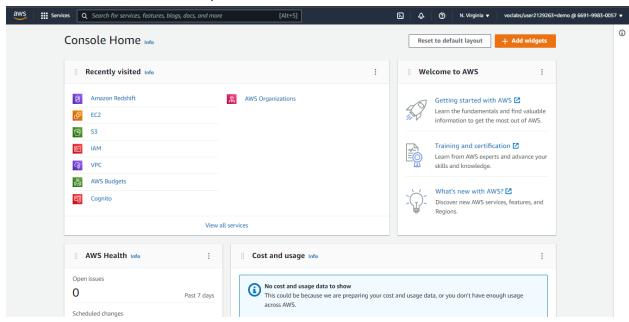


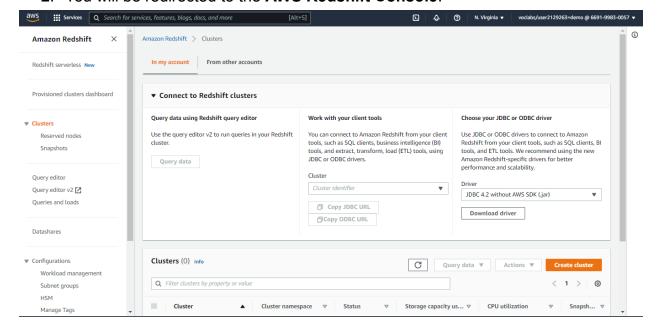


Creating a Redshift Cluster

1. Choose the Redshift option from the Amazon Dashboard.



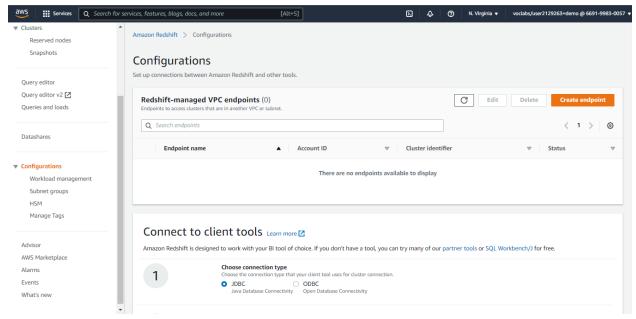
2. You will be redirected to the AWS Redshift Console.



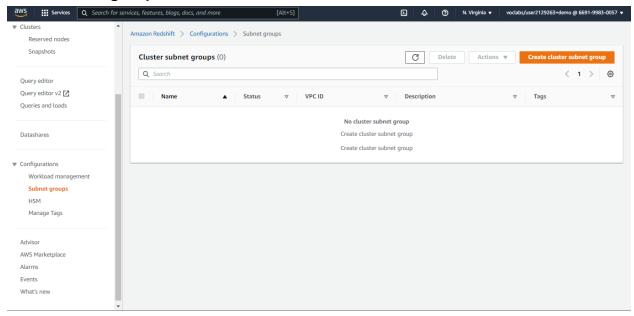




3. Go to Configurations.



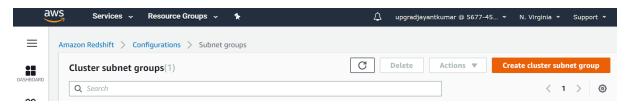
4. In the **Config** dashboard, scroll down to the **Subnet Groups**. Click on '**Manage** subnet groups'.



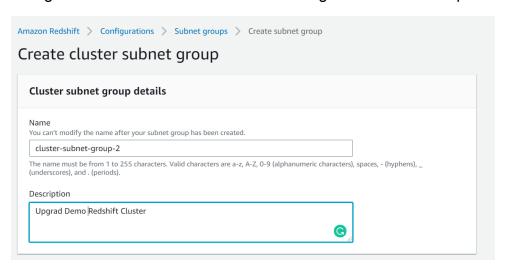




5. Click on the 'Create cluster subnet group' button.



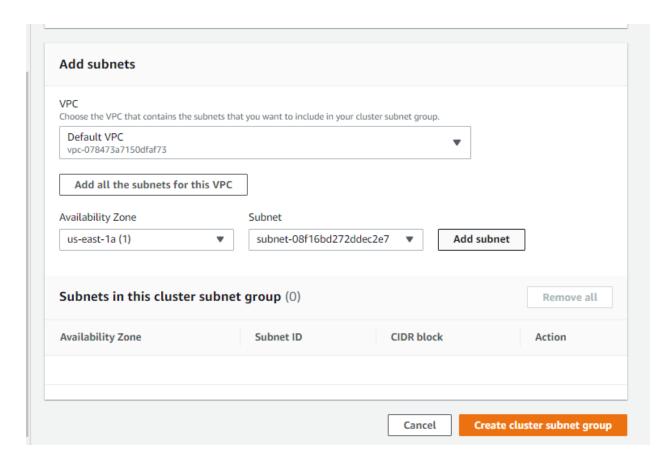
6. Assign a name for the Redshift cluster along with a brief description.



