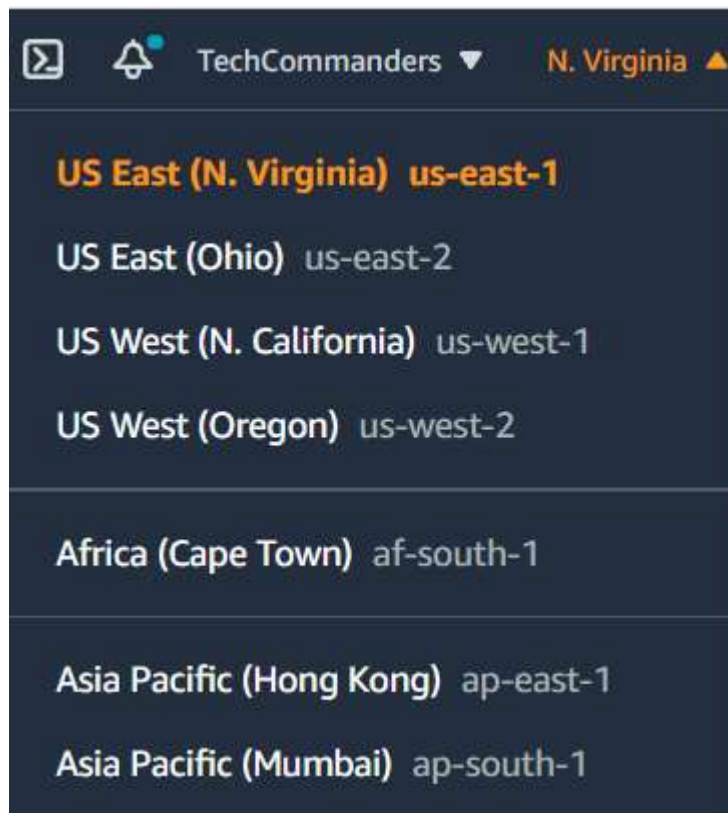


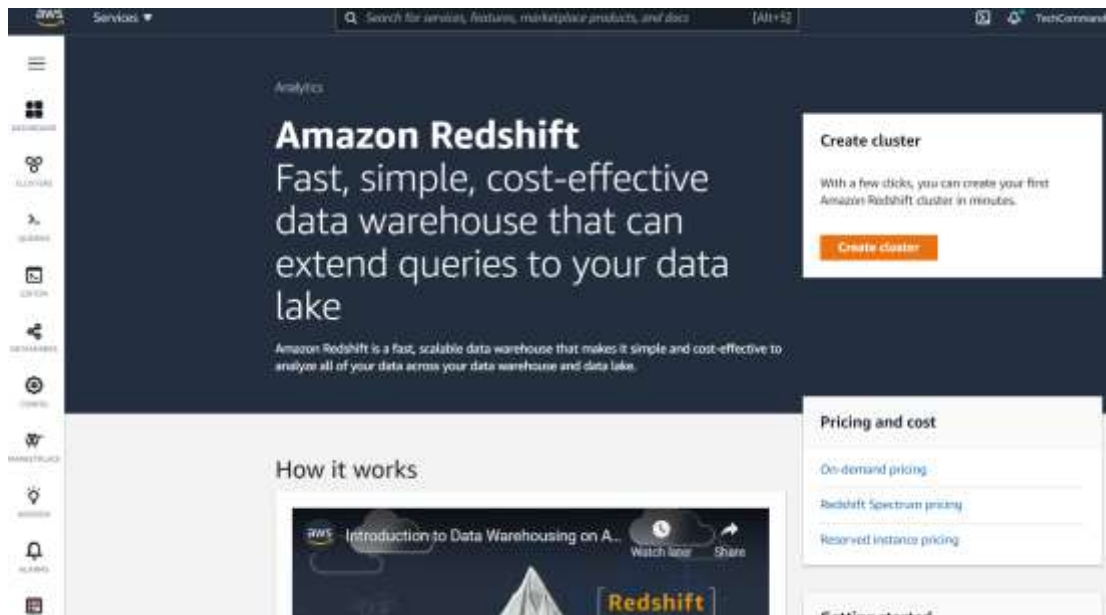
In this exercise we will deploy a Free Tier Redshift Cluster with sample data that we will be using for connection and query practice.

