

SecretKey	5bL4N7mxDmMABtPDGtBwqBJsBlip1RoJbi94rdot
LabRegion	us-west-2
CliHostPublicIP	18.237.89.31
AccessKey	AKIAQM6KNF7HM2QCNTQP

**Instances (1/2)** [Info](#)

Find instance by attribute or tag (case-sensitive)

Instance state **running** [X](#) [Clear filters](#)

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4
CLI Host	i-0024b10e329774260	Running	t3.micro	2/2 checks passed	No alarms	us-west-2a	ec2-18-237
CafeInstance	i-09846c116fb934807	Running	t3.small	2/2 checks passed	No alarms	us-west-2a	ec2-35-166

**Instance: i-09846c116fb934807 (CafeInstance)**

[Details](#) [Security](#) [Networking](#) [Storage](#) [Status checks](#) [Monitoring](#) [Tags](#)

**Instance summary** [Info](#)

Instance ID i-09846c116fb934807 (CafeInstance)	Public IPv4 address 35.166.165.240   <a href="#">open address</a>	Private IPv4 addresses 10.200.0.111
IPv6 address -	Instance state Running	Public IPv4 DNS ec2-35-166-165-240.us-west-2.compute.amazonaws.com   <a href="#">open address</a>
Hostname type IP name: ip-10-200-0-111.us-west-2.compute.internal	Private IP DNS name (IPv4 only) ip-10-200-0-111.us-west-2.compute.internal	
Answer private resource DNS name -	Instance type t3.small	Elastic IP addresses -

```

ec2-user@ip-10-200-0-209:~
https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-10-200-0-209 ~]$ aws configure
AWS Access Key ID [None]: AKIAQM6KNF7HM2QCNTQP
AWS Secret Access Key [None]: 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
Default region name [None]: us-west-2
Default output format [None]: json
[ec2-user@ip-10-200-0-209 ~]$ aws ec2 describe-instances \
> --filters "Name=tag:Name,Values= CafeInstance" \
> --query "Reservations[*].Instances[*].[InstanceId,InstanceType,PublicDnsName,P
ublicIpAddress,Placement.AvailabilityZone,VpcId,SecurityGroups[*].GroupId]"
[
  [
    [
      "i-09846c116fb934807",
      "t3.small",
      "ec2-35-166-165-240.us-west-2.compute.amazonaws.com",
      "35.166.165.240",
      "us-west-2a",
      "vpc-0978770ef2140f934",
      [
        "sg-0cbfel985e61bfad8"
      ]
    ]
  ]
]
[ec2-user@ip-10-200-0-209 ~]$

```

• <b>Instance ID</b> of CafeInstance	i-09846c116fb934807
• <b>Instance type</b> of CafeInstance	t3.small
• <b>Public DNS name</b> of CafeInstance	ec2-35-166-165-240.us-west-2.compute.amazonaws.com
• <b>Public IP address</b> of CafeInstance	35.166.165.240
• <b>Availability Zone</b> of CafeInstance	us-west-2a
• <b>VPC ID</b> of Cafe VPC	vpc-0978770ef2140f934
• <b>Group ID</b> of CafeSecurityGroup	sg-0cbfe1985e61bfad8
• <b>IPv4 CIDR block</b> of Cafe VPC	10.200.0.0/20
• <b>Subnet ID</b> of Cafe Public Subnet 1	subnet-02b2aa3fd6bdec4a4
• <b>IPv4 CIDR block</b> of Cafe Public Subnet 1	10.200.0.0/24
• List of <b>Availability Zones</b> in the Region	"us-west-2a", "us-west-2b", "us-west-2c", "us-west-2d"
• Number of orders:	5

```
ec2-user@ip-10-200-0-209:~  
]  
[ec2-user@ip-10-200-0-209 ~]$ aws ec2 describe-vpcs --vpc-ids vpc-0978770ef2  
4 \  
> --filters "Name=tag:Name,Values= Cafe VPC" \  
> --query "Vpcs[*].CidrBlock"  
[  
    "10.200.0.0/20"  
]  
[ec2-user@ip-10-200-0-209 ~]$
```

ec2-user@ip-10-200-0-209:~

```
    "SubnetArn": "arn:aws:ec2:us-west-2:02780490  
dec4a4",  
    "Ipv6CidrBlockAssociationSet": [],  
    "VpcId": "vpc-0978770ef2140f934",  
    "MapCustomerOwnedIpOnLaunch": false,  
    "AvailabilityZone": "us-west-2a",  
    "SubnetId": "subnet-02b2aa3fd6bdec4a4",  
    "OwnerId": "027804905422",  
    "Tenancy": "default"
```

```
ec2-user@ip-10-200-0-209:~  
[ec2-user@ip-10-200-0-209 ~]$ aws ec2 describe-availability-zones \  
> --filters "Name=region-name,Values=us-west-2" \  
> --query "AvailabilityZones[*].ZoneName"  
[  
    "us-west-2a",  
    "us-west-2b",  
    "us-west-2c",  
    "us-west-2d"  
]  
[ec2-user@ip-10-200-0-209 ~]$
```

# Café

[Home](#) [About Us](#) [Contact Us](#) [Menu](#) [Order History](#)



# Café

[Home](#) [Menu](#) [Order History](#)

## Order Confirmation

Thank for your order! It will be available for pickup within 15 minutes. Your order number and details are shown below.

