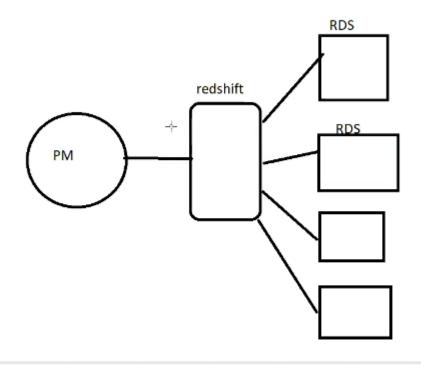
# REDSHIFT AND CLOUDTRAIL

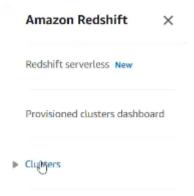
REDSHIFT -- DATA WAREHOUSE

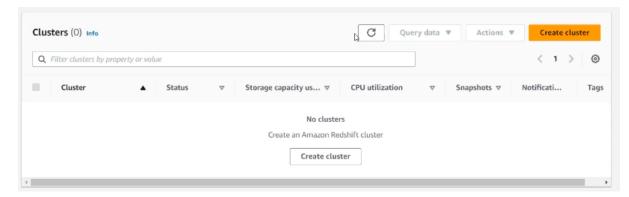
Collection of RDS servers = REDSHIFT



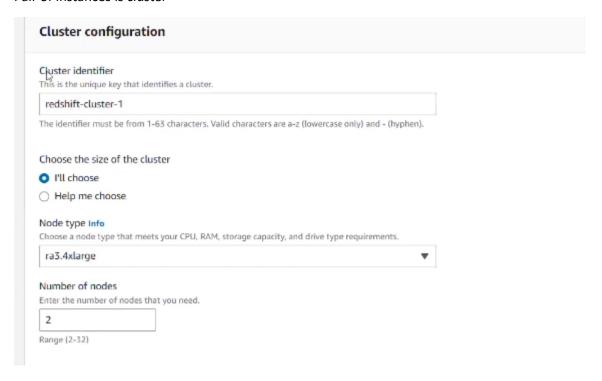
Change unstructured data to structured data = semi structured database

