POWERING POTENTIAL

Preparing to migrate to Cloud

SCENARIO

OVERVIEW

in order to migrate on premise databases to the cloud we must prepare the following

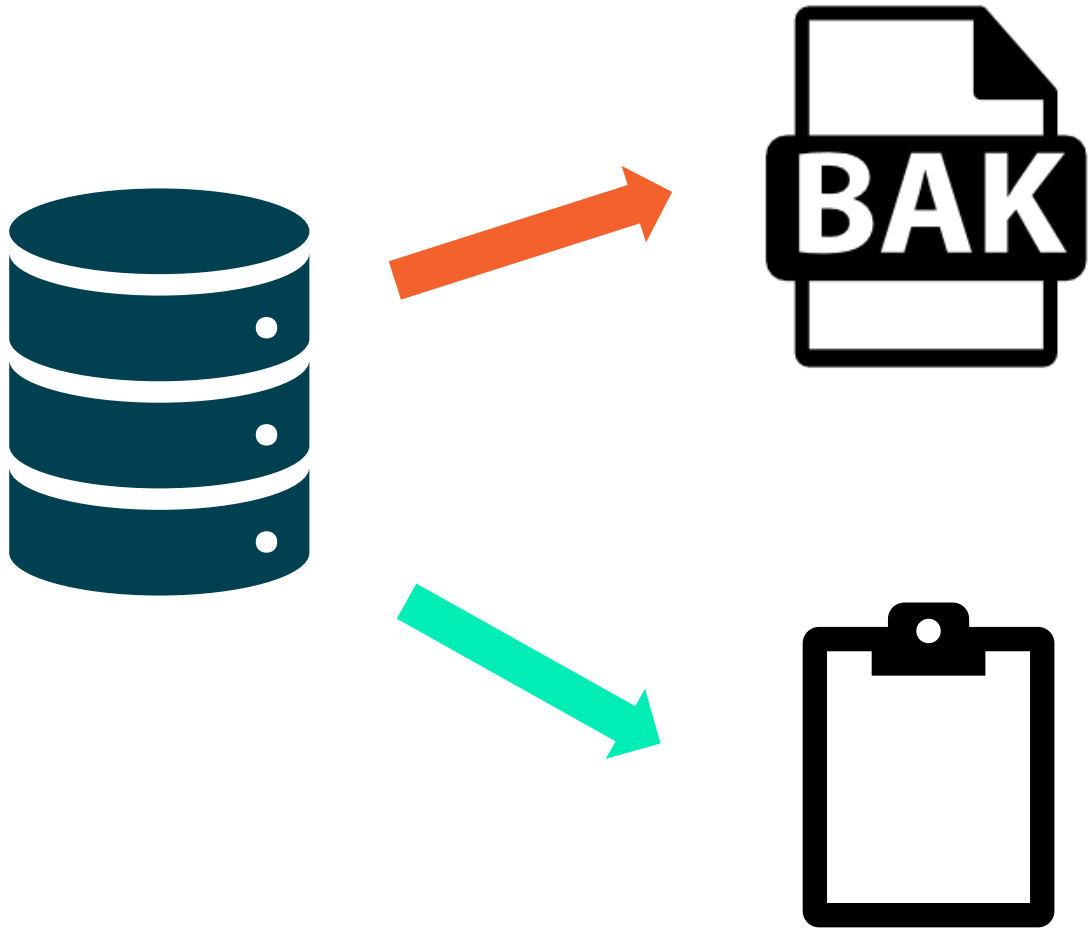
- disconnect live applications
- backup database
- create target server (RDS)
- decide how target server will see backup file (network)
- configure roles in AWS

Control point for AWS :

