

Lab 3

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```
garre@garrettlaptop:~/development/notes$ aws s3 ls s3://garrettgruss
2026-01-30 10:39:40          41 hello-world.txt
```

Figure 1: Exercise 3.1

The screenshot shows the AWS S3 console interface. The top navigation bar includes 'Amazon S3', 'Buckets', 'garrettgruss', and 'hello-world.txt'. Below the navigation is a file detail card for 'hello-world.txt' with 'Info' and 'Object actions' buttons. Underneath is a table titled 'Versions (2)' with columns for 'Version ID', 'Type', 'Last modified', 'Size', and 'Storage class'. It lists two versions: the current version (85wieDHYHNvth05lwDXLYtxr5...) from February 12, 2026, and a previous version (null) from January 30, 2026.

Version ID	Type	Last modified	Size	Storage class
85wieDHYHNvth05lwDXLYtxr5...	(Current version)	February 12, 2026, 18:32:45 (UTC-0...)	8.0 B	Standard
null	txt	January 30, 2026, 10:39:40 (UTC-06...)	41.0 B	Standard

Figure 2: Exercise 3.2

```
garre@garrettlaptop:~/development/notes$ aws s3 presign s3://garrettgruss/hello-world.txt --expires-in 600
https://garrettgruss.s3.us-east-1.amazonaws.com/hello-world.txt?X-Amz-Algorithm=AWS4-HMAC-SHA256&X-Amz-Credential=AKIAVCZDN4B620SVBL2C%2F20260213%2Fus-east-1%2Fs3%2Faws4_request&X-Amz-Date=20260213T003521Z&X-Amz-Expires=600&X-Amz-SignedHeaders=host&X-Amz-Signature=1d8799787b3c05d43ea7514e791dc1a8fcf5e8b574263370b9eaf56d9a29155e
```

Figure 3: Exercise 3.3



Figure 4: Exercise 3.4

A screenshot of a cost estimation interface. At the top, there is a section titled "Acknowledgement" with three items: "S3 Standard cost (Monthly): 0.46", "S3 One Zone - Infrequent Access (S3 One Zone-IA) cost (Monthly): 0.65", and "S3 Glacier Instant Retrieval cost (Monthly): 2.75". Below this is a horizontal line. On the left side of the line, the text "Total Upfront cost: 0.00 USD" and "Total Monthly cost: 3.86 USD" are displayed. On the right side, there is a button labeled "Show Details ▲".

Figure 5: Exercise 3.5

A screenshot of the AWS RDS "database-1" summary page. The top navigation bar includes icons for "Edit", "Modify", and "Actions". The main summary table has five columns: "DB identifier" (database-1), "Status" (Available), "Role" (Instance), "Engine" (MariaDB), and "Recommendations". Below the table, there are tabs for "Connectivity & security" (which is selected), "Monitoring", "Logs & events", "Configuration", "Maintenance & backups", "Data migrations", "Tags", and navigation arrows.

Figure 6: Exercise 5.1

C Creating replica database-1-replica-1 in US East (N. Virginia)
Your database might take a few minutes to launch.

The screenshot shows the AWS RDS 'Databases' page with a status bar at the top indicating 'Creating replica database-1-replica-1 in US East (N. Virginia)' and a note that it might take a few minutes to launch. Below the status bar is a toolbar with icons for Group resources, Modify, Actions, and Create database. A search bar labeled 'Filter by databases' is present. The main table lists two databases: 'database-1' (Primary, MariaDB, SECOND, us-east-1f, db.t4g.micro) and 'database-1-replica-1' (Replica, MariaDB, SECOND, -, db.t4g.micro). The 'database-1-replica-1' row has a blue outline, indicating it is selected or being modified.

DB identifier	Status	Role	Engine	Upgrade rollout order	Region ...	Size
database-1	Modifying...	Primary	MariaDB	SECOND	us-east-1f	db.t4g.micro
database-1-replica-1	Creating	Replica	MariaDB	SECOND	-	db.t4g.micro

Figure 7: Exercise 5.2

The screenshot shows the AWS RDS 'Databases' page with the same layout as Figure 7. The 'database-1-replica-1' row now has a green outline and a green checkmark icon next to the 'Status' column, indicating it is now available. The other database row ('database-1') remains unselected.

DB identifier	Status	Role	Engine	Upgrade rollout order	Region ...	Size
database-1	Available	Instance	MariaDB	SECOND	us-east-1f	db.t4g.micro
database-1-replica-1	Available	Instance	MariaDB	SECOND	us-east-1d	db.t4g.micro

Figure 8: Exercise 5.3

```
garre@garrett-laptop:~/development/notes$ aws dynamodb create-table \
--table-name Authors \
--attribute-definitions \
  AttributeName=LastName,AttributeType=S \
  AttributeName=FirstName,AttributeType=S \
--key-schema \
  AttributeName=LastName,KeyType=HASH \
  AttributeName=FirstName,KeyType=RANGE \
--provisioned-throughput ReadCapacityUnits=1,WriteCapacityUnits=1
{
  "TableDescription": {
    "AttributeDefinitions": [
      {
        "AttributeName": "FirstName",
        "AttributeType": "S"
      },
      {
        "AttributeName": "LastName",
        "AttributeType": "S"
      }
    ],
    "TableName": "Authors",
    "KeySchema": [
      {
        ...
      }
    ]
  }
}
....skipping...
{
  "TableDescription": {
    "AttributeDefinitions": [
      {
        "AttributeName": "FirstName",
        "AttributeType": "S"
      },
      {
        ...
      }
    ]
  }
}
```

Figure 9: Exercise 5.4