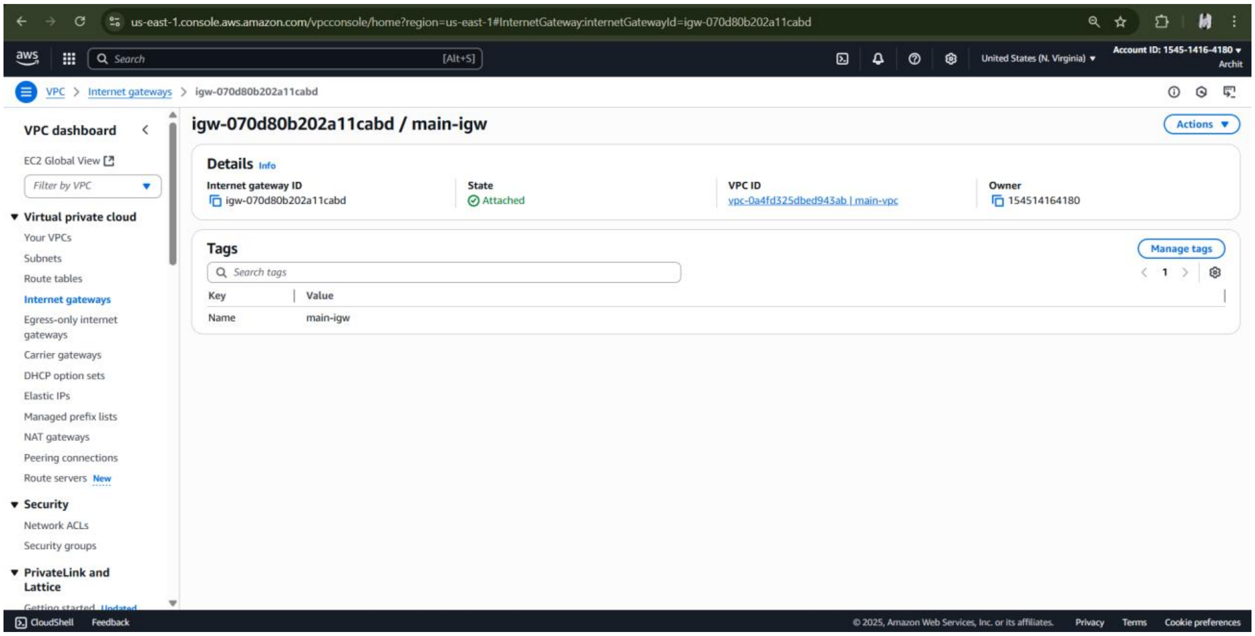
Inbound rules count: 1 Permission entry

Outbound rules count: 1 Permission entry

Inbound rules (1)

Name	Security group rule ID	IP version	Type	Protocol	Port range	Source
-	sgr-05705c73c1b2daac9	IPv4	MYSQL/Aurora	TCP	3306	0.0.0.0/0

Internet Gateway



igw-070d80b202a11cabd / main-igw

Details

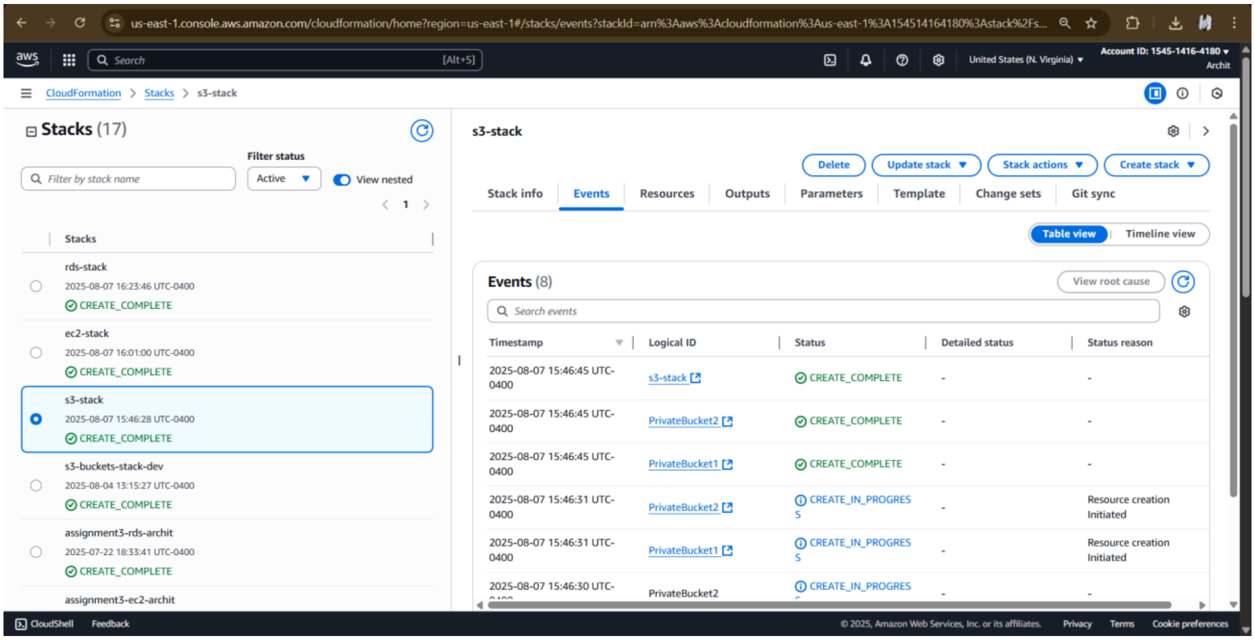
Internet gateway ID	State	VPC ID	Owner
igw-070d80b202a11cabd	✓ Attached	vpc-0a4fd325dbed943ab | main-vpc	154514164180

