Connecting to Redshift

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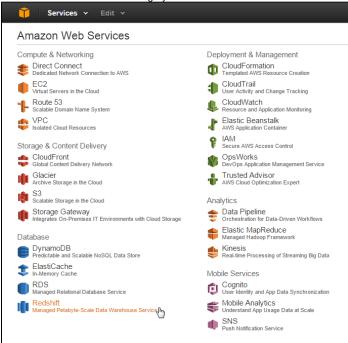
Setup

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Redshift Settings

1. Log in to Amazon Web Services (AWS).

2. Open the Services menu at the top of the page, click on R edshift within the Database category.

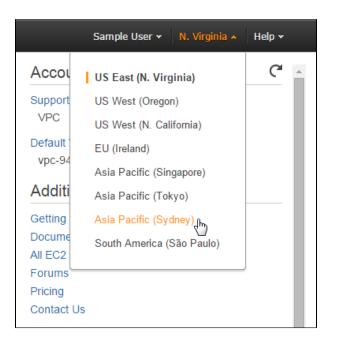


Location

While on the Amazon Redshift page it's important to select the closest location to your users. This will generally result in the fastest response times.

3. Click on the **Location** currently in use next to your name at the top right of the page.

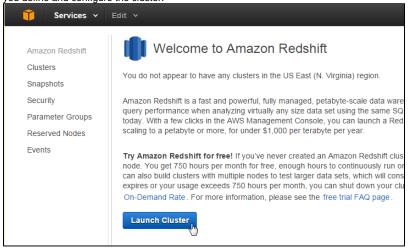
4. Select the location closest to you.



Create Cluster

5. While still on the Amazon Redshift page, click on the Laun ch Cluster button.

From here you will be walked through a setup process where you define and configure the cluster.



Cluster Details

On this step you will need to define the following:

- Cluster Identifier
- Database Name
- Database Port
- Master User Name
- Master Password

Each option is documented on the page.

6. Configure the cluster details and click the Continue button.

mazon Redshift	CLUSTER DET	AILS NODE CONFIGURATION ADDITION	AL CONFIGURATION REVIEW
lusters	Provide the details of your cluster. Fie	lds marked with * are required.	
napshots ecurity	Cluster Identifier*	my-yf-aws-db-instance	This is the unique key that identifies a cluster. This parameter is stored as a lowercase string
arameter Groups			(e.g. my-dw-instance)
eserved Nodes vents	Database Name	yellowfindb	Optional. A default database named dev is created for the cluster. Optionally, specify a custom database name (e.g. mydb) to create additional database.
	Database Port*	5439	Port number on which the database accepts connections.
	Master User Name*	master_user	Name of master user for your cluster. (e.g. awsuser)
	Master User Password*		Password must contain 8 to 64 printable ASC characters excluding, f, *, *, \ and @. It must contain 1 uppercase letter, 1 lowercase letter, and 1 number.
	Confirm Password*		Confirm Master User Password.

Node Configuration Here you will need to define the number and types of nodes. Each option is documented on the page.

7. Define the Type and Number of Nodes. Click Continue.

📕 Services 🗸	Edit 🗸		
Amazon Redshift	CLUSTER DE	TAILS NODE CONFIGURATION ADDITIONAL CONFI	GURATION REVIEW
Clusters	Choose a number of nodes and Nod	e Type below. Number of Compute Nodes is required	for multi-node clusters.
Snapshots			
Security	Node Type	dw2.large 🔻	Specifies the compute, memory, storage, and I/O capacity of the cluster's nodes.
Parameter Groups	CPU	7 EC2 Compute Units (2 virtual cores) per node	
Reserved Nodes	Memory	15 GiB per node	
Events	menory	15 GIB per noue	
	Storage	160GB SSD storage per node	
	I/O Performance	Moderate	
	Cluster Type	Single Node V	
	Number of Compute Nodes*	1	Single Node clusters consist of a single node
	Number of compute floates	1	which performs both leader and compute functions
	Maximum	1	functions.
	Minimum	1	
	Cancel		Previous

Additional Configuration Finally, there are some additional configuration items you can define, depending on the your network and security requirements. Each option is documented on the page.

