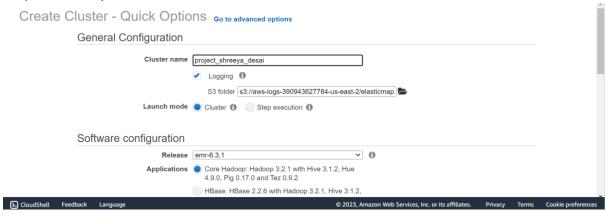
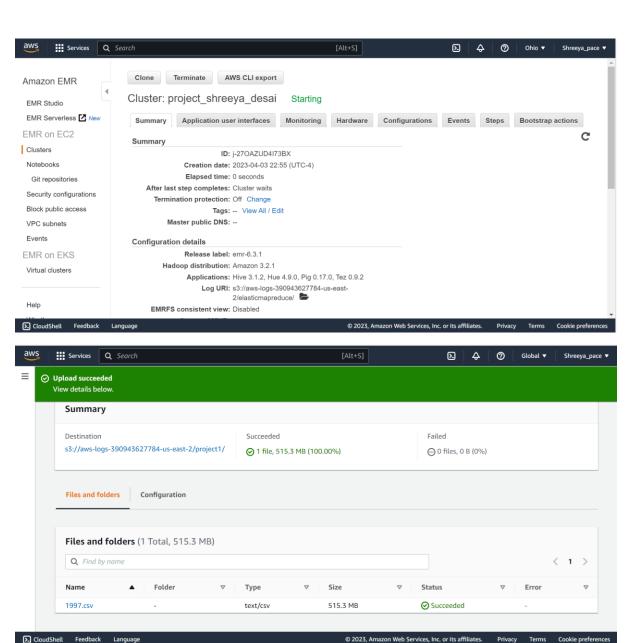
Snapshots of steps:





```
o ×
Using username "hadoop".

Authenticating with public key "project_desai" from agent
  ttps://aws.amazon.com/amazon-linux-2/
5 package(s) needed for security, out of 124 available
un "sudo yum update" to apply all updates.
 hadoop@ip-172-31-35-11 ~]$
```

```
onmetring to awa-logs-39043027784-us-east-2.s.
ected.
TTF request sent, awaiting response... 200 OK
ength: 540347861 [515M] [text/csv]
aving to: '1997.csv'
hadoop@ip-172-31-35-11 ~]$
```

```
04-04 03:10:57 (64.7 MB/s) - '1997.csv' saved [540347861/540347861]
```

hive> load data inpath '/shreeya/csv/1997.csv' into table AIRLINESPROJECT_SHREEYA; Loading data to table default.airlinesproject_shreeya

Time taken: 0.741 seconds hive>

														ABQ		
		NULL			NULL											
														ABQ		
	NA		NULL	NULL	NULL	NULL	NULL									
	30		1626	1615	1730	1725	WN							ABQ		
	NA		NULL	NULL	NULL	NULL	NULL									
1		5	1628	1615	1729	1725								ABQ		
NA		NULL	NULL	NULL	NULL	NULL										
1	14	2	1503	1425	1619	1535			N513					ABQ		
NA 1		NULL	NULL 1029	NULL 1020	NULL 1127	NULL	****									
		NULL	NULL	NULL		1130	WN		N369					ABQ		
NA 1		NULL	1020	1020	NULL 1130	NULL 1130	WN	1293	N395						PHX	
NA		NULL	NULL	NULL	NULL	NULL	WIN		NOSO					Aby		
1		5	1029	1020	1145	1130	WN	1293	N694		64			ABO	PHX	
NA		NULL	NULL	NULL	NULL	NULL	MIN	1233	10034		04			ADQ		
1		7	1020	1020	1141	1130	WN	1293				11			PHX	
	NA		NULL	NULL	NULL	NULL	NULL		MOOT					Aby		
	6		1030	1020	1139	1130	WN	1293	N321						PHX	
NA		NULL	NULL	NULL	NULL	NULL								HDQ		
1		2	1020	1020	1123	1130	WN	1293	N351					ABO	PHX	
NA		NULL	NULL	NULL	NULL	NULL										
			1107	1020	1205	1130	WN	1293	N677				47		PHX	
NA		NULL	NULL	NULL	NULL	NULL										
					1130	1130	WN	1293	N623						PHX	
NA		NULL	NULL	NULL	NULL	NULL										
					1123	1130	WN		N632					ABQ	PHX	
		NULL		NULL	NULL	NULL										
					1134	1130	WN							ABQ		
NA		NULL	NULL	NULL	NULL	NULL										

```
hive> SELECT Origin AS Airport, SUM((ArrDelay + DepDelay) / 60.0) AS DelayHours FROM AIRLINESPROJECT_SHREEYA WHERE Origin IS NOT NULL AND ArrDelay IS NOT NULL AND DepDelay IS NOT NULL AND ArrDelay IS NOT NULL AND ARRDELAY
```