Tags

Key	Value
Name	main-igw

CloudFormation

S3 Stack


us-east-1.console.aws.amazon.com/cloudformation/home?region=us-east-1#/stacks/events?stackId=arn%3Aaws%3Acloudformation%3Aus-east-1%3A154514164180%3Astack%2Fs...
aws
Search [Alt+S]
United States (N. Virginia) ▾
Account ID: 1545-1416-4180 ▾
Archit
CloudFormation > Stacks > s3-stack
Filter by stack name
Filter status
Active ▼
View nested
Delete
Update stack ▼
Stack actions ▼
Create stack ▼
Stack info
Events
Resources
Outputs
Parameters
Template
Change sets
Git sync
Table view
Timeline view
View root cause
Search events
CloudShell
Feedback
© 2025, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences

Stacks (17)

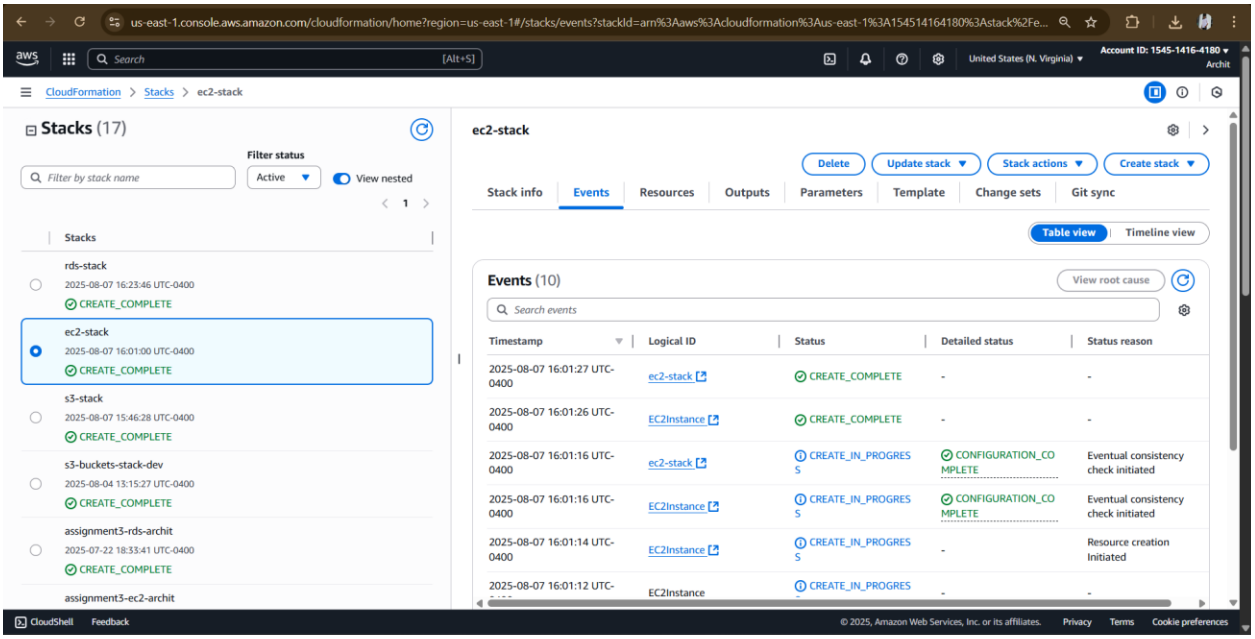
	Stacks
○	rds-stack 2025-08-07 16:23:46 UTC-0400 ✓ CREATE_COMPLETE
○	ec2-stack 2025-08-07 16:01:00 UTC-0400 ✓ CREATE_COMPLETE
●	s3-stack 2025-08-07 15:46:28 UTC-0400 ✓ CREATE_COMPLETE
○	s3-buckets-stack-dev 2025-08-04 13:15:27 UTC-0400 ✓ CREATE_COMPLETE
○	assignment3-rds-archit 2025-07-22 18:33:41 UTC-0400 ✓ CREATE_COMPLETE
	assignment3-ec2-archit

