Launching a Redshift Cluster in the AWS Console

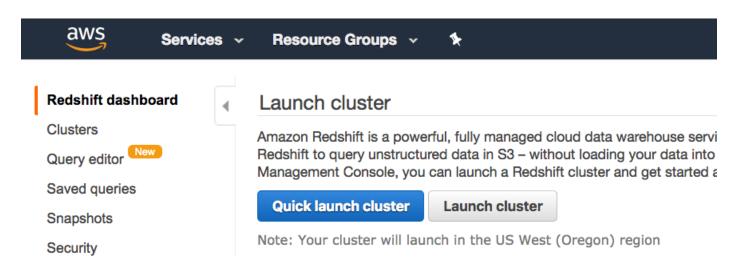
- Follow the instructions below to create a Redshift cluster
- Use the query editor to create a table and insert data
- Delete the cluster

Note: The steps below were introduced in lesson 2. You can use the IAM role and security group created in the last lesson.

Launch a Redshift Cluster

WARNING: The cluster that you are about to launch will be live, and you will be charged the standard Amazon Redshift usage fees for the cluster until you delete it. Make sure to delete your cluster each time you're finished working to avoid large, unexpected costs. Instructions on deleting your cluster are included on the last page. You can always launch a new cluster, so don't leave your Redshift cluster running overnight or throughout the week if you don't need to.

- 1. Sign in to the AWS Management Console and open the Amazon Redshift console at https://console.aws.amazon.com/redshift/.
- 2. On the Amazon Redshift Dashboard, choose Launch cluster.



- 3. On the Cluster details page, enter the following values and then choose Continue:
 - Cluster identifier: Enter redshift-cluster.
 - Database name: Enter | dev |
 - Database port: Enter | 5439
 - Master user name: Enter | awsuser

Cancel

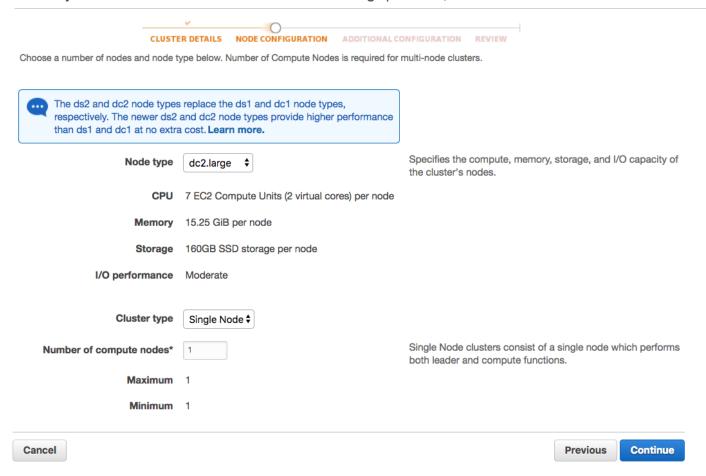
 Master user password and Confirm password: Enter a password for the master user account.

Launch your Amazon Redshift cluster - Advanced settings | Switch to quick launch CLUSTER DETAILS NODE CONFIGURATION ADDITIONAL CONFIGURATION REVIEW Provide the details of your cluster. Fields marked with * are required. This is the unique key that identifies a cluster. This parameter Cluster identifier* redshift-cluster is stored as a lowercase string. (e.g. my-dw-instance) Optional. A default database named dev is created for the Database name dev cluster. Optionally, specify a custom database name (e.g. mydb) to create an additional database. Port number on which the database accepts connections. Database port* 5439 Name of master user for your cluster. (e.g. awsuser) Master user name³ awsuser Password must contain 8 to 64 printable ASCII characters Master user password* excluding: /, ", ', \, and @. It must contain 1 uppercase letter, 1 lowercase letter, and 1 number. Confirm master user password Confirm password*

4. On the Node Configuration page, accept the default values and choose Continue.

Continue

Launch your Amazon Redshift cluster - Advanced settings | Switch to quick launch



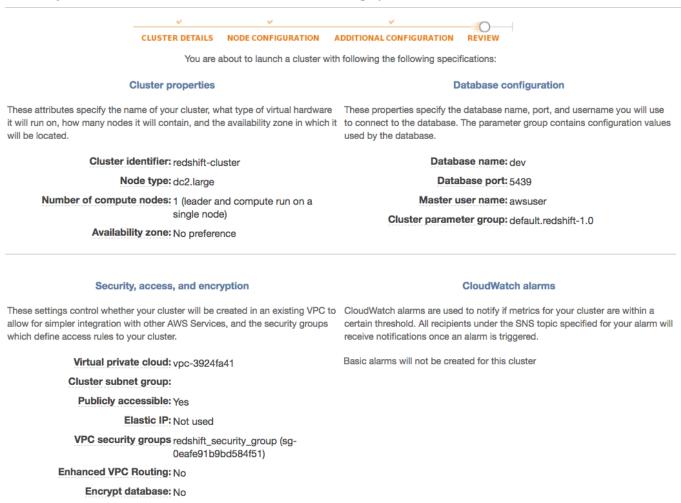
- 5. On the Additional Configuration page, enter the following values:
 - VPC security groups: redshift_security_group
 - Available IAM roles: myRedshiftRole

Choose Continue.

