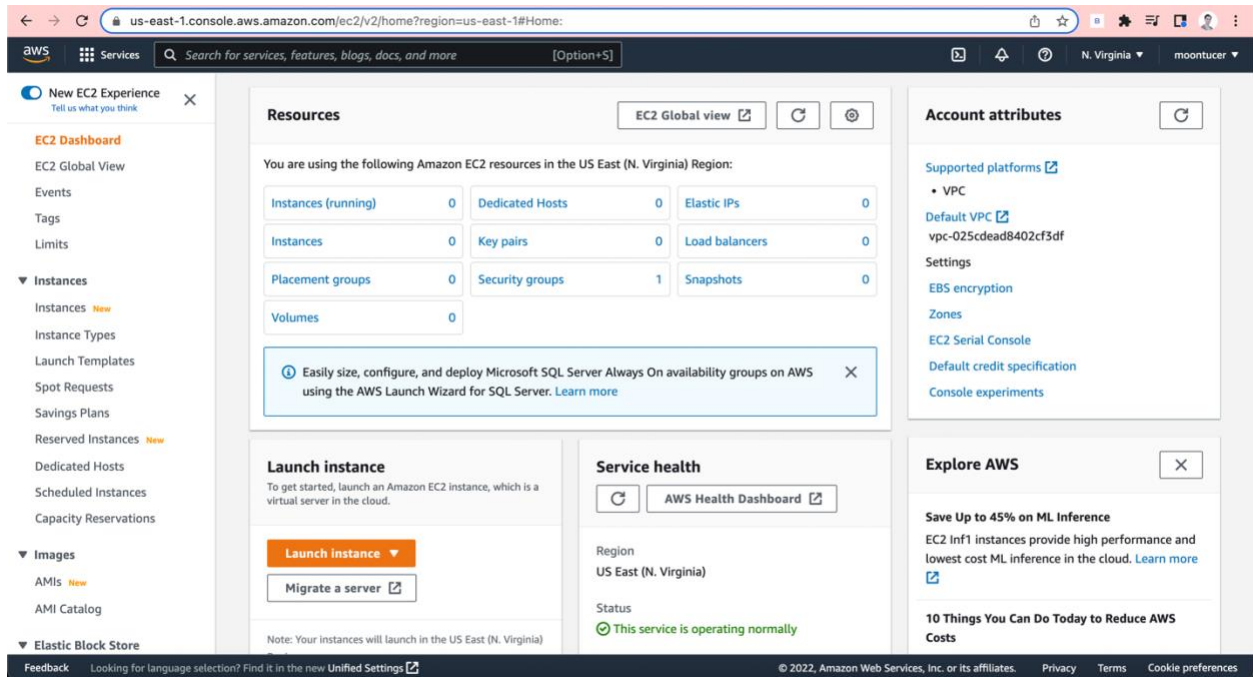
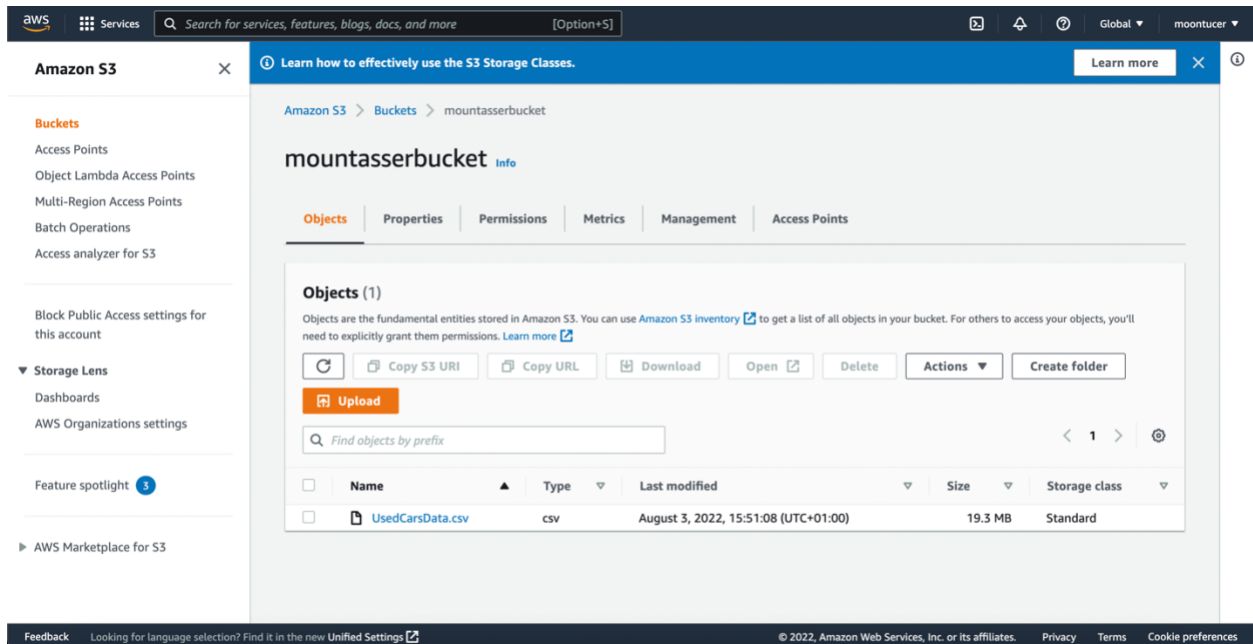