s3-stack

Events (8)

Timestamp	Logical ID	Status	Detailed status	Status reason
2025-08-07 15:46:45 UTC-0400	s3-stack	✓ CREATE_COMPLETE	-	-
2025-08-07 15:46:45 UTC-0400	PrivateBucket2	✓ CREATE_COMPLETE	-	-
2025-08-07 15:46:45 UTC-0400	PrivateBucket1	✓ CREATE_COMPLETE	-	-
2025-08-07 15:46:31 UTC-0400	PrivateBucket2	ⓘ CREATE_IN_PROGRESS	-	Resource creation Initiated
2025-08-07 15:46:31 UTC-0400	PrivateBucket1	ⓘ CREATE_IN_PROGRESS	-	Resource creation Initiated
2025-08-07 15:46:30 UTC-	PrivateBucket2	ⓘ CREATE_IN_PROGRES	-	-

EC2 Stack


us-east-1.console.aws.amazon.com/cloudformation/home?region=us-east-1#/stacks/events?stackId=arn%3Aaws%3Acloudformation%3Aus-east-1%3A154514164180%3Astack%2Fe...
Search [Alt+S]
United States (N. Virginia) ▾
Account ID: 1545-1416-4180 ▾
Archit
CloudFormation > Stacks > ec2-stack
Stacks (17)
Filter status
Filter by stack name
Active ▾
View nested
< 1 >
Delete
Update stack ▾
Stack actions ▾
Create stack ▾
Stack info
Events
Resources
Outputs
Parameters
Template
Change sets
Git sync
Table view
Timeline view
View root cause
Search events
CloudShell
Feedback
© 2025, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences

Stacks

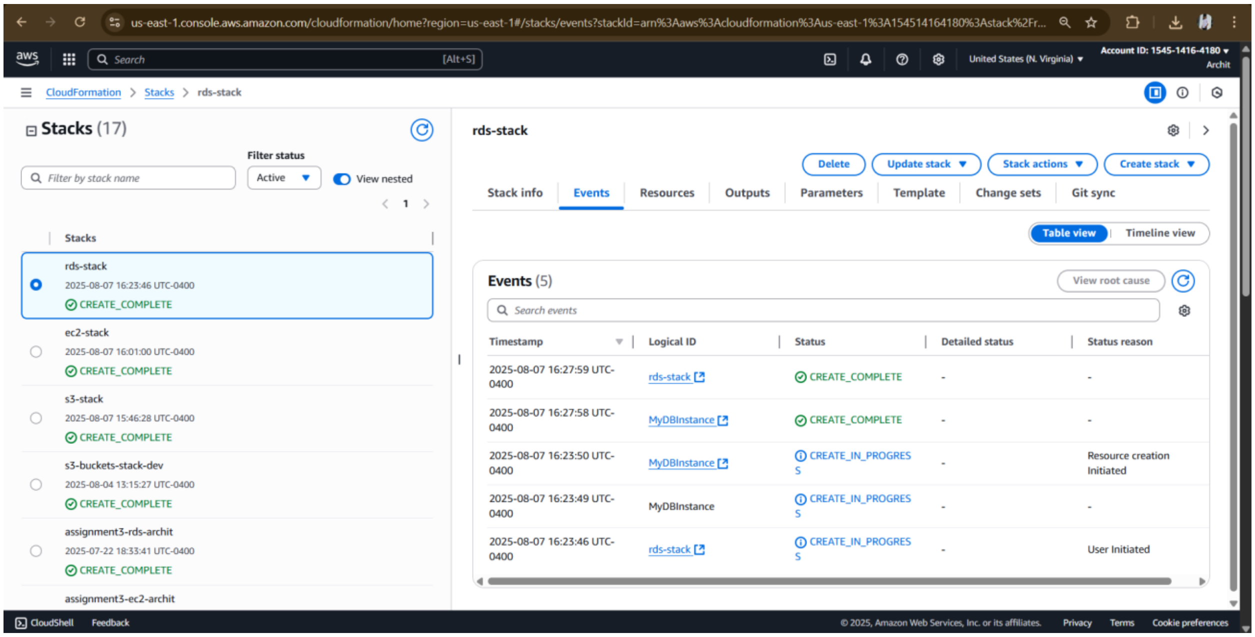
- rds-stack
  2025-08-07 16:23:46 UTC-0400
  CREATE_COMPLETE
- ● ec2-stack
  2025-08-07 16:01:00 UTC-0400
  CREATE_COMPLETE
- s3-stack
  2025-08-07 15:46:28 UTC-0400
  CREATE_COMPLETE
- s3-buckets-stack-dev
  2025-08-04 13:15:27 UTC-0400
  CREATE_COMPLETE
- assignment3-rds-archit
  2025-07-22 18:33:41 UTC-0400
  CREATE_COMPLETE
- assignment3-ec2-archit