Order Number: 1    Date: 2023-03-20    Time: 06:39:47    Total Amount: \$24.50

Item	Price	Quantity	Amount
Croissant	\$1.50	1	\$1.50
Donut	\$1.00	1	\$1.00
Chocolate Chip Cookie	\$2.50	1	\$2.50
Muffin	\$3.00	1	\$3.00
Strawberry Blueberry Tart	\$3.50	1	\$3.50
Strawberry Tart	\$3.50	1	\$3.50
Coffee	\$3.00	1	\$3.00
Hot Chocolate	\$3.00	1	\$3.00
Latte	\$3.50	1	\$3.50

# Café

[Home](#) [Menu](#) [Order History](#)

## Order Confirmation

Thank for your order! It will be available for pickup within 15 minutes. Your order number and details are shown below.

Order Number: 5    Date: 2023-03-20    Time: 08:54:46    Total Amount: \$11.00

Item	Price	Quantity	Amount
Croissant	\$1.50	1	\$1.50
Muffin	\$3.00	1	\$3.00
Coffee	\$3.00	1	\$3.00
Latte	\$3.50	1	\$3.50

# Café

[Home](#) [About Us](#) [Contact Us](#) [Menu](#) [Order History](#)



Our café offers an assortment of delicious and delectable pastries and coffees that will put a smile on your face. From cookies to croissants, tarts and cakes, each treat is especially prepared to excite your tastebuds and brighten your day!

Frank bakes a rich variety of cookies. Try them all!



Tea,  
Coffee,  
Lattes,  
and Hot  
Chocolate.  
Yes, we  
have it!

Our tarts are always  
a customer favorite!



## About Us



Frank and Martha have been adding sweetness to their customers' lives since 2020. Frank's recipes have been passed down from his mother and use simple and fresh ingredients to produce delightful flavors. Both of them will personally greet you with a welcoming smile when you visit!

## Contact Us



123 Any Street  
Any Town, USA

Tel: +1-800-555-0198

### Hours

Weekdays: 6:00am - 6:00pm  
Saturday: 7:00am - 7:00pm  
Closed on Sundays

<b>CafeDatabaseSG</b> (Security group)	sg-01aa00844cc784f1b
<b>CafeDB Private Subnet 1</b>	subnet-0d0dfa65ab59eb546
<b>CafeDB Private Subnet 2</b>	subnet-04c75aba1f8b0614f
<b>CafeDB Subnet Group</b> (Database subnet group)	sg-0cbfe1985e61bfad8

```
ec2-user@ip-10-200-0-209:~
[ec2-user@ip-10-200-0-209 ~]$ aws ec2 create-security-group \
> --group-name CafeDatabaseSG \
> --description "Security group for Cafe database" \
> --vpc-id vpc-0978770ef2140f934
{
  "GroupId": "sg-01aa00844cc784f1b"
}
[ec2-user@ip-10-200-0-209 ~]$
```

```
ec2-user@ip-10-200-0-209:~
[ec2-user@ip-10-200-0-209 ~]$ aws ec2 authorize-security-group-ingress \
> --group-id sg-01aa00844cc784f1b \
> --protocol tcp --port 3306 \
> --source-group sg-0cbfe1985e61bfad8
An error occurred (InvalidPermission.Duplicate) when calling the Authorize
SecurityGroupIngress operation: the specified rule "peer: sg-0cbfe1985e61b
fad8, TCP, from port: 3306, to port: 3306, ALLOW" already exists
[ec2-user@ip-10-200-0-209 ~]$
```

```
ec2-user@ip-10-200-0-209:~
[ec2-user@ip-10-200-0-209 ~]$ aws ec2 describe-security-groups \
> --query "SecurityGroups[*].[GroupName,GroupId,IpPermissions]" \
> --filters "Name=group-name,Values='CafeDatabaseSG'"
[
  [
    "CafeDatabaseSG",
    "sg-01aa00844cc784f1b",
    [
      {
        "PrefixListIds": [],
        "FromPort": 3306,
        "IpRanges": [],
        "ToPort": 3306,
        "IpProtocol": "tcp",
        "UserIdGroupPairs": [
          {
            "UserId": "027804905422",
            "GroupId": "sg-0cbfe1985e61bfad8"
          }
        ],
        "Ipv6Ranges": []
      }
    ]
  ]
]
[ec2-user@ip-10-200-0-209 ~]$
```

```
ec2-user@ip-10-200-0-209:~
[ec2-user@ip-10-200-0-209 ~]$ aws ec2 create-subnet \
> --vpc-id vpc-0978770ef2140f934 \
> --cidr-block 10.200.2.0/23 \
> --availability-zone us-west-2a
{
  "Subnet": {
    "MapPublicIpOnLaunch": false,
    "AvailabilityZoneId": "usw2-az1",
    "AvailableIpAddressCount": 507,
    "DefaultForAz": false,
    "SubnetArn": "arn:aws:ec2:us-west-2:027804905422:subnet/subnet-0d0dfa65ab59eb546",
    "Ipv6CidrBlockAssociationSet": [],
    "VpcId": "vpc-0978770ef2140f934",
    "State": "available",
    "AvailabilityZone": "us-west-2a",
    "SubnetId": "subnet-0d0dfa65ab59eb546",
    "OwnerId": "027804905422",
    "CidrBlock": "10.200.2.0/23",
    "AssignIpv6AddressOnCreation": false
  }
}
[ec2-user@ip-10-200-0-209 ~]$
```