1 - EC2 Dashboard (Account Created)



The screenshot shows the AWS Management Console for the EC2 service in the us-east-1 region. The left sidebar contains navigation links for EC2 Dashboard, Events, Tags, Limits, Instances, Images, and Elastic Block Store. The main content area is divided into several sections: Resources (showing counts for running instances, dedicated hosts, elastic IPs, etc.), Account attributes (showing supported platforms, default VPC, etc.), Launch instance (with a button to launch a new instance), Service health (showing the status of the EC2 service), and Explore AWS (with links to learn more about ML inference and reducing costs). A notification banner at the bottom states: "Easily size, configure, and deploy Microsoft SQL Server Always On availability groups on AWS using the AWS Launch Wizard for SQL Server. Learn more".

2 - S3 Bucket (Data Lake)



The screenshot shows the AWS Management Console for the S3 service, specifically the page for a bucket named "mountasserbucket". The left sidebar contains navigation links for Buckets, Access Points, Object Lambda Access Points, Multi-Region Access Points, Batch Operations, Access analyzer for S3, Storage Lens, Dashboards, AWS Organizations settings, Feature spotlight, and AWS Marketplace for S3. The main content area shows the bucket's details, including a list of objects. The "Objects (1)" section shows a single object named "UsedCarsData.csv" with a size of 19.3 MB and a storage class of Standard. The object was last modified on August 3, 2022, at 15:51:08 (UTC+01:00). The page also includes a search bar for objects and a table with columns for Name, Type, Last modified, Size, and Storage class.

3 - Glue (Crawler Created)

AWS Glue

Crawlers > S3toGlue

[Run crawler](#) [Edit](#)

Name S3toGlue

Description Create a single schema for each S3 path

Security configuration false

Tags -

State Ready

Schedule

Last updated Wed Aug 03 16:33:51 GMT+100 2022

Date created Wed Aug 03 16:33:51 GMT+100 2022

Database carlist

Table level

Service role service-role/AWSGlueServiceRole-carlist

Selected classifiers

Data store S3

Include path s3://mountasserbucket

Connection

Exclude patterns

Configuration options

Schema updates in the data store Update the table definition in the data catalog.

Object deletion in the data store Mark the table as deprecated in the data catalog.

4 - Glue (Database Built)

AWS Glue

[Edit table](#) [Delete table](#) [View properties](#) [Compare versions](#) [Edit schema](#)

Name mountasserbucket

Description

Database carlist

Classification csv

Location s3://mountasserbucket/

Connection

Deprecated No

Last updated Wed Aug 03 20:14:16 GMT+100 2022

Input format org.apache.hadoop.mapred.TextInputFormat

Output format org.apache.hadoop.hive ql.io.HiveIgnoreKeyTextOutputFormat

serde serialization lib org.apache.hadoop.hive.serde2.lazy.LazySimpleSerDe

serde parameters

field.delim ,

skip.header.line.count 1 sizeKey 17590653 objectCount 1 UPDATED_BY_CRAWLER S3toGlue CrawlerSchemaSerializerVersion 1.0

Table properties

recordCount 409271 averageRecordSize 43 CrawlerSchemaDeserializerVersion 1.0 compressionType none columnsOrdered true

areColumnsQuoted false delimiter , typeOfData file

Schema

Showing: 1 - 7 of 7

	Column name	Data type	Partition key	Comment
1	price	bigint		
2	year	bigint		
3	mileage	bigint		
4	city	string		
5	state	string		
6	make	string		

5 - IAM (Role Created)

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Identity and Access Management (IAM)

Dashboard

Access management

- User groups
- Users
- Roles**
- Policies
- Identity providers
- Account settings

Access reports

- Access analyzer
- Archive rules
- Analizers
- Settings

Credential report

Organization activity

Service control policies (SCPs)

Related consoles

IAM Identity Center [New](#)

Introducing the new IAM roles experience
We've redesigned the IAM roles experience to make it easier to use. [Let us know what you think.](#)

toredshift [Delete](#)

Allows Redshift clusters to call AWS services on your behalf.

Summary [Edit](#)

Creation date: August 04, 2022, 09:48 (UTC+01:00) ARN: `arn:aws:iam:995510500413:role/toredshift`

Last activity: None Maximum session duration: 1 hour

Permissions Trust relationships Tags Access Advisor Revoke sessions

Permissions policies (1)
You can attach up to 10 managed policies.

