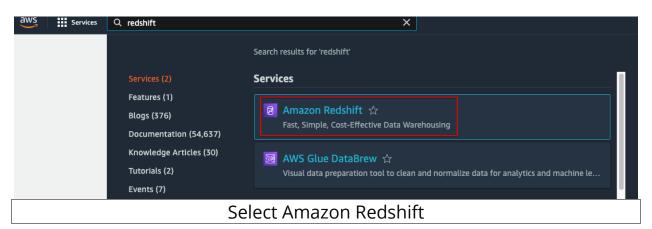
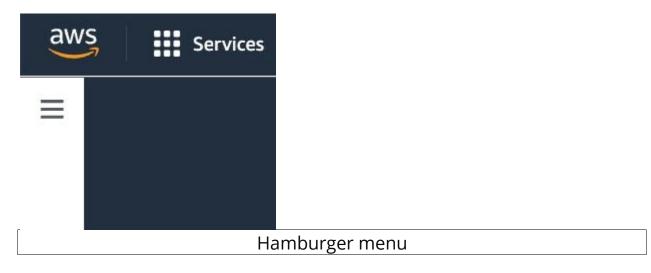
Now give the role S3 Full Access: aws iam attach-role-policy --policy-arn arn:aws:iam::aws:policy/AmazonS3FullAccess --role-name myredshift-service-role

- Open the AWS console by clicking on the Launch Cloud
 Gateway button followed the Open Cloud Console button in the classroom.
- 2. Search **Redshift** in the search bar, and then click on **Amazon Redshift**.



3. On the left click the hamburger menu



4. Click Redshift Serverless

Amazon Redshift

X

Redshift serverless New

Provisioned clusters dashboard

From the Amazon Redshift menu on the left, Click Redshift serverless

5. Click **Customize settings**

Amazon Redshift Serverless > Get started with Amazon Redshift Serverless

Get started with Amazon Redshift Serverless

To start using Amazon Redshift Serverless, set up your serverless data warehouse and create a database. You will receive \$300.00 credit towards your Redshift Serverless usage in this account.

Configuration Info

Use default settings

Default settings have been defined to help you get started. You can change them at any time later.

Customize settings

Customize your settings for your specific needs.

Namespace Info

Namespace is a collection of database objects and users. Data properties include database name and password, permissions, and encryption and security.

Namespace name

This is a unique name that defines the namespace.

default

The name must be from 3-64 characters. Valid characters are a-z (lowercase only), 0-9 (numbers), and - (hyphen).

▼ Database name and password

Database name

The name of the first database in the Amazon Redshift Serverless environment.

dev

The name must be 1-64 alphanumeric characters (lowercase only), and it can't be a reserved word.

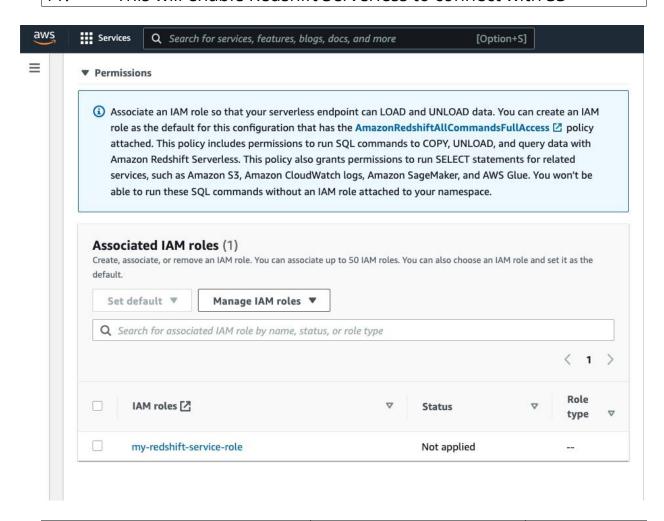
Customize settings

- 6. Go with the **default** namespace name
- 7. Check the box Customize admin user credentials
- 8. Enter **awsuser** for the Admin user name
- 9. Enter a password (save this for later)

Configuration Info Use default settings Customize settings Default settings have been defined to help you get Customize your settings for your specific needs. started. You can change them at any time later. Namespace Info Namespace is a collection of database objects and users. Data properties include database name and password, permissions, and encryption and security. Namespace name This is a unique name that defines the namespace. default The name must be from 3-64 characters. Valid characters are a-z (lowercase only), 0-9 (numbers), and - (hyphen). ▼ Database name and password Database name The name of the first database in the Amazon Redshift Serverless environment. The name must be 1-64 alphanumeric characters (lowercase only), and it can't be a reserved word. Admin user credentials IAM credentials provided as your default admin user credentials. To add a new admin username and password, customize admin user credentials. Customize admin user credentials To use the default IAM credentials, clear this option. Admin user name The administrator's user name for the first database. 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 The password of the admin user. R3dsh1ft 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 "@".

