

In This Video



- Service Introduction
- Overview
- Demonstration
- Use Case



Start Querying Instantly

aws training and certification



- Serverless
- Accesses Amazon S3 (Simple Storage Service)
- 📦 No ETL

1:14 / 10:01

Pay Per Query

aws training and certification



- Only pay for data scanned
- Can further reduce costs
- 📦 Storage based on S3, not EBS

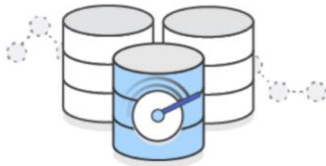
Flexible, Powerful, Scalable



- Built on Presto
- Many formats
- Runs standard SQL
- Highly available and scalable

2:22 / 10:01

Performant



- Interactive performance even for large datasets
- Runs in parallel

Basic Steps



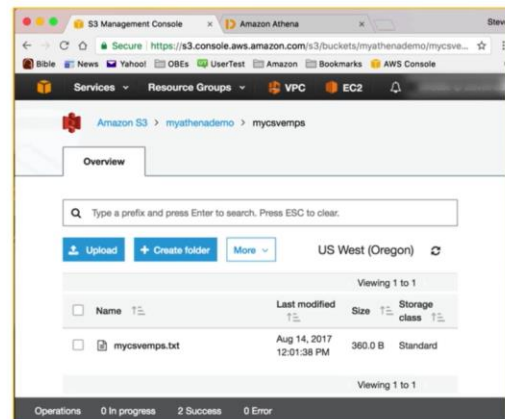
- Create an S3 bucket and object
- Create a metadata database
- Create a schema
- Fine-tune the Serializer/Deserializer (Serde)
- Run the Query
- 📦 Access the History

3:06 / 10:01

Basic Steps: S3



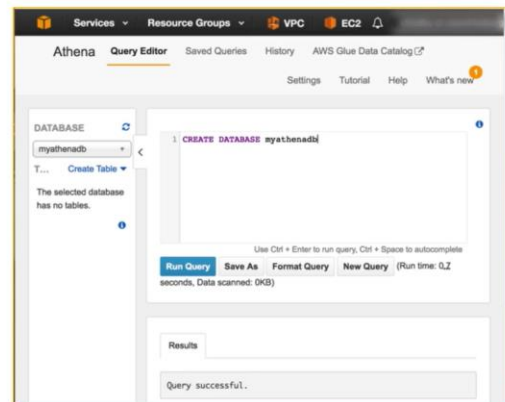
- 📦 Create an S3 bucket and object
- 📦 Create a metadata database
- 📦 Create a schema
- 📦 Fine-tune the Serde
- 📦 Run the Query
- 📦 Access the History



Basic Steps: Database



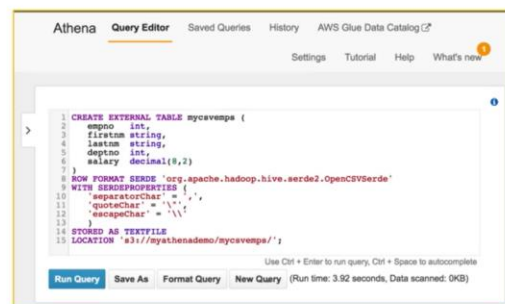
- ❏ Create an S3 bucket and object
- ❏ Create a metadata database
- ❏ Create a schema
- ❏ Fine-tune the Serde
- ❏ Run the Query
- ❏ Access the History



Basic Steps: Schema



- ❏ Create an S3 bucket and object
- ❏ Create a metadata database
- ❏ Create a schema
- ❏ Fine-tune the Serde
- ❏ Run the Query
- ❏ Access the History



Basic Steps: Serializer / Deserializer



- ❏ Create an S3 bucket and object
- ❏ Create a metadata database
- ❏ Create a schema
- ❏ Fine-tune the Serde
- ❏ Run the Query
- ❏ Access the History

```
8 ROW FORMAT SERDE 'org.apache.hadoop.hive.serde2.OpenCSVSerde'  
9 WITH SERDEPROPERTIES (  
10   'separatorChar' = ','  
11   'quoteChar' = '\"'  
12   'escapeChar' = '\\'  
13 )
```

<http://docs.aws.amazon.com/athena/latest/ug/csv.html>

3:54 / 10:01

Basic Steps: Query



- ❏ Create an S3 bucket and object
- ❏ Create a metadata database
- ❏ Create a schema
- ❏ Fine-tune the Serde
- ❏ Run the Query
- ❏ Access the History

1 SELECT * FROM myathendb."myschema" ORDER BY salary;

Use Ctrl + Enter to run query, Ctrl + Space to autocomplete

Run Query Save As Format Query New Query (Run time: 1.94 seconds, Data scanned: 0.35KB)

