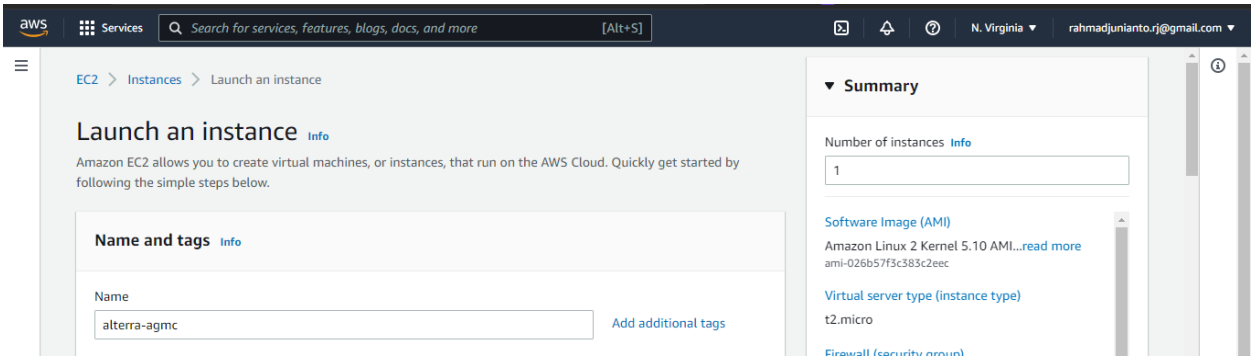
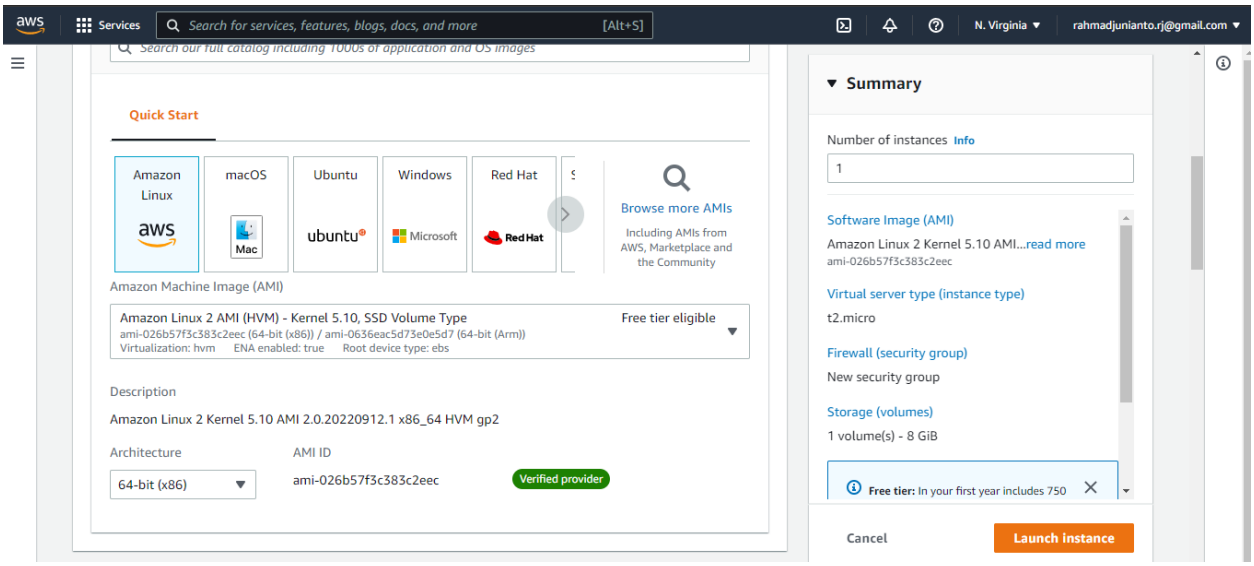
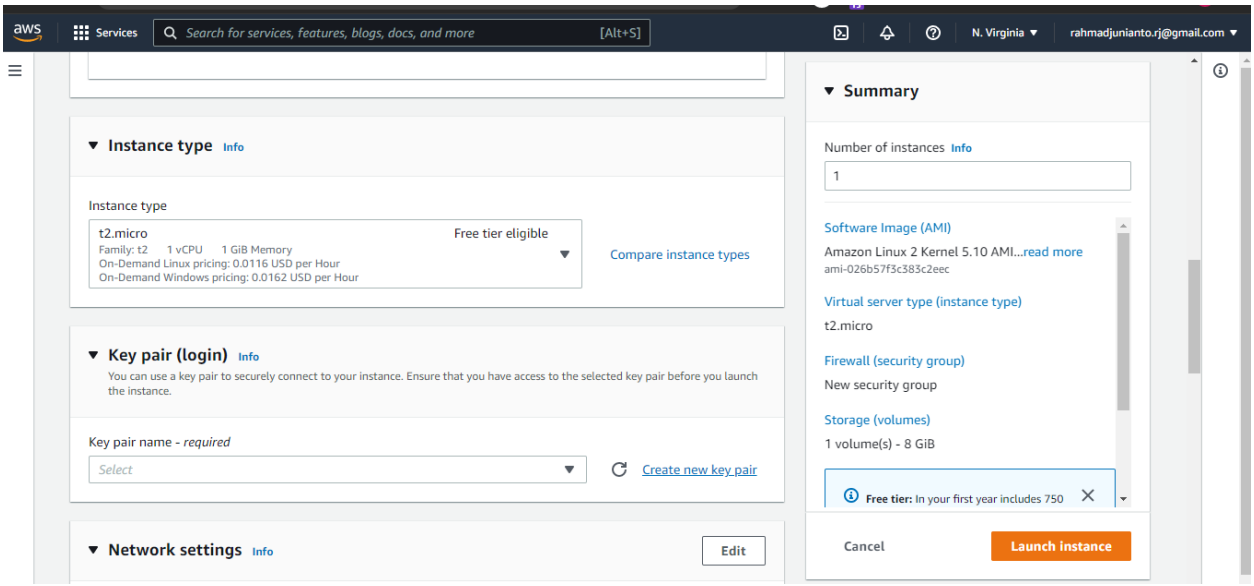
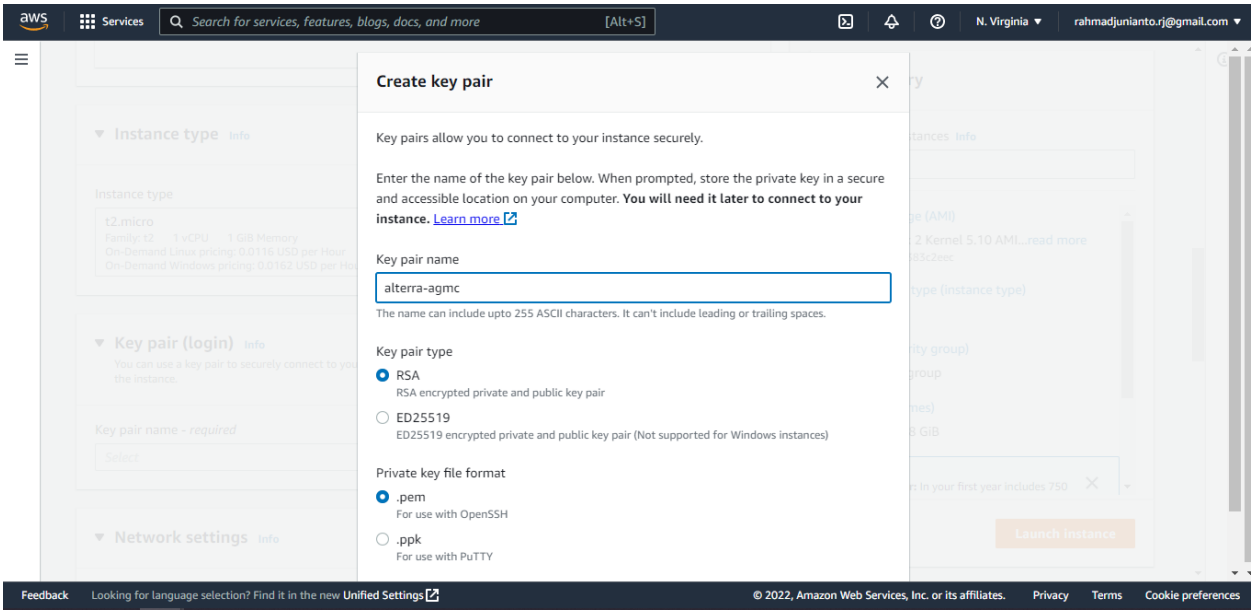
Create Ec2 Instance