(Once we are done with Exercise Two we will delete the cluster since we will be deploying a 3 node cluster and then ingesting data.

1. Setup an AWS Free Tier account (For those without an AWS Account)
2. Sign in and launch a Redshift Cluster using the following steps.
 - Sign in to AWS Management console and use the following link to open Amazon Redshift console – <https://console.aws.amazon.com/redshift/>
 - Select the region where the cluster is to be created using the Region menu on the top right-side corner of the screen.

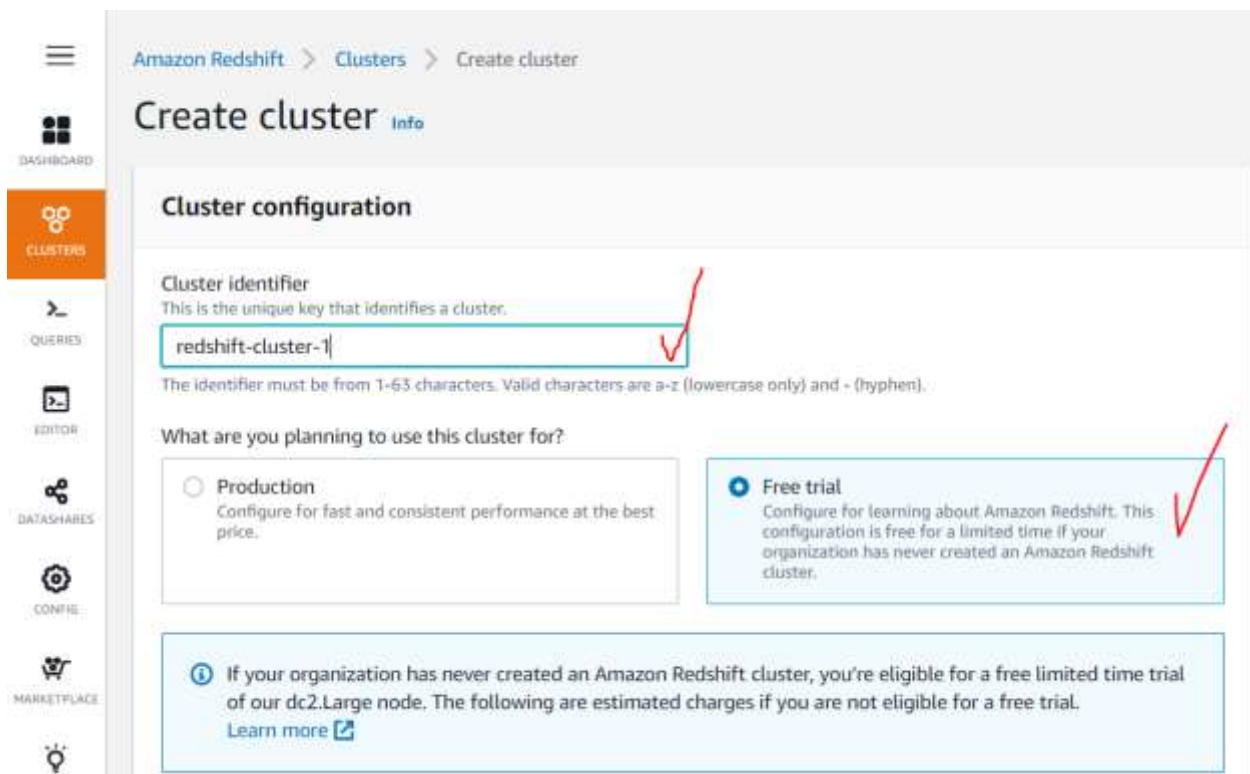


- Click the Create Cluster button that is Orange on the right side of the interface.



