

AWS - TOPICS LEARNED

- Global Infrastructure
- Identity and Access Management
- Compute Services - EC2, Container, Serverless
- Amazon VPC
- EC2 Instance, Elastic Block and S3 Storage
- DynamoDB
- CloudWatch

S3 – UPLOADING AND RETRIEVING IMAGE

```
C:\Users\rajip\OneDrive\Desktop\AWS>aws --version
aws-cli/2.7.12 Python/3.9.11 Windows/10 exe/AMD64 prompt/off

C:\Users\rajip\OneDrive\Desktop\AWS>aws s3 ls

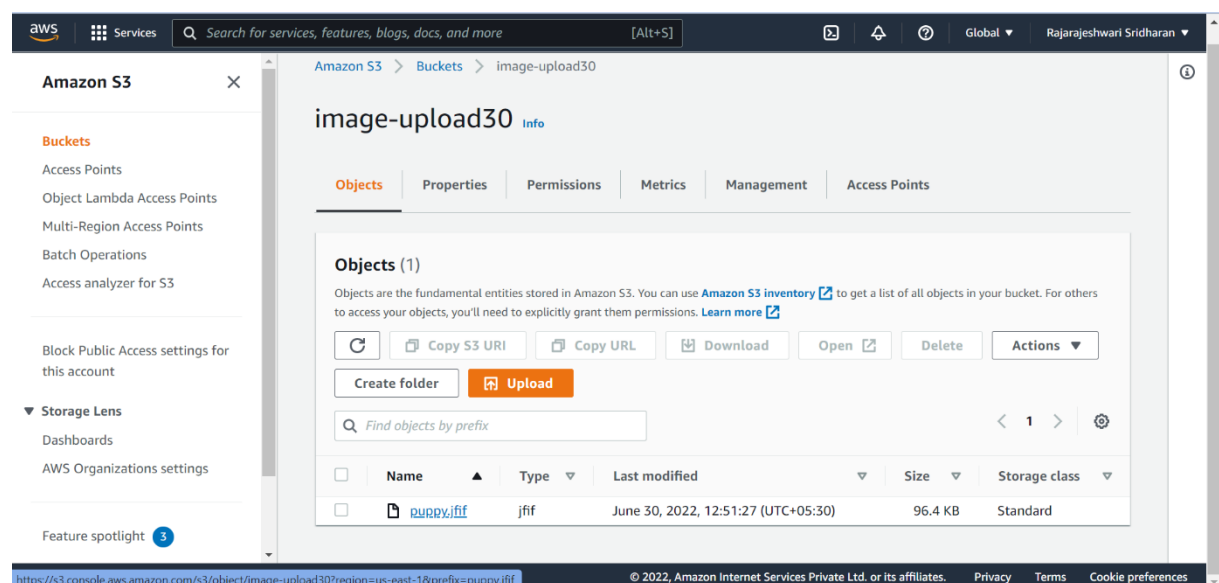
C:\Users\rajip\OneDrive\Desktop\AWS>aws s3 mb s3://image-upload30 --region us-east-1
make_bucket: image-upload30

C:\Users\rajip\OneDrive\Desktop\AWS>aws s3 cp puppy.jfif s3://image-upload30
upload: .\puppy.jfif to s3://image-upload30/puppy.jfif

C:\Users\rajip\OneDrive\Desktop\AWS>aws s3 ls s3://image-upload30
2022-06-30 12:51:27          98726 puppy.jfif

C:\Users\rajip\OneDrive\Desktop\AWS>cd ..

C:\Users\rajip\OneDrive\Desktop\AWS>aws s3 cp s3://image-upload30/puppy.jfif .
download: s3://image-upload30/puppy.jfif to .\puppy.jfif
```



DYNAMODB – CRUD OPERATIONS

Table Creation

```
Command Prompt

C:\Users\rajip>aws dynamodb create-table ^
More? --table-name employee ^
More? --attribute-definitions AttributeName=id,AttributeType=S AttributeName=name,AttributeType=S ^
More? --key-schema AttributeName=id,KeyType=HASH AttributeName=name,KeyType=RANGE ^
More? --provisioned-throughput ReadCapacityUnits=1,WriteCapacityUnits=1
```