ec2-user@ip-10-200-0-209:~

```
[ec2-user@ip-10-200-0-209 ~]$ aws ec2 create-subnet \  
> --vpc-id vpc-0978770ef2140f934 \  
> --cidr-block 10.200.10.0/23 \  
> --availability-zone us-west-2b  
{  
  "Subnet": {  
    "MapPublicIpOnLaunch": false,  
    "AvailabilityZoneId": "usw2-az2",  
    "AvailableIpAddressCount": 507,  
    "DefaultForAz": false,  
    "SubnetArn": "arn:aws:ec2:us-west-2:027804905422:subnet/subnet-04c75abalf8b  
614f",  
    "Ipv6CidrBlockAssociationSet": [],  
    "VpcId": "vpc-0978770ef2140f934",  
    "State": "available",  
    "AvailabilityZone": "us-west-2b",  
    "SubnetId": "subnet-04c75abalf8b0614f",  
    "OwnerId": "027804905422",  
    "CidrBlock": "10.200.10.0/23",  
    "AssignIpv6AddressOnCreation": false  
  }  
}  
[ec2-user@ip-10-200-0-209 ~]$
```

```
aws ec2 create-subnet \  
--vpc-id vpc-0978770ef2140f934 \  
--cidr-block 10.200.2.0/23 \  
--availability-zone us-west-2a
```

```
aws ec2 create-subnet \  
--vpc-id vpc-0978770ef2140f934 \  
--cidr-block 10.200.10.0/23 \  
--availability-zone us-west-2b
```



```
ec2-user@ip-10-200-0-209:~  
[ec2-user@ip-10-200-0-209 ~]$ aws rds create-db-subnet-group \  
> --db-subnet-group-name "CafeDB Subnet Group" \  
> --db-subnet-group-description "DB subnet group for Cafe" \  
> --subnet-ids subnet-0d0dfa65ab59eb546 subnet-04c75abalf8b0614f \  
> --tags "Key=Name,Value= CafeDatabaseSubnetGroup" \  
{  
  "DBSubnetGroup": {  
    "Subnets": [  
      {  
        "SubnetStatus": "Active",  
        "SubnetIdentifier": "subnet-04c75abalf8b0614f",  
        "SubnetOutpost": {},  
        "SubnetAvailabilityZone": {  
          "Name": "us-west-2b"  
        }  
      },  
      {  
        "SubnetStatus": "Active",  
        "SubnetIdentifier": "subnet-0d0dfa65ab59eb546",  
        "SubnetOutpost": {},  
        "SubnetAvailabilityZone": {  
          "Name": "us-west-2a"  
        }  
      }  
    ],  
    "VpcId": "vpc-0978770ef2140f934",  
    "DBSubnetGroupDescription": "DB subnet group for Cafe",  
    "SubnetGroupStatus": "Complete",  
    "DBSubnetGroupArn": "arn:aws:rds:us-west-2:027804905422:subgrp:cafedb subnet group",  
    "DBSubnetGroupName": "cafedb subnet group"  
  }  
}  
[ec2-user@ip-10-200-0-209 ~]$
```

