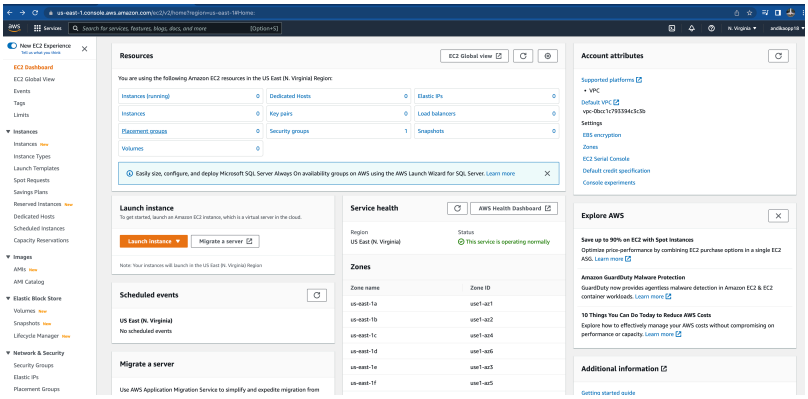
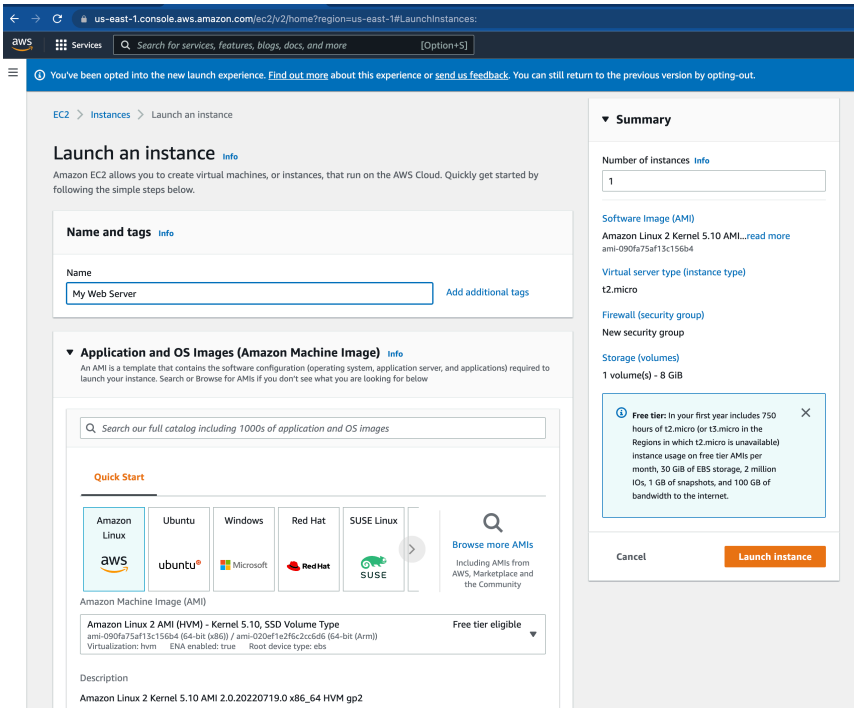
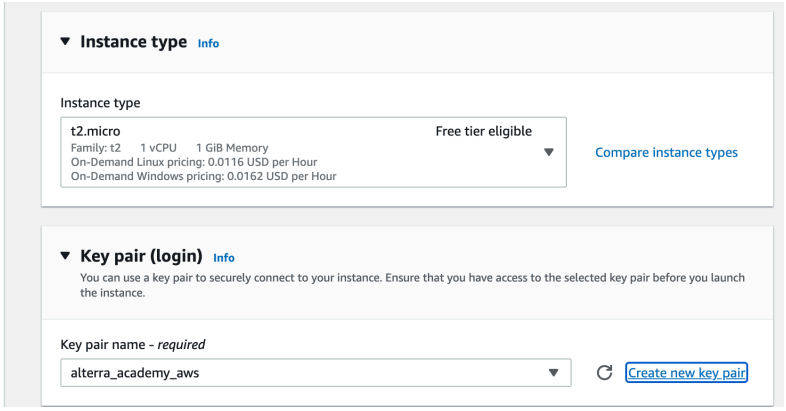
Masuk ke dashboard EC2



