

# CLOUD COMPUTING

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SRN: PES1UG21CS599

## 1. TASK-1 : Creating an Amazon RDS database

1a. Database Instance Identifier - keep it as pes1ug21csXXX-inventory.

The screenshot shows the AWS Management Console for the 'us-east-1' region. The 'Create DB Instance' wizard is open, and the 'Settings' tab is selected. The 'DB Instance Identifier' is set to 'PES1UG21CS599-inventory2'. The 'Credentials Settings' section shows 'Self managed' as the selected option for the master user 'admin'. The 'Master password' field is filled with a masked password. The 'Confirm master password' field is also filled. The 'MySQL' sidebar on the right provides information about the MySQL database engine.

**Settings**

**DB Instance Identifier** [info](#)  
Type a name for your DB instance. The name must be unique across all DB instances owned by your AWS account in the current AWS Region.  
  
The DB instance identifier is case-insensitive, but is stored as all lowercase (as in "mydbinstance"). Constraints: 1 to 60 alphanumeric characters or hyphens. First character must be a letter. Can't contain two consecutive hyphens. Can't end with a hyphen.

**▼ Credentials Settings**

**Master username** [info](#)  
Type a login ID for the master user of your DB instance.  
  
1 to 16 alphanumeric characters. The first character must be a letter.

**Credentials management**  
You can use AWS Secrets Manager or manage your master user credentials.

☐ **Managed in AWS Secrets Manager - most secure**  
RDS generates a password for you and manages it throughout its lifecycle using AWS Secrets Manager.

☒ **Self managed**  
Create your own password or have RDS create a password that you manage.

☐ **Auto generate password**  
Amazon RDS can generate a password for you, or you can specify your own password.

**Master password** [info](#)  
  
Minimum constraints: At least 8 printable ASCII characters. Can't contain any of the following symbols: / ' \* @

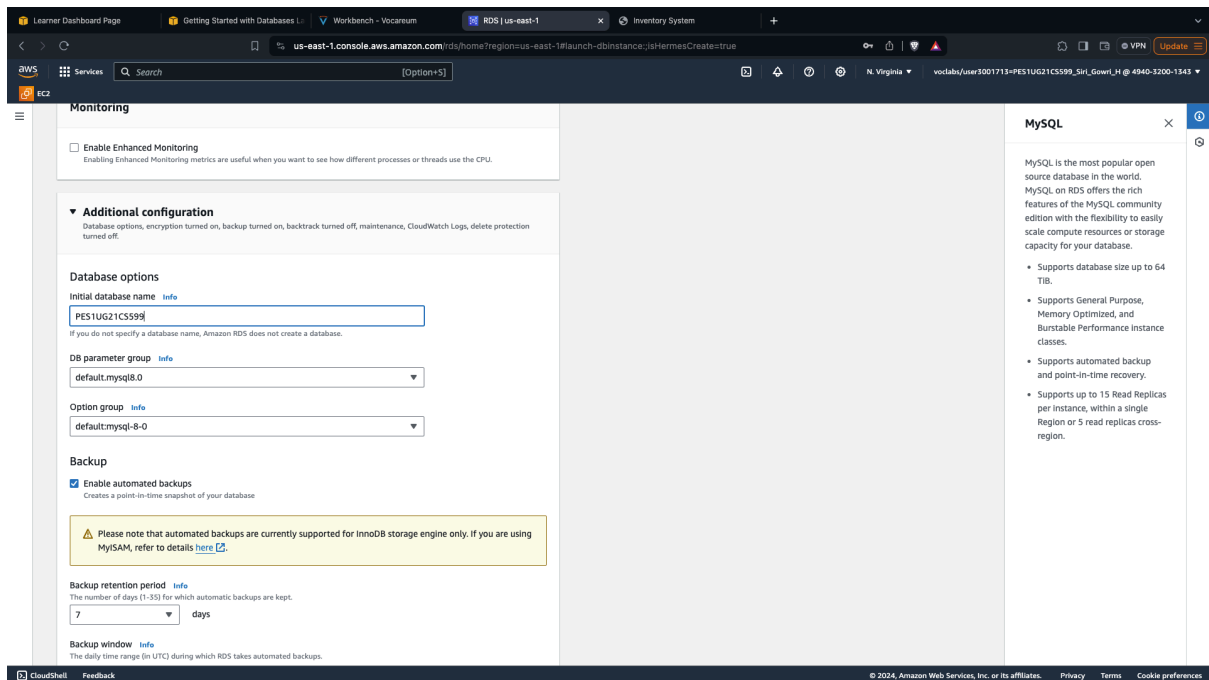
**Confirm master password** [info](#)