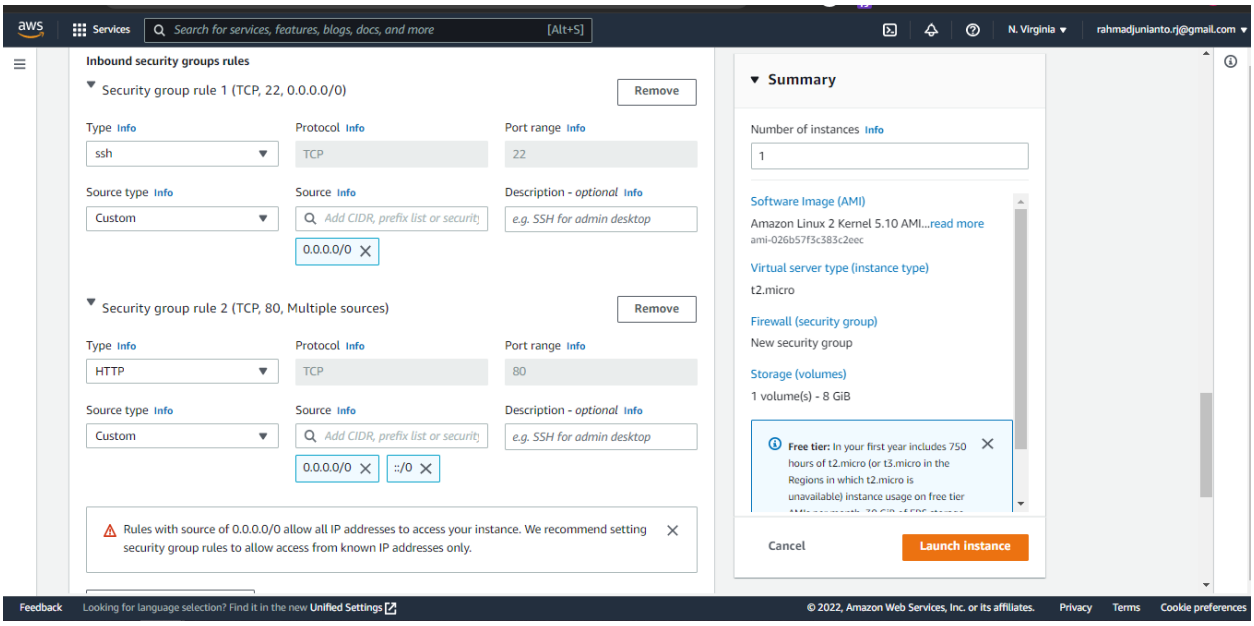


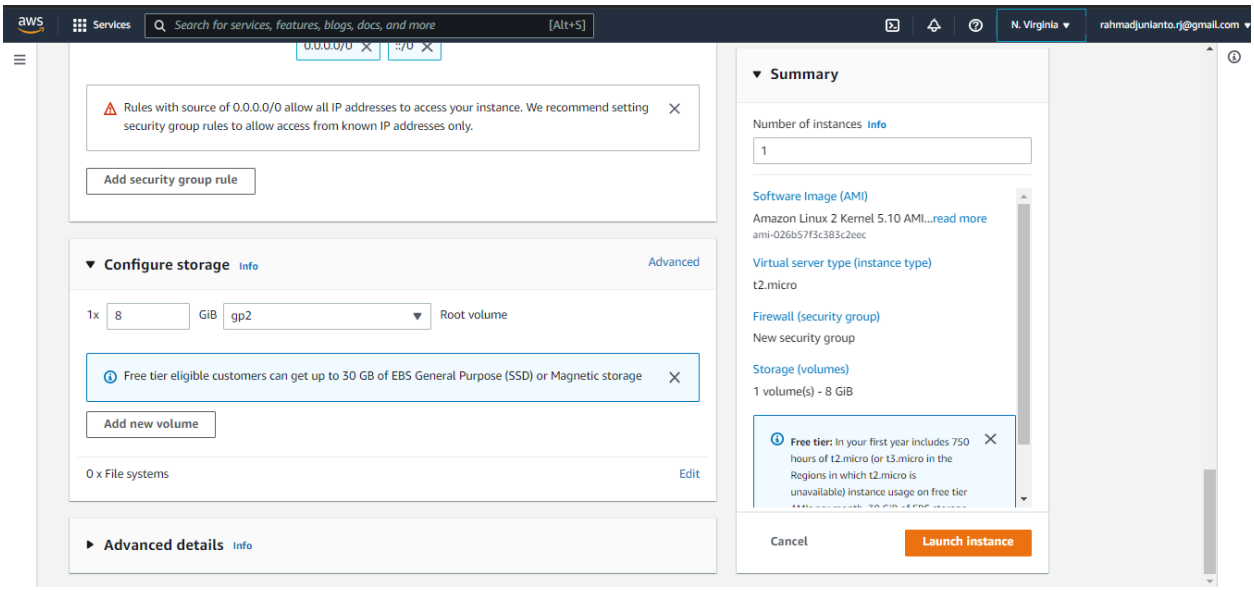


Create key pair



Setting security group

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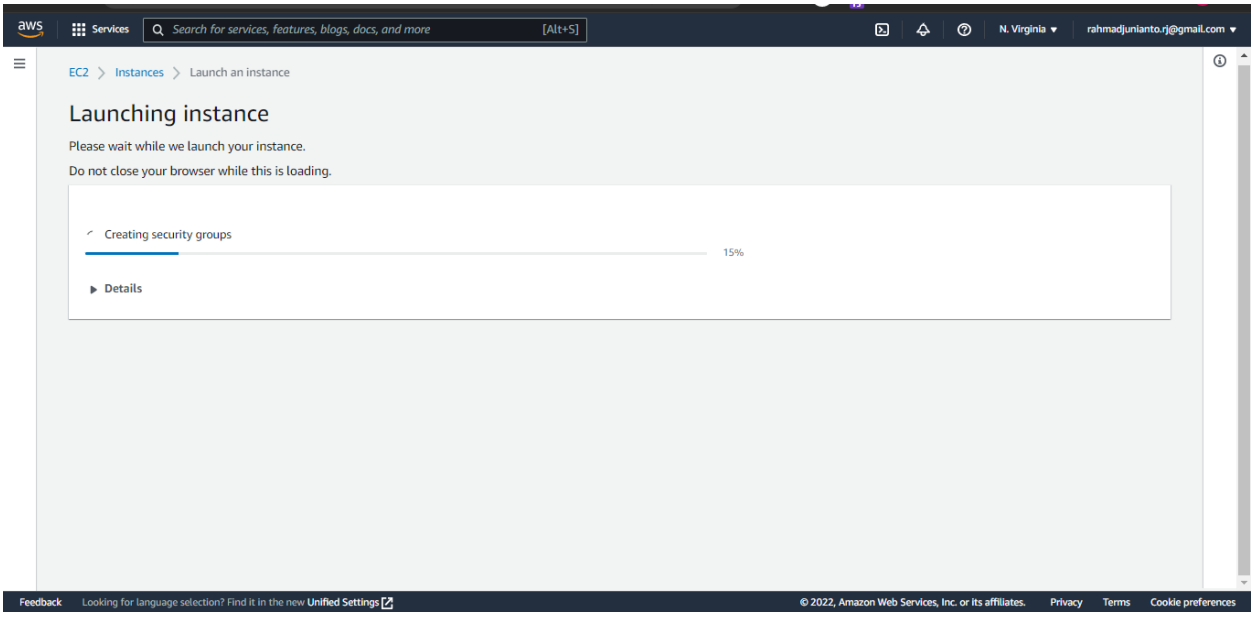
0.0.0.0/0
::/0
Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.
Add security group rule
Configure storage Info
Advanced
1x
8
GiB
gp2
Root volume
Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage
Add new volume
0 x File systems
Edit
Advanced details Info
Summary
Number of instances Info
1
Software Image (AMI)
Amazon Linux 2 Kernel 5.10 AMI...read more
ami-026b57f3c383c2eec
Virtual server type (instance type)
t2.micro
Firewall (security group)
New security group
Storage (volumes)
1 volume(s) - 8 GiB
Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier
Cancel
Launch instance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EC2
Instances
Launch an instance
Launching instance
Please wait while we launch your instance.
Do not close your browser while this is loading.
Creating security groups
15%
Details
Feedback
Looking for language selection? Find it in the new Unified Settings
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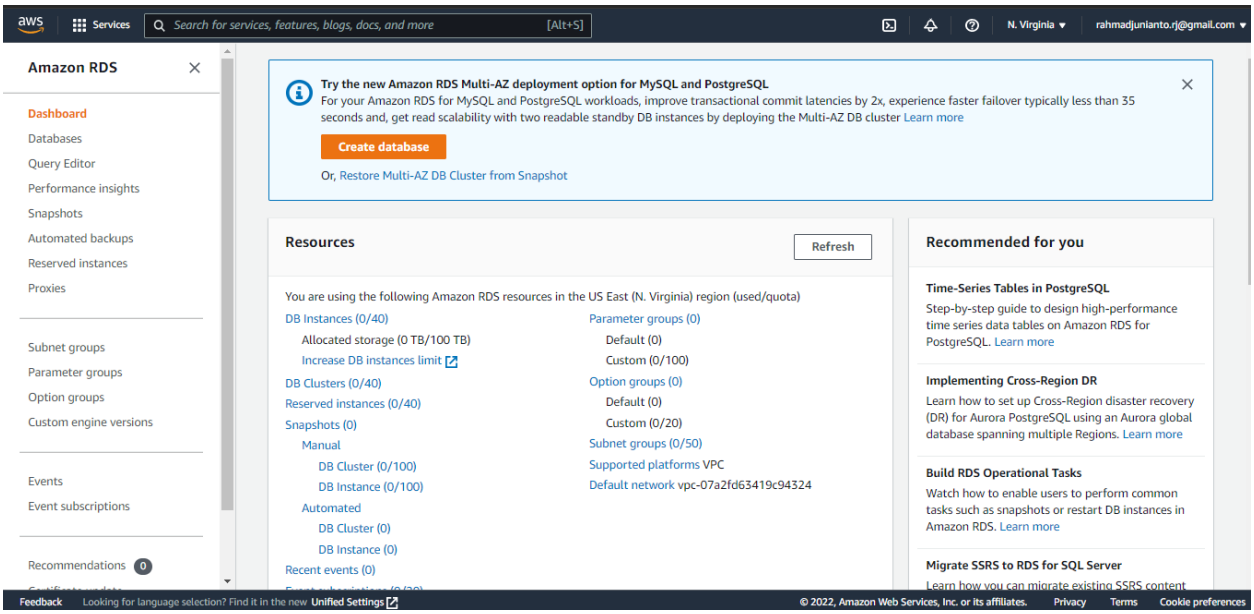
Create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Amazon RDS
Dashboard
Databases
Query Editor
Performance insights
Snapshots
Automated backups
Reserved instances
Proxies
Subnet groups
Parameter groups
Option groups
Custom engine versions
Events
Event subscriptions
Recommendations 0
Try the new Amazon RDS Multi-AZ deployment option for MySQL and PostgreSQL
For your Amazon RDS for MySQL and PostgreSQL workloads, improve transactional commit latencies by 2x, experience faster failover typically less than 35 seconds and, get read scalability with two readable standby DB instances by deploying the Multi-AZ DB cluster Learn more
Create database
Or, Restore Multi-AZ DB Cluster from Snapshot
Resources
Refresh
You are using the following Amazon RDS resources in the US East (N. Virginia) region (used/quota)
DB Instances (0/40)
Allocated storage (0 TB/100 TB)
Increase DB instances limit
DB Clusters (0/40)
Reserved instances (0/40)
Snapshots (0)
Manual
DB Cluster (0/100)
DB Instance (0/100)
Automated
DB Cluster (0)
DB Instance (0)
Recent events (0)
Parameter groups (0)
Default (0)
Custom (0/100)
Option groups (0)
Default (0)
Custom (0/20)
Subnet groups (0/50)
Supported platforms VPC
Default network vpc-07a2fd63419c94324
Recommended for you
Time-Series Tables in PostgreSQL
Step-by-step guide to design high-performance time series data tables on Amazon RDS for PostgreSQL. Learn more
Implementing Cross-Region DR
Learn how to set up Cross-Region disaster recovery (DR) for Aurora PostgreSQL using an Aurora global database spanning multiple Regions. Learn more
Build RDS Operational Tasks
Watch how to enable users to perform common tasks such as snapshots or restart DB instances in Amazon RDS. Learn more
Migrate SSRS to RDS for SQL Server
Feedback
Looking for language selection? Find it in the new Unified Settings
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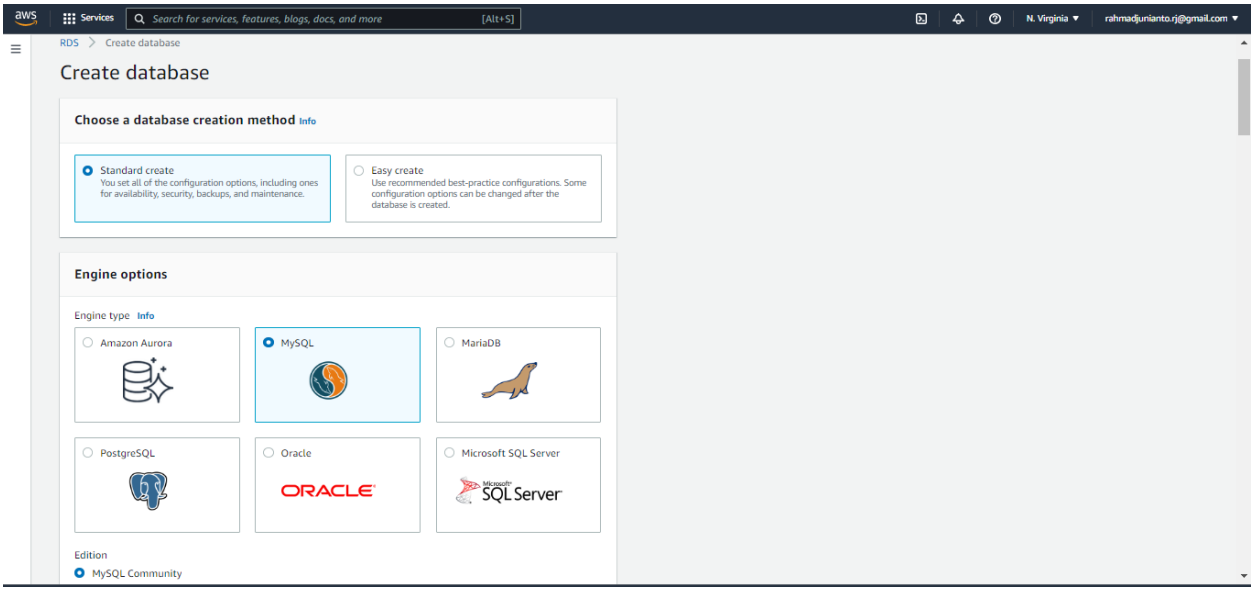
Services
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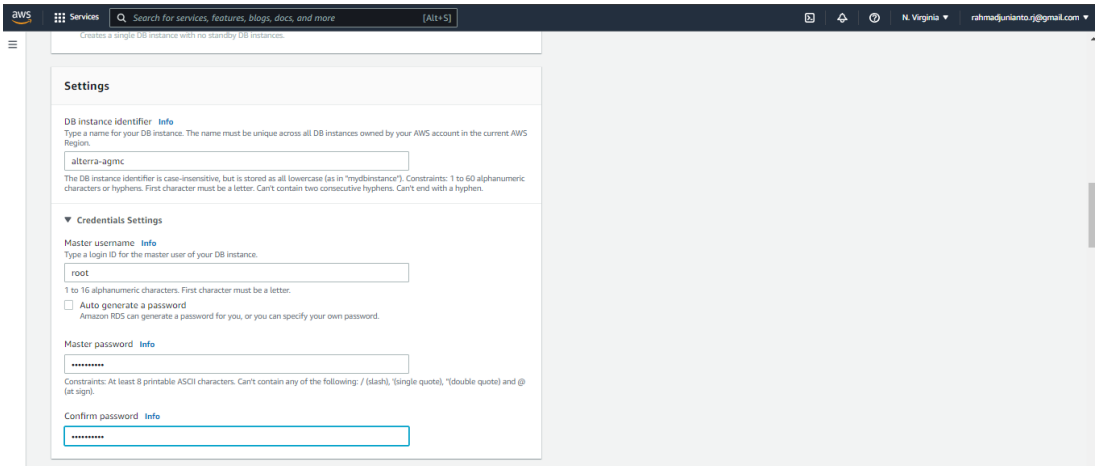
