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Module 7: RedShift Assignment

AWS Solutions Architect Training

Problem Statement:

You work for XYZ Corporation. Their application requires a database service that can store data that can be retrieved if required. Implement suitable service for the same.

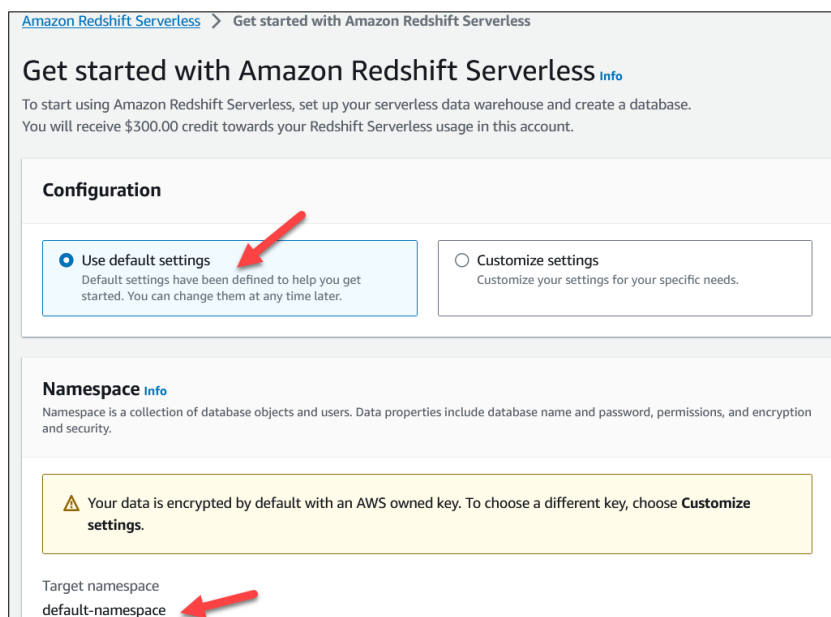
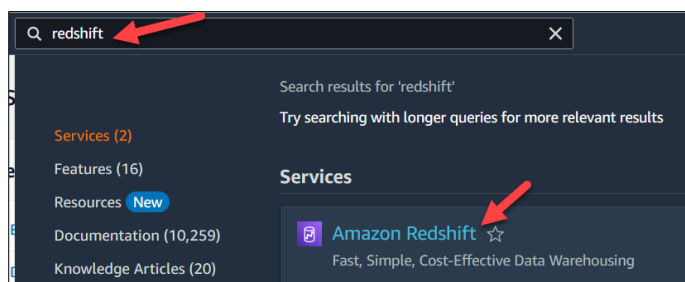
While migrating, you are asked to perform the following tasks:


1. Create a Redshift data warehouse.
2. Using the query editor:
 - a. Load some data
 - b. Query the data

Answer

Login to AWS Management Console <https://ap-south-1.console.aws.amazon.com/console/home?region=ap-south-1#>

Search for RedShift service → Click on Amazon RedShift.





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Database name is dev and IAM credentials are associated with it.

Workgroup Info
Workgroup is a collection of compute resources from which an endpoint is created. Compute properties include network and security settings.

Workgroup name
default-workgroup

Capacity Info
The capacity is measured in Redshift processing units (RPU).

Base capacity
128

Network and security

Virtual private cloud (VPC)
[vpc-495ceb2f](#)

VPC security group
[sg-802cc0fc](#)

Subnet
subnet-5d863b61,
subnet-c7b53ca2,
subnet-33eab27a,
subnet-c0d36ecc,
subnet-c41379e9,
subnet-4e026115,

Enhanced VPC routing
Off

Cancel


Save configuration

Click Save Configuration

It may take a few minutes to complete. After completing the setup, you can work with your data.
Setting up your Amazon Redshift Serverless.

5%

<




>

Ease of use with Amazon Redshift Serverless

Access and analyze data without the need to set up, tune, and manage Amazon Redshift clusters.

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default-namespace info

Actions Query data

General information

Namespace default-namespace	Status Available	Admin user name admin
Namespace ID fea87fc9-af13-4a17-83d8-bb0451fadd75	Date created October 28, 2023, 12:03 (UTC+05:30)	Database name dev
Namespace ARN arn:aws:redshift-serverless:us-east-1:183968932328:namespace/fea87fc9-af13-4a17-83d8-bb0451fadd75	Storage used 726 MB	Total table count -

Workgroup Data backup Security and encryption Datashares Tags

Workgroup name

Set up compute resources for your workgroup.

Workgroup
default-workgroup

Status
Available

See above screenshot RedShift with default name space has been created successfully.

Using the query window create a Database like below

Redshift query editor v2

Create Load data

Filter resources

- Serverless: default-workgr...
- awsdatacatalog
- dev
 - pg_auto_copy
 - public
 - Tables 1
 - part
 - Views 0
 - Functions 0
 - Stored proc... 0
 - sample_data_dev

Untitled 1

Run Limit 100 Explain Isolated session

```

1 CREATE TABLE part
2 (
3     p_partkey    INTEGER NOT NULL,
4     p_name       VARCHAR(22) NOT NULL,
5     p_mfgr       VARCHAR(6),
6     p_category   VARCHAR(7) NOT NULL,
7     p_brand1     VARCHAR(9) NOT NULL,
8     p_color      VARCHAR(11) NOT NULL,
9     p_type       VARCHAR(25) NOT NULL,
10    p_size        INTEGER NOT NULL,
11    p_container   VARCHAR(10) NOT NULL
12 );

```

Result 1

result set query.

```

CREATE TABLE part
(
  p_partkey    INTEGER NOT NULL,
  p_name       VARCHAR(22) NOT NULL,
  p_mfgr       VARCHAR(6),
  p_category   VARCHAR(7) NOT NULL,
  p_brand1     VARCHAR(9) NOT NULL,
  p_color      VARCHAR(11) NOT NULL,
  p_type       VARCHAR(25) NOT NULL,
  p_size        INTEGER NOT NULL,
  p_container   VARCHAR(10) NOT NULL
)

```

CREATE TABLE students

```

(
  p_partkey    INTEGER NOT NULL,
  p_name       VARCHAR(22) NOT NULL,
  p_rollnumber  VARCHAR(6),
  p_nthclass   VARCHAR(7) NOT NULL
);

```



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Redshift query editor v2

Filter resources

Serverless: default-workgr...
awsdatacatalog
dev
pg_auto_copy
public
Tables 2
part
students
Views 0
Functions 0
Stored proc... 0
sample_data_dev

Run Limit 100 Explain Isolated session Serverless: de...

```
1 insert into students VALUES
2 (1, 'Ravi', '101', '9th');
```

Result 1

Summary
Affected rows: 1
Elapsed time: 4.5s
Result set query:
insert into students VALUES
(1, 'Ravi', '101', '9th')
--RequestID=1331bd52-b5ed-4d49-9057-68a3b4af61a5; TraceID=1-653cb091-3afe3f5975bd222b79decb30

```
insert into students VALUES
(1, 'Ravi', '101', '9th');
```

Insert the data using the above query.

Run Limit 100 Explain Isolated session Serverless: de... dev

```
1 select * from students;
```

Result 1 (1)

	p_partkey	p_name	p_rollnumber	p_nthclass
	1	Ravi	101	9th

Above is the query to query the data on the table.

That's complete the question.