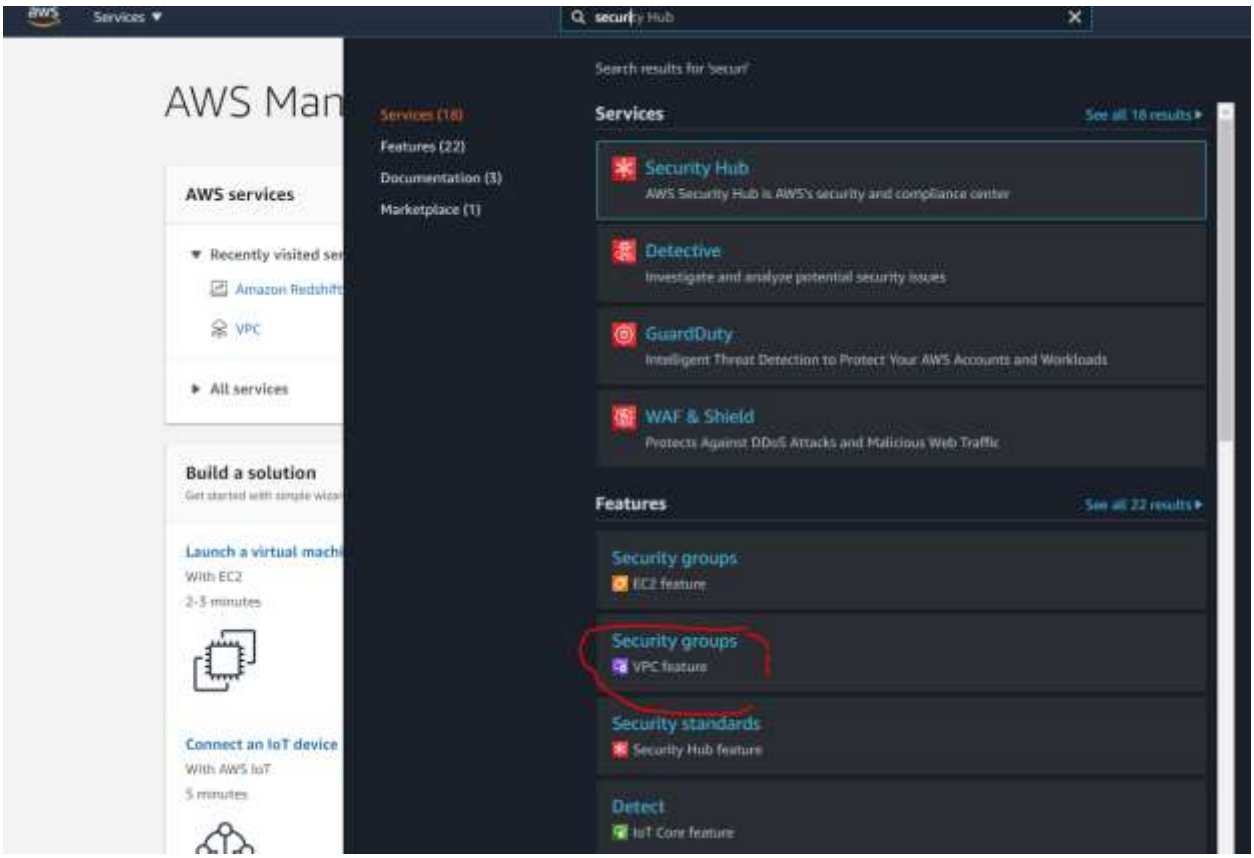
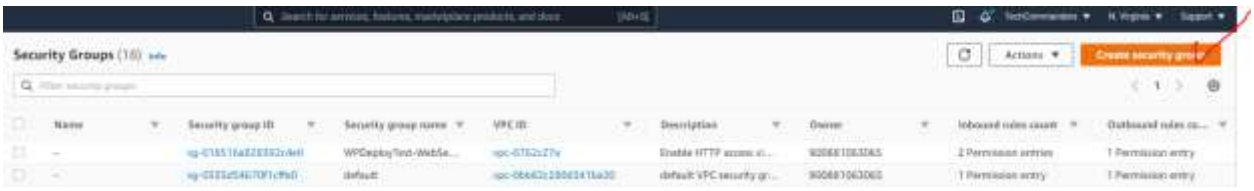
HOE 3 - Setup and Use SQL Workbench to Access Cluster remotely

Before we can actually access our cluster, we need to set up our Security Group so that we can control access to our Redshift cluster.