RDS > Create database
Create database
Choose a database creation method Info
Standard create
You set all of the configuration options, including ones for availability, security, backups, and maintenance.
Easy create
Use recommended best-practice configurations. Some configuration options can be changed after the database is created.
Engine options
Engine type Info
Amazon Aurora
MySQL
MariaDB
PostgreSQL
Oracle
Microsoft SQL Server
Edition
MySQL Community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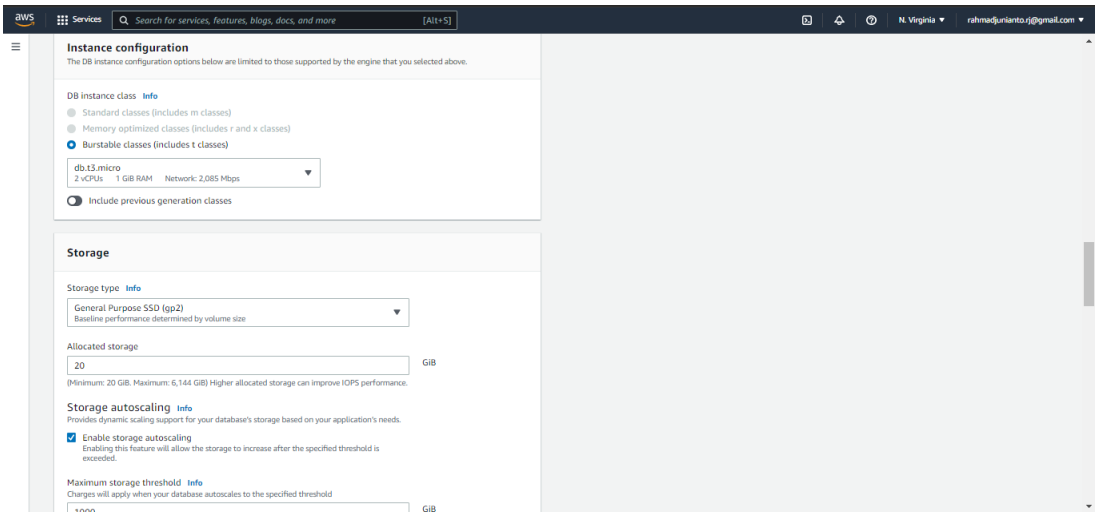
Creates a single DB instance with no standby DB instances.
Settings
DB instance identifier Info
Type a name for your DB instance. The name must be unique across all DB instances owned by your AWS account in the current AWS Region.
alterra-agmc
The DB instance identifier is case-insensitive, but is stored as all lowercase (as in "mydbinstance"). Constraints: 1 to 60 alphanumeric characters or hyphens. First character must be a letter. Can't contain two consecutive hyphens. Can't end with a hyphen.
Credentials Settings
Master username Info
Type a login ID for the master user of your DB instance.
root
1 to 16 alphanumeric characters. First character must be a letter.
Auto generate a password
Amazon RDS can generate a password for you, or you can specify your own password.
Master password Info
Constraints: At least 8 printable ASCII characters. Can't contain any of the following: / (slash), '(single quote), "(double quote) and @ (at sign).
Confirm password Info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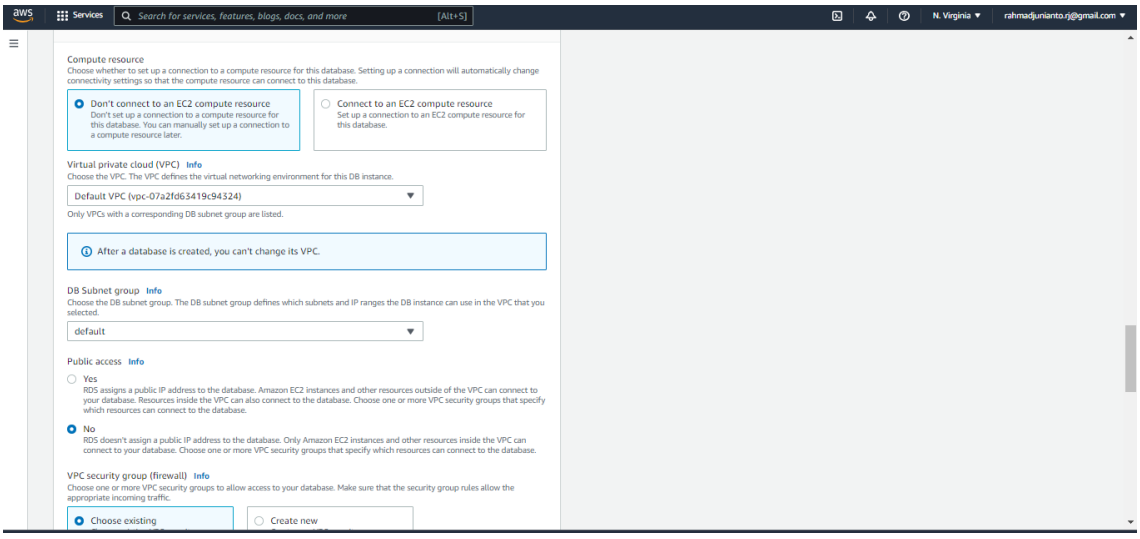
Instance configuration
The DB instance configuration options below are limited to those supported by the engine that you selected above.
DB instance class Info
Standard classes (includes m classes)
Memory optimized classes (includes r and x classes)
Burstable classes (includes t classes)
db.t3.micro
2 vCPUs 1 GiB RAM Network: 2,085 Mbps
Include previous generation classes
Storage
Storage type Info
General Purpose SSD (gp2)
Baseline performance determined by volume size
Allocated storage
20
GiB
(Minimum: 20 GiB. Maximum: 6,144 GiB) Higher allocated storage can improve IOPS performance.
Storage autoscaling Info
Provides dynamic scaling support for your database's storage based on your application's needs.
Enable storage autoscaling
Enabling this feature will allow the storage to increase after the specified threshold is exceeded.
Maximum storage threshold Info
Charges will apply when your database autoscales to the specified threshold
GiB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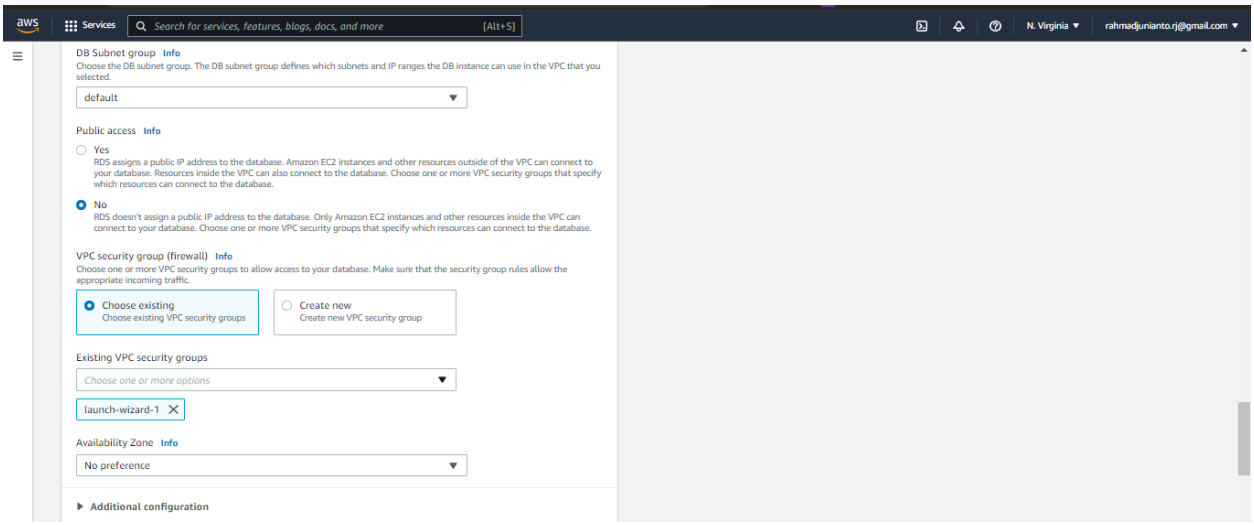
Compute resource
Choose whether to set up a connection to a compute resource for this database. Setting up a connection will automatically change connectivity settings so that the compute resource can connect to this database.
Don't connect to an EC2 compute resource
Don't set up a connection to a compute resource for this database. You can manually set up a connection to a compute resource later.
Connect to an EC2 compute resource
Set up a connection to an EC2 compute resource for this database.
Virtual private cloud (VPC) Info
Choose the VPC. The VPC defines the virtual networking environment for this DB instance.