- DB instance identifier: **CafeDBInstance**
- Engine option: **MariaDB**
- DB engine version: **10.5.13**
- DB instance class: **db.t3.micro**
- Allocated storage: **20 GB**
- Availability Zone: **CafeInstance Availability Zone**
- DB Subnet group: **CafeDB Subnet Group**
- VPC security groups: **CafeDatabaseSG**
- Public accessibility: **No**
- Username: **root**
- Password: **Re: Start!9**

ec2-user@ip-10-200-0-209:~

```
ec2-user@ip-10-200-0-209 ~]$ aws rds create-db-instance \
--db-instance-identifier CafeDBInstance \
--availability-zone us-west-2a \
--engine mariadb \
--db-subnet-group-name "CafeDB Subnet Group" \
--engine-version 10.5.13 \
--db-instance-class db.t3.micro \
--allocated-storage 20 \
--availability-zone us-west-2a \
--db-subnet-group-name "CafeDB Subnet Group" \
--vpc-security-group-ids sg-0cbfel985e61bfad8 \
--no-publicly-accessible \
--master-username root --master-user-password 'Re:Start!9'
```

```
"DBInstance": {
  "PubliclyAccessible": false,
  "MasterUsername": "root",
  "MonitoringInterval": 0,
  "LicenseModel": "general-public-license",
  "VpcSecurityGroups": [
    {
      "Status": "active",
      "VpcSecurityGroupId": "sg-0cbfel985e61bfad8"
    }
  ],
  "CopyTagsToSnapshot": false,
  "OptionGroupMemberships": [
    {
      "Status": "in-sync",
      "OptionGroupName": "default:mariadb-10-5"
    }
  ],
  "PendingModifiedValues": {
    "MasterUserPassword": "*****"
  },
  "Engine": "mariadb",
  "MultiAZ": false,
  "DBSecurityGroups": [],
  "DBParameterGroups": [
    {
      "DBParameterGroupName": "default:mariadb10.5",
      "ParameterApplyStatus": "in-sync"
    }
  ],
  "PerformanceInsightsEnabled": false,
  "AutoMinorVersionUpgrade": true,
  "PreferredBackupWindow": "12:35-13:05",
  "DBSubnetGroup": {
    "Subnets": [
      {
        "SubnetStatus": "Active",
        "SubnetIdentifier": "subnet-04c75abaf8b0614f",
        "SubnetOutpost": {},
        "SubnetAvailabilityZone": {
          "Name": "us-west-2b"
        }
      },
      {
        "SubnetStatus": "Active",
        "SubnetIdentifier": "subnet-0d0dfa65ab59eb546",
        "SubnetOutpost": {},
        "SubnetAvailabilityZone": {
          "Name": "us-west-2a"
        }
      }
    ]
  },
  "DBSubnetGroupName": "cafedb subnet group",
  "VpcId": "vpc-0978770ef2140f934",
  "DBSubnetGroupDescription": "DB subnet group for Cafe",
  "SubnetGroupStatus": "Complete"
},
"ReadReplicaDBInstanceIdentifiers": [],
"AllocatedStorage": 20,
"DBInstanceArn": "arn:aws:rds:us-west-2:027804905422:db:cafedbinstance",
"BackupRetentionPeriod": 1,
"PreferredMaintenanceWindow": "sun:08:51-sun:09:21",
"DBInstanceStatus": "creating",
"IAMDatabaseAuthenticationEnabled": false,
"EngineVersion": "10.5.13",
"DeletionProtection": false,
"AvailabilityZone": "us-west-2a",
"DomainMemberships": [],
"StorageType": "gp2",
"DbiResourceId": "db-TLR2OBYPGRODMKZHYAV7J6V7DA",
"CACertificateIdentifier": "rds-ca-2019",
"StorageEncrypted": false,
"AssociatedRoles": [],
"DBInstanceClass": "db.t3.micro",
"DBInstancePort": 0,
"DBInstanceIdentifier": "cafedbinstance"
}
```

ec2-user@ip-10-200-0-209:~

```
[ec2-user@ip-10-200-0-209 ~]$ aws rds describe-db-instances \
> --db-instance-identifier CafeDBInstance \
> --query "DBInstances[*].[Endpoint.Address,AvailabilityZone,PreferredBackupWindow,BackupRetentionPeriod,DBInstanceStatus]"
[
  [
    null,
    "us-west-2a",
    "12:35-13:05",
    1,
    "creating"
  ]
]
[ec2-user@ip-10-200-0-209 ~]$
```

```
ec2-user@ip-10-200-0-209:~  
]  
]  
[ec2-user@ip-10-200-0-209 ~]$ aws rds describe-db-instances \  
> --db-instance-identifier CafeDBInstance \  
> --query "DBInstances[*].[Endpoint.Address,AvailabilityZone,PreferredBackupWindow,BackupRetentionPeriod,DBInst  
anceStatus]"  
[  
  [  
    "cafedbinstance.csreex4oqsja.us-west-2.rds.amazonaws.com",  
    "us-west-2a",  
    "12:35-13:05",  
    1,  
    "available"  
  ]  
]  
[ec2-user@ip-10-200-0-209 ~]$
```