Analytics – amazon redshift



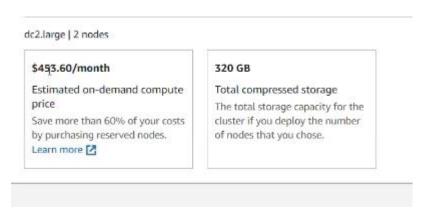


### Pair of instances is cluster

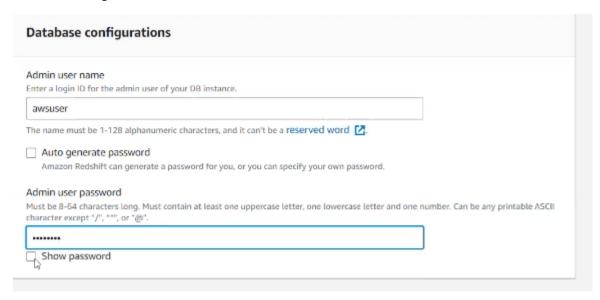


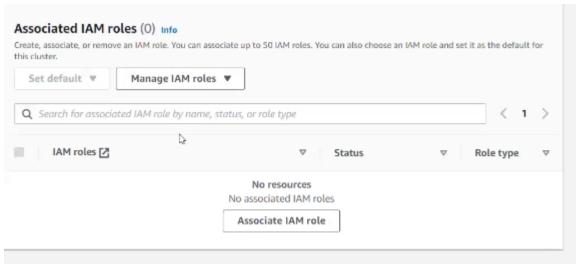
## Dc2large

## No of nodes 2

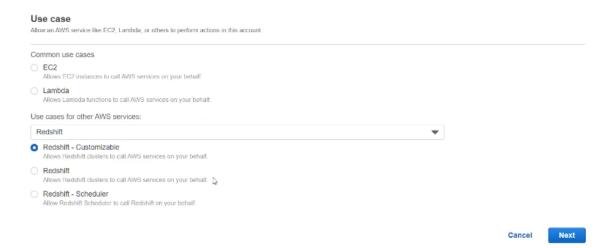


## Database configuration





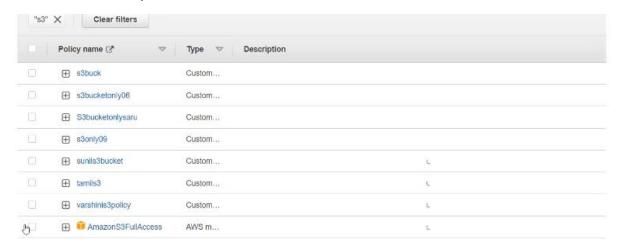
#### Select IAM



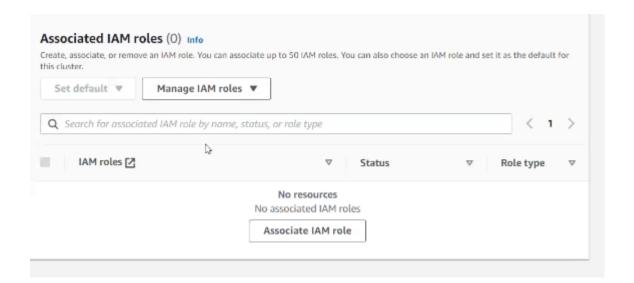
Select redshift

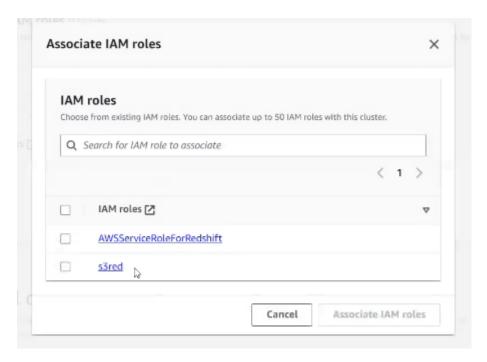
Redshift customizable

# Redshift s3 full access permission

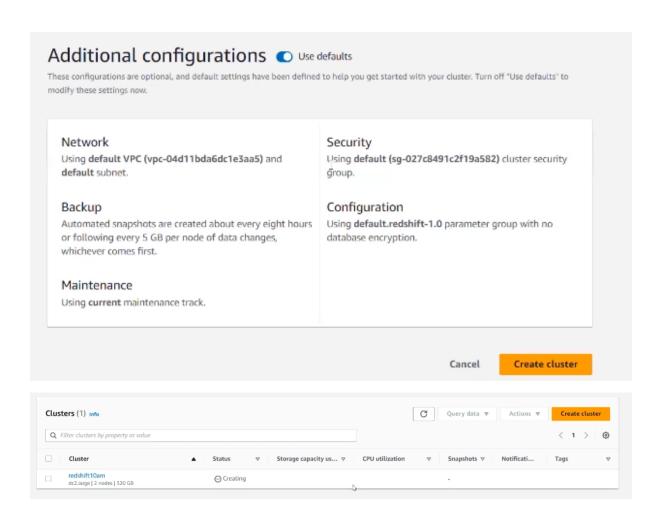




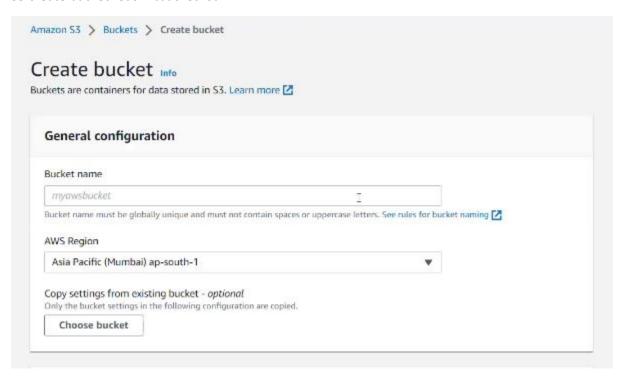


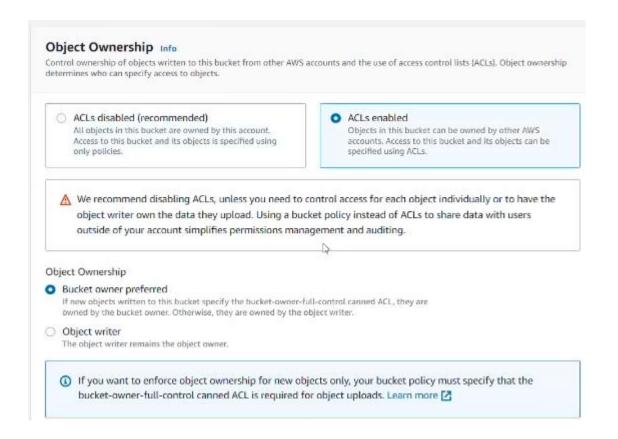


#### Reds3



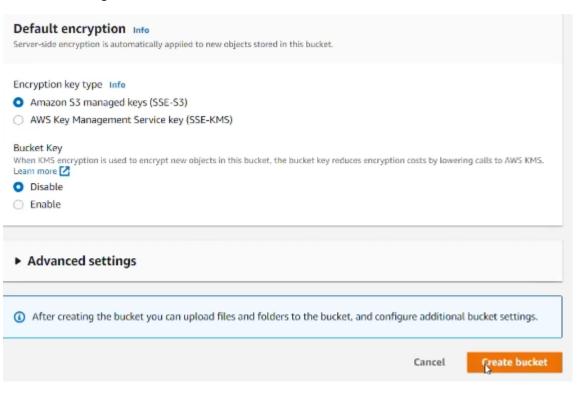
#### S3 create bucket redshiftbucket10am



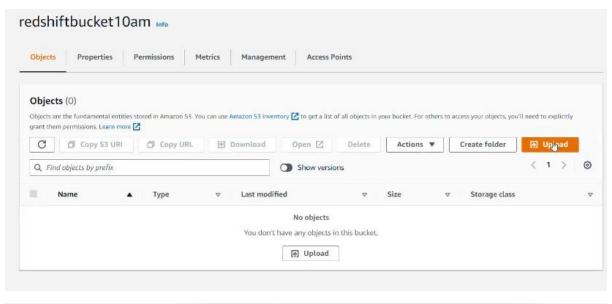


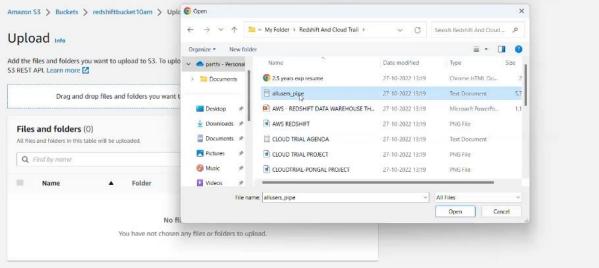
DU	ock all public access
Tu	ming this setting on is the same as turning on all four settings below. Each of the following settings are independent of one another
- 0	Block public access to buckets and objects granted through new access control lists (ACLs)  53 will block public access permissions applied to newly added buckets or objects, and prevent the creation of new public access  ACLs for existing buckets and objects. This setting doesn't change any existing permissions that allow public access to 53 resource using ACLs.
- 0	Block public access to buckets and objects granted through <i>any</i> access control lists (ACLs) S3 will ignore all ACLs that grant public access to buckets and objects.
- 0	Block public access to buckets and objects granted through new public bucket or access point policies 53 will block new bucket and access point policies that grant public access to buckets and objects. This setting doesn't change an existing policies that allow public access to 53 resources.
- []	Block public and cross-account access to buckets and objects through any public bucket or access point policies 53 will ignore public and cross-account access for buckets or access points with policies that grant public access to buckets and objects.
4	Turning off block all public access might result in this bucket and the objects within becoming public AWS recommends that you turn on block all public access, unless public access is required for specific and verified use cases such as static website hosting.
	<ul> <li>I acknowledge that the current settings might result in this bucket and the objects within becoming public.</li> </ul>