ec2-stack

Events (10)

Timestamp	Logical ID	Status	Detailed status	Status reason
2025-08-07 16:01:27 UTC-0400	ec2-stack	CREATE_COMPLETE	-	-
2025-08-07 16:01:26 UTC-0400	EC2Instance	CREATE_COMPLETE	-	-
2025-08-07 16:01:16 UTC-0400	ec2-stack	CREATE_IN_PROGRESS	CONFIGURATION_COMPLETE	Eventual consistency check initiated
2025-08-07 16:01:16 UTC-0400	EC2Instance	CREATE_IN_PROGRESS	CONFIGURATION_COMPLETE	Eventual consistency check initiated
2025-08-07 16:01:14 UTC-0400	EC2Instance	CREATE_IN_PROGRESS	-	Resource creation Initiated
2025-08-07 16:01:12 UTC-	EC2Instance	CREATE_IN_PROGRES	-	-

RDS Stack


us-east-1.console.aws.amazon.com/cloudformation/home?region=us-east-1#/stacks/events?stackId=arn%3Aaws%3Acloudformation%3Aus-east-1%3A154514164180%3Astack%2Fr...
Search [Alt+S]
United States (N. Virginia) ▾
Account ID: 1545-1416-4180 ▾
Archit
CloudFormation > Stacks > rds-stack
Stacks (17)
Filter status
Filter by stack name
Active ▾
View nested
< 1 >
Delete
Update stack ▾
Stack actions ▾
Create stack ▾
Stack info
Events
Resources
Outputs
Parameters
Template
Change sets
Git sync
Table view
Timeline view
View root cause
Search events
CloudShell
Feedback
© 2025, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences

Stacks

- ● rds-stack
  2025-08-07 16:23:46 UTC-0400
  CREATE_COMPLETE
- ec2-stack
  2025-08-07 16:01:00 UTC-0400
  CREATE_COMPLETE
- s3-stack
  2025-08-07 15:46:28 UTC-0400
  CREATE_COMPLETE
- s3-buckets-stack-dev
  2025-08-04 13:15:27 UTC-0400
  CREATE_COMPLETE
- assignment3-rds-archit
  2025-07-22 18:33:41 UTC-0400
  CREATE_COMPLETE
- assignment3-ec2-archit

rds-stack

Events (5)

Timestamp	Logical ID	Status	Detailed status	Status reason
2025-08-07 16:27:59 UTC-0400	rds-stack	CREATE_COMPLETE	-	-
2025-08-07 16:27:58 UTC-0400	MyDBInstance	CREATE_COMPLETE	-	-
2025-08-07 16:23:50 UTC-0400	MyDBInstance	CREATE_IN_PROGRESS	-	Resource creation Initiated
2025-08-07 16:23:49 UTC-0400	MyDBInstance	CREATE_IN_PROGRESS	-	-
2025-08-07 16:23:46 UTC-0400	rds-stack	CREATE_IN_PROGRESS	-	User Initiated