Show password

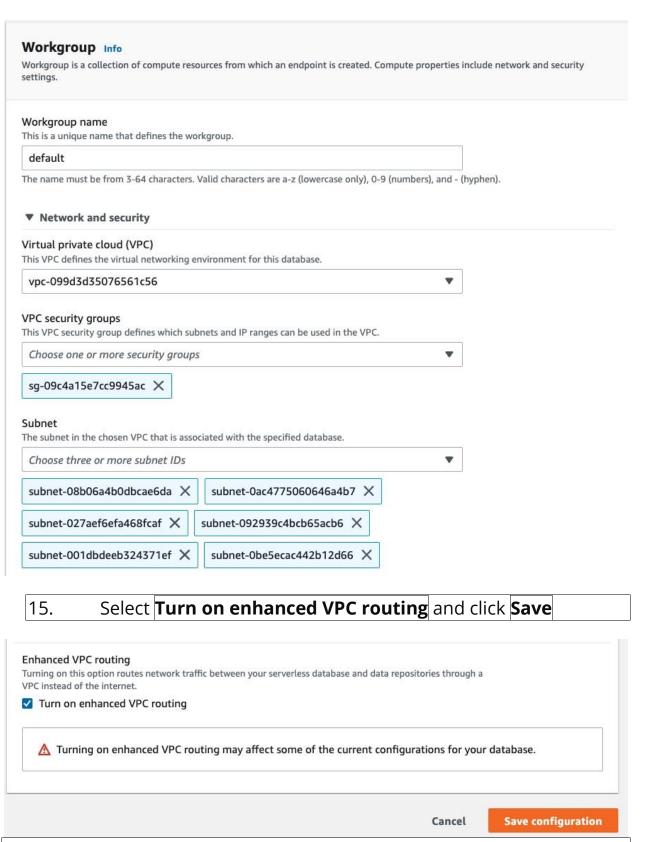
- 10. Associate the my-redshift-service-role you created with Redshift (Hint: If the role you created didn't show up, refresh the page)
- 11. This will enable Redshift Serverless to connect with S3



13. Accept the defaults for **Security and encryption**

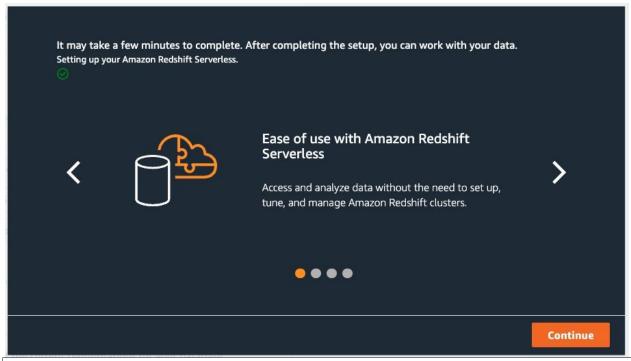
Tour data is enerypted	by default with an AWS owned key. To choose a different key, customize your
encryption settings.	
Customize encryption set	tings (advanced)
Audit logging Info	
Collects logging information for th	e database.
Export these logs:	
User log	
Connection log	