**RDS Instance Database Endpoint Address:**

cafedbinstance.csreex4oqsja.us-west-2.rds.amazonaws.com

```
https://aws.amazon.com/amazon-linux-2/  
[ec2-user@ip-10-200-0-111 ~]$ mysqldump --user=root --password='Re:Start!9' \  
> --databases cafe_db --add-drop-database > cafedb-backup.sql  
[ec2-user@ip-10-200-0-111 ~]$ less cafedb-backup.sql
```

```
ec2-user@ip-10-200-0-111:~  
https://aws.amazon.com/amazon-linux-2/  
[ec2-user@ip-10-200-0-111 ~]$ mysqldump --user=root --password='Re:Start!9' \  
> --databases cafe_db --add-drop-database > cafedb-backup.sql  
[ec2-user@ip-10-200-0-111 ~]$ less cafedb-backup.sql  
-- MySQL dump 10.19  Distrib 10.2.38-MariaDB, for Linux (x86_64)  
--  
-- Host: localhost    Database: cafe_db  
--  
-- Server version      10.2.38-MariaDB  
--  
/*!40101 SET @OLD_CHARACTER_SET_CLIENT=@@CHARACTER_SET_CLIENT */;  
/*!40101 SET @OLD_CHARACTER_SET_RESULTS=@@CHARACTER_SET_RESULTS */;  
/*!40101 SET @OLD_COLLATION_CONNECTION=@@COLLATION_CONNECTION */;  
/*!40101 SET NAMES utf8 */;  
/*!40103 SET @OLD_TIME_ZONE=@@TIME_ZONE */;  
/*!40103 SET TIME_ZONE='+00:00' */;  
/*!40014 SET @OLD_UNIQUE_CHECKS=@@UNIQUE_CHECKS, UNIQUE_CHECKS=0 */;  
/*!40014 SET @OLD_FOREIGN_KEY_CHECKS=@@FOREIGN_KEY_CHECKS, FOREIGN_KEY_CHECKS=0 */;  
/*!40101 SET @OLD_SQL_MODE=@@SQL_MODE, SQL_MODE='NO_AUTO_VALUE_ON_ZERO' */;  
/*!40111 SET @OLD_SQL_NOTES=@@SQL_NOTES, SQL_NOTES=0 */;  
--  
-- Current Database: `cafe_db`  
--  
/*!40000 DROP DATABASE IF EXISTS `cafe_db`*/;  
  
CREATE DATABASE /*!32312 IF NOT EXISTS*/ `cafe_db` /*!40100 DEFAULT CHARACTER SET latin1 */;  
;  
USE `cafe_db`;  
--  
-- Table structure for table `order`  
--  
DROP TABLE IF EXISTS `order`;  
/*!40101 SET @saved_cs_client      = @@character_set_client */;  
/*!40101 SET character_set_client = utf8 */;  
CREATE TABLE `order` (  
  `order_number` int(5) NOT NULL AUTO INCREMENT,  
  `order_date_time` timestamp NOT NULL DEFAULT current_timestamp(),  
  `amount` decimal(10,2) NOT NULL DEFAULT 0.00,  
  PRIMARY KEY (`order_number`)  
) ENGINE=InnoDB AUTO_INCREMENT=2 DEFAULT CHARSET=latin1;  
/*!40101 SET character_set_client = @saved_cs_client */;  
--  
-- Dumping data for table `order`  
--  
LOCK TABLES `order` WRITE;  
/*!40000 ALTER TABLE `order` DISABLE KEYS */;  
INSERT INTO `order` VALUES (1,'2023-03-20 06:39:47',24.50);  
/*!40000 ALTER TABLE `order` ENABLE KEYS */;  
UNLOCK TABLES;
```

RDS &gt; Databases

**Consider creating a Blue/Green Deployment to minimize downtime during upgrades**

You may want to consider using Amazon RDS Blue/Green Deployments and minimize your downtime during upgrades. A Blue/Green Deployment provides a staging environment for changes to production databases. [RDS User Guide](#) [Aurora User Guide](#)

**Databases**☒ Group resources

Modify

Actions ▾

Restore from S3

Create database

&lt; 1 &gt;



DB identifier ▲	Role ▼	Engine ▼	Region & AZ ▼	Size ▼	Status ▼	Actions ▼	CPU
cafedbinstance	Instance	MariaDB	us-west-2a	db.t3.micro	Available	<a href="#">3 Actions</a>	<div><div></div></div> 1.89%

cafedbinstance

Modify

Actions ▼

Summary

DB identifier cafedbinstance	CPU <div><div></div>1.89%</div>	Status ✔ Available	Class db.t3.micro
Role Instance	Current activity <div><div></div>0 Connections</div>	Engine MariaDB	Region & AZ us-west-2a

Connectivity & security

Monitoring

Logs & events

Configuration

Maintenance & backups

Tags

Connectivity & security

Endpoint & port

Endpoint  
cafedbinstance.csreex4oqsja.us-west-2.rds.amazonaws.com

Port  
3306

Networking

Availability Zone  
us-west-2a

VPC  
[Cafe VPC \(vpc-0978770ef2140f934\)](#)

Subnet group  
cafedb subnet group

Subnets  
[subnet-04c75aba1f8b0614f](#)  
[subnet-0d0dfa65ab59eb546](#)