**MySQL**

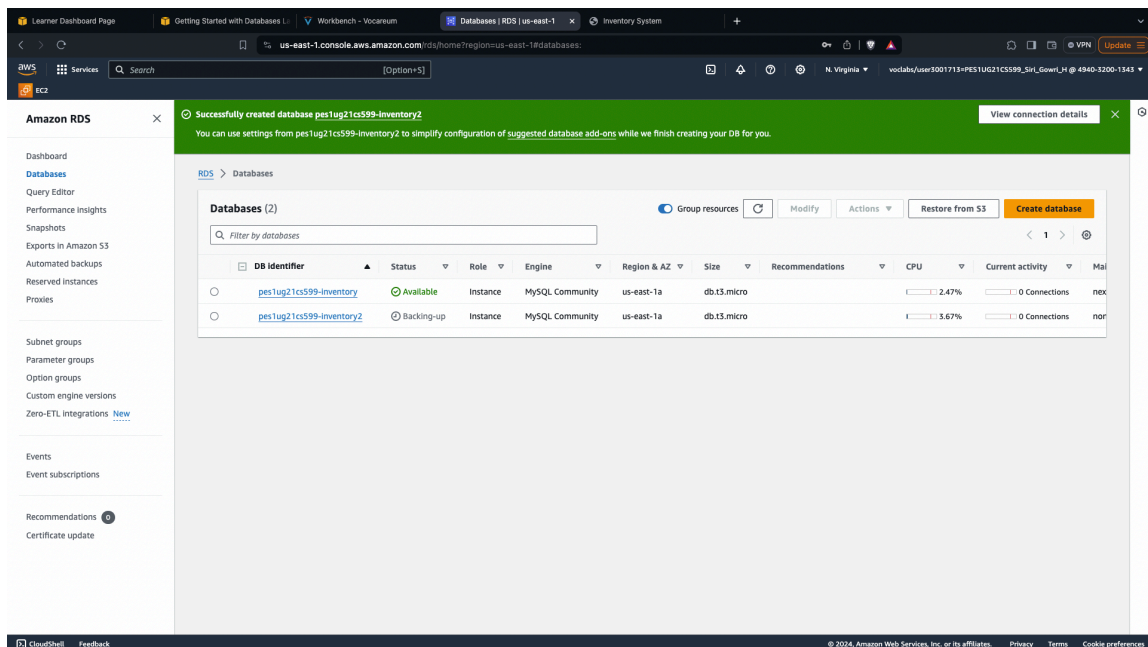
MySQL is the most popular open source database in the world. MySQL on RDS offers the rich features of the MySQL community edition with the flexibility to easily scale compute resources or storage capacity for your database.