Default VPC (vpc-07a2fd63419c94324)
Only VPCs with a corresponding DB subnet group are listed.
After a database is created, you can't change its VPC.
DB Subnet group Info
Choose the DB subnet group. The DB subnet group defines which subnets and IP ranges the DB instance can use in the VPC that you selected.
default
Public access Info
Yes
RDS assigns a public IP address to the database. Amazon EC2 instances and other resources outside of the VPC can connect to your database. Resources inside the VPC can also connect to the database. Choose one or more VPC security groups that specify which resources can connect to the database.
No
RDS doesn't assign a public IP address to the database. Only Amazon EC2 instances and other resources inside the VPC can connect to your database. Choose one or more VPC security groups that specify which resources can connect to the database.
VPC security group (firewall) Info
Choose one or more VPC security groups to allow access to your database. Make sure that the security group rules allow the appropriate incoming traffic.
Choose existing
Create new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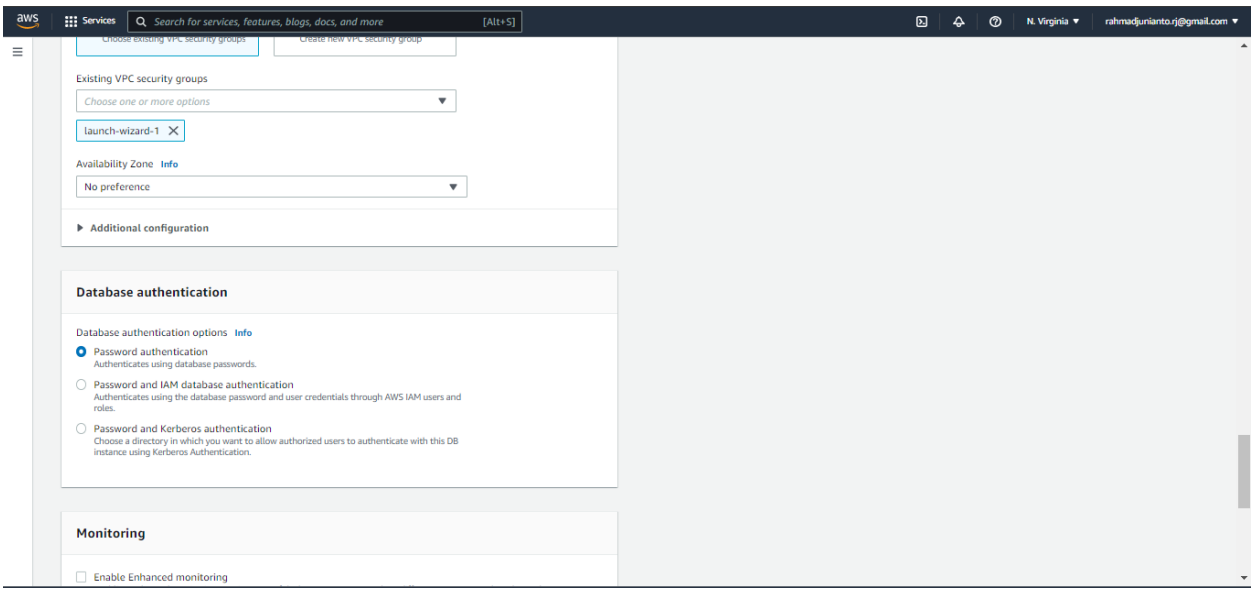
DB Subnet group Info
Choose the DB subnet group. The DB subnet group defines which subnets and IP ranges the DB instance can use in the VPC that you selected.
default
Public access Info
Yes
RDS assigns a public IP address to the database. Amazon EC2 instances and other resources outside of the VPC can connect to your database. Resources inside the VPC can also connect to the database. Choose one or more VPC security groups that specify which resources can connect to the database.
No
RDS doesn't assign a public IP address to the database. Only Amazon EC2 instances and other resources inside the VPC can connect to your database. Choose one or more VPC security groups that specify which resources can connect to the database.
VPC security group (firewall) Info
Choose one or more VPC security groups to allow access to your database. Make sure that the security group rules allow the appropriate incoming traffic.
Choose existing
Choose existing VPC security groups
Create new
Create new VPC security group
Existing VPC security groups
Choose one or more options
launch-wizard-1
Availability Zone Info
No preference
Additional configuration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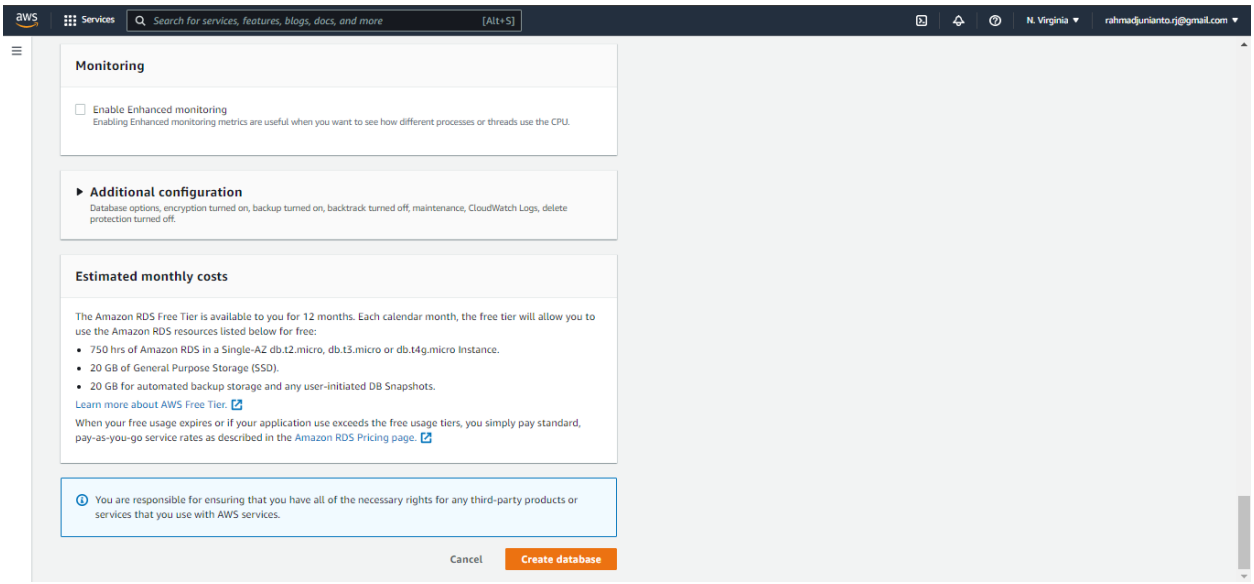
Existing VPC security groups
Choose one or more options
launch-wizard-1
Availability Zone Info
No preference
Additional configuration
Database authentication
Database authentication options Info
Password authentication
Authenticates using database passwords.
Password and IAM database authentication
Authenticates using the database password and user credentials through AWS IAM users and roles.
Password and Kerberos authentication
Choose a directory in which you want to allow authorized users to authenticate with this DB instance using Kerberos Authentication.
Monitoring
Enable Enhanced monitoring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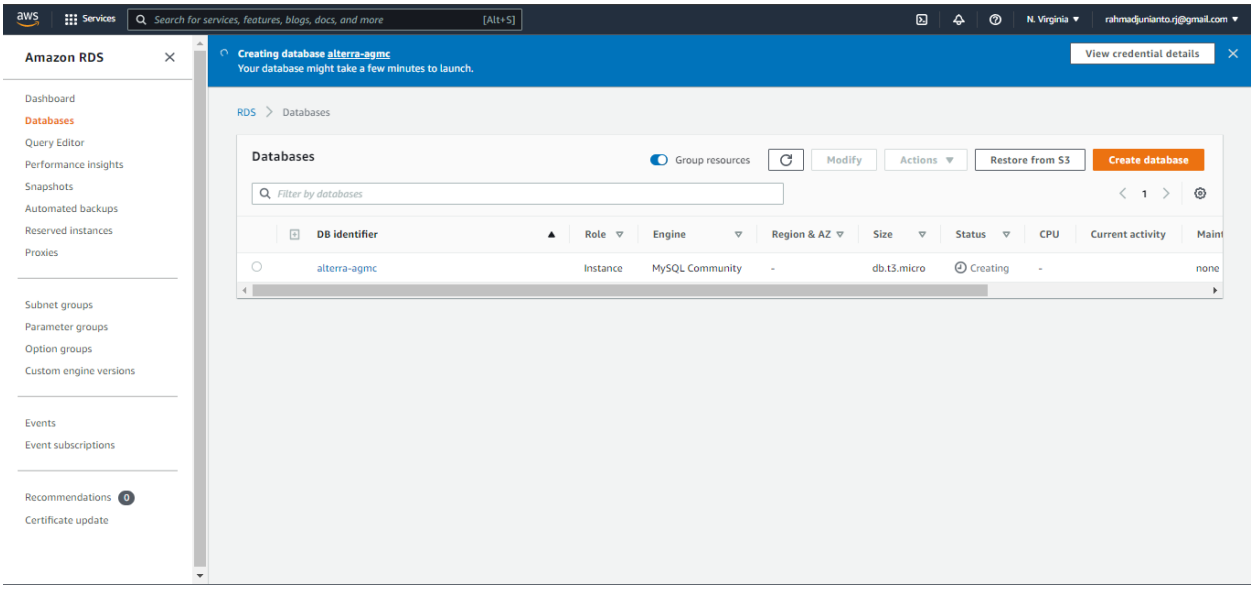
Monitoring
Enable Enhanced monitoring
Enabling Enhanced monitoring metrics are useful when you want to see how different processes or threads use the CPU.