Network type  
IPv4

Security

VPC security groups  
[c69634a1382263l3759861t1w027804905422-CafeSecurityGroup-1CM1U1OF4OEPQ \(sg-0cbfe1985e61bfad8\)](#)  
✔ Active

Publicly accessible  
No

Certificate authority [Info](#)  
rds-ca-2019

Certificate authority date  
August 22, 2024, 18:08 (UTC+01:00)

DB instance certificate expiration date  
August 22, 2024, 18:08 (UTC+01:00)

**Consider creating a Blue/Green Deployment to minimize downtime during upgrades**

You may want to consider using Amazon RDS Blue/Green Deployments and minimize your downtime during upgrades. A Blue/Green Deployment provides a staging environment for changes to production databases. [RDS User Guide](#) [Aurora User Guide](#)

**Databases**

Group resources



Modify

Actions ▾

Restore from S3

Create database

Filter by databases

&lt; 1 &gt; ⚙

DB identifier	Role	Engine	Region & AZ	Size	Status	Actions	CPU	Current activity	Maintenance	VPC
cafedbinstance	Instance	MariaDB	us-west-2a	db.t3.micro	Available	3 Actions	1.73%	0 Connections	next window	vpc-09787

ec2-user@ip-10-200-0-111:~

```
ec2-user@ip-10-200-0-111:~  
[ec2-user@ip-10-200-0-111 ~]$ mysqldump --user=root --password='Re:Start!9' \  
> --databases cafe_db --add-drop-database > cafedb-backup.sql  
[ec2-user@ip-10-200-0-111 ~]$ less cafedb-backup.sql  
[ec2-user@ip-10-200-0-111 ~]$ mysql --user=root --password='Re:Start!9' \  
> --host=cafedbinstance.csreex4ogsja.us-west-2.rds.amazonaws.com \  
> < cafedb-backup.sql  
[ec2-user@ip-10-200-0-111 ~]$ mysql --user=root --password='Re:Start!9' \  
> --host=cafedbinstance.csreex4ogsja.us-west-2.rds.amazonaws.com \  
> cafe_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 110  
Server version: 10.5.13-MariaDB-log managed by https://aws.amazon.com/rds/  
  
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 [cafe_db]>
```

```
MariaDB [cafe_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 [cafe_db]>
```



```
MariaDB [cafe_db]> select * from product order by product_name;
```

id	product_name	description	price
product_group	image_url		
3	Chocolate Chip Cookie	Made with Swiss chocolate with a touch of Madagascar vanilla	2.50
1	images/Chocolate-Chip-Cookies.jpg		
7	Coffee	Freshly-ground black or blended Columbian coffee	3.00
2	images/Coffee.jpg		
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		
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		
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		

```
9 rows in set (0.00 sec)
```

My parameters

Search

<input type="checkbox"/>	Name	Tier	Type
<input type="checkbox"/>	/cafe/currency	Standard	String
<input type="checkbox"/>	/cafe/dbName	Standard	String
<input type="checkbox"/>	/cafe/dbPassword	Standard	String
<input type="checkbox"/>	/cafe/dbUrl	Standard	String
<input type="checkbox"/>	/cafe/dbUser	Standard	String
<input type="checkbox"/>	/cafe/showServerInfo	Standard	String
<input type="checkbox"/>	/cafe/timeZone	Standard	String

/cafe/dbUrl

Name  
/cafe/dbUrl

Tier  
Standard

Type  
String

Last modified date  
Mon, 20 Mar 2023 09:29:19 GMT

Value  
ec2-35-166-165-240.us-west-2.compute.amazonaws.com

## Edit parameter

### Parameter details

Name

/cafe/dbUrl

Description — *Optional*

Database URL

Tier

Parameter Store offers standard and advanced parameters.

Standard

Limit of 10,000 parameters. Parameter value size up to 4 KB. Parameter policies are not available. No additional charge.

Advanced

Can create more than 10,000 parameters. Parameter value size up to 8 KB. Parameter policies are available. Charges apply

Type

String

Data type

text

Value

ec2-35-166-165-240.us-west-2.compute.amazonaws.com

Maximum length 4096 characters.

Cancel Save changes

✔ Edit parameter request succeeded

AWS Systems Manager > Parameter Store

My parameters

Public parameters

Settings

My parameters

Search

	Name	Tier	Type
<input type="checkbox"/>	/cafe/currency	Standard	String
<input type="checkbox"/>	/cafe/dbName	Standard	String
<input type="checkbox"/>	/cafe/dbPassword	Standard	String
<input type="checkbox"/>	/cafe/dbUrl	Standard	String
<input type="checkbox"/>	/cafe/dbUser	Standard	String
<input type="checkbox"/>	/cafe/showServerInfo	Standard	String
<input type="checkbox"/>	/cafe/timeZone	Standard	String

## Edit parameter

### Parameter details

Name

/cafe/dbUrl

Description — *Optional*

Database URL

Tier

Parameter Store offers standard and advanced parameters.