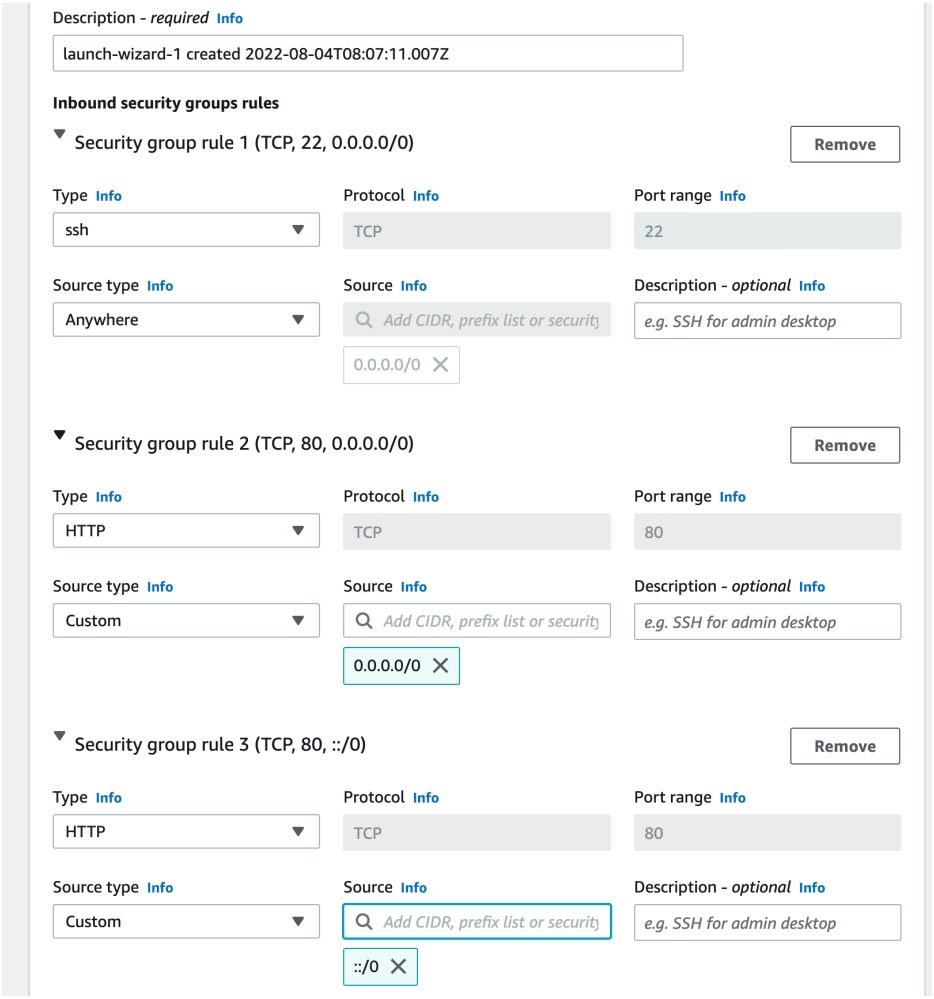
Klik Launch Instance, kemudian configure image dan securitynya