[Filter policies by property or policy name and press enter](#)

<input type="checkbox"/>	Policy name ↗	Type	Description
<input type="checkbox"/>	AmazonRedshiftQueryEditor	AWS managed	Provides full access to the Amazon Redshift Query Editor and to saved queries via the AWS Management Console.

Permissions boundary - (not set)
Set a permissions boundary to control the maximum permissions this role can have. This is not a common setting but can be used to delegate permission management to others.

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6 - Redshift (Data Warehouse)

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Amazon Redshift ML is now generally available. [Learn how Jobcase](#) is using Amazon Redshift ML to improve their users' engagement rate and revenue by 5-10%.

Amazon Redshift > Provisioned clusters dashboard

Provisioned clusters dashboard [Info](#) [Go to Serverless](#) [Purchase reserved nodes](#) [Create cluster](#)

Resources overview
Resource data for US East (N. Virginia) Region.

Total nodes	On-demand nodes	Reserved nodes	Reserved nodes available	Automated snapshots	Manual snapshots
1	1	0	0 (0 of 0 used)	1	0

Cluster overview (1) [Any status](#)

Cluster	Status
redshift-cluster-1	Available

[View all clusters](#)

Cluster metrics [↻](#) [Any clusters](#) [Last hour](#) [View in CloudWatch](#)

[Number of queries](#) Database connections Disk space used CPU utilization

Datashares
Associate other AWS accounts to access datashares created in this AWS account. Associate or decline datashares from other AWS accounts.

Require authorization	Require association
0	0

Alarms (0) [View in CloudWatch](#)