Commands used:

- 1. wget (s3 path)
- 2. hadoop fs -mkdir /shreeya
- 3. hadoop fs -mkdir /shreeya/csv
- 4. hadoop fs -put 1997.csv /shreeya/csv
- 5. hive
- 6. CREATE EXTERNAL TABLE IF NOT EXISTS AIRLINESPROJECT_SHREEYA (Year INT, Month INT, DayofMonth INT, DayofWeek INT, DepTime INT, CRSDepTime INT, ArrTime INT, CRSArrTime INT, UniqueCarrier STRING, FlightNum INT, TailNum STRING, ActualElapsedTime INT, CRSElapsedTime INT, AirTime INT, ArrDelay INT, DepDelay INT, Origin STRING, Dest STRING, Distance INT, Taxiln INT, TaxiOut INT, Cancelled INT, CancellationCode STRING, Diverted INT, CarrierDelay INT, WeatherDelay INT, NASDelay INT, SecurityDelay INT, LateAircraftDelay INT) ROW FORMAT DELIMITED FIELDS TERMINATED BY "," tblproperties("skip.header.line.count"="1");
- 7. load data inpath '/shreeya/csv/1997.csv' into table AIRLINESPROJECT SHREEYA;
- 8. SELECT * FROM AIRLINESPROJECT_SHREEYA LIMIT 15;

- 9. QUERY TO DETERMINE THE THREE AIRPORTS WITH THE HIGHEST DELAY TIME (IN HOURS): SELECT Origin AS Airport, SUM((ArrDelay + DepDelay) / 60.0) AS DelayHours FROM AIRLINESPROJECT_SHREEYA WHERE Origin IS NOT NULL AND ArrDelay IS NOT NULL AND DepDelay IS NOT NULL GROUP BY Origin ORDER BY DelayHours DESC LIMIT 3;
- 10. QUERY TO determine the three carriers with the highest delay time (in hours):

 SELECT UniqueCarrier AS Carrier, SUM((ArrDelay + DepDelay) / 60.0) AS DelayHours FROM
 AIRLINESPROJECT_SHREEYA WHERE UniqueCarrier IS NOT NULL AND ArrDelay IS NOT NULL
 AND DepDelay IS NOT NULL GROUP BY UniqueCarrier ORDER BY DelayHours DESC LIMIT 3;
- 11. QUERY TO determine overall which type of delay (arrivals or departures) is the largest for airports:

SELECT 'Arrival Delay' AS DelayType, SUM(ArrDelay) AS TotalDelayMinutes FROM AIRLINESPROJECT_SHREEYA WHERE ArrDelay IS NOT NULL UNION ALL SELECT 'Departure Delay' AS DelayType, SUM(DepDelay) AS TotalDelayMinutes FROM AIRLINESPROJECT_SHREEYA WHERE DepDelay IS NOT NULL ORDER BY TotalDelayMinutes DESC LIMIT 1;