

## **Activity 6: Migrate to Amazon RDS**

Spurthy Mutturaj

Information Technology, Arizona State University

IFT 562: Cloud Security & Operations for IT

Daniel Wells

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### List of Attributes

MomPopCafeInstance Instance ID: i-0dbb82587f120b9f6

MomPopCafeInstance Instance Type: t2.small

MomPopCafeInstance Public DNS Name: ec2-44-193-74-175.compute-1.amazonaws.com

MomPopCafeInstance Public IP Address: 44.193.74.175

MomPopCafeInstance Availability Zone: us-east-1a

MomPopCafeInstance VPC ID: vpc-06ec9e481666e44c7

MomPopCafeSecurityGroup Group ID: sg-0ac876f46525a6122

MomPopCafe VPC IPv4 CIDR block: 10.200.0.0/20

MomPopCafe Public Subnet 1 Subnet ID: subnet-09e09a33fde057fb6

MomPopCafe Public Subnet 1 IPv4 CIDR block: 10.200.0.0/24

List of Availability Zones in the region: "us-east-1a", "us-east-1b", "us-east-1c", "us-east-1d",  
"us-east-1e", "us-east-1f"

Number of orders:4

**Figure 2**

*Screenshot of describe-db-instances command.*

```
~/Desktop/Cloud SysOps — ec2-user@ip-10-200-0-204:~ — ssh -i labsuser.pem e

[ec2-user@ip-10-200-0-204 ~]$ aws rds describe-db-instances \
> --db-instance-identifier MomPopCafeDBInstance \
[ec2-user@ip-10-200-0-204 ~]$ aws rds describe-db-instances --query "DBInstances[*].[Endpoint.Address,AvailabilityZone,PreferredBackupWindow,BackupRetentionPeriod,DBInstanceStatus]"
[
  [
    "mompopcafedbinstance.caycv0pzy83p.us-east-1.rds.amazonaws.com",
    "us-east-1a",
    "10:01-10:31",
    1,
    "available"
  ]
]
[ec2-user@ip-10-200-0-204 ~]$ Spurthy Mutturaj
-bash: Spurthy: command not found
[ec2-user@ip-10-200-0-204 ~]$ aws rds describe-db-instances
{
  "DBInstances": [
    {
      "PubliclyAccessible": false,
      "MasterUsername": "root",
      "MonitoringInterval": 0,
      "LicenseModel": "general-public-license",
      "VpcSecurityGroups": [
        {
          "Status": "active",
          "VpcSecurityGroupId": "sg-0bb76939e288ca080"
        }
      ],
      "InstanceCreateTime": "2023-09-16T03:57:00.402Z",
      "CopyTagsToSnapshot": false,
      "OptionGroupMemberships": [
        {
          "Status": "in-sync",
          "OptionGroupName": "default:mariadb-10-3"
        }
      ],
      "PendingModifiedValues": {},
      "Engine": "mariadb",
      "MultiAZ": false,
      "LatestRestorableTime": "2023-09-16T03:57:16.467Z",
      "DBSecurityGroups": [],
      "DBParameterGroups": [
        {
          "DBParameterGroupName": "default.mariadb10.3",
          "ParameterApplyStatus": "in-sync"
        }
      ],
      "PerformanceInsightsEnabled": false,
      "AutoMinorVersionUpgrade": true,
      "PreferredBackupWindow": "10:01-10:31",
      "DBSubnetGroup": {
        "Subnets": [
          {
            "SubnetStatus": "Active",
            "SubnetIdentifier": "subnet-05dddbcb9ec42eedd",
            "SubnetOutpost": {},
            "SubnetAvailabilityZone": {
              "Name": "us-east-1a"
            }
          }
        ]
      }
    }
  ],
}
```

*Note.* My Name is included in the top.

**Figure 3***Screenshot of product table at end of task 2.*

```
[ec2-user@ip-10-200-0-158 ~]$ mysql --user=root --password='Re:Start!9' \
> --host=mompopcafedbinstance.caycv0pzy83p.us-east-1.rds.amazonaws.com \
> mom_pop_db
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 32
Server version: 10.3.35-MariaDB-log Source distribution

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [mom_pop_db]> select * from product;
```

id	product_name	description	price	product_group	image_url
1	Croissant	Fresh, buttery and fluffy... Simply delicious!	1.50	1	images/Croissants.jpg
2	Donut	We have more than half-a-dozen flavors!	1.00	1	images/Donuts.jpg
3	Chocolate Chip Cookie	Made with Swiss chocolate with a touch of Madagascar vanilla	2.50	1	images/Chocolate-Chip-Cookies.jpg
4	Muffin	Banana bread, blueberry, cranberry or apple	3.00	1	images/Muffins.jpg
5	Strawberry Blueberry Tart	Bursting with the taste and aroma of fresh fruit	3.50	1	images/Strawberry-&-Blueberry-Tarts.jpg
6	Strawberry Tart	Made with fresh ripe strawberries and a delicious whipped cream	3.50	1	images/Strawberry-Tarts.jpg
7	Coffee	Freshly-ground black or blended Colombian coffee	3.00	2	images/Coffee.jpg
8	Hot Chocolate	Rich and creamy, and made with real chocolate	3.00	2	images/Cup-of-Hot-Chocolate.jpg
9	Latte	Offered hot or cold and in various delicious flavors	3.50	2	images/Latte.jpg

```

9 rows in set (0.00 sec)

MariaDB [mom_pop_db]> Spurthy Mutturaj
-> ;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'Spurthy Mutturaj' at line 1
MariaDB [mom_pop_db]>

```

**Figure 4***Screenshot of product table at end of task 4.*

```

Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 46
Server version: 10.3.35-MariaDB-log Source distribution

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [mom_pop_db]> select * from product;
+----+-----+-----+-----+-----+-----+
| id | product_name | description | price | product_group | image_url |
+----+-----+-----+-----+-----+-----+
| 1 | Croissant | Fresh, buttery and fluffy... Simply delicious! | 1.50 | 1 | images/Croissants.jpg |
| 2 | Donut | We have more than half-a-dozen flavors! | 1.00 | 1 | images/Donuts.jpg |
| 3 | Chocolate Chip Cookie | Made with Swiss chocolate with a touch of Madagascar vanilla | 2.50 | 1 | images/Chocolate-Chip-Cookies.jpg |
| 4 | Muffin | Banana bread, blueberry, cranberry or apple | 3.00 | 1 | images/Muffins.jpg |
| 5 | Strawberry Blueberry Tart | Bursting with the taste and aroma of fresh fruit | 3.50 | 1 | images/Strawberry-&-Blueberry-Tarts.jpg |
| 6 | Strawberry Tart | Made with fresh ripe strawberries and a delicious whipped cream | 3.50 | 1 | images/Strawberry-Tarts.jpg |
| 7 | Coffee | Freshly-ground black or blended Columbian coffee | 3.00 | 2 | images/Coffee.jpg |
| 8 | Hot Chocolate | Rich and creamy, and made with real chocolate | 3.00 | 2 | images/Cup-of-Hot-Chocolate.jpg |
| 9 | Latte | Offered hot or cold and in various delicious flavors | 3.50 | 2 | images/Latte.jpg |
+----+-----+-----+-----+-----+-----+

9 rows in set (0.00 sec)

MariaDB [mom_pop_db]> Spurthy Mutturaj;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'Spurthy Mutturaj' at line 1
MariaDB [mom_pop_db]>

```