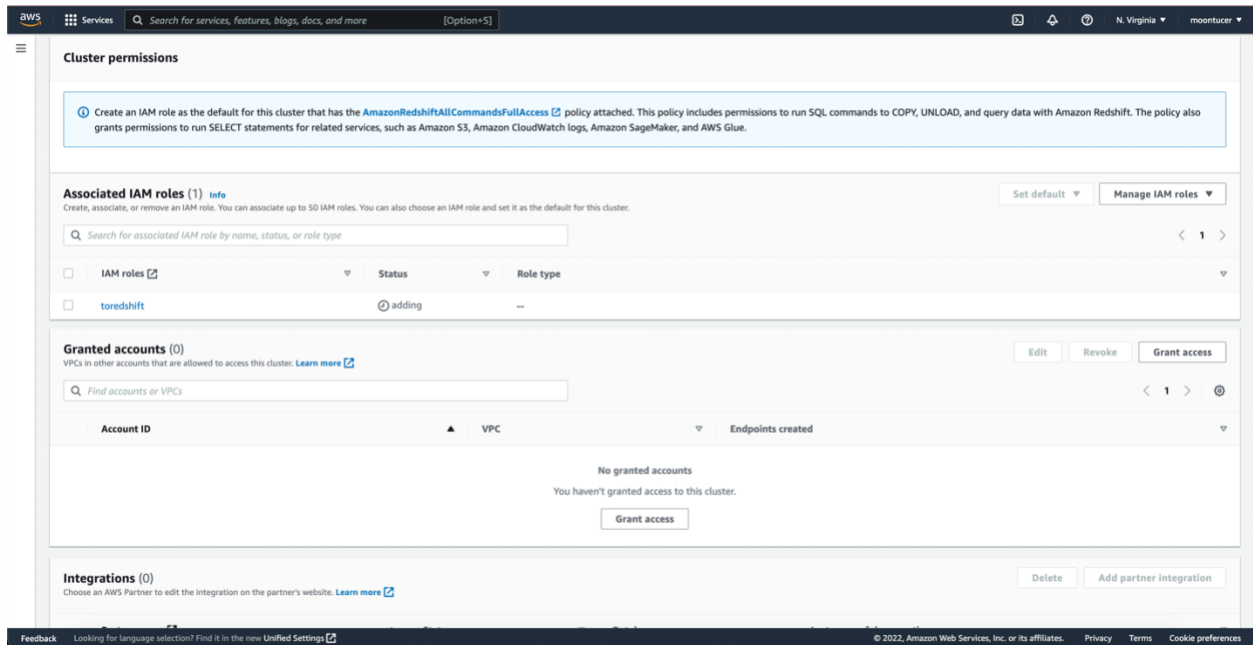
Alarm name

No ongoing alarms

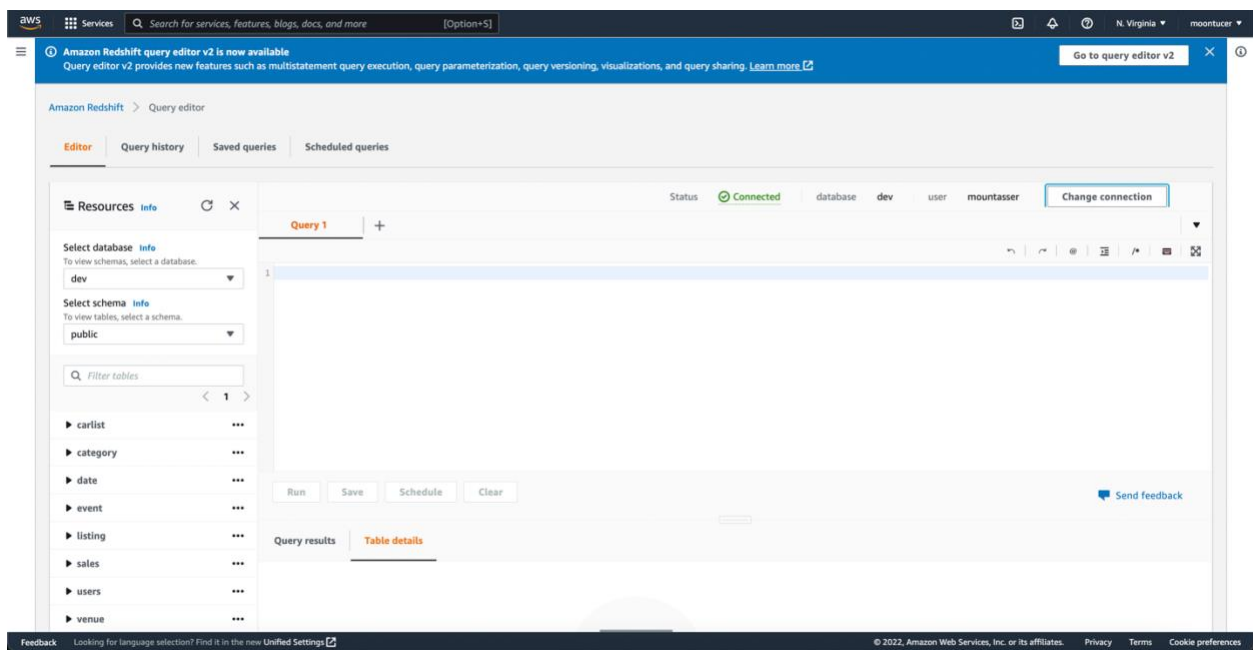
Events (2) [Last 1 week](#)

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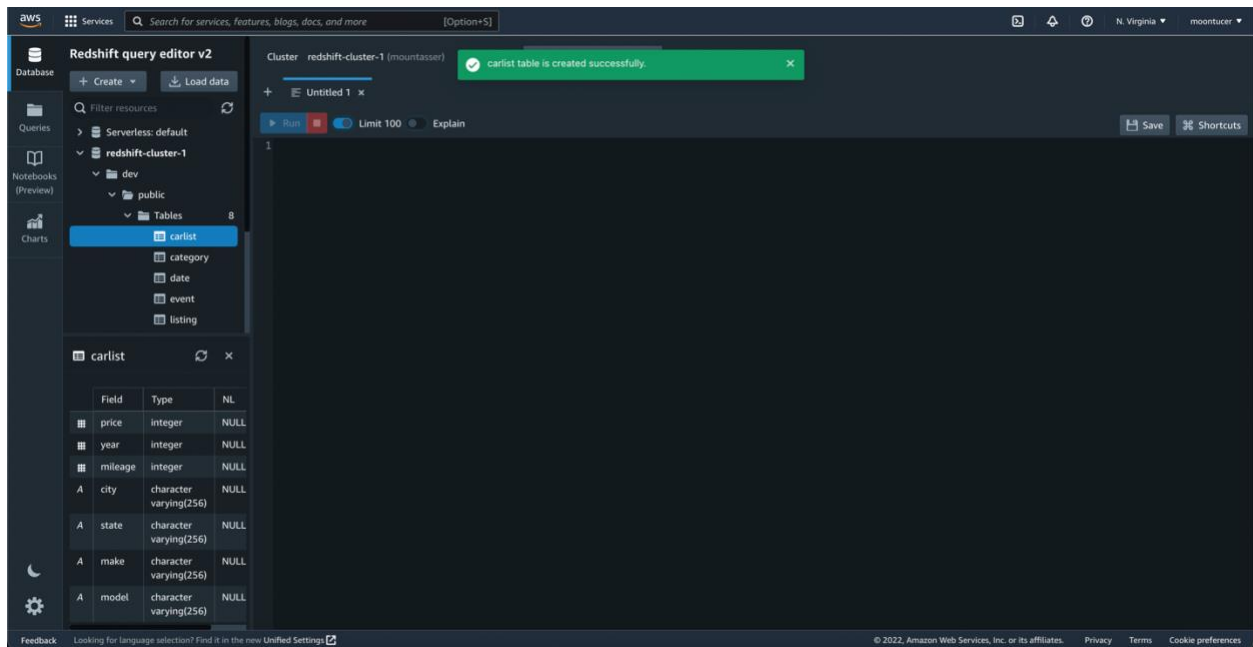
7 - Redshift (IAM Role Associated to Cluster)