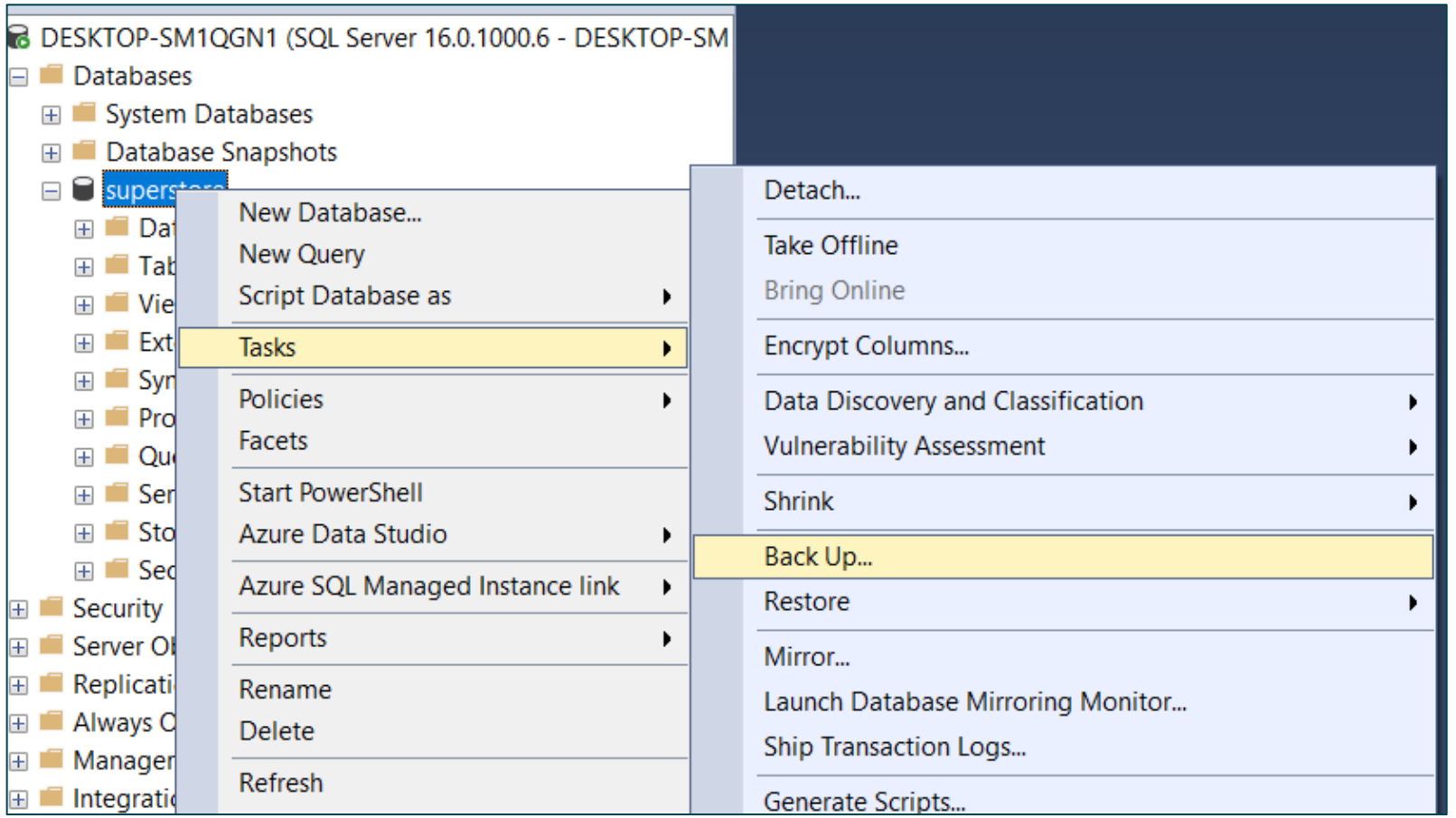
AWS Console or AWS CLI

DATABASE BACKUP

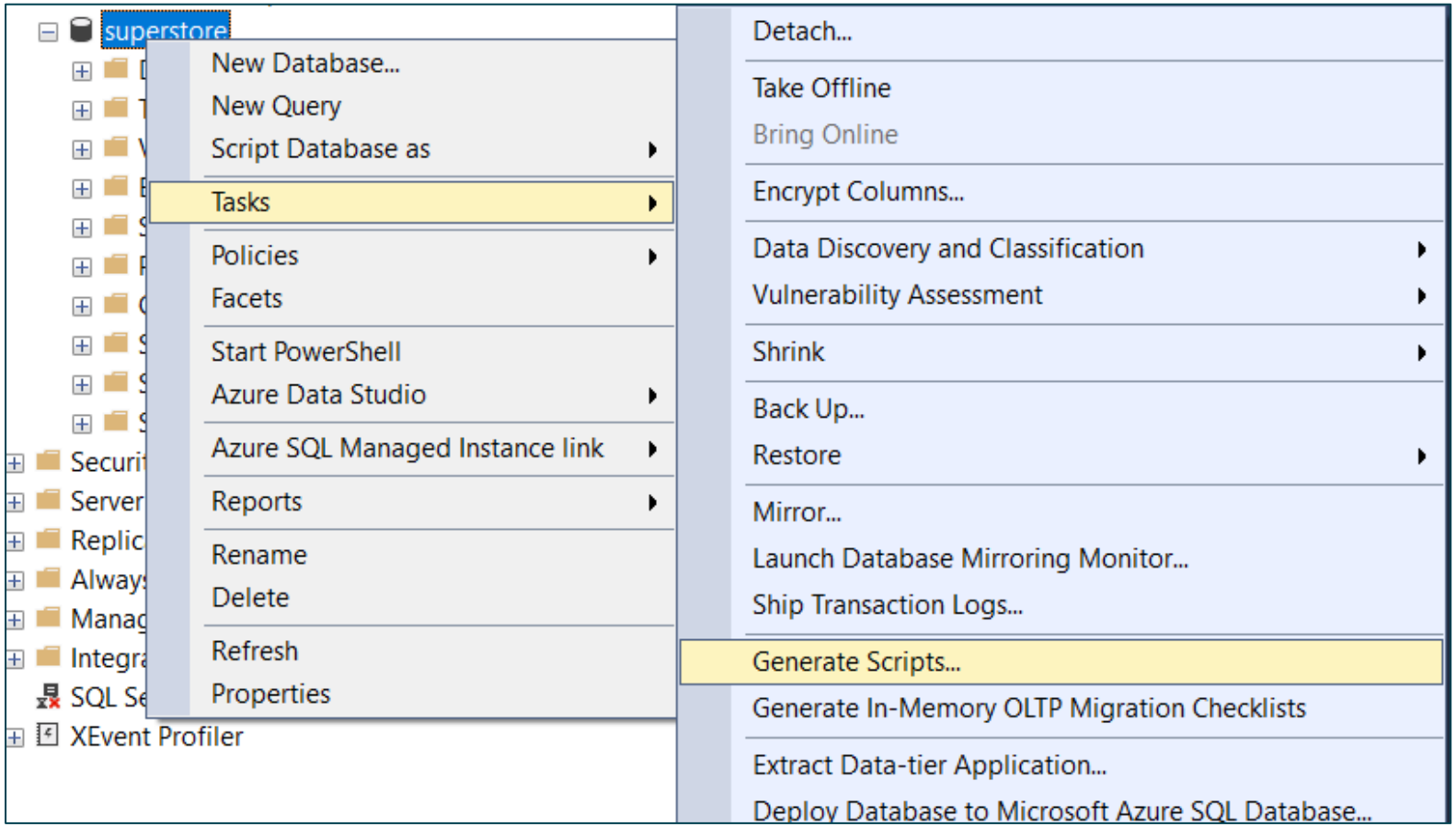
OPTIONS : CREATE COPY OF A DATABASE



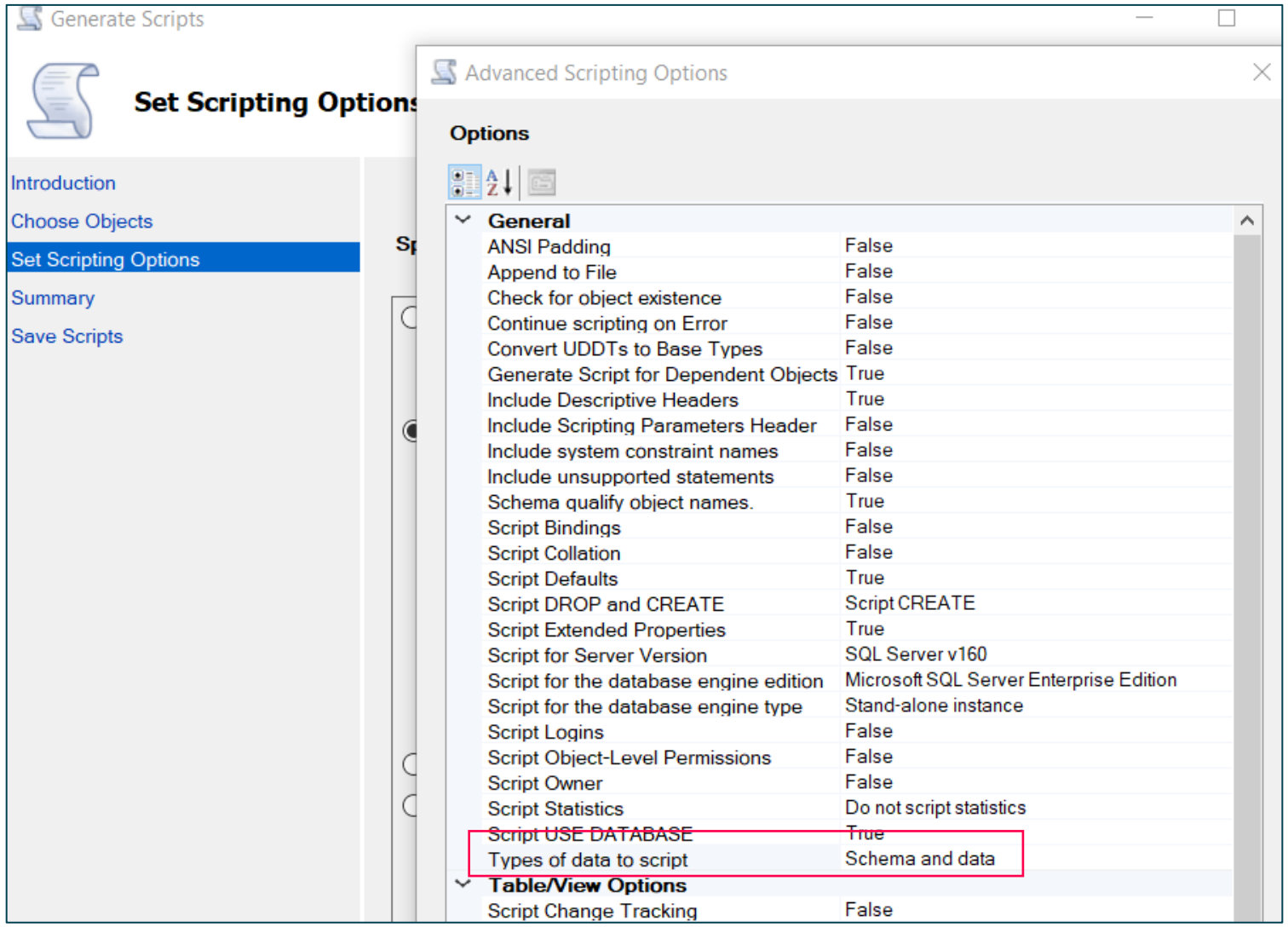
DATABASE .BAK FILE



GENERATE SCRIPT

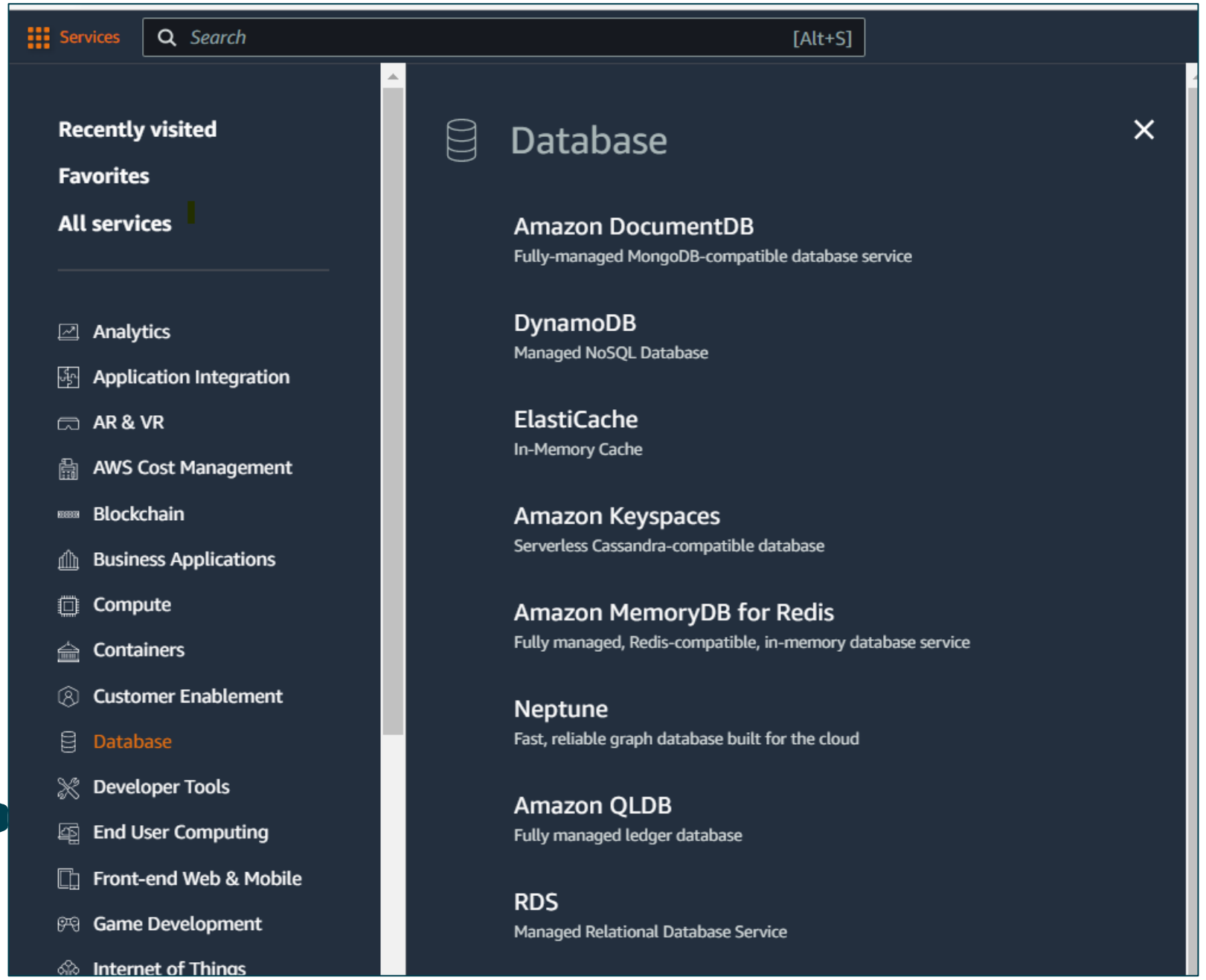


GENERATE SCRIPT (2)



CREATE TARGET SERVER

GO TO RDS SERVICES



CREATE SQL SERVER INSTANCE