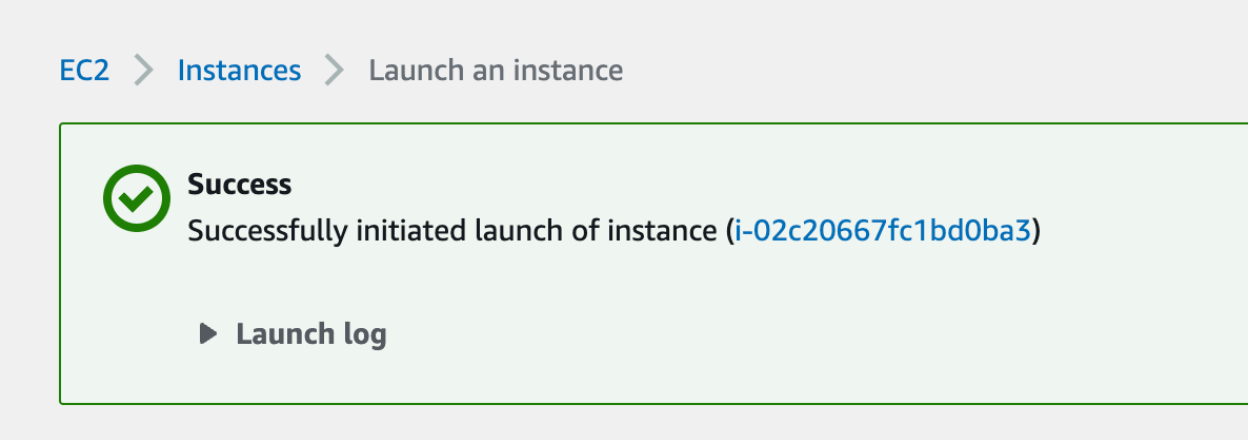
Create Key Pair

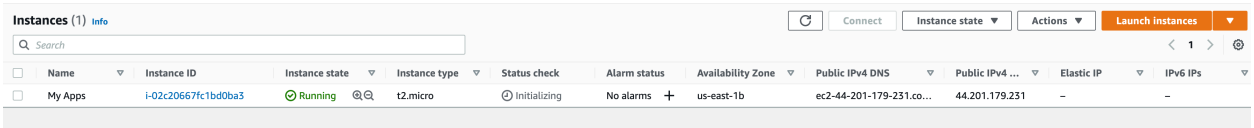


Setting Security Group



Launch Instance VM





Akses Instance VM dari local computer menggunakan SSH

```
192:AWS men666anas$ sudo ssh -i alterra_academy_aws.pem ec2-user@ec2-44-201-179-231.compute-1.amazonaws.com
Password:
The authenticity of host 'ec2-44-201-179-231.compute-1.amazonaws.com (44.201.179.231)' can't be established.
ED25519 key fingerprint is SHA256:Gh5X2XB4819XbJEphddtbDhZvjxKywuF/FW6NhJwL8k.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'ec2-44-201-179-231.compute-1.amazonaws.com' (ED25519) to the list of known hosts.

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

https://aws.amazon.com/amazon-linux-2/
-bash: warning: setlocale: LC_CTYPE: cannot change locale (UTF-8): No such file or directory
[ec2-user@ip-172-31-86-4 ~]$ who im i
ec2-user pts/0        Aug  4 08:55 (125.166.3.9)
[ec2-user@ip-172-31-86-4 ~]$
```