Additional configuration
Database options, encryption turned on, backup turned on, backtrack turned off, maintenance, CloudWatch Logs, delete protection turned off.
Estimated monthly costs
The Amazon RDS Free Tier is available to you for 12 months. Each calendar month, the free tier will allow you to use the Amazon RDS resources listed below for free:
750 hrs of Amazon RDS in a Single-AZ db.t2.micro, db.t3.micro or db.t4g.micro Instance.
20 GB of General Purpose Storage (SSD).
20 GB for automated backup storage and any user-initiated DB Snapshots.
Learn more about AWS Free Tier.
When your free usage expires or if your application use exceeds the free usage tiers, you simply pay standard, pay-as-you-go service rates as described in the Amazon RDS Pricing page.
You are responsible for ensuring that you have all of the necessary rights for any third-party products or services that you use with AWS services.
Cancel
Create database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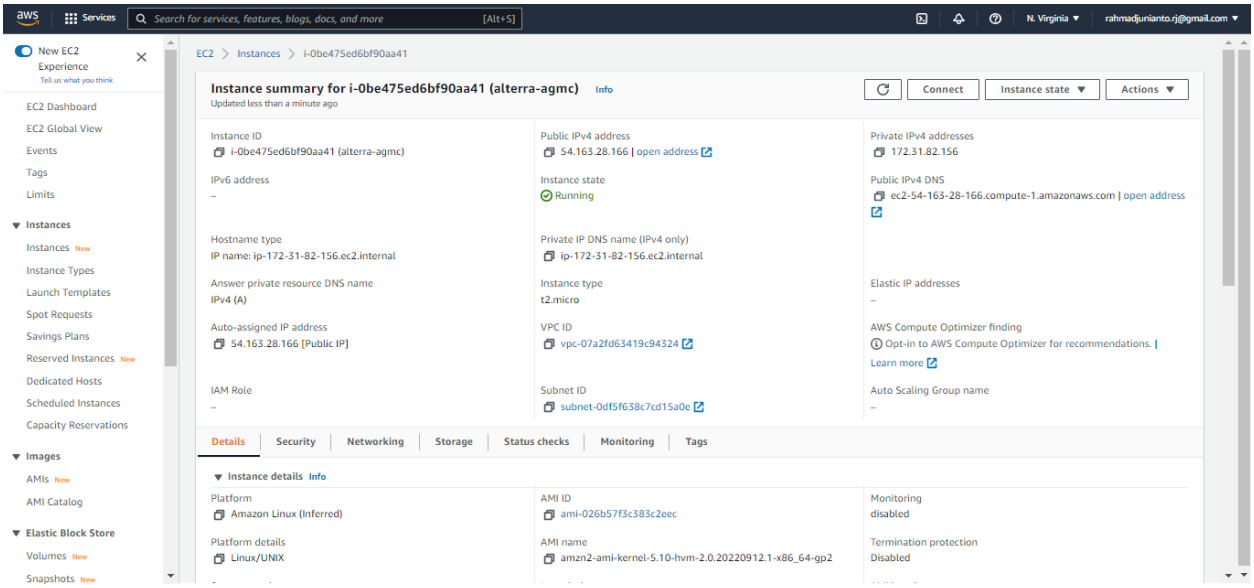
Amazon RDS
Creating database alterra-agmc
Your database might take a few minutes to launch.
View credential details
Dashboard
Databases
Query Editor
Performance insights
Snapshots
Automated backups
Reserved instances
Proxies
Subnet groups
Parameter groups
Option groups
Custom engine versions
Events
Event subscriptions
Recommendations 0
Certificate update
RDS > Databases
Databases
Group resources
Modify
Actions
Restore from S3
Create database
Filter by databases
DB identifier
Role
Engine
Region & AZ
Size
Status
CPU
Current activity
alterra-agmc
Instance
MySQL Community
db.t3.micro
Creating
none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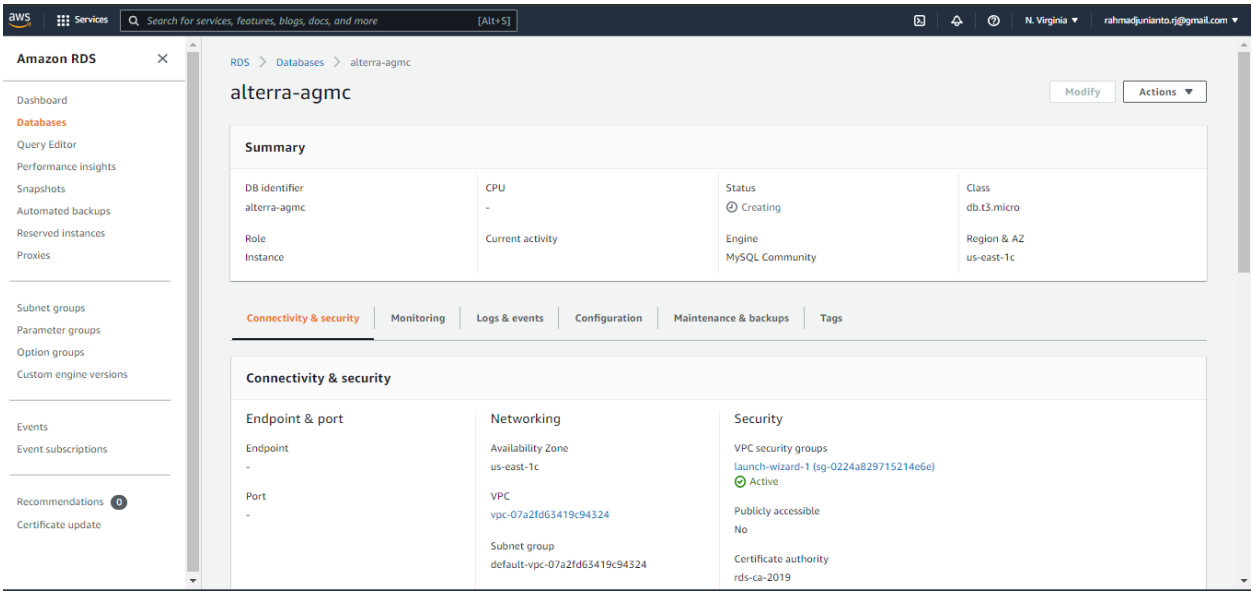
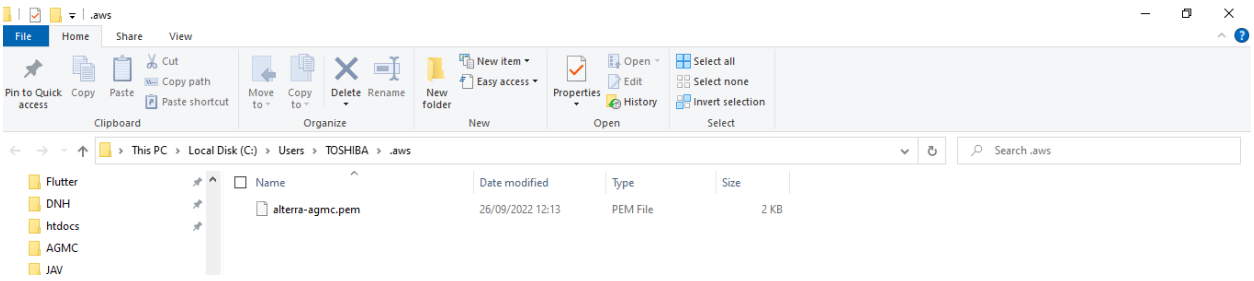
New EC2 Experience
Tell us what you think
EC2 Dashboard
EC2 Global View
Events
Tags
Limits
Instances
Instances New
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances New
Dedicated Hosts
Scheduled Instances
Capacity Reservations
Images
AMIs New
AMI Catalog
Elastic Block Store
Volumes New
Snapshots New
EC2 > Instances > i-0be475ed6bf90aa41
Instance summary for i-0be475ed6bf90aa41 (alterra-agmc) Info
Updated less than a minute ago
Connect
Instance state
Actions
Instance ID
i-0be475ed6bf90aa41 (alterra-agmc)
Public IPv4 address
54.163.28.166 | open address
Private IPv4 addresses
172.31.82.156
IPv6 address
–
Instance state
Running
Public IPv4 DNS
ec2-54-163-28-166.compute-1.amazonaws.com | open address
Hostname type
IP name: ip-172-31-82-156.ec2.internal
Private IP DNS name (IPv4 only)
ip-172-31-82-156.ec2.internal
Answer private resource DNS name
IPv4 (A)
Instance type
t2.micro
Elastic IP addresses
–
Auto-assigned IP address
54.163.28.166 [Public IP]
VPC ID
vpc-07a2fd63419c94324
AWS Compute Optimizer finding
Opt-in to AWS Compute Optimizer for recommendations. | Learn more
IAM Role
–
Subnet ID
subnet-0df5f638c7cd15a0e
Auto Scaling Group name
–
Details
Security
Networking
Storage
Status checks
Monitoring
Tags
Instance details Info
Platform
Amazon Linux (Inferred)
AMI ID
ami-026b57f3c383c2eec
Monitoring
disabled
Platform details
Linux/UNIX
AMI name
amzn2-ami-kernel-5.10-hvm-2.0.20220912.1-x86_64-gp2
Termination protection
Disabled