14. Accept the default **Workgroup** settings



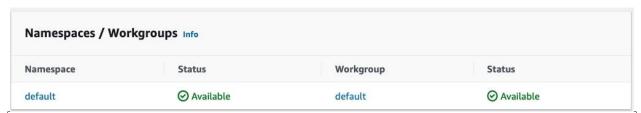
Turn on enhanced VPC routing

16. Click **Continue** and wait for **Redshift Serverless** setup to finish



Wait for setup to finish

17. On successful completion, you will see Status Available, as shown below:



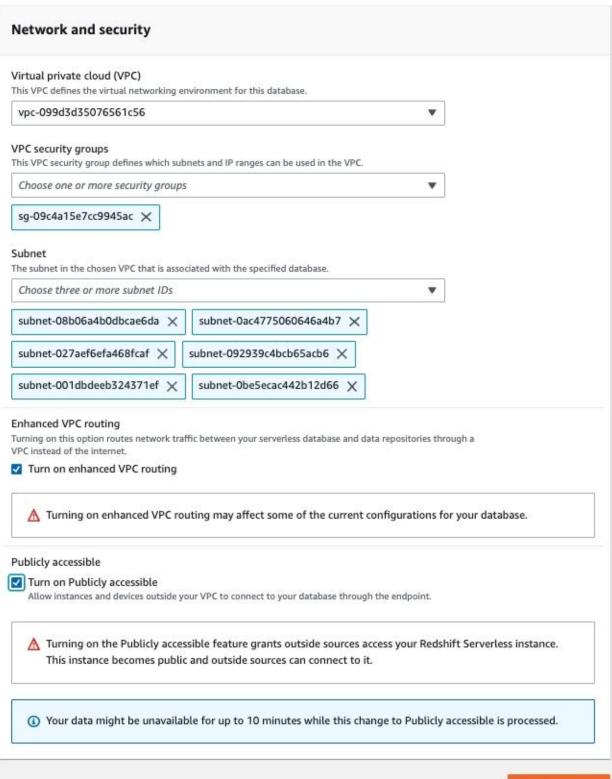
Available Status

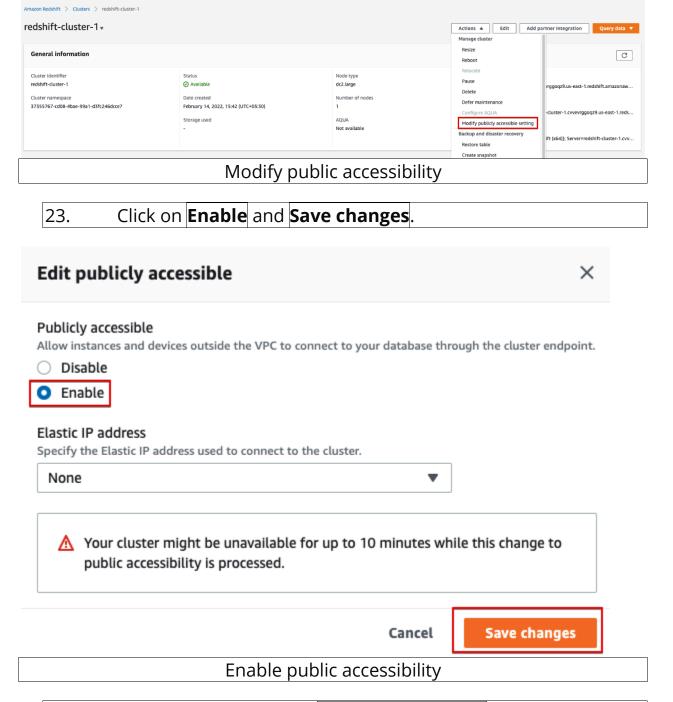
- 18. Click the **default** Workgroup.
- 19. Next, we are going to make this cluster publicly accessible as we would like to connect to this cluster via Airflow.
- 20. Click **Edit**



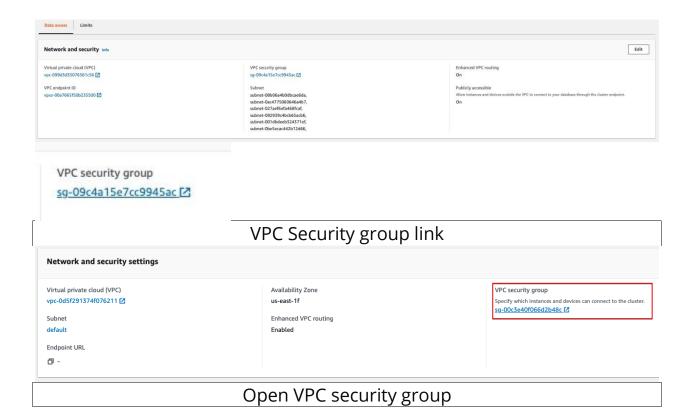
Click Edit

- 21. Select **Turn on Publicly accessible**
- 22. Click **Save**

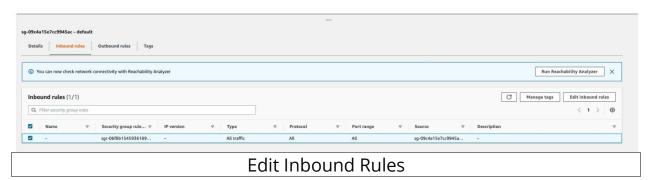




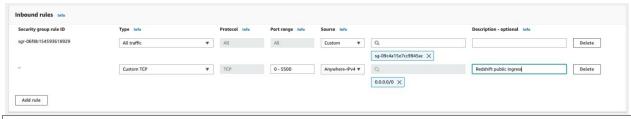
24. Choose the link labeled **VPC security group** to open the Amazon Elastic Compute Cloud (Amazon EC2) console.



25. Go to **Inbound Rules** tab and click on **Edit inbound rules**.



- 26. Add an inbound rule, as shown in the image below.
- Type = Custom TCP
- Port range = 0 5500
- Source = Anywhere-iPv4



Add inbound rule

- 27. Now Redshift Serverless should be accessible from Airflow.
- 28. Go back to the Redshift Workgroup and copy the endpoint. Store this locally as we will need this while configuring Airflow.



Copy the redshift cluster endpoint