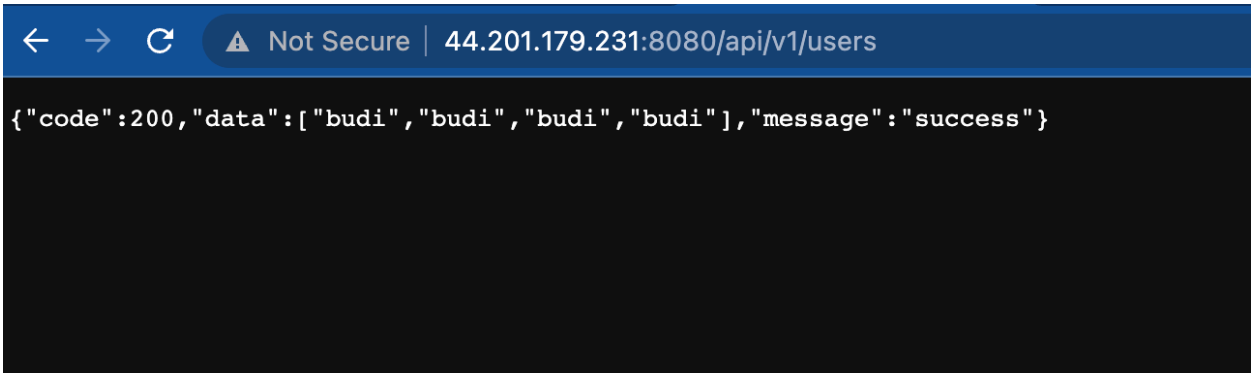
Get images from docker hub

```
[ec2-user@ip-172-31-86-4 ~]$ sudo docker images
REPOSITORY   TAG       IMAGE ID   CREATED   SIZE
[ec2-user@ip-172-31-86-4 ~]$ sudo docker pull andikaopp/demo
Using default tag: latest
latest: Pulling from andikaopp/demo
001c52e26ad5: Pull complete
d9d4b9b6e964: Pull complete
2068746827ec: Pull complete
9daef329d350: Pull complete
d85151f15b66: Pull complete
52a8c426d30b: Pull complete
8754a66e0050: Pull complete
f23644f2e06a: Pull complete
Digest: sha256:dafc53a8cfb27c80829808509d2edaf96a0fd0a45da8fc4be981f1a767cf16a2
Status: Downloaded newer image for andikaopp/demo:latest
docker.io/andikaopp/demo:latest
[ec2-user@ip-172-31-86-4 ~]$ ls
[ec2-user@ip-172-31-86-4 ~]$ sudo docker images
REPOSITORY       TAG       IMAGE ID       CREATED        SIZE
andikaopp/demo   latest    9738a529d8ea   44 hours ago   546MB
[ec2-user@ip-172-31-86-4 ~]$
```

Running images

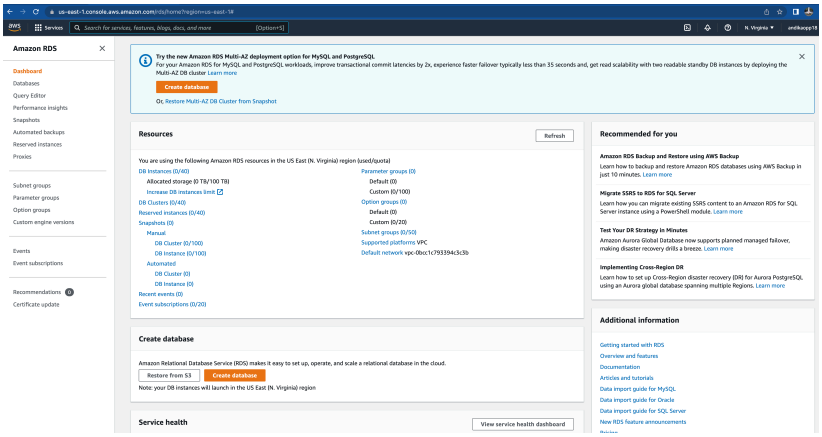
```
[ec2-user@ip-172-31-86-4 ~]$ sudo docker run -p 8080:8080 andikaopp/demo:latest

  .   ____          _            __ _ _
 /\\ / ___'_ __ _ _(_)_ __  __ _ \ \ \ \
( ( )\___ | '_ | '_| | '_ \/ _` | \ \ \ \
 \\/  ___)| |_)| | | | | || (_| |  ) ) ) )
  '  |____| .__|_| |_|_| |_\__, | / / / /
 =========|_|==============|___/=/_/_/_/
 :: Spring Boot ::                (v2.7.2)

2022-08-04 09:25:25.881  INFO 1 --- [           main] com.example.demo.DemoApplication         : Starting DemoApplication v0.0.1-SNAPSHOT using Java 1.8.0_342 on a35f74e47893 with
PID 1 (/demo.jar started by root in /)
2022-08-04 09:25:25.890  INFO 1 --- [           main] com.example.demo.DemoApplication         : No active profile set, falling back to 1 default profile: "default"
2022-08-04 09:25:28.469  INFO 1 --- [           main] o.s.b.w.embedded.tomcat.TomcatWebServer  : Tomcat initialized with port(s): 8080 (http)
2022-08-04 09:25:28.497  INFO 1 --- [           main] o.apache.catalina.core.StandardService   : Starting service [Tomcat]
2022-08-04 09:25:28.501  INFO 1 --- [           main] org.apache.catalina.core.StandardEngine  : Starting Servlet engine: [Apache Tomcat/9.0.65]
2022-08-04 09:25:28.685  INFO 1 --- [           main] o.a.c.c.C.[Tomcat].[localhost].[/]       : Initializing Spring embedded WebApplicationContext
2022-08-04 09:25:28.689  INFO 1 --- [           main] w.s.c.ServletWebServerApplicationContext : Root WebApplicationContext: initialization completed in 2656 ms
2022-08-04 09:25:30.217  INFO 1 --- [           main] o.s.b.w.embedded.tomcat.TomcatWebServer  : Tomcat started on port(s): 8080 (http) with context path ''
2022-08-04 09:25:30.243  INFO 1 --- [           main] com.example.demo.DemoApplication         : Started DemoApplication in 5.456 seconds (JVM running for 6.512)
```