8. Click the Continue button.

🧊 Services 🗸	Edit 🗸
	V
Amazon Redshift	CLUSTER DETAILS NODE CONFIGURATION ADDITIONAL CONFIGURATION REVIEW
Clusters	Provide the optional additional configuration details below.
Snapshots	Cluster Parameter Group A default parameter group will be associated with this cluster.
Security	
Parameter Groups	Encrypt Database No Select Yes to encrypt all data within the cluster and in backups at a small cost to performance.
Reserved Nodes	Use HSM No Vou have not created any HSM Connections. You must create an HSM Connection to use HSM. You
Events	must also create at least one HSM Client Certificate.
	Configure Networking Options:
	Choose a VPC Default VPC (vpc-94b90bf1) • The identifier of the VPC in which you want to create your cluster
	Cluster Subnet Group default Selected Cluster Subnet Group may limit the choice of Availability Zones
	Publicly Accessible Yes Select Yes if you want the cluster to be accessible from the public internet. Select No if you want it to be accessible only from within your private VPC network
	Choose a Public IP Address 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.
	Availability Zone No Preference The EC2 Availability Zone that the cluster will be created in.
	Optionally, associate your cluster with one or more security groups.
	VPC Security Groups Iaunch-wizard-2 (sg-b4eec + default (sg-162/bC73) List of VPC Security Groups to associate with this cluster. Iaunch-wizard-1 (sg-4eb79 Iaunch-wizard-3 (sg-01182 +
	Optionally, create a basic alarm for this cluster.
	Create CloudWatch Alarm 🔍 Yes 🛞 No Create a CloudWatch alarm to monitor the disk usage of your cluster.
	Cancel Previous Continue

Review & Launch

On the final step you are able to review all the configuration options you've applied in the previous steps.

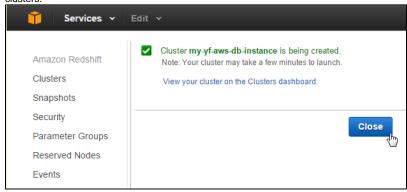
9. Click the Launch Cluster option to finish.

CLUSTER DETAILS NODE CONFIGURATION						
You are about to launch a cluster wit	h following the following specifications:					
Cluster Properties	Database Configuration					
These attributes specify the name of your cluster, what type of virtual hardware it will run on, how many nodes it will contain, and the availability zone in which it will be located.	These properties specify the database name, port, and username you will use to connect to the database. The parameter group contains configuration values used by the database.					
Cluster Identifier: my-yf-aws-db-instance	Database Name: yellowfindb					
Node Type: dw2.large	Database Port: 5439					
Number of Compute Nodes: 1 (leader and compute run on a	Master User Name: master_user					
single node) Availability Zone: No Preference	A default parameter group will be Cluster Parameter Group: created when the cluster is launched.					
Security, Access, and Encryption	CloudWatch Alarms					
These settings control whether your cluster will be created in an existing VPC to allow for simpler integration with other AWS Services, and the security groups which define access rules to your cluster.	CloudWatch alarms are used to notify if metrics for your cluster are within a certain threshold. All recipients under the SNS topic specified for your alarm will receive notifications once an alarm is triggered.					
Virtual Private Cloud: vpc-94b90bf1	Basic alarms will not be created for this cluster.					
Cluster Subnet Group:						
Publicly Accessible: Yes						
Elastic IP: Not used						
VPC Security Groups: sg-b4eec4d1						
Encrypt Database: No						
Use HSM: No						
 Unless you are eligible for the free trial, you will start accruing charges as soon as your cluster is active. Applicable charges: The on-demand hourly rate for this cluster will be \$0.25, or \$0.25/node. If you have purchased reserved nodes in this region for this node type that are active, your costs will be discounted. Additional nodes will be billed at the on-demand rate. If you are eligible for a free trial, you will receive 750 hours of free usage for each month of the trial, applied across all running dw2.large nodes across all regions. Regardless of when you start your trial, you will receive two full months of free usage. Once your trial expires or your usage exceeds 750 hours/month, you can shut down your cluster, avoiding any charges, or keep it running at our standard On-Demand Rate. For more information, see Amazon Redshift Free Trial FAQ, Amazon Redshift Pricing, and Reserved Nodes Documentation. 						
Cancel	Previous Launch Cluster					