Create database

Choose a database creation method Info

- (●) **Standard create**
  You set all of the configuration options, including ones for availability, security, backups, and maintenance.
- ( ) **Easy create**
  Use recommended best-practice configurations. Some configuration options can be changed after the database is created.

Engine options

Engine type Info

- ( ) Amazon Aurora
- ( ) MySQL
- ( ) MariaDB
- ( ) PostgreSQL
- ( ) Oracle
- (●) Microsoft SQL Server

NOTE THE PASSWORD!

ACCESS TO THE BACKUP

OPTIONS : RETRIEVE FILE FROM WHERE?

CREATE S3 BUCKET

Buckets (1) Info

Buckets are containers for data stored in S3. Learn more

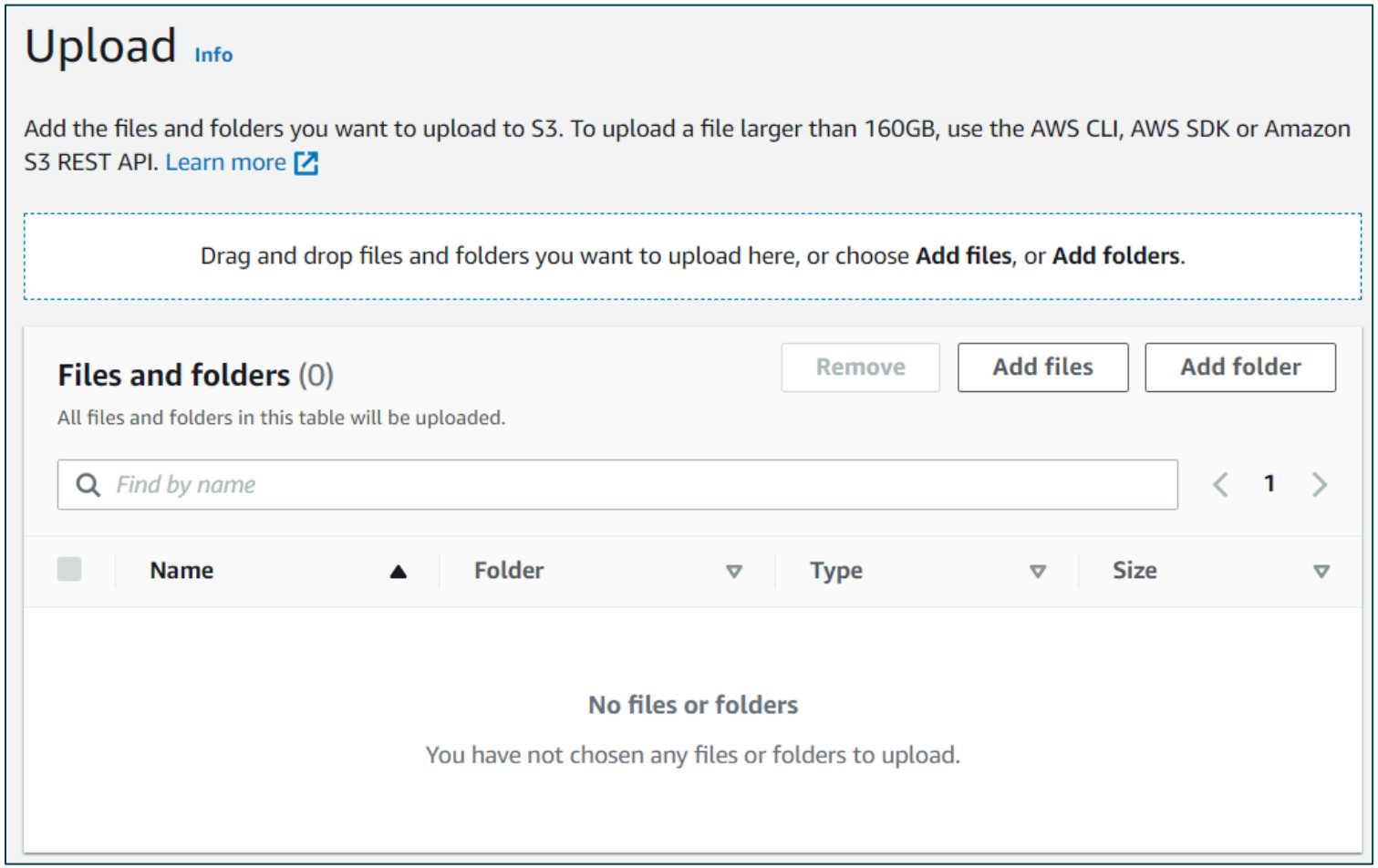
Copy ARN | Empty | Delete | Create bucket