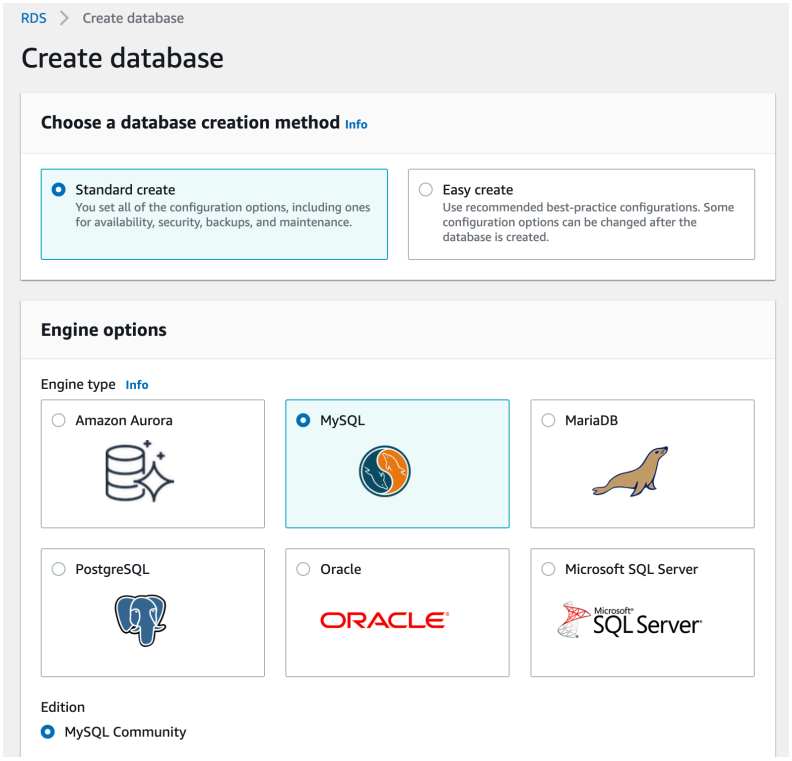
Akses domain API



RDS

Dashboard RDS





Version

MySQL 8.0.28

Templates

Choose a sample template to meet your use case.

- Production
  Use defaults for high availability and fast, consistent performance.
- Dev/Test
  This instance is intended for development use outside of a production environment.
- Free tier
  Use RDS Free Tier to develop new applications, test existing applications, or gain hands-on experience with Amazon RDS. Info

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_academy

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

••••••••••

Connectivity

Virtual private cloud (VPC) Info
VPC that defines the virtual networking environment for this DB instance.
Default VPC (vpc-0bcc1c793394c3c3b)
Only VPCs with a corresponding DB subnet group are listed.