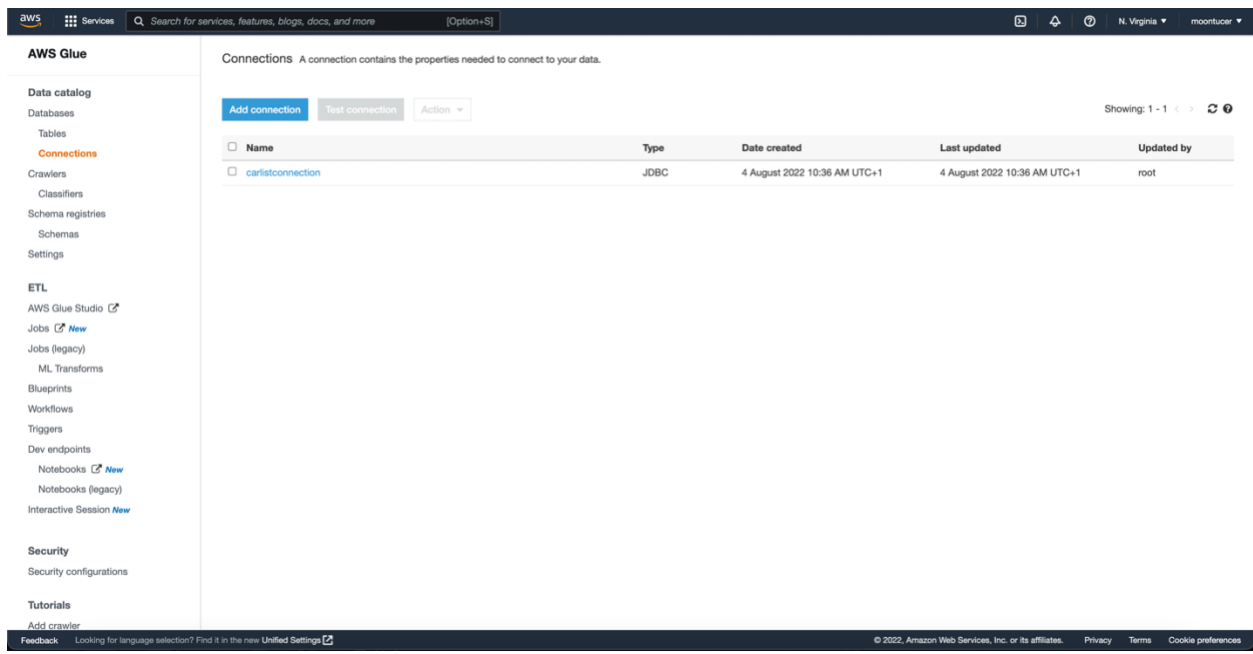
8 - Redshift (Database connected w query editor)



9 - Redshift (Table created w query editor v2)



10 - Glue (Connection added to cluster)



11 - VPC (S3 Endpoint Created)

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New VPC Experience Tell us what you think

VPC dashboard
EC2 Global View **New**
Filter by VPC: Select a VPC

Virtual private cloud

- Your VPCs
- Subnets
- Route tables
- Internet gateways
- Egress-only internet gateways
- Carrier gateways
- DHCP Option Sets
- Elastic IPs
- Managed prefix lists
- Endpoints**
- Endpoint services
- NAT gateways
- Peering connections

Successfully created VPC endpoint
vpce-07d6010607c12e4bf

Endpoints (1/1) Info

Filter endpoints

VPC endpoint ID: vpce-07d6010607c12e4bf Clear filters

<input checked="" type="checkbox"/>	Name	VPC endpoint ID	VPC ID	Service name
<input checked="" type="checkbox"/>	carlists3	vpce-07d6010607c12e4bf	vpce-025cdead8402cf3df	com.amazonaws.us-east-1.s3

vpce-07d6010607c12e4bf / carlists3

Details Route tables Policy Tags

Details

Endpoint ID	Status	Creation time	Endpoint type
-------------	--------	---------------	---------------

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12 - VPC (Security Group Creation w TCP inbound)

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New VPC Experience Tell us what you think

VPC dashboard
EC2 Global View **New**
Filter by VPC: Select a VPC

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- DHCP Option Sets
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- Managed prefix lists
- Endpoints
- Endpoint services
- NAT gateways
- Peering connections

Inbound security group rules successfully modified on security group (sg-0f1cefe937d972e8b | s3storedshift)

Details

VPC > Security Groups > sg-0f1cefe937d972e8b - s3storedshift

sg-0f1cefe937d972e8b - s3storedshift Actions

Details

Security group name	Security group ID	Description	VPC ID
s3storedshift	sg-0f1cefe937d972e8b	s3storedshift	vpce-025cdead8402cf3df
Owner	Inbound rules count	Outbound rules count	
995510500413	2 Permission entries	1 Permission entry	