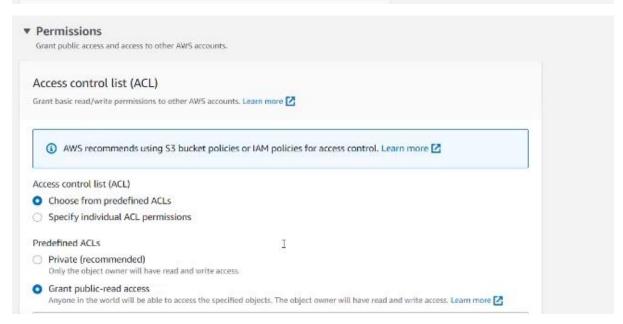
# Bucket versioning enable

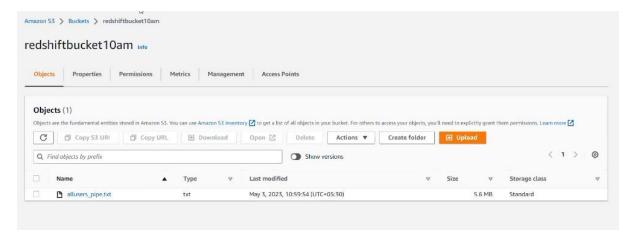


### Upload object in the bucket

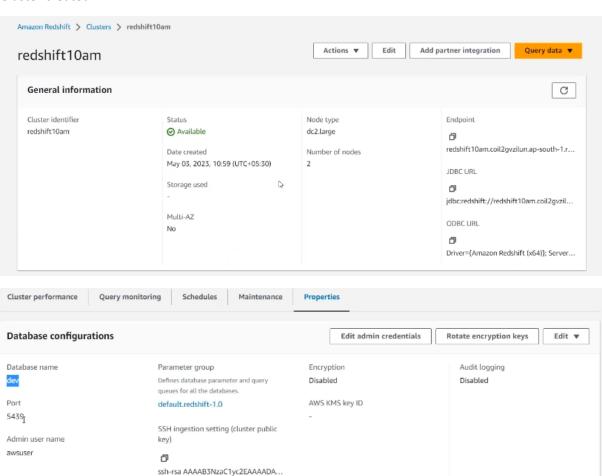




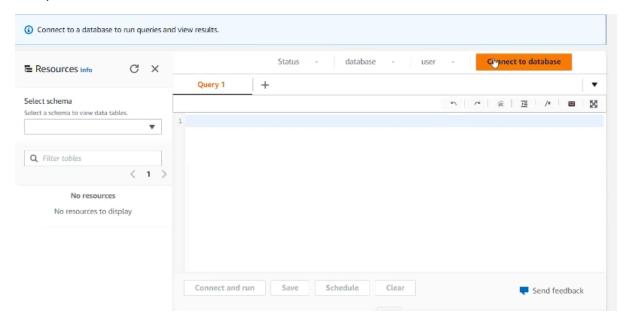




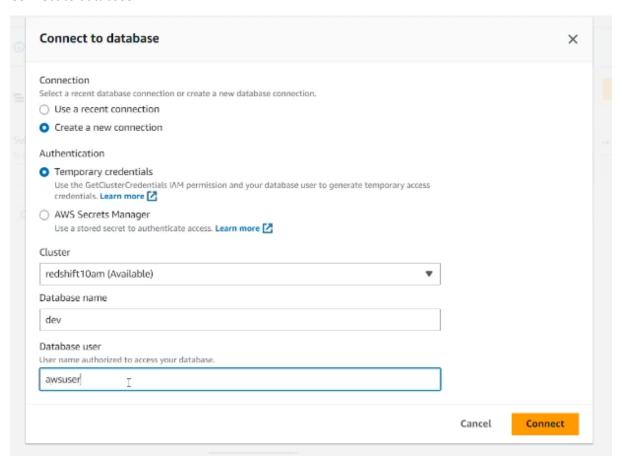
#### Cluster created



# Query editor



## Connect to database





```
create table users(
   userid integer not null distkey sortkey,
   username char(8),
   firstname varchar(30),
   lastname varchar(30),
   city varchar(30),
   state char(2),
   email varchar(100),
   phone char(14),
   likesports boolean,
   liketheatre boolean,
   likeconcerts boolean,
   likejazz boolean,
   likeclassical boolean,
   likeopera boolean,
   likerock boolean,
   likevegas boolean,
   likebroadway boolean,
   likemusicals boolean);
```