Standard

Limit of 10,000 parameters. Parameter value size up to 4 KB. Parameter policies are not available. No additional charge.

Advanced

Can create more than 10,000 parameters. Parameter value size up to 8 KB. Parameter policies are available. Charges apply

Type

String

Data type

text

Value

cafedbinstance.csreex4oqja.us-west-2.rds.amazonaws.com

Maximum length 4096 characters.

Cancel Save changes

# cafedbinstance

Modify

Actions ▾

## Summary

DB identifier  
cafedbinstance

Role  
Instance

CPU  
 2.23%

Current activity  
 1 Connections

Status  
✔ Available

Engine  
MariaDB

Class  
db.t3.micro

Region & AZ  
us-west-2a

Connectivity & security

Monitoring

Logs & events

Configuration

Maintenance & backups

Tags

## CloudWatch (21)

Legend: 

cafedbinstance

Q

↺

Add instance to compare

Last Hour ▾

Monitoring ▾

<

1

2

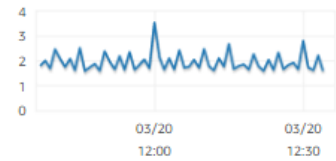
3

4

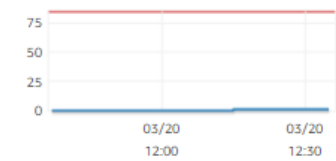
>

⌂

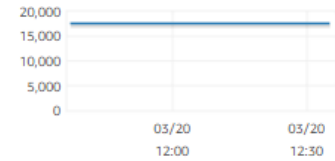
### CPU Utilization (Percent)



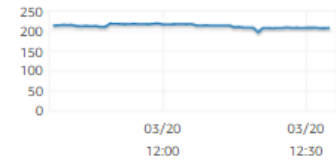
### DB Connections (Count)



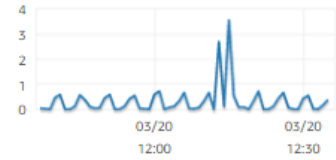
### Free Storage Space (MB)



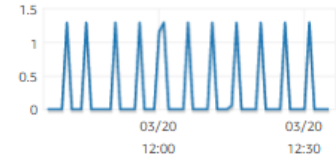
### Freeable Memory (MB)



### Write IOPS (Count/Second)



### Read IOPS (Count/Second)



cafedbinstance

Modify

Actions ▾

Summary

DB identifier cafedbinstance	CPU <div><div></div>1.80%</div>	Status ✔ Available	Class db.t3.micro
Role Instance	Current activity <div><div></div>2 Connections</div>	Engine MariaDB	Region & AZ us-west-2a

Connectivity & security

Monitoring

Logs & events

Configuration

Maintenance & backups

Tags

CloudWatch (21)

Legend: | cafedbinstance

Q

↺

Add instance to compare

Last Hour ▾

Monitoring ▾

<

1

2

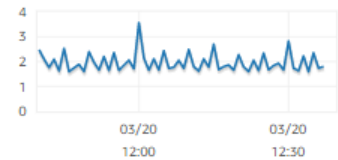
3

4

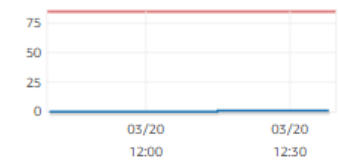
>

ⓘ

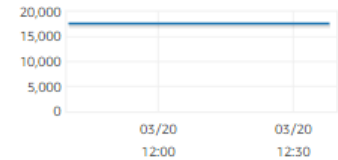
CPU Utilization (Percent)



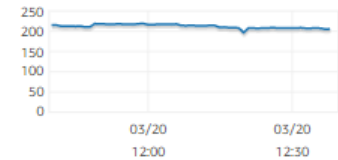
DB Connections (Count)



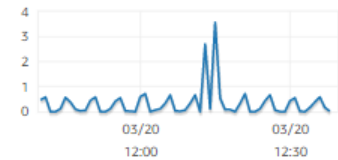
Free Storage Space (MB)



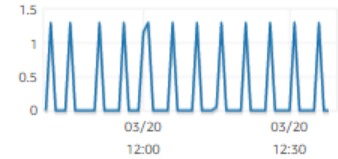
Freeable Memory (MB)



Write IOPS (Count/Second)