View Clusters

You will now be presented with a message informing you that your cluster is being created.

10.	Click the	Close	button	to	return	to	a li	st of	avail	able
clus	sters									



Cluster Name Click on the name of your cluster in order to view its properties.



Cluster Details

Here you will be able to view all the details related to your cluster, including items important for Yellowfin use:

- Custer Name
- End Point
- Port
- Database Name
- Master User NamePublic IP

Make a note of the above values.

Clusters	Cluster: yf			ę
Snapshots				0
Security	Cluster 🛩 Data	base 👻 Backup 👻		
Parameter Groups				
Reserved Nodes	Cluster Properties		Cluster Status	
	Cluster Na		Cluster Status:	available
Events	Cluster T		Database Health: In Maintenance Mode:	healthy no
		ype: dw2.large des: 1	Parameter Group Apply Status:	
		one: ap-southeast-2a	Pending Modified Values:	· · · · · · · · · · · · · · · · · · ·
	Created T		<u>-</u>	
	Cluster Vers	sion: 1.0.829		
	VPC	DID: vpc-63e90206 (View VPCs)		
	Cluster Subnet Gr	oup: default		
	VPC Security Gro			
	Cluster Parameter Gr	(active) oup: default.redshift-1.0 (in-sync)		
	Cluster Database Pro Endpoint:	yf.ccjapojk5x0n.ap-southeast-	Backup, Audit Logging, and M Automated Snapshot Retention	
		2.redshift.amazonaws.com	Cross-Region Snapshots Er	nabled: No
	Port:		Audit Logging Er	nabled: No
	Publicly Accessible:	Yes	Maintenance W	
	Database Name: Master Username:	yellowfindb	Allow Version Up	ograde: Yes
	Encrypted:	master_user No		
	JDBC URL:			
		instance.ccjapojk5x0n.ap-southeast-		
		<pre>2.redshift.amazonaws.com:5439/yf? tcpKeepAlive=true</pre>		
	ODBC URL:	Driver={PostgreSQL}; Server=my-yf-aws-		
		db-instance.ccjapojk5x0n.ap-southeast-		
		<pre>2.redshift.amazonaws.com; Database=yf; UID=yf;</pre>		
		PWD=insert_your_master_user_password_h		
		ere; Port=5439		

	SSH Ingestie	on Settings		
dw2.large	Cluster Publi	c Key:		
7 EC2 Compute Units (2 virtual cores) per node 15 GiB per node 160GB SSD storage per node Moderate 64-bit	AAAAB3NzaC1yc2EAAAADAQABAAABAQ nuqWSoM2dnNh4FE+5d1WTVJ6coA//v ZsoFW609E8LHDq5G9kUpL0DuHbT3Zu		RodPIuf4XE27P4VYWGCF xIMkBTSq8WVSNE8qhGIP R2CdqUdPLPBTjQf7mkXE iw0GAkpDdk2P4CP+F6F1 TQMxVCIc5k7EtMH9RhPm jdLh50MyI1+0KNpgcA01	
	Node IP Add	resses:	<i>/</i>	
	Node	Public IP	Private IP	
	Shared	54.66.138.222	172.31.22.15	
	7 EC2 Compute Units (2 virtual cores) per node 15 GiB per node 160GB SSD storage per node Moderate	dw2.large Cluster Publit 7 EC2 Compute Units (2 virtual cores) per node ssh-rsa 15 GiB per node ZsoFW609E 160GB SSD storage per node wdQs/mF8UA0 Moderate hdINDq+pda 64-bit Hsfn7NYeX/agir6RimzL Node IP Add Node	7 EC2 Compute Units (2 virtual cores) per node ssh-rsa 15 GiB per node AAAAB3NzaC1yc2EAAADAQABAAABA 160GB SSD storage per node uqWSoM2dnNhFEE+SAUDQ5G9kUpL0buHb132 Moderate dd\WmF8UAODdoodjpfQbkuFQhC5hc 64-bit Hsfn7NYeX/buCyLpeNalkm157Lho agir6RimzLL02xHfLNckD3 Amazon Node IP Addresses:	