Type Security and that should provide security groups. Select the one with the VPC option.



Next we need to select “Create security group”.



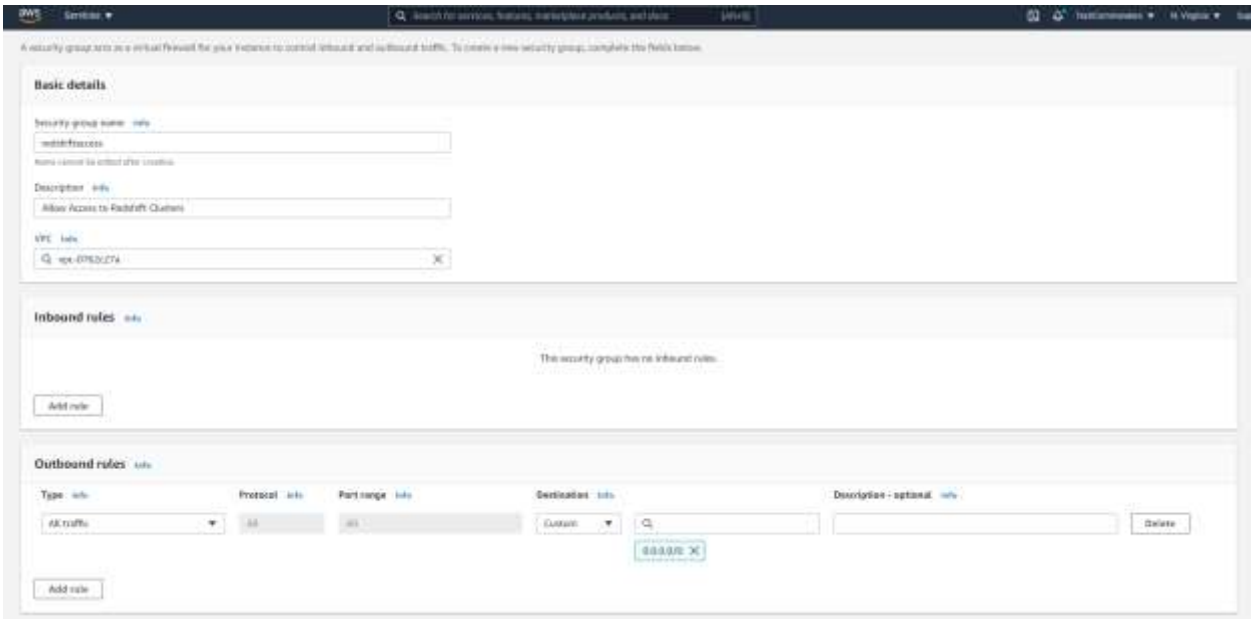
Next we need to enter a name and description. In a production deployment we would also want to create a VPC for our Redshift clusters.

In this case select the VPC which would be default if you have not created any. If you have created a VPC please choose the correct VPC so you don't hold up your access.

Security Group Name – redshiftaccess

Enter Description

VPC – Leave as default.



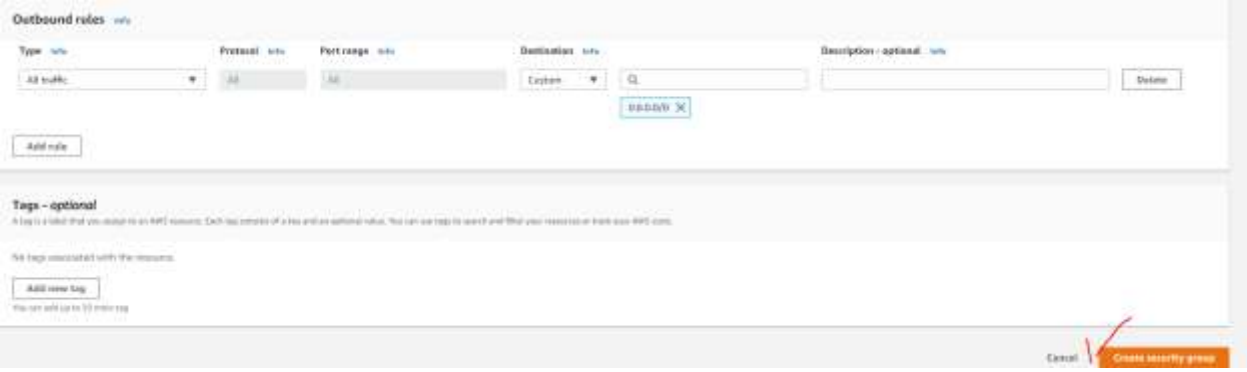
Next select the "Add Rule" in the Inbound rules.