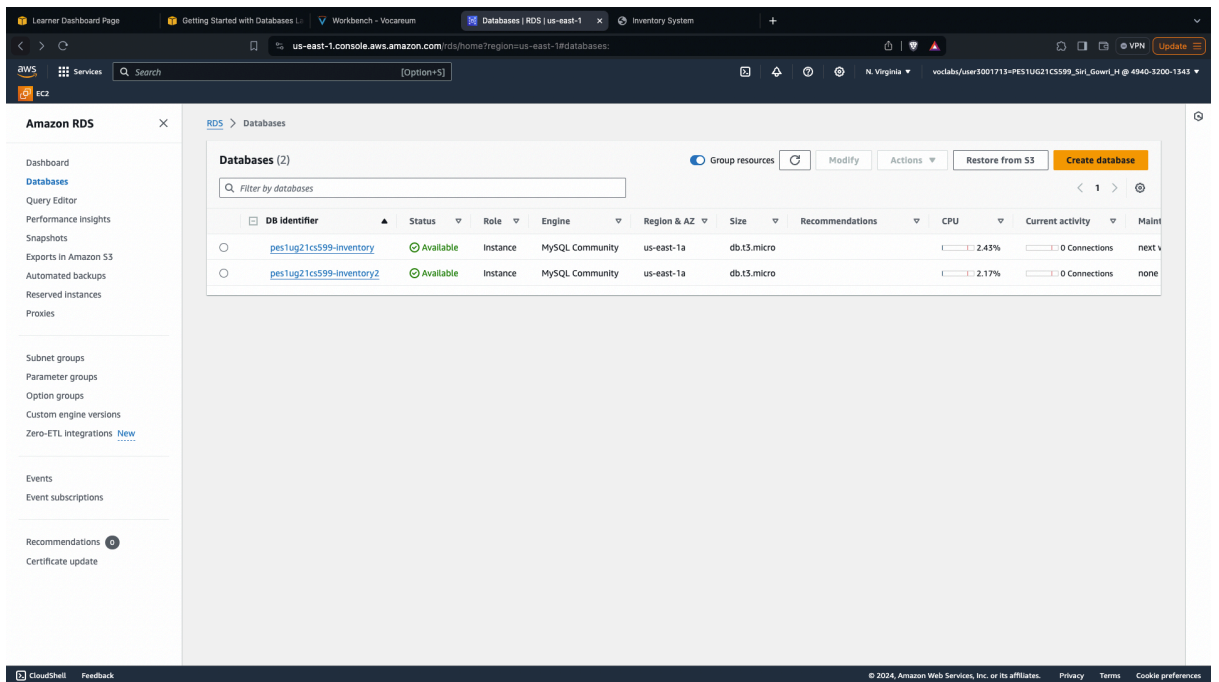
- Supports database size up to 64 TiB.
- Supports General Purpose, Memory Optimized, and Burstable Performance instance classes.
- Supports automated backup and point-in-time recovery.
- Supports up to 15 Read Replicas per instance, within a single Region or 5 read replicas cross-region.

1b. Under Database options, for the Initial database name, enter - pes1ug21csxxx.



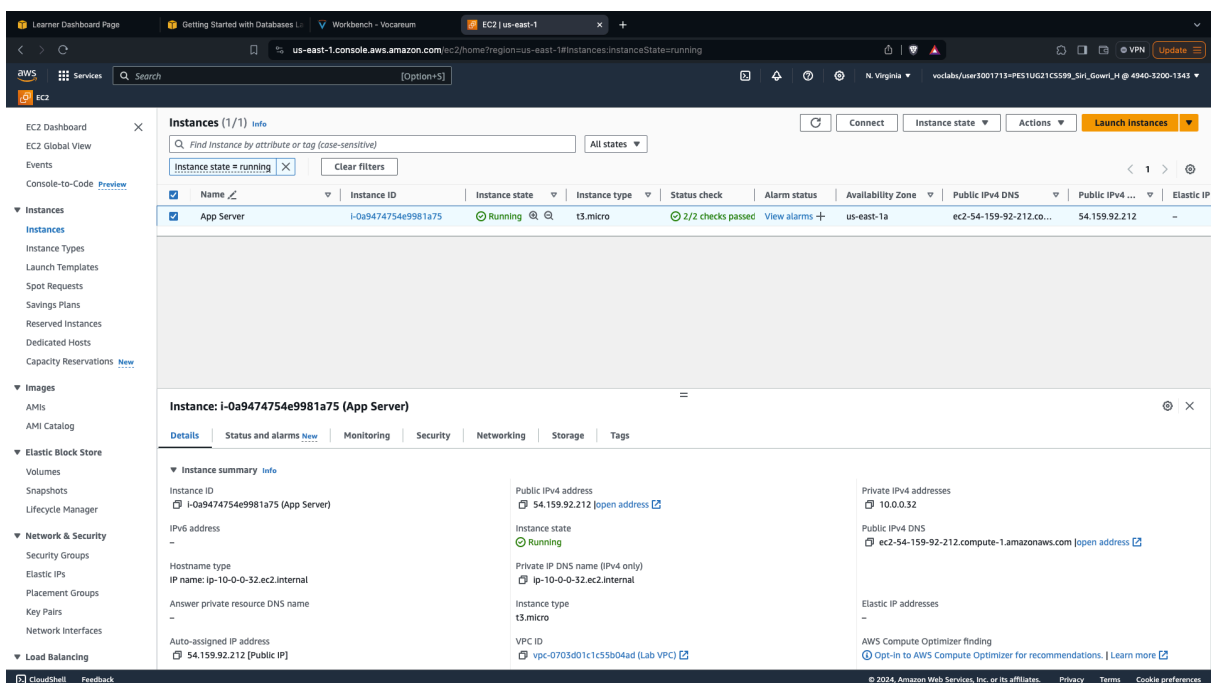
1c. Database created successfully and the status as available.