Read IOPS (Count/Second)



```
MariaDB [cafe_db]> SHOW DATABASES;
```

```
+-----+  
| Database                |  
+-----+  
| cafe_db                 |  
| information_schema      |  
| innodb                  |  
| mysql                   |  
| performance_schema     |  
+-----+  
5 rows in set (0.00 sec)
```

```
MariaDB [cafe_db]> █
```

```
MariaDB [cafe_db]> use cafe_db;
```

```
Database changed
```

```
MariaDB [cafe_db]> SHOW TABLES;
```

```
+-----+  
| Tables_in_cafe_db      |  
+-----+  
| order                   |  
| order_item              |  
| product                 |  
| product_group           |  
+-----+  
4 rows in set (0.00 sec)
```

```
MariaDB [cafe_db]> █
```

```

MariaDB [cafe_db]> select * from order_item;
+-----+-----+-----+-----+-----+
| order_number | order_item_number | product_id | quantity | amount |
+-----+-----+-----+-----+-----+
| 1 | 1 | 1 | 1 | 1.50 |
| 1 | 2 | 2 | 1 | 1.00 |
| 1 | 3 | 3 | 1 | 2.50 |
| 1 | 4 | 4 | 1 | 3.00 |
| 1 | 5 | 5 | 1 | 3.50 |
| 1 | 6 | 6 | 1 | 3.50 |
| 1 | 7 | 7 | 1 | 3.00 |
| 1 | 8 | 8 | 1 | 3.00 |
| 1 | 9 | 9 | 1 | 3.50 |
| 2 | 1 | 1 | 1 | 1.50 |
| 2 | 2 | 2 | 1 | 1.00 |
| 2 | 3 | 3 | 1 | 2.50 |
| 2 | 4 | 4 | 1 | 3.00 |
| 2 | 5 | 5 | 1 | 3.50 |
| 2 | 6 | 6 | 1 | 3.50 |
| 3 | 1 | 6 | 1 | 3.50 |
| 3 | 2 | 7 | 1 | 3.00 |
| 3 | 3 | 8 | 1 | 3.00 |
| 3 | 4 | 9 | 1 | 3.50 |
| 4 | 1 | 2 | 1 | 1.00 |
| 4 | 2 | 3 | 1 | 2.50 |
| 4 | 3 | 4 | 1 | 3.00 |
| 5 | 1 | 1 | 1 | 1.50 |
| 5 | 2 | 4 | 1 | 3.00 |
| 5 | 3 | 7 | 1 | 3.00 |
| 5 | 4 | 9 | 1 | 3.50 |
+-----+-----+-----+-----+-----+
26 rows in set (0.00 sec)

MariaDB [cafe_db]> 

```

```

MariaDB [cafe_db]> select order_number, count(order_item_number) as items_in_order from order_item group by order_number;
+-----+-----+
| order_number | items_in_order |
+-----+-----+
| 1 | 9 |
| 2 | 6 |
| 3 | 4 |
| 4 | 3 |
| 5 | 4 |
+-----+-----+
5 rows in set (0.00 sec)

MariaDB [cafe_db]> 

```

```
MariaDB [cafe_db]> select order_number,sum(amount)as amount_per_order from order_item group by order_number;
```

```
+-----+-----+
| order_number | amount_per_order |
+-----+-----+
|           1 |           24.50 |
|           2 |           15.00 |
|           3 |           13.00 |
|           4 |            6.50 |
|           5 |           11.00 |
+-----+-----+
```

```
5 rows in set (0.00 sec)
```

```
MariaDB [cafe_db]> 
```

```
MariaDB [cafe_db]> select order_number,sum(amount)as amount_per_order from order_item group by order_number order by amount_per_order desc;
```

```
+-----+-----+
| order_number | amount_per_order |
+-----+-----+
|           1 |           24.50 |
|           2 |           15.00 |
|           3 |           13.00 |
|           5 |           11.00 |
|           4 |            6.50 |
+-----+-----+
```

```
5 rows in set (0.00 sec)
```

```
MariaDB [cafe_db]> 
```



```
MariaDB [cafe_db]> select order_number, product_name, amount from order_item inner join product on order_item.product_id = product.id order by order_number;
```

order_number	product_name	amount
1	Coffee	3.00
1	Muffin	3.00
1	Croissant	1.50
1	Latte	3.50
1	Strawberry Tart	3.50
1	Chocolate Chip Cookie	2.50
1	Hot Chocolate	3.00
1	Donut	1.00
1	Strawberry Blueberry Tart	3.50
2	Strawberry Blueberry Tart	3.50
2	Muffin	3.00
2	Croissant	1.50
2	Strawberry Tart	3.50
2	Chocolate Chip Cookie	2.50
2	Donut	1.00
3	Coffee	3.00
3	Latte	3.50
3	Strawberry Tart	3.50
3	Hot Chocolate	3.00
4	Donut	1.00
4	Muffin	3.00
4	Chocolate Chip Cookie	2.50
5	Coffee	3.00
5	Croissant	1.50
5	Latte	3.50
5	Muffin	3.00

26 rows in set (0.00 sec)

```
MariaDB [cafe_db]>
```

```
MariaDB [cafe_db]> select id, product_name, description, price from product order by product_name, price;
```

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

9 rows in set (0.00 sec)