Create a rule for TCP Port 5439 (Which is the port RedShift Uses)

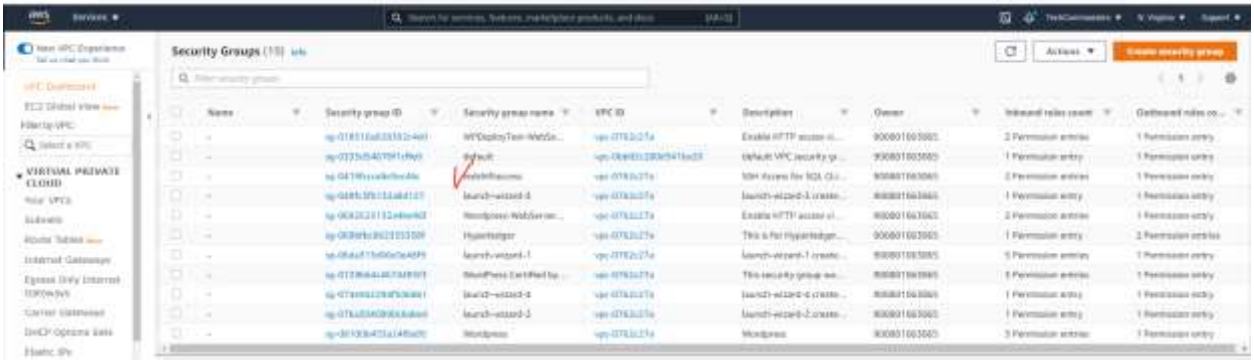
Configure the address as your address by selecting "My IP" and enter a description

Skip over the outbound rules in this case and tags.

Select “Create security group”



Next validate the newly created security group is created.

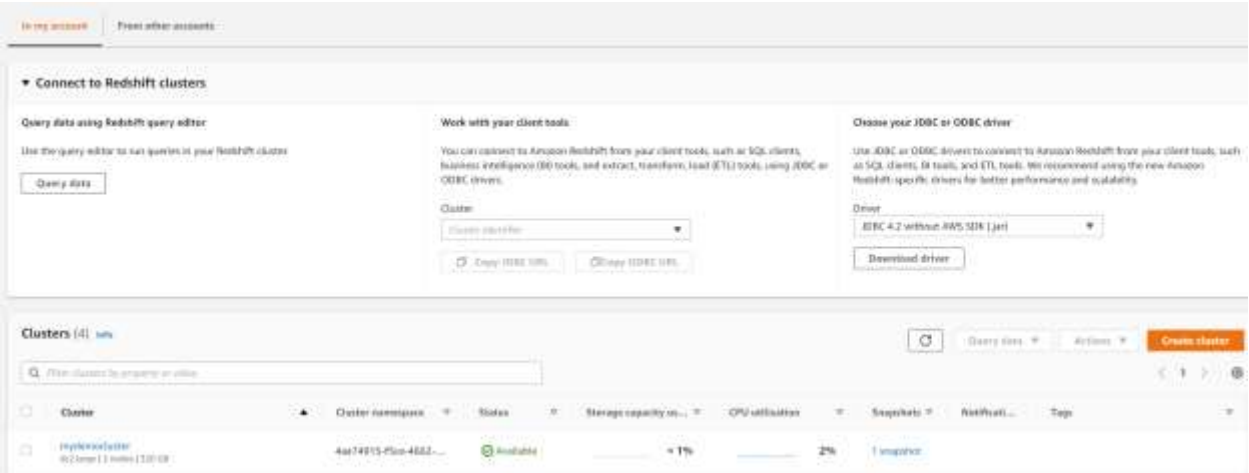


We have created the Security Group with the proper port for Redshift.