Inbound rules Outbound rules Tags

You can now check network connectivity with Reachability Analyzer Run Reachability Analyzer

Inbound rules (2) Manage tags Edit inbound rules

Filter security group rules

<input type="checkbox"/>	Name	Security group rule...	IP version	Type	Protocol	Port range	Source	Des
<input type="checkbox"/>	-	sg-0ec782c5d11eea331	-	All TCP	TCP	0 - 65535	sg-0f1cefe937d972e8...	-
<input type="checkbox"/>	-	sg-0a4cca96307d5d43	IPv4	Redshift	TCP	5439	0.0.0.0/0	-

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13 - VPC (NAT Gateway Created)

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New VPC Experience Tell us what you think

VPC dashboard EC2 Global View Filter by VPC: Select a VPC

Virtual private cloud

- Your VPCs
- Subnets
- Route tables
- Internet gateways
- Egress-only internet gateways
- Carrier gateways
- DHCP Option Sets
- Elastic IPs
- Managed prefix lists
- Endpoints
- Endpoint services
- NAT gateways**
- Peering connections

Security

- Network ACLs
- Security groups

Network Analysis

- Reachability Analyzer
- Network Access Analyzer

NAT gateway nat-0f2070b8d455cca95 | carlist was created successfully.

VPC > NAT gateways > nat-0f2070b8d455cca95

nat-0f2070b8d455cca95 / carlist Delete

Details info

NAT gateway ID nat-0f2070b8d455cca95	Connectivity type Public	State Pending	State message -
NAT gateway ARN arn:aws:ec2:us-east-1:995510500413:natgateway/nat-0f2070b8d455cca95	Elastic IP address -	Private IP address 172.31.8.22	Network interface ID eni-0f47d940526382d97
VPC vpc-025cdead8402cf3df	Subnet subnet-005a262ab2eed4f43	Created Thursday, August 4, 2022 at 15:58:37 GMT+1	Deleted -

Monitoring Tags

Monitoring

Packets out to destination (Count) 1 Packets out to source (Count) 1 Bytes out to destination (Bytes) 1

No data available. No data available. No data available.

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14 - Updating NAT Routes

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New VPC Experience Tell us what you think

VPC dashboard EC2 Global View Filter by VPC: Select a VPC

Virtual private cloud

- Your VPCs
- Subnets
- Route tables**
- Internet gateways
- Egress-only internet gateways
- Carrier gateways
- DHCP Option Sets
- Elastic IPs
- Managed prefix lists
- Endpoints
- Endpoint services
- NAT gateways
- Peering connections

Security

- Network ACLs
- Security groups

Network Analysis

- Reachability Analyzer
- Network Access Analyzer

Updated routes for rtb-037a747ab2bd1f7c0 successfully

VPC > Route tables > rtb-037a747ab2bd1f7c0

rtb-037a747ab2bd1f7c0 Actions

You can now check network connectivity with Reachability Analyzer Run Reachability Analyzer

Details info

Route table ID rtb-037a747ab2bd1f7c0	Main Yes	Explicit subnet associations -	Edge associations -
VPC vpc-025cdead8402cf3df	Owner ID 995510500413		

Routes Subnet associations Edge associations Route propagation Tags

Routes (4)