Copy and paste this in query editor

User table created

Go to IAM COPY ARN

```
reds3

Allows Redshift clusters to call AWS services on your behalf.

Summary

Creation date
May 03, 2023, 10:57 (UTC+05:30) 
Last activity
None

Delete

ARN

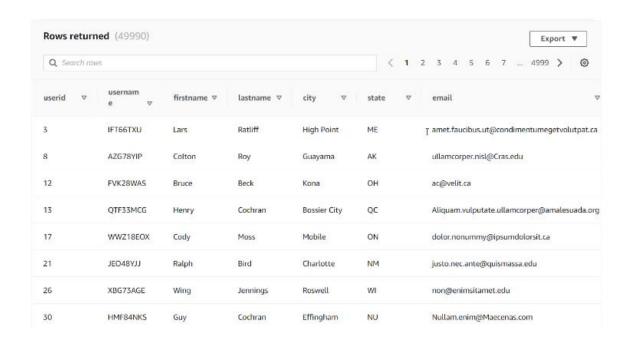
② arr:aws:iam::174912287653:role/reds3

Maximum session duration
1 hour
```

```
copy users from 's3://redshiftbucket10am/allusers_pipe.txt'
credentials 'aws_iam_role=arn:aws:iam::174912287653:role/reds3'
delimiter '|' region 'ap-south-1';
```

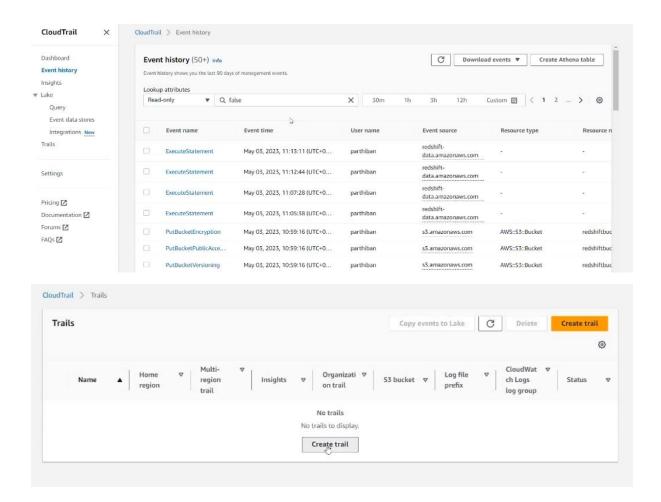
**SELECT \*** 

**FROM USERS** 

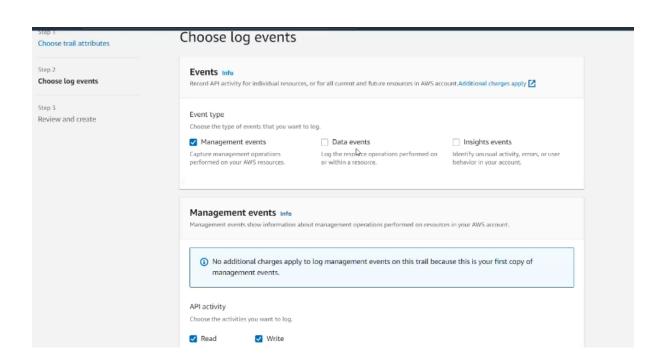


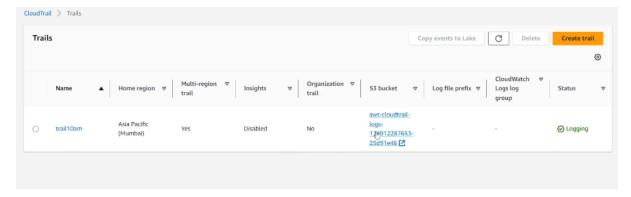
#### **CLOUDTRAIL**

# CloudTrail is a monitoring tool it's a service that captures user actions



rail name nter a display name for your trail.		
trail 10am 128 characters. Only letters, numbers, periods, underscores, and dashes are allowed.		
		☐ Enable for all accounts in my organization
To review accounts in your organization, open AWS Organization	s. See all accounts 🔼	
Storage location Info		
Create new S3 bucket	Use existing S3 bucket	
Create a bucket to store logs for the trail.	Choose an existing bucket to store logs for this trail.	
Trail log bucket and folder		
Enter a new S3 bucket name and folder (prefix) to store your log:	s. Bucket names must be globally unique.	
aws-cloudtrail-logs-174912287653-3af2328c		
Logs will be stored in aws-cloudtrail-logs-174912287653-3af23.	28c/AWSLogs/174912287653	
Log file SSE-KMS encryption Info		
✓ Enabled		
O New		
New Existing		
○ Existing		





#### S3 bucket created