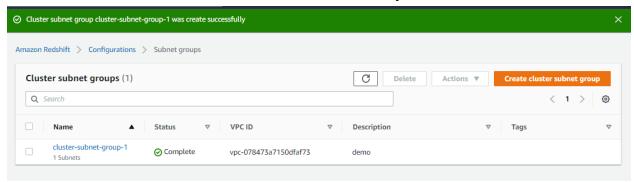
7. Scroll down until you reach the **Add subnets** option. Select your **VPC** from the drop-down list. After that available **Availability Zone** appears; select any one. Then, select the **Subnet** drop-down list that appears. Click on **Add subnet** button. Lastly, click on the **Create cluster subnet group**.







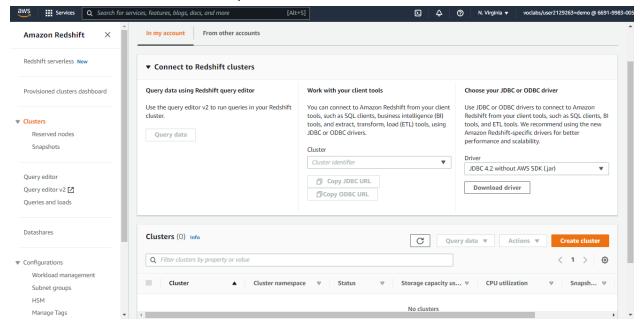
8. The cluster subnet has been created successfully.



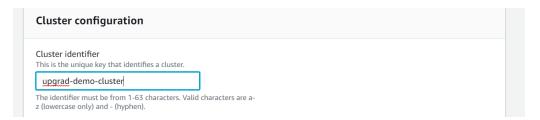




9. Now, select the Cluster option from the AWS Redshift Console.



10. Click on Create Cluster, assign a name for your cluster and then scroll down.



11. Choose a Node type. Here, you need to select the dc2.large cluster.





Cluster identifier This is the unique key that identifies a cluster.	
redshift-cluster-1	
The identifier must be from 1-63 characters. Valid characters are a-z (lo	wercase only) and - (hyphen).
What are you planning to use this cluster for?	
 Production Configure for fast and consistent performance at the best price. 	Free trial Configure for learning about Amazon Redshift. This configuration is free for a limited time if your organization has never created an Amazon Redshift cluster.
Choose the size of the cluster	
I'll choose Help me choose	
Node type Info Choose a node type that meets your CPU, RAM, storage capacity, and do	rive type requirements.
dc2.large ▼	
Number of nodes Enter the number of nodes that you need. 2 Range (1-32)	

12. Scroll down, and set the number of nodes to **2.** If, by default, it is set to 2, then do not change it.

Number of r	nodes ber of nodes that you need.
2	
Range (1-32)	





13. Scroll down, and perform **Database configuration**. Set a database name. The default port is **5439**, which is known globally. So, the best practice is to change the port number and set it to any one between **1150** and **65535**. This prevents any foreign attack or stops the entrance of intruders to your cluster. Set a password with the combination of **number**, **lowercase** letter and **uppercase** letter whose length should be **8–64** characters. You can reset the password once your cluster is created successfully.

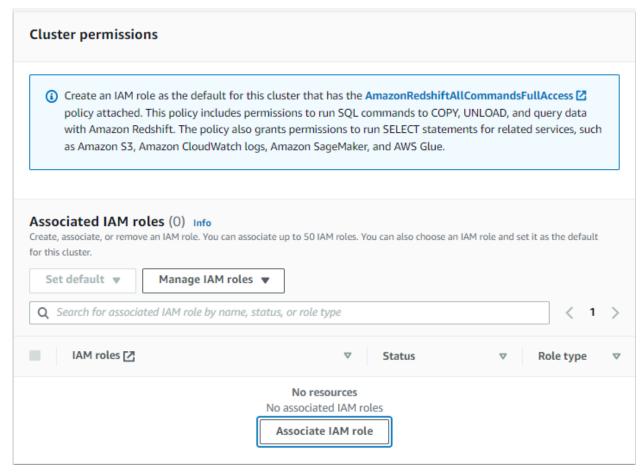
Database configurations	
Admin user name Enter a login ID for the admin user of your DB instance.	
awsuser	
The name must be 1-128 alphanumeric characters, and it can't be a reserved word .	
 Auto generate password Amazon Redshift can generate a password for you, or you can specify your own password. 	
Admin user password	