Results

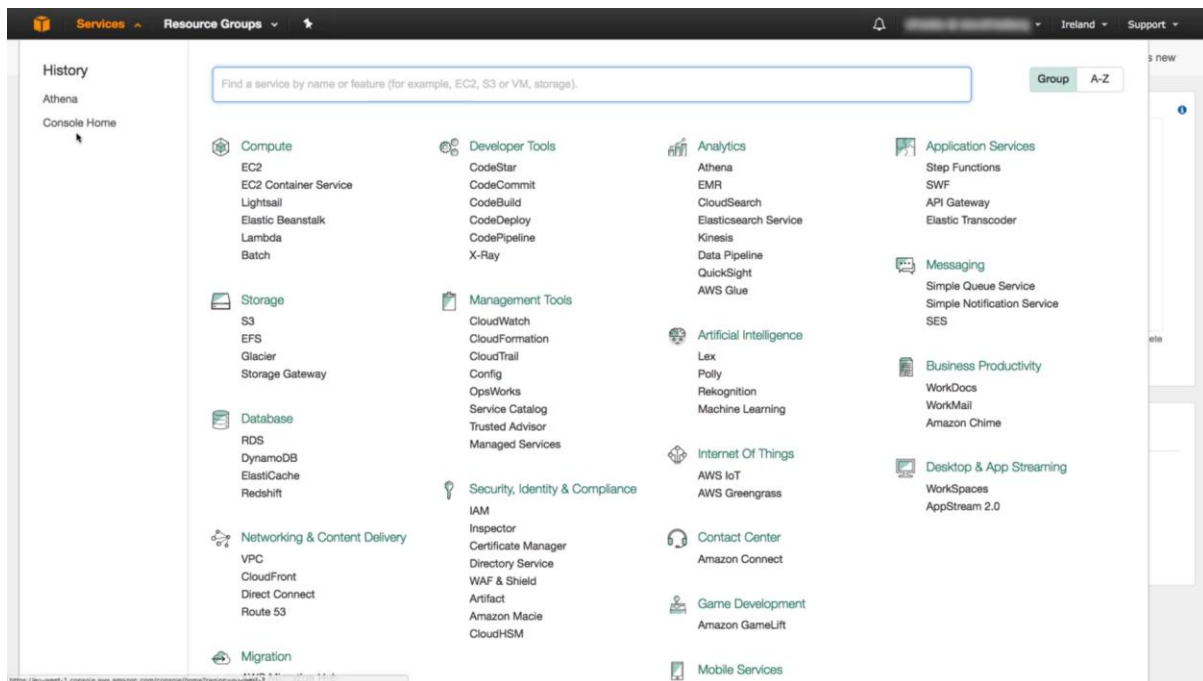
	empno	firstnm	lastnm	deptno	salary
1	110	Mark	Reisinger	10	18000.0
2	50	Terry	Turquois	70	35000.0
3	10	George	Green	20	40000.0
4	80	Robin	Redding	40	40000.0
5	30	Orville	O'Reilly	50	45000.0
6	100	Amy	Adams	70	45000.01
7	20	Pat	Purple	70	50000.0

Basic Steps: History



- Create an S3 bucket and object
- Create a metadata database
- Create a schema
- Fine-tune the Serde
- Run the Query
- Access the History

Query submitted time	Query	Encryption type	Status	Run time(s)	Data scanned	Action
2017/08/14 13:58:32 UTC-4	SELECT * FROM myathena_db."mycsvempg" ORDER BY salary	N/A	SUCCEEDED	1.94	0.35KB	Download results
2017/08/14 13:58:01 UTC-4	SELECT * FROM myathena_db."mycsvempg"	N/A	SUCCEEDED	1.72	0.35KB	Download results
2017/08/14 13:55:46 UTC-4	SELECT * FROM myathena_db."mycsvempg" LIMIT 10	N/A	SUCCEEDED	3.07	0.35KB	Download results
2017/08/14 13:55:38 UTC-4	CREATE EXTERNAL TABLE myathena_db."mycsvempg" (mycsv emp_id int, mycsv emp_name string, mycsv emp_salary double, mycsv emp_dept string)	N/A	SUCCEEDED	1.79	0KB	Download results
2017/08/14 13:55:14 UTC-4	drop table mycsvempg	N/A	SUCCEEDED	0.68	0KB	Download results
2017/08/14 13:55:05 UTC-4	drop table mycsvempg2	N/A	SUCCEEDED	0.64	0KB	Download results
2017/08/14 13:54:59 UTC-4	drop table mycsvempg3	N/A	SUCCEEDED	0.75	0KB	Download results



- 📦 Auto-generated Log Files
- 📦 Exported Spreadsheets
- 📦 Non-AWS Database Export