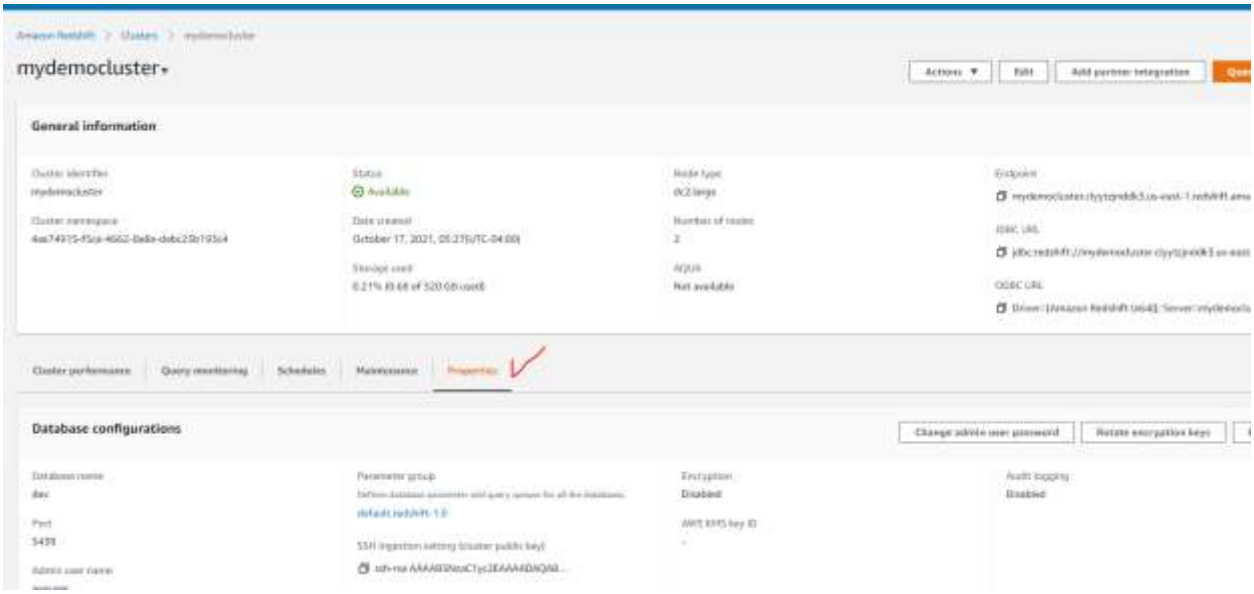
Now we need to go to our cluster and associate the newly created Security Group with the Redshift Cluster before we can access the cluster remotely from SQL Workbench

Go back to the Redshift Cluster Menu

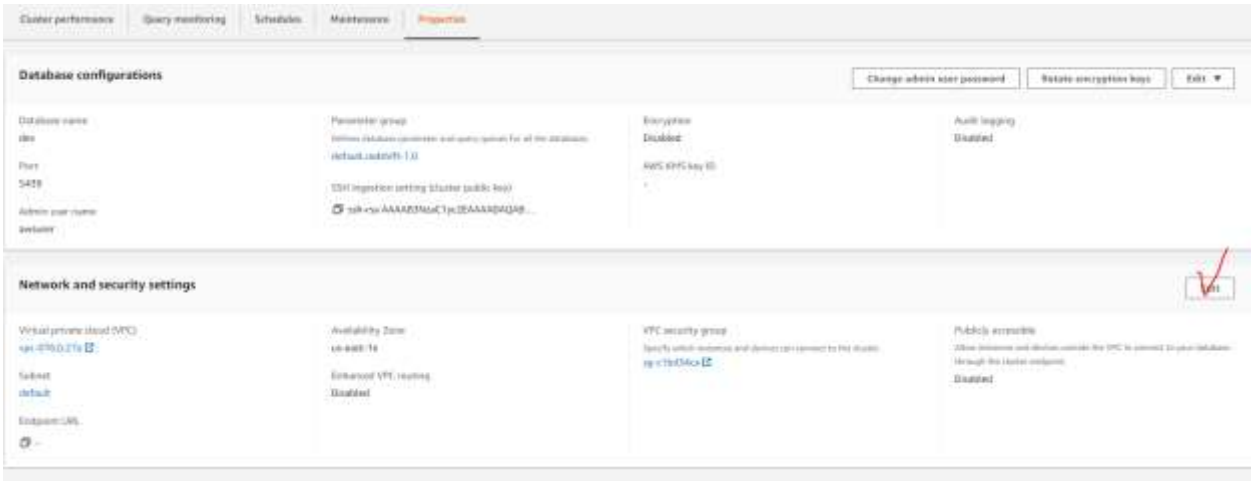
Select the Cluster that you will configure. In this case I am using mydemocluster