Amazon RDS
Dashboard
Databases
Query Editor
Performance insights
Snapshots
Automated backups
Reserved instances
Proxies
Subnet groups
Parameter groups
Option groups
Custom engine versions
Events
Event subscriptions
Recommendations
Certificate update
RDS > Databases > alterra-agmc
alterra-agmc
Modify
Actions
Summary
DB identifier
alterra-agmc
CPU
-
Status
Creating
Class
db.t3.micro
Role
Instance
Current activity
Engine
MySQL Community
Region & AZ
us-east-1c
Connectivity & security
Monitoring
Logs & events
Configuration
Maintenance & backups
Tags
Connectivity & security
Endpoint & port
Endpoint
-
Port
-
Networking
Availability Zone
us-east-1c
VPC
vpc-07a2fd63419c94324
Subnet group
default-vpc-07a2fd63419c94324
Security
VPC security groups
launch-wizard-1 (sg-0224a829715214e6e)
Active
Publicly accessible
No
Certificate authority
rds-ca-2019

Key pair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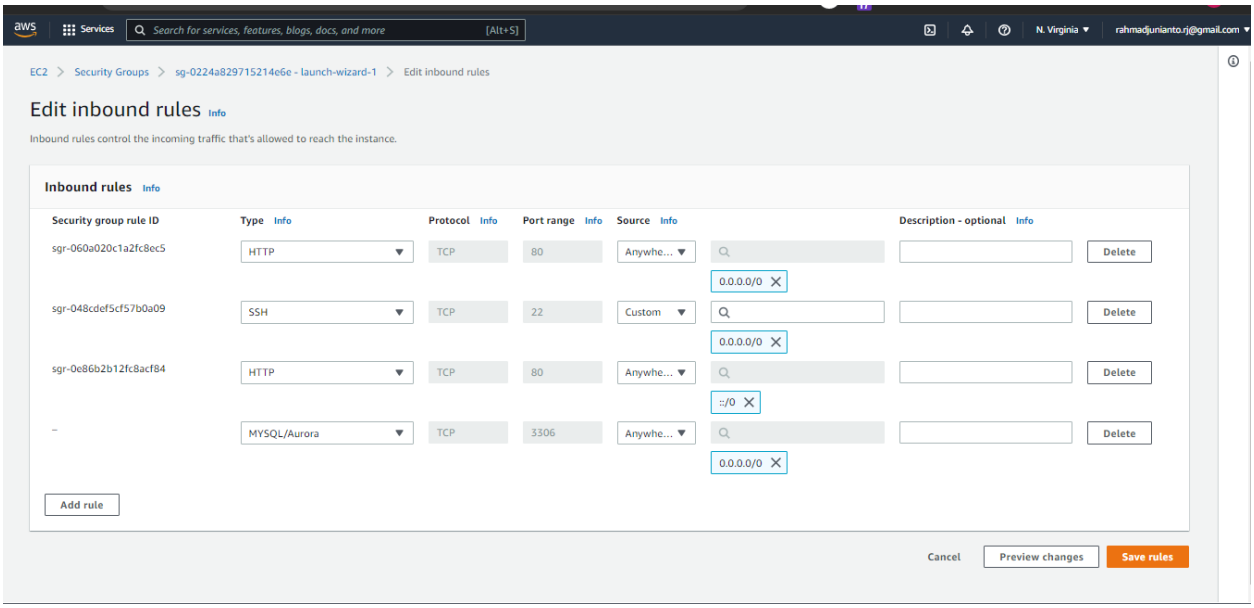
File
Home
Share
View
Pin to Quick access
Copy
Paste
Cut
Copy path
Paste shortcut
Clipboard
Move to
Copy to
Delete
Rename
Organize
New folder
New item
Easy access
New
Properties
Open
Edit
History
Open
Select all
Select none
Invert selection
Select
This PC > Local Disk (C:) > Users > TOSHIBA > .aws
Search .aws
Flutter
DNH
htdocs
AGMC
JAV
Name
Date modified
Type
Size
alterra-agmc.pem
26/09/2022 12:13
PEM File
2 KB