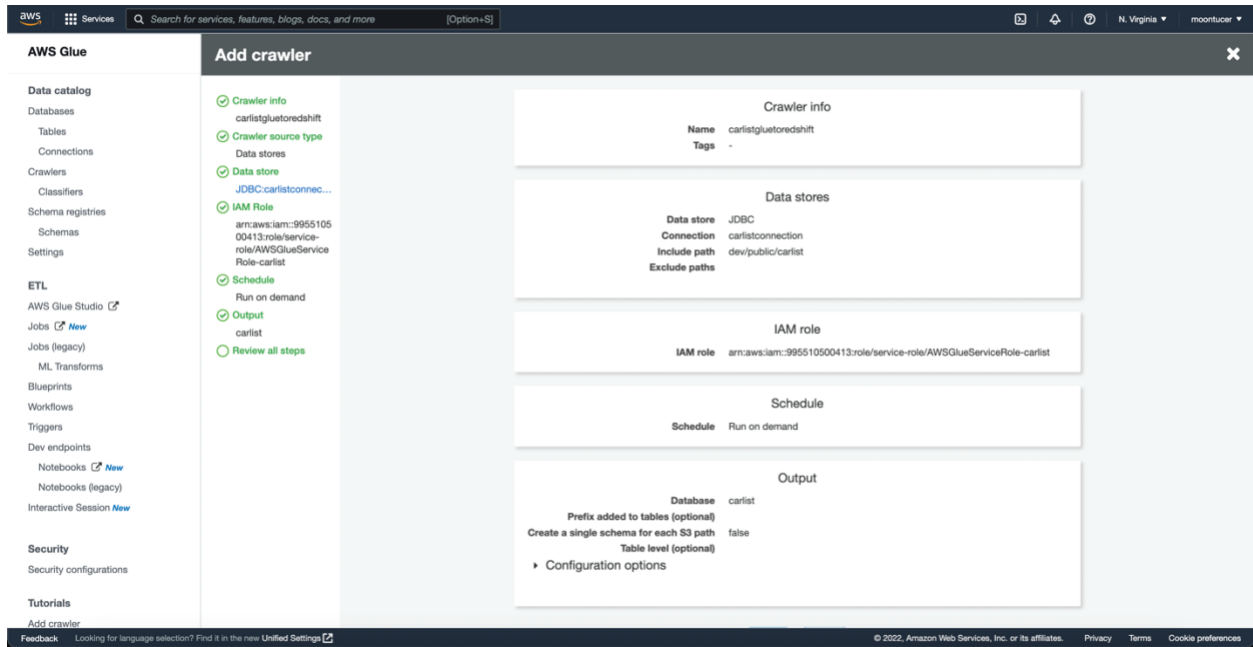
Filter routes Both

Destination	Target	Status	Propagated
pl-63a5400a	vpce-07d6010607c12e4bf	Active	No
0.0.0.0/8	nat-0f2070b8d455cca95	Active	No
0.0.0.0/0	igw-0742791655984317b2	Active	No