Find buckets by name

1

Name	AWS Region	Access	Creation date
siansbucket	US East (N. Virginia) us-east-1	Bucket and objects not public	January 15, 2023, 16:39:08 (UTC+00:00)

UPLOAD FILE TO S3



RDS PUBLIC ACCESSIBILITY

Network & Security

Virtual Private Cloud (VPC) info
VPC defines the virtual networking environment for this DB instance.

Default VPC (vpc-707bd719)

Only VPCs with a corresponding DB subnet group are listed.

Subnet group info
DB subnet group that defines which subnets and IP ranges the DB instance can use in the VPC you selected.

default

Public accessibility info

- (•) Yes
  EC2 instances and devices outside of the VPC hosting the DB instance will connect to the DB instances. You must also select one or more VPC security groups that specify which EC2 instances and devices can connect to the DB instance.
- ( ) No
  DB instance will not have a public IP address assigned. No EC2 instance or devices outside of the VPC will be able to connect.

Availability zone info

No preference

SSMS TO RDS

Endpoint & port

Endpoint

database-1.cqsbtlqgq9mk.us-east-1.rds.amazonaws.com

Port

1433

Networking

Availability Zone

us-east-1d

VPC

vpc-04908241bbb86740f

Subnet group

default-vpc-04908241bbb86740f

Security

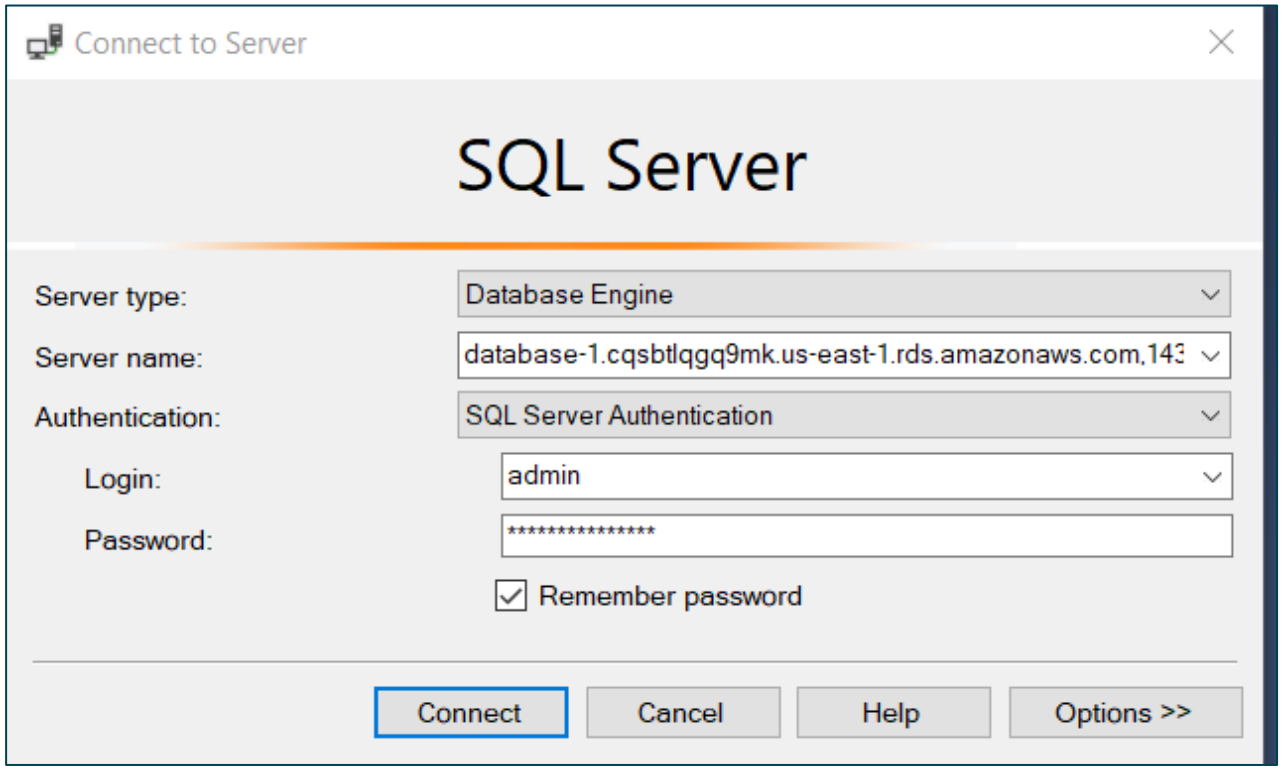
VPC security groups

default (sg-06d00be0d46ee2f92)