2017	Bublioly accessible	Tes NO Select res if you want the cluster to be accessible from the public internet. Select No if you want it to be			
	Publicly accessible	- 100 - 110	accessible only from within your p	-	
Ci	hoose a public IP address	○ Yes ● No	Select Yes if you want to select your own public IP address from a list of elastic IP (EIP) addresses that are already configured for your cluster's VPC. Select No if you want Amazon Redshift to provide an EIP for you instead.		
	Enhanced VPC Routing	○ Yes No	Select Yes if you want to enable E	nhanced VPC Routing. Learn more	
	Availability zone	No Preference	The EC2 Availability Zone that	the cluster will be created in.	
Associate your cluster with one or more security groups.					
VPC security groups redshift_security_group			/_group (sg-0eafe91b9bd584	f51) List of VPC security groups to asso	ciate with this cluster.
Optionally, create a basic alarm for this cluster.					
(Create CloudWatch Alarm	○ Yes No Cre	eate a CloudWatch alarm to monito	r the disk usage of your cluster.	
Optionally	y, select your maintenance trac	k for this cluster.			
	Maintenance Track	Current	Trailing	Select Current to apply the latest certified features and bug-fixes. Select Trailing to maintenance release.	•
Optionally	y, associate up to 10 IAM roles	with this cluster.			
	Available IAM roles	Choose a role(s)			
		myRedshiftRol arn:aws:iam::6749	e 12980148:role/myRedshiftRole	•	
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6. Review your Cluster configuration and choose Launch cluster.

Launch your Amazon Redshift cluster - Advanced settings | Switch to quick launch

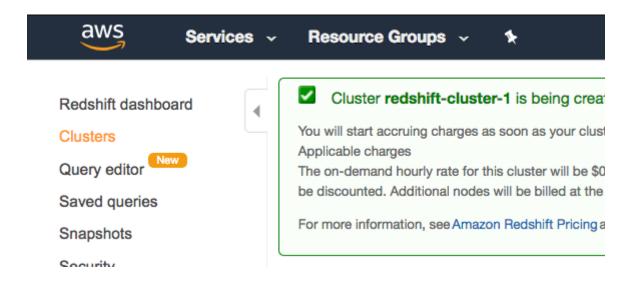


Cancel

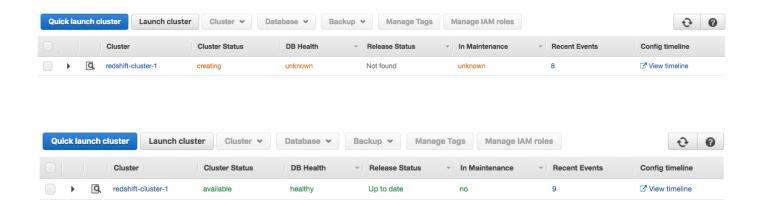
Previous

Launch cluster

7. A confirmation page will appear and the cluster will take a few minutes to finish. Choose **Clusters**in the left navigation pane to return to the list of clusters.



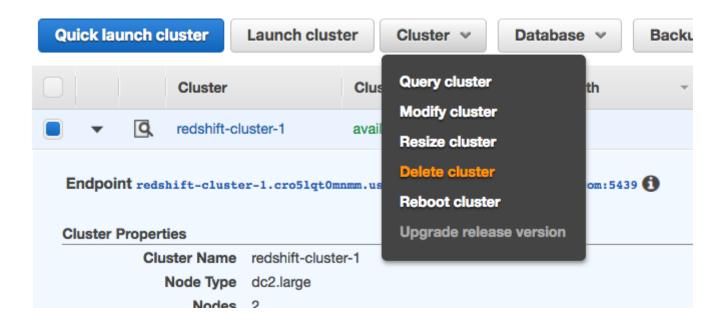
8. On the Clusters page, look at the cluster that you just launched and review the Cluster Statusinformation. Make sure that the Cluster Status is available and the Database **Health** is **healthy**before you try to connect to the database later. You can expect this to take 5-10 minutes.



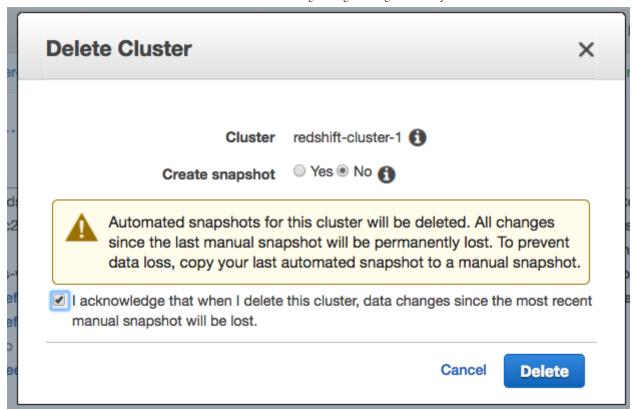
Delete a Redshift Cluster

Make sure to delete your cluster each time you're finished working to avoid large, unexpected costs. You can always launch a new cluster, so don't leave it running overnight or throughout the week if you don't need to.

1. On the Clusters page of your Amazon Redshift console, click on the box next to your cluster to select it, and then click on **Cluster > Delete cluster**.



2. You can choose **No** for **Create snapshot**, check the box that you acknowledge this, and then choose **Delete**.



3. Your cluster will change it's status to **deleting**, and then disappear from your Cluster list once it's finished deleting. You'll no longer be charged for this cluster.