Creation

```
Command Prompt

C:\Users\rajip>aws dynamodb put-item ^
More? --table-name employee ^
More? --item "{ \"id\": {\"S\": \"SAG1\"}, \"name\": {\"S\": \"Raji\"} }"

C:\Users\rajip>aws dynamodb put-item ^
More? --table-name employee ^
More? --item "{ \"id\": {\"S\": \"SAG2\"}, \"name\": {\"S\": \"Tom\"} }"

C:\Users\rajip>
```

Updation

```
Command Prompt

C:\Users\rajip>aws dynamodb update-item ^
More? --table-name employee ^
More? --key "{ \"id\": {\"S\": \"SAG1\"}, \"name\": {\"S\": \"Raji\"} }" ^
More? --update-expression "SET place = :t" ^
More? --expression-attribute-values "{\":t\": {\"S\": \"Chennai\"} }"

C:\Users\rajip>aws dynamodb update-item ^
More? --table-name employee ^
More? --key "{ \"id\": {\"S\": \"SAG2\"}, \"name\": {\"S\": \"Tom\"} }" ^
More? --update-expression "SET place = :t" ^
More? --expression-attribute-values "{\":t\": {\"S\": \"Bangalore\"} }"

C:\Users\rajip>_
```

Table View

```
C:\Users\rajip>aws dynamodb scan --table-name employee
{
  "Items": [
    {
      "id": {
        "S": "SAG1"
      },
      "name": {
        "S": "Raji"
      },
      "place": {
        "S": "Chennai"
      }
    },
    {
      "id": {
        "S": "SAG2"
      },
      "name": {
        "S": "Tom"
      },
      "place": {
        "S": "Bangalore"
      }
    }
  ],
  "Count": 2,
  "ScannedCount": 2,
  "ConsumedCapacity": null
}

C:\Users\rajip>
```

The screenshot shows the AWS Management Console interface for a DynamoDB instance. The left sidebar contains navigation links for Dashboard, Tables, Update settings, Explore items, PartiQL editor, Backups, Exports to S3, Reserved capacity, Settings, and DAX. The main content area displays the 'employee' table scan results. At the top, there are tabs for 'Scan' and 'Query', and a dropdown menu showing 'employee'. Below this, there are 'Filters' and 'Run'/'Reset' buttons. The scan status is 'Completed' with 'Read capacity units consumed: 0.5'. The results show 'Items returned (2)' in a table format. The table has columns for 'id', 'name', and 'place'. The first item is 'SAG1' with name 'Raji' and place 'Chennai'. The second item is 'SAG2' with name 'Tom' and place 'Bangalore'.

	id	name	place
<input type="checkbox"/>	SAG1	Raji	Chennai
<input type="checkbox"/>	SAG2	Tom	Bangalore

Read

```
C:\Users\rajip>aws dynamodb get-item ^
More? --table-name employee ^
More? --key "{ \"id\": {\"S\": \"SAG2\"}, \"name\": {\"S\": \"Tom\"} }" ^
More? --consistent-read
{
  "Item": {
    "id": {
      "S": "SAG2"
    },
    "name": {
      "S": "Tom"
    },
    "place": {
      "S": "Bangalore"
    }
  }
}

C:\Users\rajip>
```