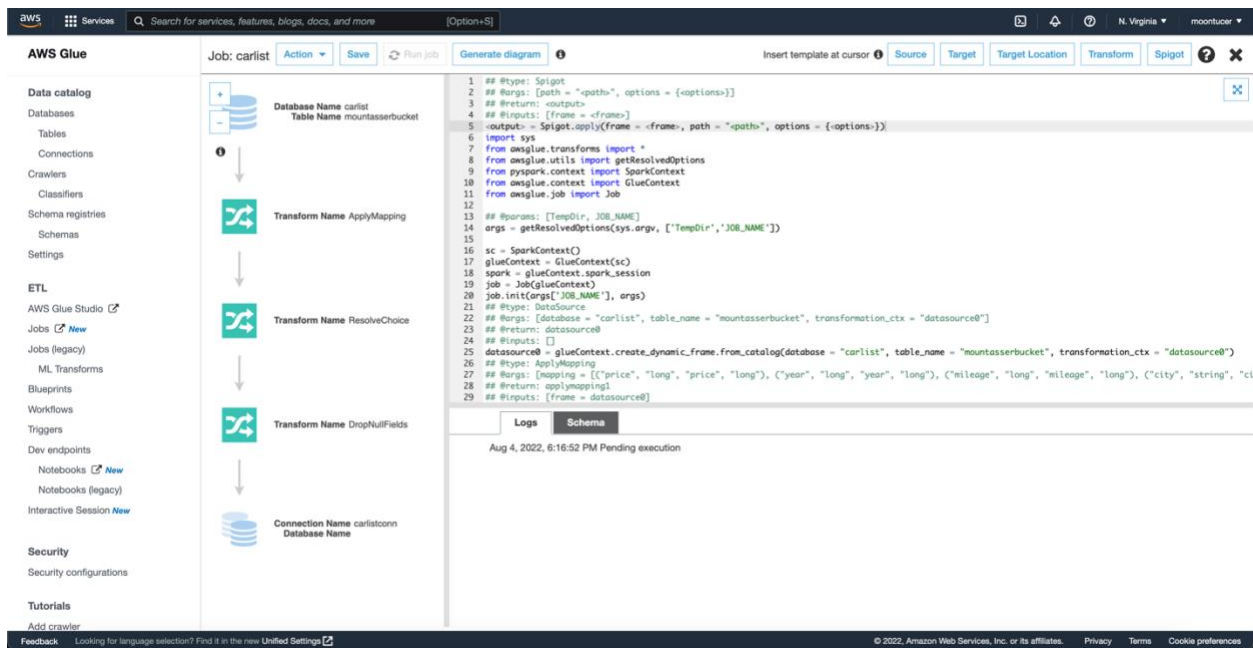
Edit routes

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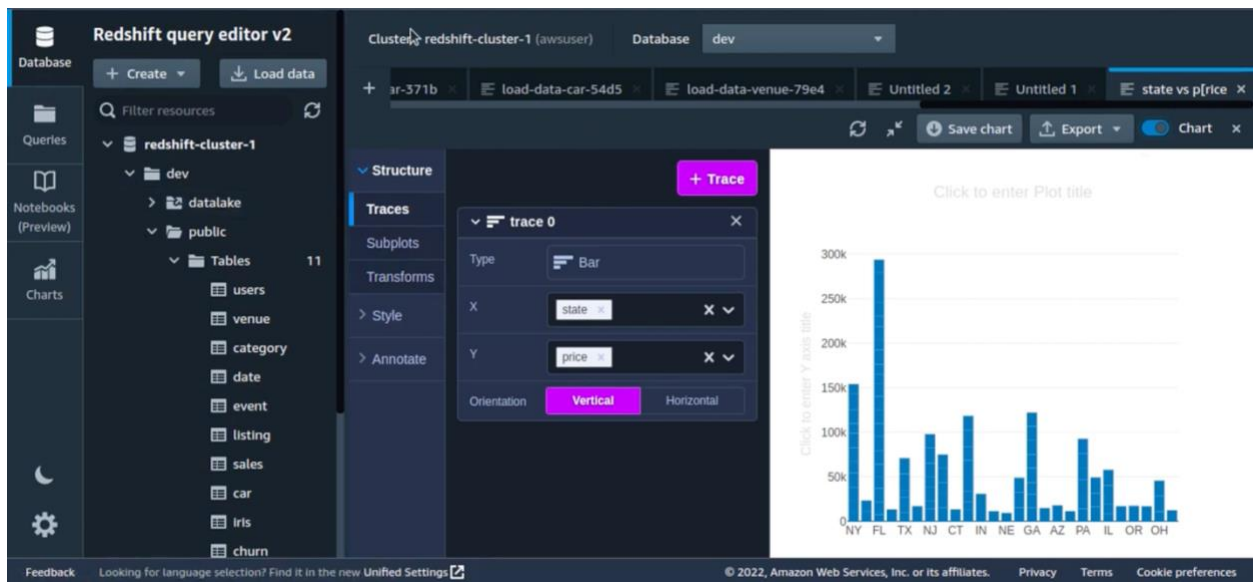
15 - Glue (Crawler to ingest in cluster)



16 - Running ETL Job b4 Analytics

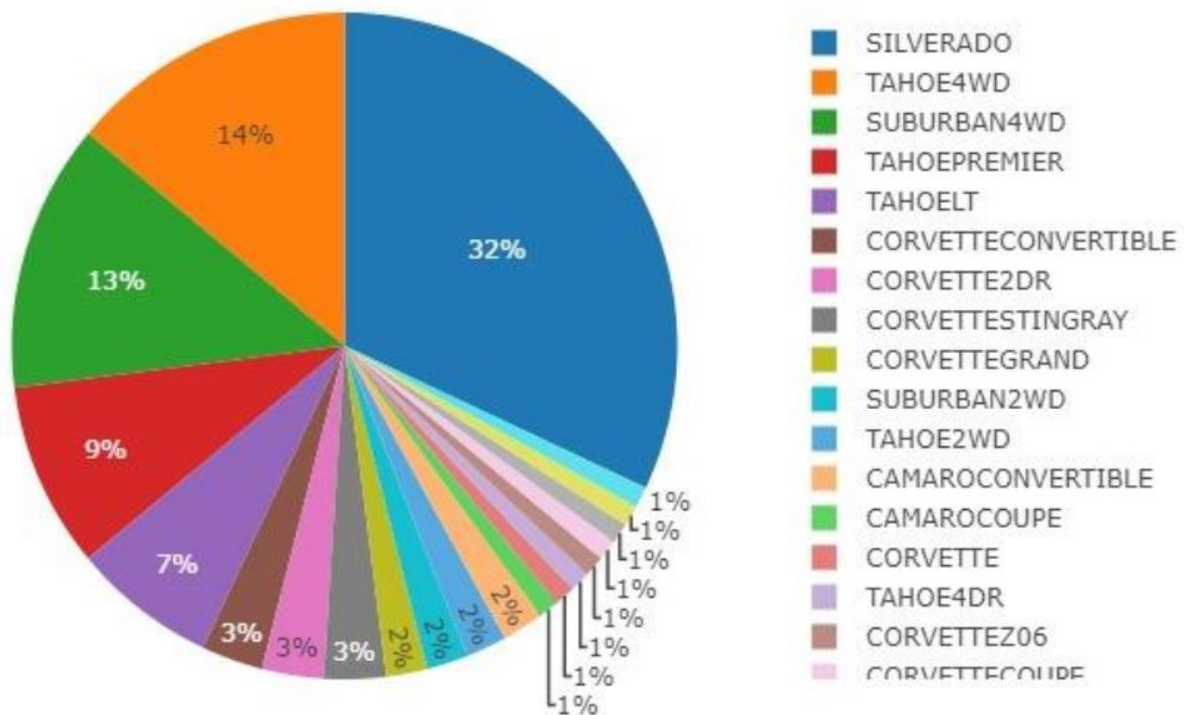


17 - Redshift Analytics 1



18 - Redshift Analytics 2

The most popular car models



19 - Redshift Analytics 3

The Prices of the cars according to the year of manufacturing