EC2 > Security Groups > sg-0224a829715214e6e - launch-wizard-1 > Edit inbound rules
Edit inbound rules
Info
Inbound rules control the incoming traffic that's allowed to reach the instance.
Inbound rules
Info
Security group rule ID
Type
Protocol
Port range
Source
Description - optional
sgr-060a020c1a2fc8ec5
HTTP
TCP
80
Anywhe...
0.0.0.0/0
Delete
sgr-048cdef5cf57b0a09
SSH
TCP
22
Custom
0.0.0.0/0
Delete
sgr-0e86b2b12fc8acf84
HTTP
TCP
80
Anywhe...
::/0
Delete
-
MYSQL/Aurora
TCP
3306
Anywhe...
0.0.0.0/0
Delete
Add rule
Cancel
Preview changes
Save rules

Login ec2 instance via ssh

```
TOSHIBA@DESKTOP-OU38PJM MINGW64 ~
$ ssh -i C:/Users/TOSHIBA/Downloads/alterra-agmc.pem ec2-user@54.163.28.166
Last login: Mon Sep 26 05:34:11 2022 from ec2-18-206-107-28.compute-1.amazonaws.com

       __|  __|_  )
       _|  (     /   Amazon Linux 2 AMI
      ___|\___|___|

https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-172-31-82-156 ~]$
```

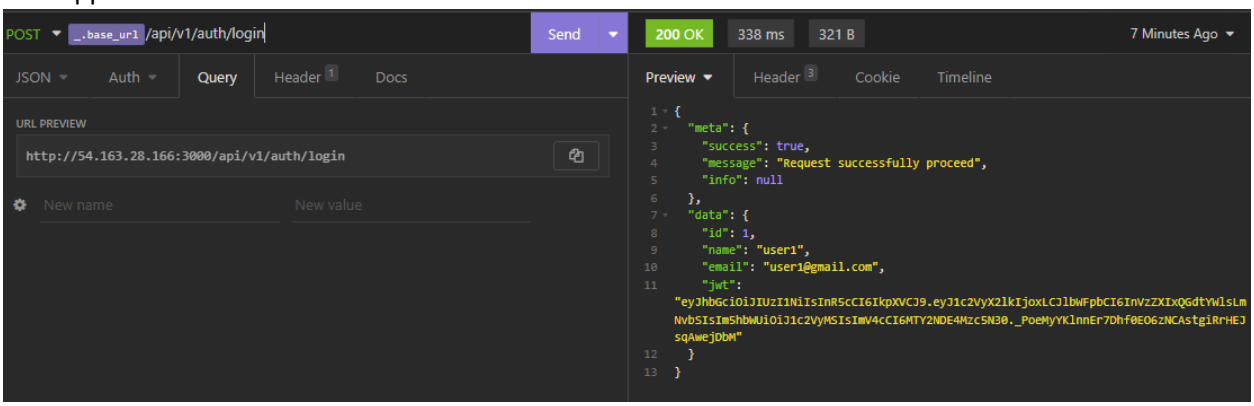
Inst

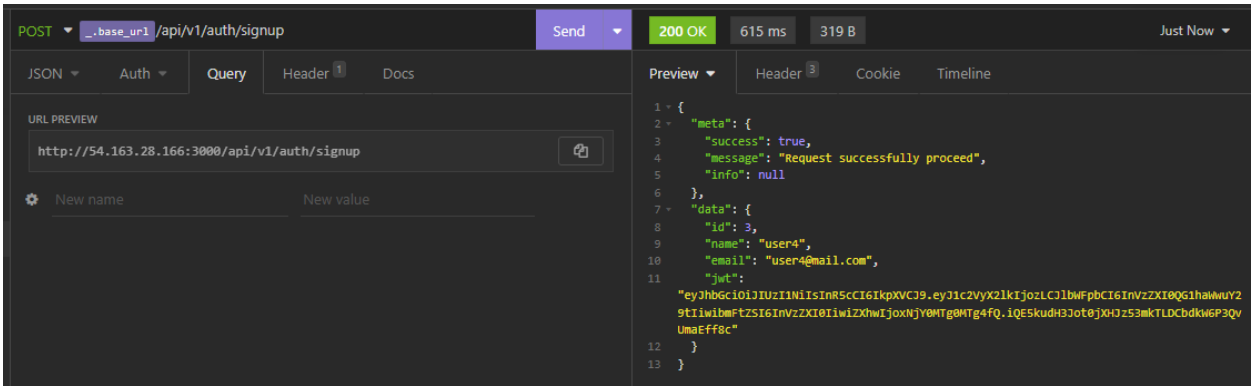
```
$ ssh -i C:/Users/TOSHIBA/Downloads/alterra-agmc.pem ec2-user@54.163.28.166
Last login: Mon Sep 26 05:34:11 2022 from ec2-18-206-107-28.compute-1.amazonaws.

       __|  __|_  )
       _|  (     /   Amazon Linux 2 AMI
      ___|\___|___|

https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-172-31-82-156 ~]$ pwd
/home/ec2-user
[ec2-user@ip-172-31-82-156 ~]$ sudo apt update
sudo: apt: command not found
[ec2-user@ip-172-31-82-156 ~]$ sudo yum upgrade
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
amzn2-core
No packages marked for update
[ec2-user@ip-172-31-82-156 ~]$ sudo yum install docker -y
```