Deletion

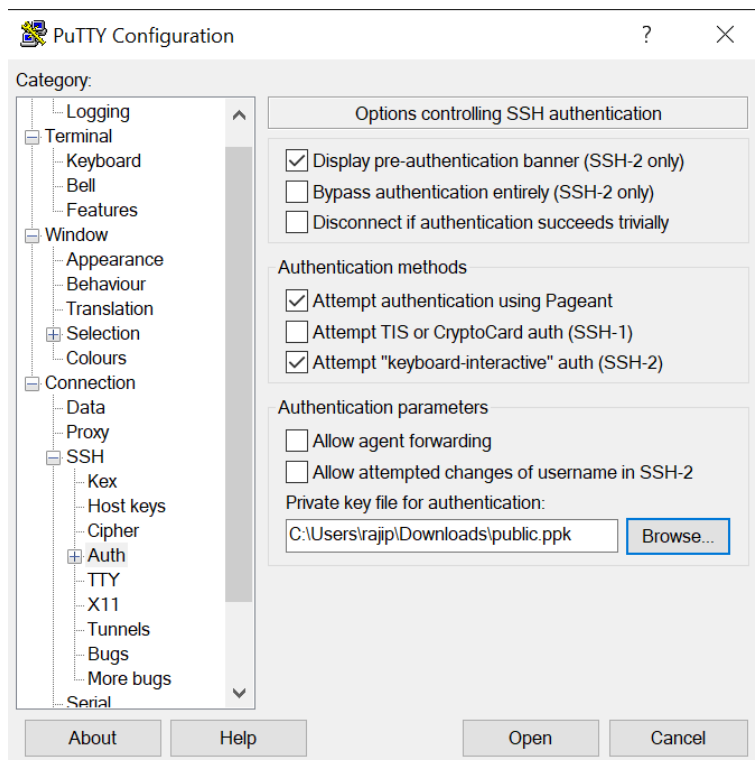
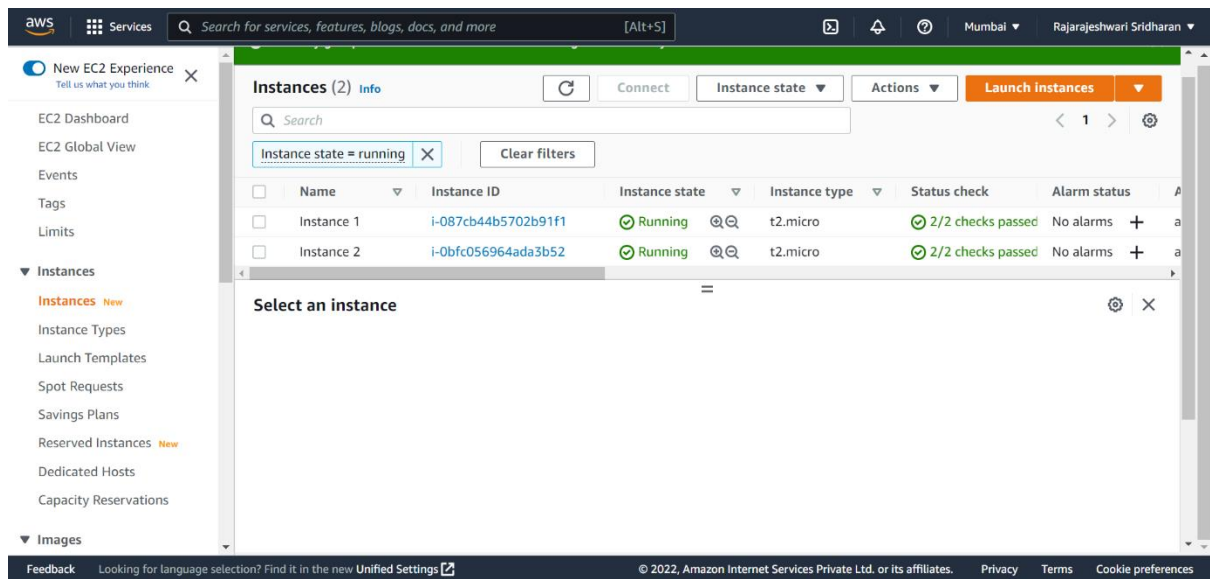
```
Command Prompt

C:\Users\rajip>aws dynamodb delete-item ^
More? --table-name employee ^
More? --key "{ \"id\": {\"S\": \"SAG2\"}, \"name\": {\"S\": \"Tom\"} }"

C:\Users\rajip>aws dynamodb scan --table-name employee
{
  "Items": [
    {
      "id": {
        "S": "SAG1"
      },
      "name": {
        "S": "Raji"
      },
      "place": {
        "S": "Chennai"
      }
    }
  ],
  "Count": 1,
  "ScannedCount": 1,
  "ConsumedCapacity": null
}

C:\Users\rajip>
```

SSH FROM ONE EC2 INSTANCE TO ANOTHER



login as: ec2-user

sudo su –

chmod 600 public.pem

ssh -i public.pem ec2-user@3.110.55.184

COURSE COMPLETION