Active

Publicly accessible

Yes



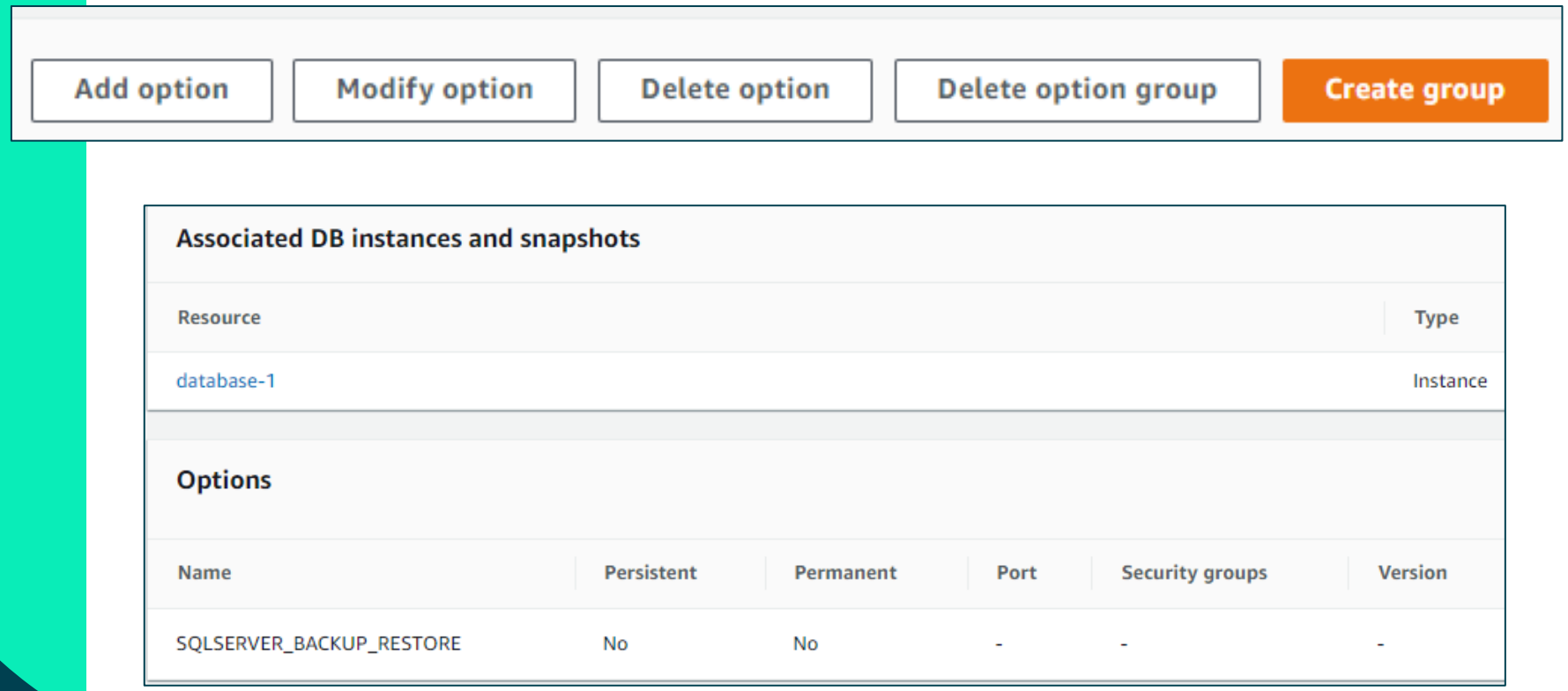
SCENARIO

OVERVIEW

Now we will deploy our SQL database to the Cloud and connect to the database for visualisation

