

Connectivity of RDS with EC2

First, we have created an Amazon EC2 instance and Amazon RDS for connecting them. We have to install mariadb database in EC2 instance.

- Navigate through EC2 instance connect

The screenshot shows the 'Connect to instance' page in the AWS Management Console. The breadcrumb trail is 'EC2 > Instances > i-0e60b83ef73288561 > Connect to instance'. The title is 'Connect to instance' with an 'Info' link. Below the title, it says 'Connect to your instance i-0e60b83ef73288561 (new-web-server) using any of these options'. There are four tabs: 'EC2 Instance Connect' (selected), 'Session Manager', 'SSH client', and 'EC2 serial console'. Under 'EC2 Instance Connect', the 'Instance ID' is 'i-0e60b83ef73288561 (new-web-server)'. The 'Connection Type' has two options: 'Connect using EC2 Instance Connect' (selected, with a description: 'Connect using the EC2 Instance Connect browser-based client, with a public IPv4 address.') and 'Connect using EC2 Instance Connect Endpoint' (description: 'Connect using the EC2 Instance Connect browser-based client, with a private IPv4 address and a VPC endpoint.'). The 'Public IP address' is '52.91.201.249'. The 'Username' field has a search icon, the text 'ubuntu', and a close icon. A note box states: 'Note: In most cases, the default username, ubuntu, is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI username.' At the bottom right are 'Cancel' and 'Connect' buttons.

- Connect instance through Browser and install Mariadb in EC2 instance with command:

```
sudo apt update
sudo apt install mariadb-server
sudo systemctl start mariadb
sudo systemctl enable mariadb
sudo systemctl status mariadb
```

- When mariadb status is changed into running. Connect to database with command
`mysql -h <database-endpoint> -P 3306 -u admin -p`
- After connecting to database we can see database rdsdatabase created in RDS

```
ubuntu@ip-172-31-87-56:~$ mysql -h database-1.cju6weki8erd.us-east-1.rds.amazonaws.com -P 3306 -u admin -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 7
Server version: 10.11.6-MariaDB managed by https://aws.amazon.com/rds/

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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> show databases;
+-----+
| Database |
+-----+
| information_schema |
| innodb |
| mysql |
| performance_schema |
| rdsdatabase |
| sys |
+-----+
6 rows in set (0.001 sec)

MariaDB [(none)]>
```