

Server Architecture to transfer S3 data to RDS via EC2 Instance



Listing Bucket-list

Buckets (2) [Info](#)

Buckets are containers for data stored in S3. [Learn more](#)

[Refresh](#) [Copy ARN](#) [Empty](#) [Delete](#) [Create bucket](#)

	Name ▲	AWS Region ▼	Access ▼	Creation date ▼
<input type="radio"/>	sels307	Asia Pacific (Mumbai) ap-south-1	Objects can be public	November 25, 2022, 08:39:23 (UTC+05:30)
<input type="radio"/>	serverlessdynamo	Asia Pacific (Mumbai) ap-south-1	Objects can be public	November 25, 2022, 17:08:53 (UTC+05:30)

Listing Created EC2-Instance

Instances (1) [Info](#)

[Refresh](#) [Connect](#) [Instance state ▼](#) [Actions ▼](#) [Launch instances](#)

<input type="checkbox"/>	Name ▼	Instance ID	Instance state ▼	Instance type ▼	Status check	Alarm status
<input type="checkbox"/>	sel_s3	i-0b2c3cd4b8deae5b2	Running	t2.micro	2/2 checks passed	No alarms +

Listing Created RDS Instance

RDS > Databases

Databases

Group resources

Modify

Actions ▾

Restore from S3

Create database

Q Filter by databases

< 1 > ⚙

DB identifier	Role ▾	Engine ▾	Region & AZ ▾	Size ▾
selrds	Instance	MySQL Community	ap-south-1b	db.t3.micro

RDS Connectivity

Connectivity & security

Endpoint & port

Endpoint

selrds.c6z3we72kkmn.ap-south-1.rds.amazonaws.com

Port

3306

Networking

Availability Zone

ap-south-1b

VPC

vpc-0aa71b09f8c50706f

Subnet group

rds-ec2-db-subnet-group-1

Subnets

subnet-08f8a9a10491d48b2

subnet-04fb069d07db6b48b

subnet-05dd2d1a8c610fd5e

Network type

IPv4

Security

VPC security groups

rds-ec2-1 (sg-011a84045f2b37118)

Active

Publicly accessible

No

Certificate authority

rds-ca-2019

Certificate authority date

August 22, 2024, 22:38 (UTC+05:30)

Setting Amazon ENV inside EC2-Instance

```
ubuntu@ip-172-31-0-92:~/selvi/aws$ export AWS_ACCESS_KEY_ID=AKIA4FVO23Z725PRTNM3
ubuntu@ip-172-31-0-92:~/selvi/aws$ export AWS_SECRET_ACCESS_KEY=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
ubuntu@ip-172-31-0-92:~/selvi/aws$ export AWS_DEFAULT_REGION=us-east-1
ubuntu@ip-172-31-0-92:~/selvi/aws$
ubuntu@ip-172-31-0-92:~/selvi/aws$ env | grep "AWS"
AWS_DEFAULT_REGION=us-east-1
AWS_SECRET_ACCESS_KEY=CUGXRWzWYnh3uMtoYlADYg8+iQU0vg7/OJ8mVPbB
AWS_ACCESS_KEY_ID=AKIA4FVO23Z725PRTNM3
```

Running Python file inside EC2-Instance

```
ubuntu@ip-172-31-0-92:~/selvi/aws$ python3 rds.py
Existing buckets:
  sels307
  serverlessdyno
Moving to RDS
connection is successful
dropping old table
Creating table Employees
Printing records
{'id': 1, 'Name': 'Selvi'}
{'id': 2, 'Name': 'Jaya'}
{'id': 3, 'Name': 'Priya'}
{'id': 4, 'Name': 'Alan'}
{'id': 5, 'Name': 'Kumar'}
{'id': 6, 'Name': 'Swetha'}
Total records on DB :{'count(*)': 6}
ubuntu@ip-172-31-0-92:~/selvi/aws$
```

Viewing output in RDS instance

Status

✔ Successfully returned 7 records in 395 ms

Bytes returned: 62 B

Raw	Formatted
<pre>id,name 1,Selvi 2,Jaya 3,Priya 4,Alan 5,Kumar 6,Swetha</pre>	