We will leave the Cluster Identifier as default.

Select the "Free trial" for What are you planning to use this cluster for?



A calculated summary will be presented.

Calculated configuration summary

dc2.large | 1 node

High performance with fixed local SSD storage

Compute

2 vCPU (gen 2) / node x 1 = 2 vCPU

Estimated on-demand compute price:

\$2,190.00/year

\$0.25/node/hour

Estimated reserved (1 year)

\$1,407.00/year

\$0.075/node/hour

36% discount

Estimated reserved (3 year)

\$879.667/year

\$0.05/node/hour

60% discount

Storage capacity

160 GB x 1 nodes = 160 GB

Very Sample Data will be loaded. This will be used in the upcoming exercises.

Sample data [Info](#)

 Sample data is loaded with your Redshift cluster.

Tickit (28 MB)

Tickit is the sample data set that uses a sample database called TICKIT. Tickit contains individual sample data files: two fact tables and five dimensions.

Enter your username and enter a password.

Select Create Cluster

Database configurations

Admin user name
Enter a login ID for the admin user of your DB instance.

The name must be 1-128 alphanumeric characters, and it can't be a [reserved word](#).

☐ **Auto generate password**
Amazon Redshift can generate a password for you, or you can specify your own password.

Admin user password

☐ **Show password**

Must be 8-64 characters long. Must contain at least one uppercase letter, one lowercase letter and one number. Can be any printable ASCII character except "/", "", or "@".

[Cancel](#) [Create cluster](#)

The Cluster will be deployed, and the sample data will be loaded. (Up to 10 minutes)

When the process completes this should be similar to this example.

The screenshot shows the Amazon Redshift console interface. At the top, there are two green status bars: "Successfully created cluster redshift-cluster-1" and "Successfully loaded sample data". Below these, the "Clusters" section is active, displaying a table with one cluster: "redshift-cluster-1". The cluster is in the "Available" state. The console also shows options to "Query data" and "Download driver".

Cluster	Cluster name	Status	Storage capacity	CPU utilization	Snapshot	Notifications	Tags
redshift-cluster-1	redshift-cluster-1	Available	5 TB	0%			

Under Clusters, select the newly deployed cluster.

Cluster	Cluster name	Status	Storage capacity	CPU utilization	Snapshots	Redshift...	Tags
✓ redshift-cluster-1	redshift-cluster-1	Available	16 TB	0%	0		

Validate the cluster = Available, Nodes, etc.

redshift-cluster-1

General information

Cluster identifier redshift-cluster-1	Status Available	Node type dc1.large	Endpoint redshift-cluster-1.dyltjzpe0k3.us-east-1.redshift.amazonaws.com
Cluster name redshift-cluster-1	Date created October 05, 2021, 04:27:07C-04:00	Number of nodes 1	DBCC logs jdlcr:redshift-j/redshift-cluster-1.dyltjzpe0k3.us-east-1.redshift.amazonaws.com
Storage capacity 16 TB (15.5 TB used)	Storage type HDD	Auto-tune Not available	DBCC logs jdlcr:redshift-j/redshift-cluster-1.dyltjzpe0k3.us-east-1.redshift.amazonaws.com

Cluster performance | Query monitoring | Schedules | Maintenance | Properties

Recommendations (0)
To improve performance and decrease spending costs, recommendations are provided by the Amazon Redshift Advisor.

Alarms (0)
CloudWatch alarms are triggered when a metric threshold is met.

Events (2)
Amazon Redshift tracks events that occur on your cluster.

Leave this cluster online, we will use for the next few exercises. Next Exercise we will connect to a database.

End of Exercise 1. Exercise Two we will connect to the database and then query the sample data.