Yellowfin

Login 1. Login to your Yellowfin instance.

2. Click on the Administration link in the main navigation bar and select Admin Console.

Dashboard	Create	Browse	Administration		Discussion	Logout
			Ô	Administra	ition	
			p	Admin Con	isole 🖑	
				Configurat	ion	
			0	Content Se	ettings	
			1	Export		
			.	Import		

Add Data Source

3. Expand the Data Sources list in the centre panel of the Admin Console.

4. Click on the Add button to create a new connection.

Data Sources		٨
Connection	Description	
Ski Team	Ski Team is the demonstration and tutorial database.	6 < ×
		Add 👆

Data Source Details

Here you will need to provide a range of information to tell Yellowfin what the connection is, and how to access the database.

5. Define the Data Source Details, Security, and Connectio

n Pool options based on your requirements.

See Understanding Source						
Connection Parameters for more						
information.						

Data Source Details		
Source Name:	Redshift	
Description:	Redshift Connection	
Max Rows Returned:	Unlimited I0000	
Writable:	🔍 Yes 🖲 No	al
Region:	Australia	¥
Time Zone:	Sydney	•
Security		
Access Level:	🖲 🗎 Unsecure 🔍 Ӫ Se	cure
Permissions:	Broadcast Subscribe	
Source Filters:	🔍 Yes 🖲 No	
Primary Connection P	ool Management	
Min Connections:	1	0
Max Connections:	5	1
Refresh Time:	3	hours 🧃
Timeout:	180	seconds (
Use secondary pool:	🔍 Yes 🖲 No	
Availability Availability: OAvaila	ble. The connection to this Da railable!	ata Source was successful. 🚺
	1	
		Save Cancel

Connection Details

6. In order to connection to your Redshift cluster, define the following:

- Connection Method: JDBC
- Authentication: Standard Authentication
- Database: Amazon Redshift
- Include schema in SQL: (ticked)
- Host: this is the Public IP or Endpoint information (either can be used, depending on the security settings you applied) found on your Cluster Details Port: this is the Port found on your Cluster Details
- page earlier.
- Database: this is the Database Name found on your Cluster Details page earlier.
- User Name: this is the Master User Name found on your Cluster Details page earlier.
- Password: this is the password you entered while • configuring your cluster earlier.
- Schema: None

7. Test the connection and click Save.

Connection		
Connection Method:	JDBC 🗸	
Authentication:	Standard Authentication 🔹	
Database:	Amazon Redshift 🔹	
Include schema in SQL:	 Image: A start of the start of	0
Host:	yf.ccjapojk5x0n.a	0
Port:	5439	0
Database:	yf	0
User Name:	yf	
Password:	•••••	
Schema:	None 🔻	

Ø

Connection Succeeded

Database:	PostgreSQL
Product Version:	8.0.2
Driver:	PostgreSQL Native Driver
Driver Version:	PostgreSQL 9.3 JDBC4 (build 1101)
Database Version:	8.0
Source Name:	Amazon Redshift

Click here to test the connection again.

Database Schema:

No tables found.

You are now ready to add data to your Cluster and build reports.

top