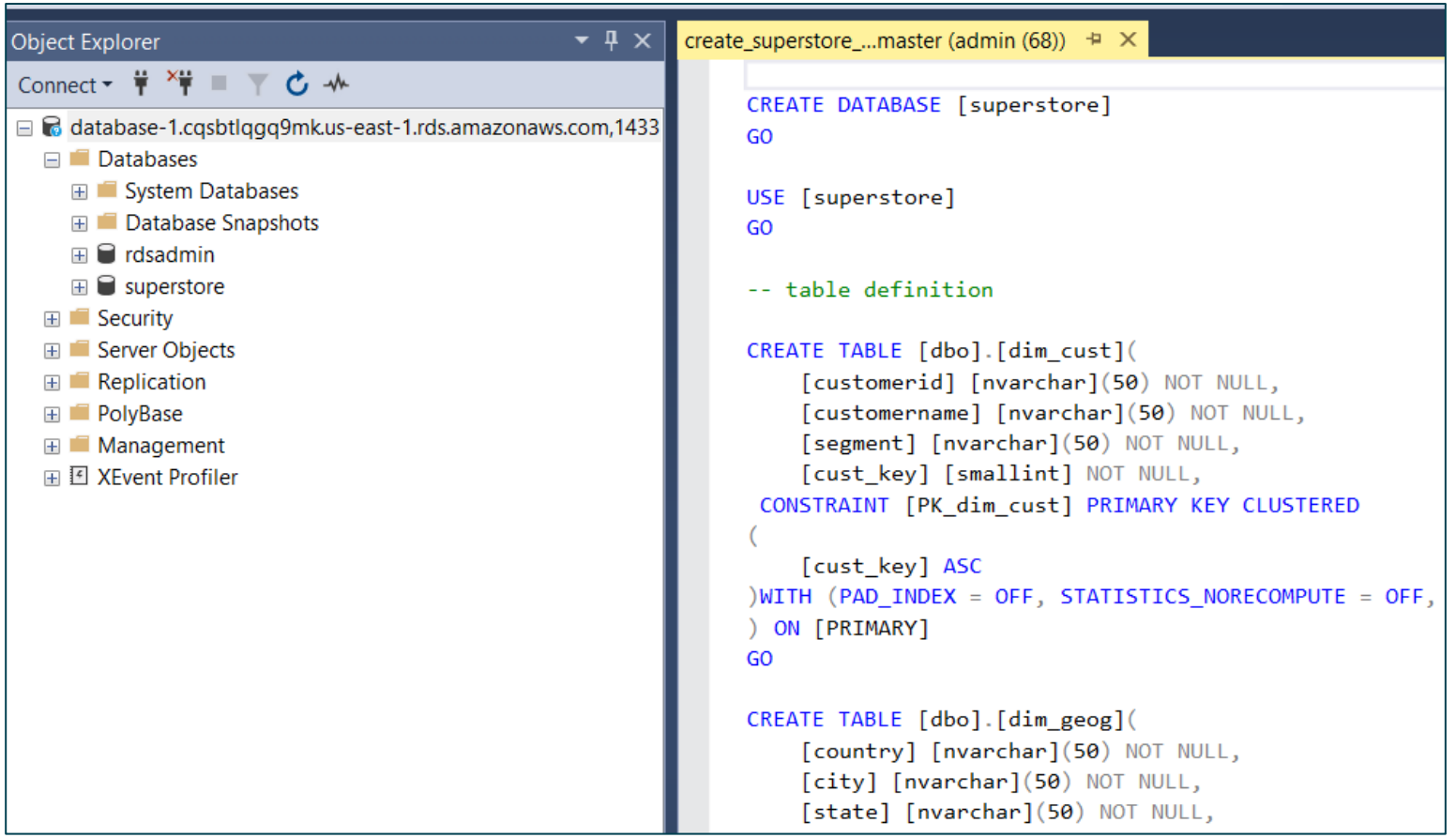
- restore the database
- create a role for quicksight to access RDS
- connect to data to test