Show password	
Must be 8-64 characters long. Must contain at least one uppercase letter, one lowercase letter and one ne character except "/", """, or "@".	umber. Can be any printable ASCI





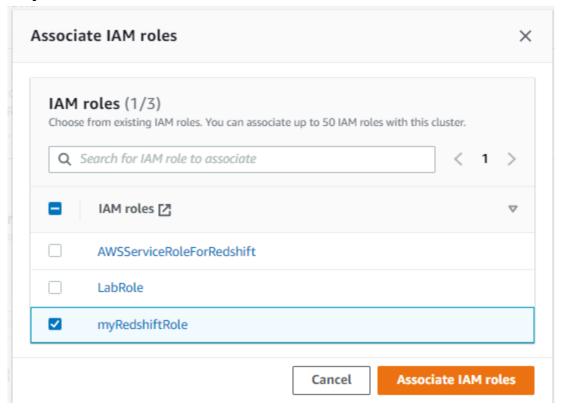
14. Click on Associate IAM Roles







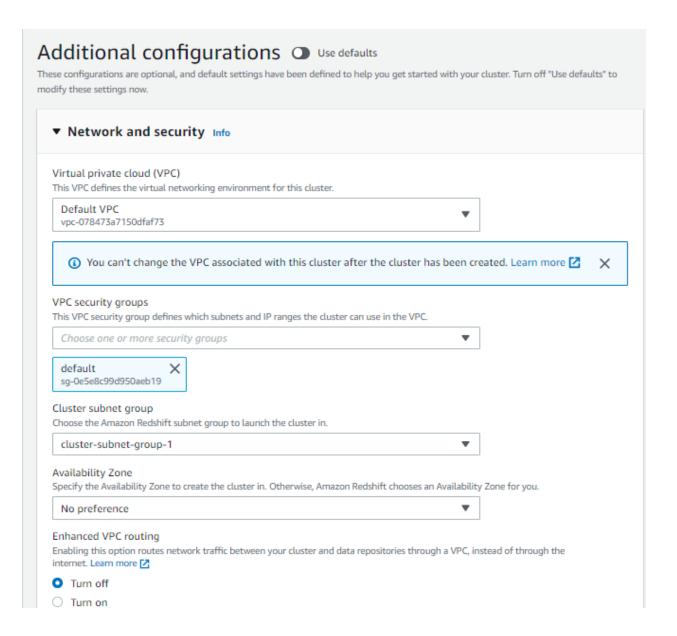
Select myRedshift Role from the list



15. Scroll down, and add the Cluster subnet in Additional Configuration > Network and Security. Here, you need to select the VPC, followed by the Security Group and then the subnet group that you created in step 8. Scroll down, and click on the Create Cluster.



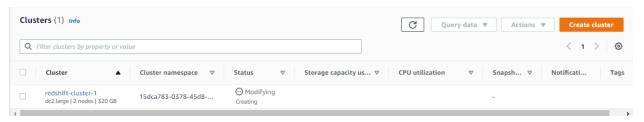




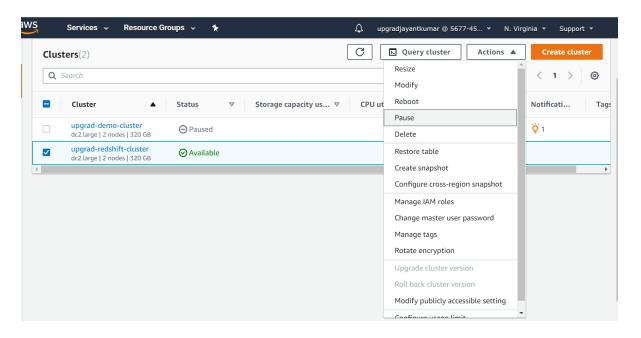




14. The creation of the cluster will take some time



15. While configuring the node type dc2.large, you saw that the pricing tag is for per hour. So, as a best practice and for cost-cutting, pause your cluster if you are not using it.







NOTE: You can view the permissions of the myRedshiftRole from the IAM dashboard. You will redirect to the IAM Role dashboard.