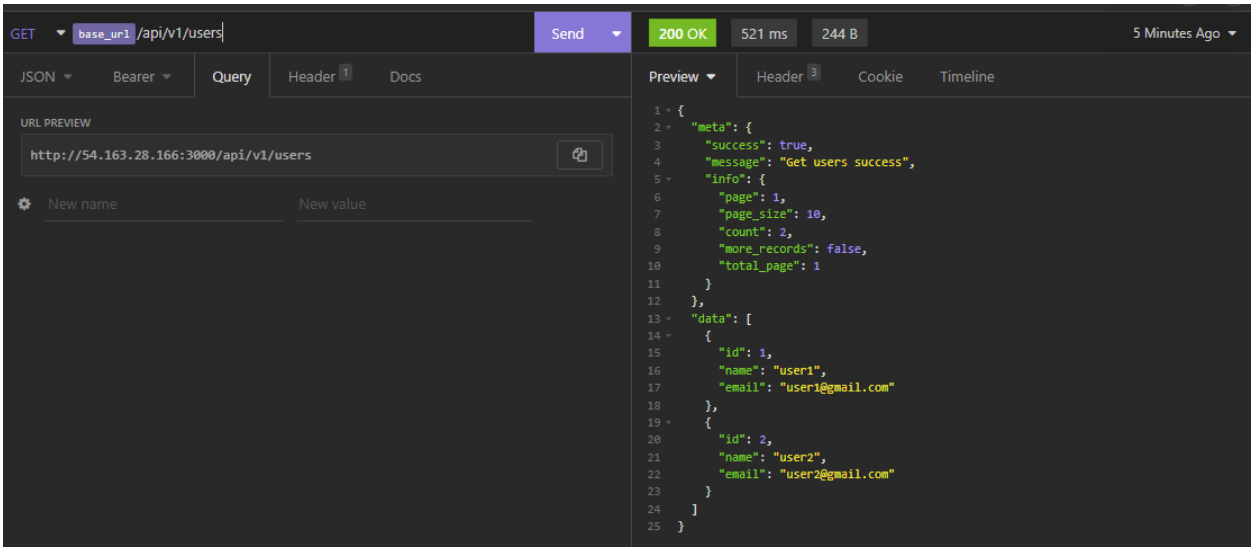
Run docker image

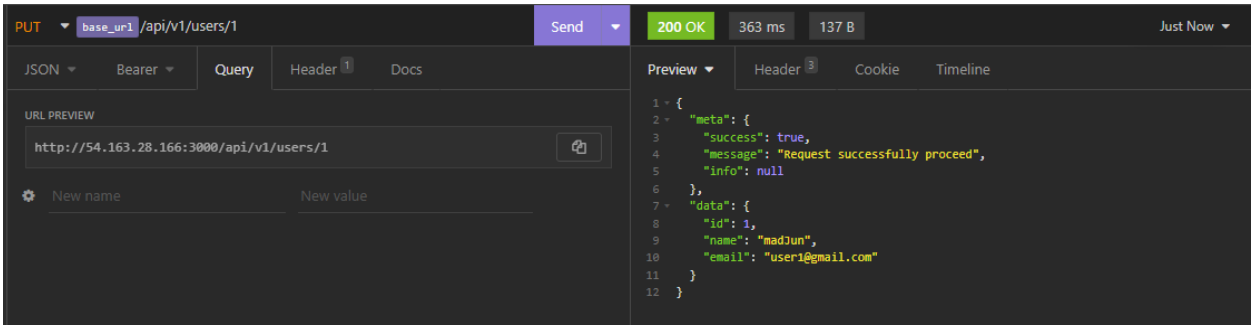
```
[ec2-user@ip-172-31-82-156 ~]$ sudo docker run -p 3000:3000 -e DB_HOST=[redacted] -e DB_PASS=[redacted] -e DB_NAME=alterra-agmc -e APP_PORT=3000 madj
un/agmc
{alterra-agmc.c4atda2rpauo.us-east-1.rds.amazonaws.com root qwerty1234 3306 alterra-agmc}
{alterra-agmc.c4atda2rpauo.us-east-1.rds.amazonaws.com root qwerty1234 3306 alterra-agmc}
2022/09/26 08:04:55 success seed data users

   ____    __
  / __/___/ /  ___
 / _// __/ _ \/ _ \
/___/\__/_//_/\___/ v4.9.0
High performance, minimalist Go web framework
https://echo.labstack.com
____________________________________O/_______
                                    O\
⇨ http server started on [::]:3000
 2022/09/26 08:05:49 | localhost:3000 | 200 | 37.904µs | 172.17.0.1 | GET | /status
 2022/09/26 08:14:42 | 172.31.82.156:3000 | 200 | 39.247µs | 172.31.82.156 | GET | /status
 2022/09/26 08:15:08 | 54.163.28.166:3000 | 200 | 36.593µs | 54.163.28.166 | GET | /status
 2022/09/26 08:16:00 | 54.163.28.166:3000 | 200 | 69.617µs | 36.77.41.26 | GET | /status
 2022/09/26 08:16:37 | 54.163.28.166:3000 | 200 | 88.515629ms | 36.77.41.26 | POST | /api/v1/auth/login
 2022/09/26 08:18:59 | 54.163.28.166:3000 | 200 | 1.665699ms | 36.77.41.26 | GET | /api/v1/users
```

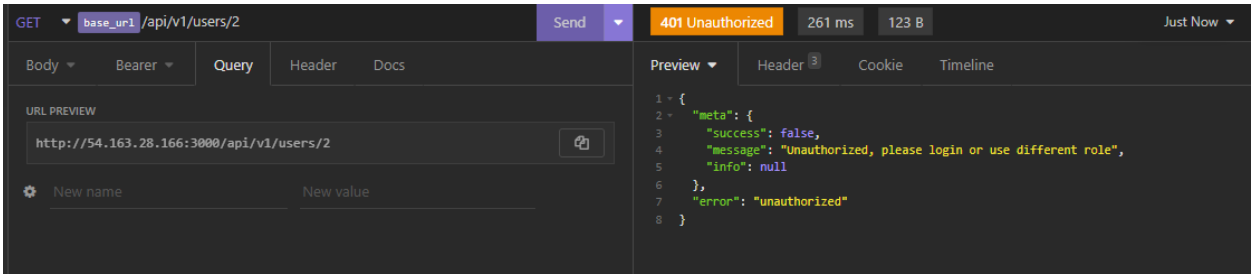
Test app

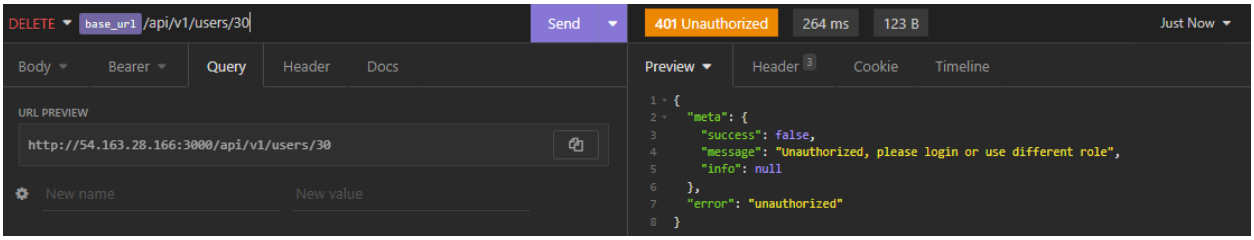

POST
_.base_url
/api/v1/auth/login
Send
200 OK
338 ms
321 B
7 Minutes Ago
JSON
Auth
Query
Header 1
Docs
Preview
Header 3
Cookie
Timeline
URL PREVIEW
http://54.163.28.166:3000/api/v1/auth/login
New name
New value
{
"meta": {
"success": true,
"message": "Request successfully proceed",
"info": null
},
"data": {
"id": 1,
"name": "user1",
"email": "user1@gmail.com",
"jwt":
"eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ1c2VyX2lkIjoxLCJlbWFpbCI6InVzZXIxQGdtYWlsLmNvbSIsIm5hbWUiOiJ1c2VyMSIsImV4cCI6MTY2NDE4Mzc5N30._PoeMyYKlnnEr7Dhf0EO6zNCAstgiRrHEJsqAwejDbM"
}
}


POST
_.base_url
/api/v1/auth/signup
Send
200 OK
615 ms
319 B
Just Now
JSON
Auth
Query
Header 1
Docs
Preview
Header 3
Cookie
Timeline
URL PREVIEW
http://54.163.28.166:3000/api/v1/auth/signup
New name
New value
{
"meta": {
"success": true,
"message": "Request successfully proceed",
"info": null
},
"data": {
"id": 3,
"name": "user4",
"email": "user4@mail.com",
"jwt":
"eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ1c2VyX2lkIjozLCJlbWFpbCI6InVzZXI0QG1haWwuY29tIiwibmFtZSI6InVzZXI0IiwiZXhwIjoxNjY0MTg0MTg4fQ.iQE5kudH3Jot0jXHJz53mkTLDCbdkW6P3QvUmaEff8c"
}
}


GET
base_url
/api/v1/users
Send
200 OK
521 ms
244 B
5 Minutes Ago
JSON
Bearer
Query
Header 1
Docs
Preview
Header 3
Cookie
Timeline
URL PREVIEW
http://54.163.28.166:3000/api/v1/users
New name
New value
{
"meta": {
"success": true,
"message": "Get users success",
"info": {
"page": 1,
"page_size": 10,
"count": 2,
"more_records": false,
"total_page": 1
}
},
"data": [
{
"id": 1,
"name": "user1",
"email": "user1@gmail.com"
},
{
"id": 2,
"name": "user2",
"email": "user2@gmail.com"
}
]
}


PUT
base_url
/api/v1/users/1
Send
200 OK
363 ms
137 B
Just Now
JSON
Bearer
Query
Header 1
Docs
Preview
Header 3
Cookie
Timeline
URL PREVIEW
http://54.163.28.166:3000/api/v1/users/1
New name
New value
{
"meta": {
"success": true,
"message": "Request successfully proceed",
"info": null
},
"data": {
"id": 1,
"name": "madJun",
"email": "user1@gmail.com"
}
}


GET
base_url
/api/v1/users/2
Send
401 Unauthorized
261 ms
123 B
Just Now
Body
Bearer
Query
Header
Docs
Preview
Header 3
Cookie
Timeline
URL PREVIEW
http://54.163.28.166:3000/api/v1/users/2
New name
New value
{
"meta": {
"success": false,
"message": "Unauthorized, please login or use different role",
"info": null
},
"error": "unauthorized"
}


DELETE
base_url
/api/v1/users/30
Send
401 Unauthorized
264 ms
123 B
Just Now
Body
Bearer
Query
Header
Docs
Preview
Header 3
Cookie
Timeline
URL PREVIEW
http://54.163.28.166:3000/api/v1/users/30
New name
New value
{
"meta": {
"success": false,
"message": "Unauthorized, please login or use different role",
"info": null
},
"error": "unauthorized"
}