After a database is created, you can't change its VPC.

Subnet group Info
DB subnet group that defines which subnets and IP ranges the DB instance can use in the VPC you selected.
default

Public access Info
- (•) Yes
  Amazon EC2 instances and devices outside the VPC can connect to your database. Choose one or more VPC security groups that specify which EC2 instances and devices inside the VPC can connect to the database.
- ( ) No
  RDS will not assign a public IP address to the database. Only Amazon EC2 instances and devices inside the VPC can connect to your database.

VPC security group
Choose a VPC security group to allow access to your database. Ensure 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 VPC security groups
launch-wizard-1 ×

Availability Zone Info
No preference

▼ Additional configuration

Database port Info
TCP/IP port that the database will use for application connections.
3306

Database port Info
TCP/IP port that the database will use for application connections.
3306

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.

▶ Additional configuration

Database options, encryption turned on, backup turned on, backtrack turned off, Enhanced Monitoring 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:

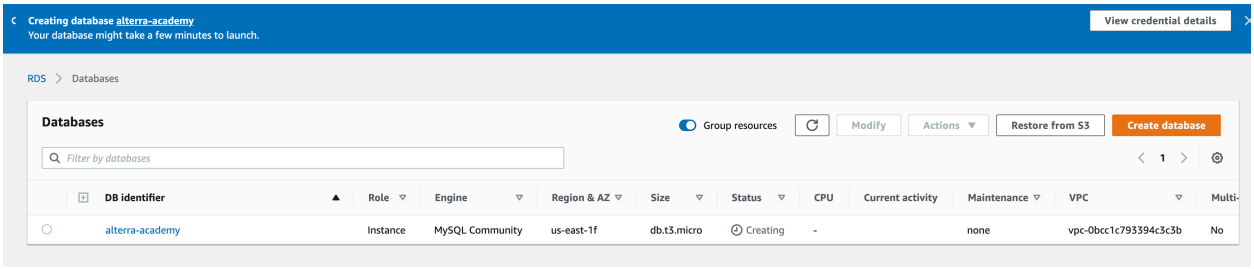
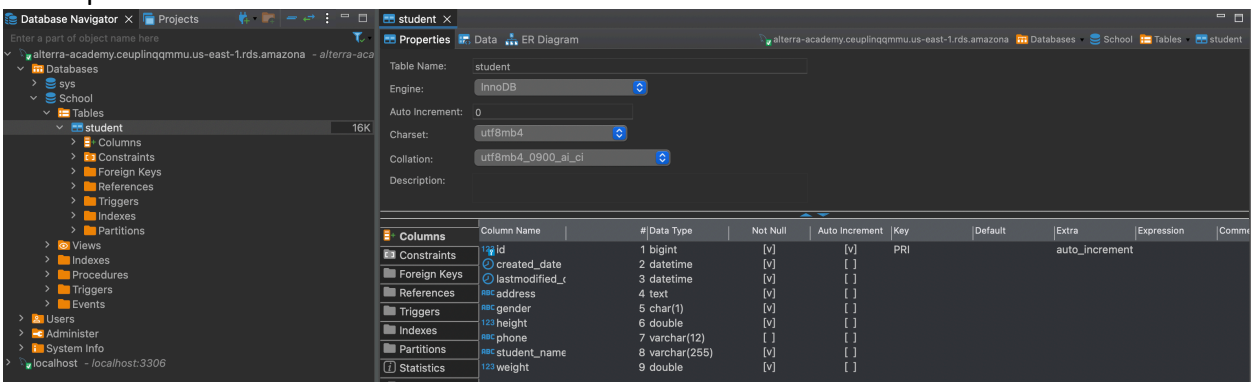
- 750 hrs of Amazon RDS in a Single-AZ db.t2.micro, db.t3.micro or db.t4g.micro Instance.
- 20 GB of General Purpose Storage (SSD).
- 20 GB for automated backup storage and any user-initiated DB Snapshots.

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**



RDS input data from local