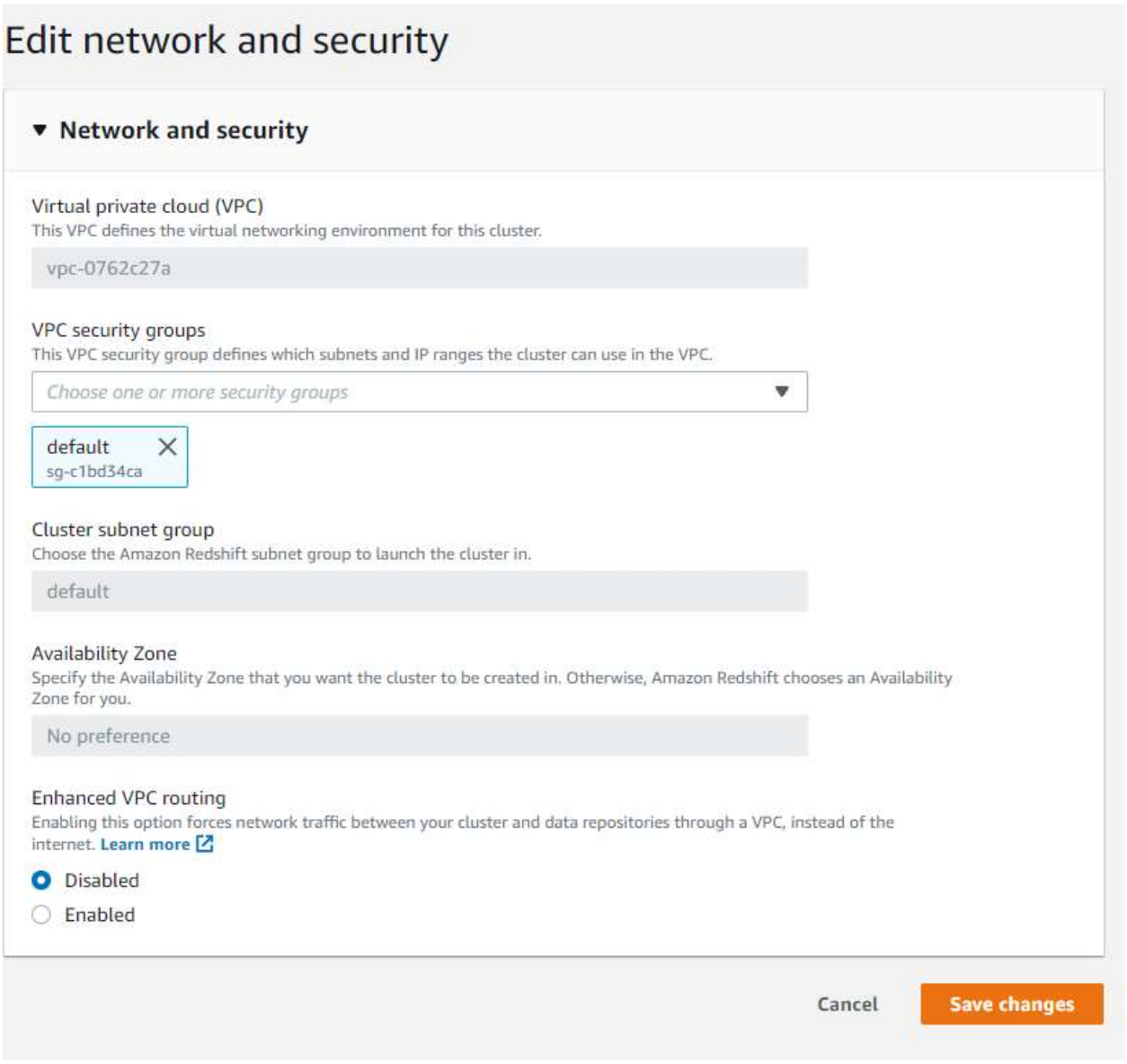
Select Properties



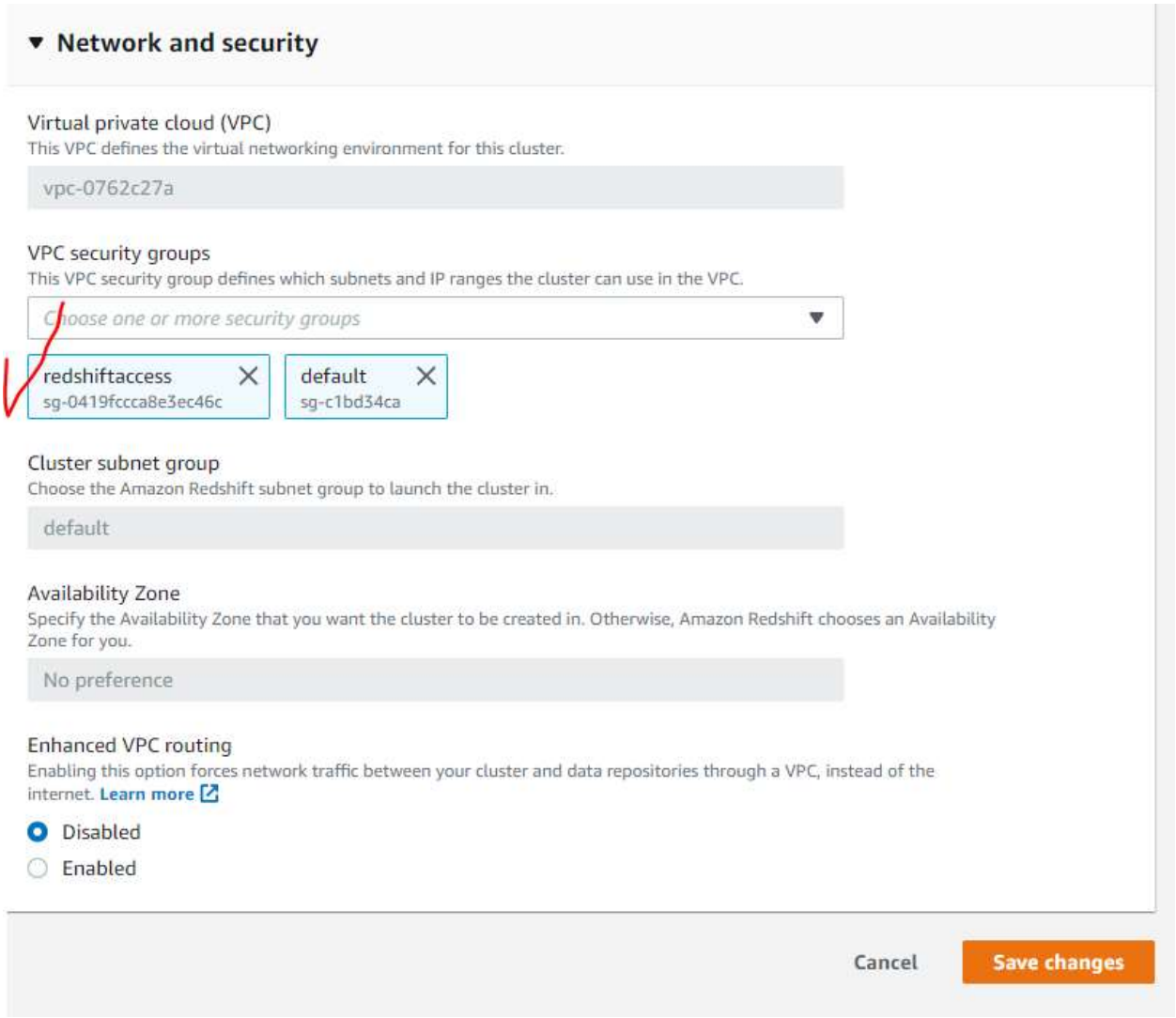
Select Edit



Select the VPC Security Group. (Note that there is default) We will select created security group for redshift.



Select the security group you created earlier.



Note it is a best practice to have you network team assign the appropriate subnets for access especially from on premises. In this scenario we will not focus on additional networking and security since it is out of the scope and time allocation for the course.

Amazon Redshift > Clusters > Edit cluster

Edit cluster mydemocluster

Cluster configuration

Cluster identifier
This is the unique key that identifies a cluster.

mydemocluster

The identifier must be from 1-63 characters. Valid characters are a-z (lowercase only) and - (hyphen).

▼ Backup

Automated snapshots are periodic backups of the cluster.

Snapshot retention
How long do you want to retain your snapshot?

1 day

The retention period must be 0-35 days.

Cluster relocation
Enable the ability to relocate your cluster in another Availability Zone. After you enable relocation, you use the VPC endpoint of the cluster to determine the cluster IP address, instead of the leader node IP address. You can find the VPC endpoint in the Network and security section of the cluster details page. **Learn more**

- (•) No
- ( ) Enable

▶ Network and security

▶ Maintenance