CONFIGURE OPTION GROUP

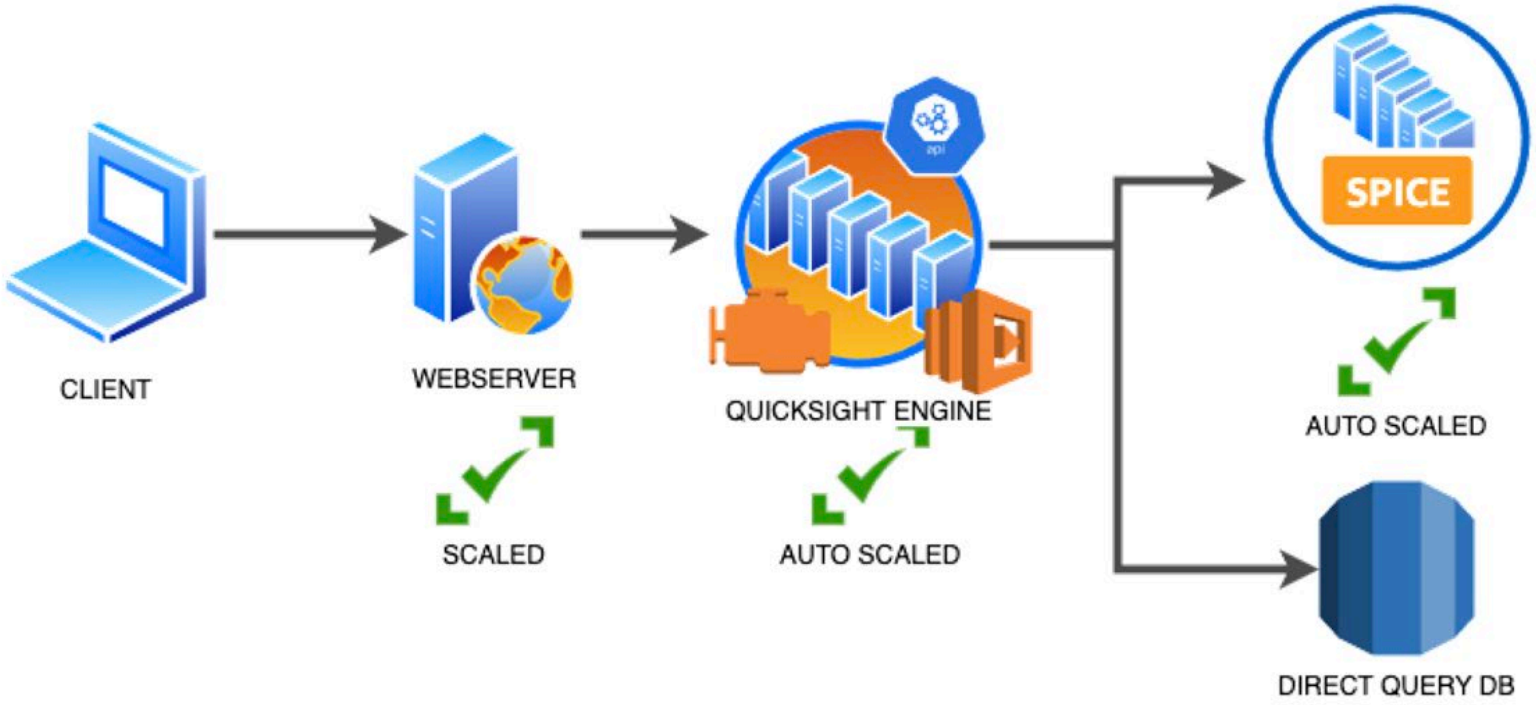


This allows native SQL backup restore option – not needed for a create approach

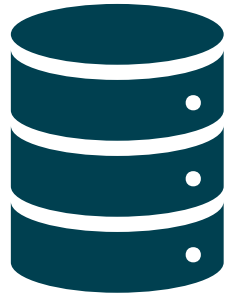
RUN QUERY TO CREATE DB

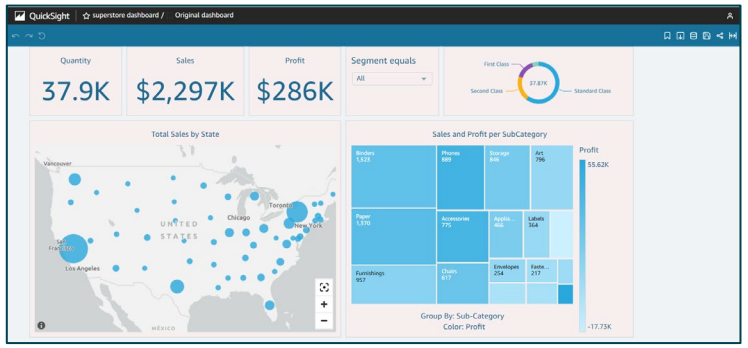


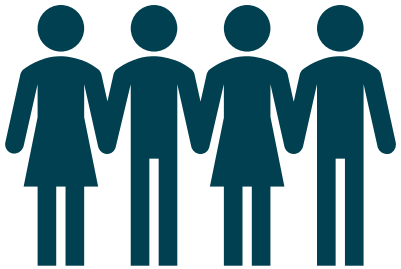
QUICKSIGHT CLOUD DATA ANALYSIS



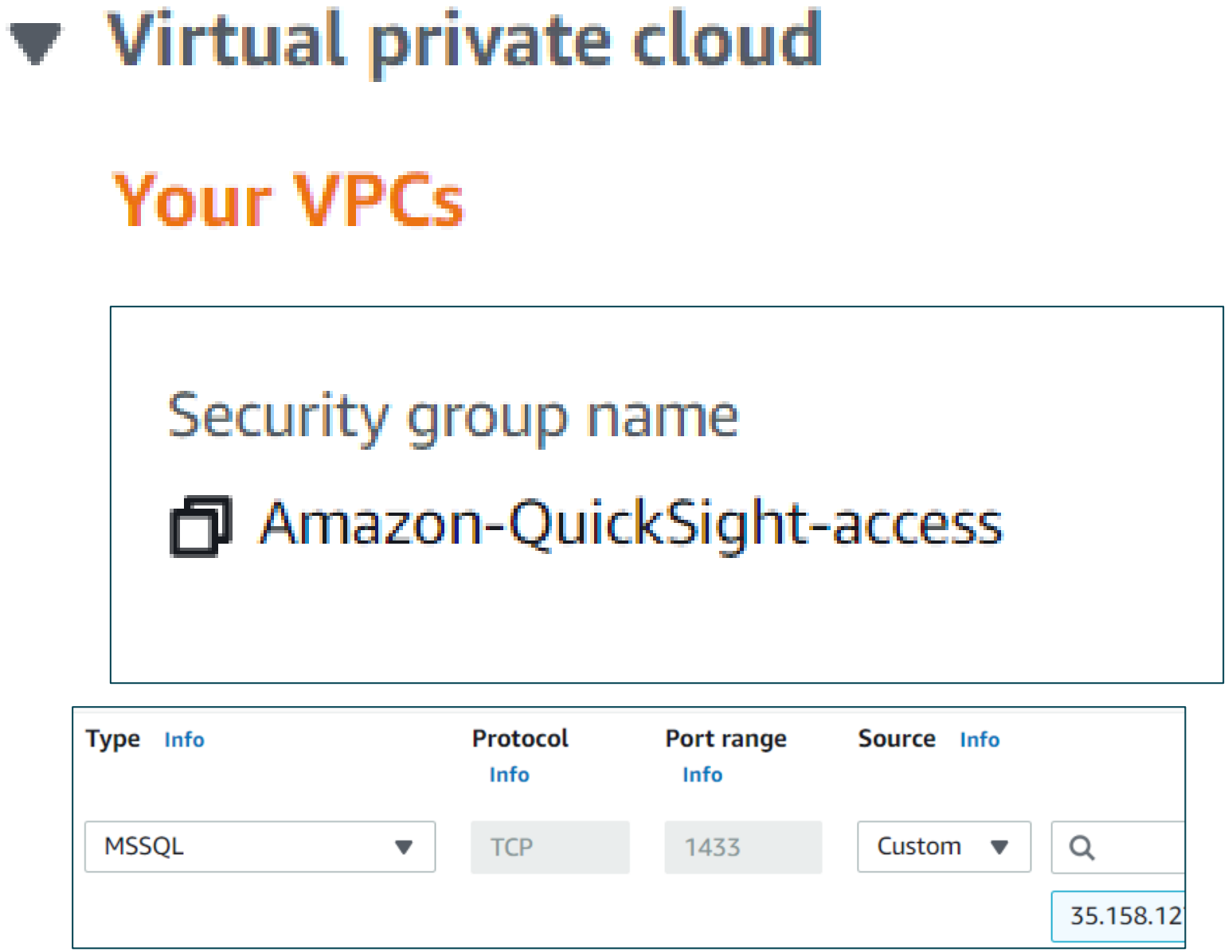
- ✓ DATA
- ✓ ANALYSIS
- ✓ DASHBOARD
- ✓ SHARE







CONFIGURE INBOUND CONNECTION



CONFIGURE INBOUND CONNECTION (2)

Security

VPC security groups

default (sg-06d00be0d46ee2f92)

Active

Amazon-QuickSight-access (sg-0c511d3dac74b00c0)

Active