## TASK-2 : Configuring web application communication with the database instance.

2a. In the center pane, there should be a running instance that is named App Server. application, and enter the following values:

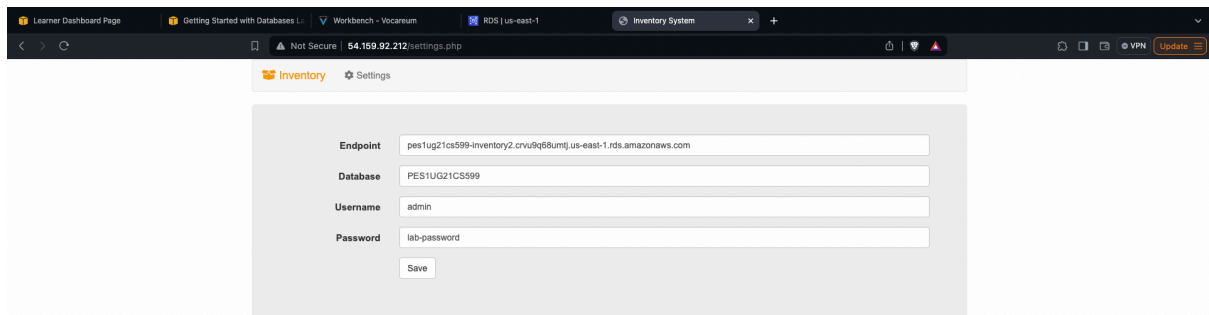


**2b. Return to the browser tab with the inventory application, and enter the following values:**

e.g:

Endpoint: pes1ug21csxxx- inventory-db.crwxbgqad61a.rds.amazonaws.com

Database: PES1UG21CSXXX Username: admin Password: lab-password



Inventory Settings

Endpoint: pes1ug21cs599-inventory2.crvu9q68umtj.us-east-1.rds.amazonaws.com

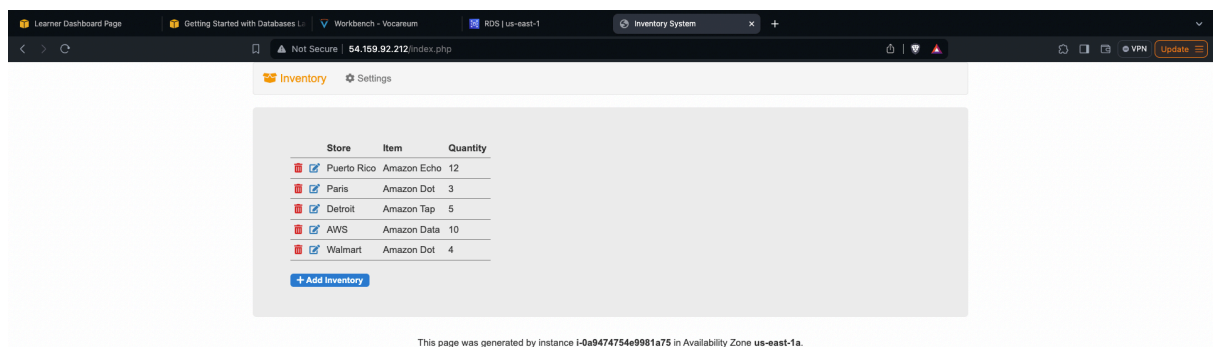
Database: PES1UG21CS599






Username: admin

Password: lab-password

Save

**2c. Inventory table:**

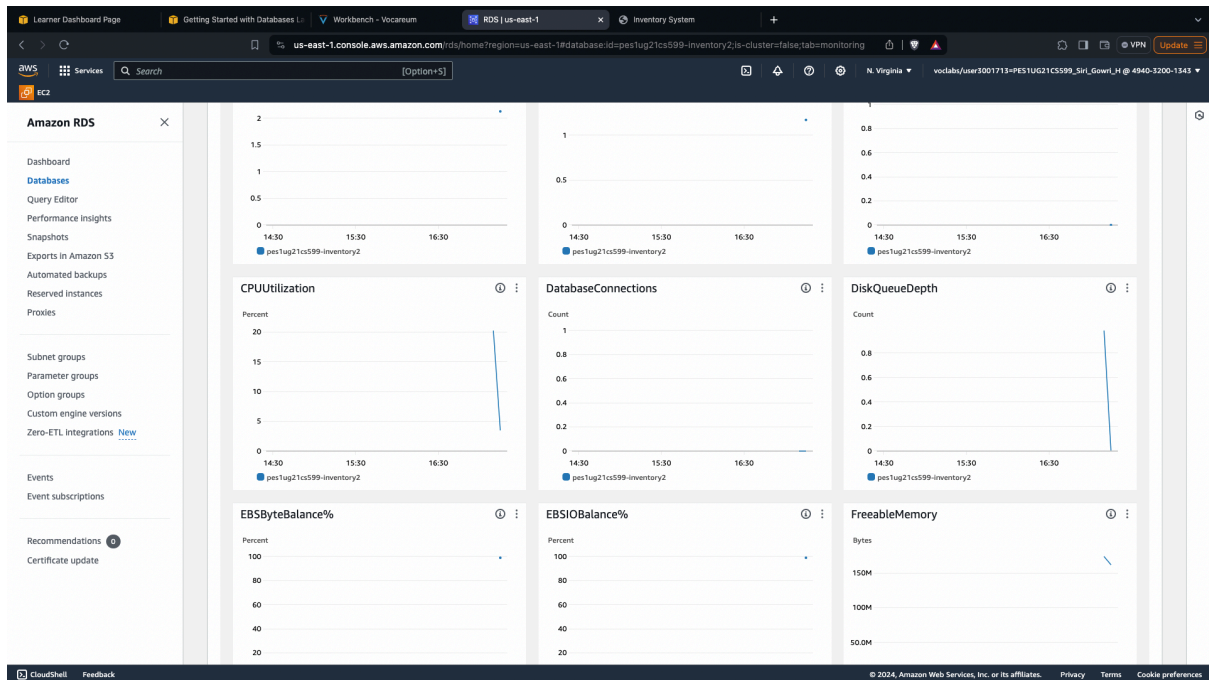


Store	Item	Quantity
 Puerto Rico	Amazon Echo	12
 Paris	Amazon Dot	3
 Detroit	Amazon Tap	5
 AWS	Amazon Data	10
 Walmart	Amazon Dot	4

[+ Add Inventory](#)

This page was generated by instance i-0a0474754e9981a75 in Availability Zone us-east-1a.

## TASK-3 : Monitoring the Database Instance:



## TASK-4 : Performing operations on the Database.

The screenshot displays the Amazon RDS console's Databases page. A green banner at the top indicates a warning: "Your database `pes1ug21cs599-inventory2` is stopped temporarily. It will restart automatically after 7 days, on March 26, 2024, 22:56 (UTC+05:30)".

The Databases list shows two instances:

DB identifier	Status	Role	Engine	Region & AZ	Size	Recommendations	CPU	Current activity
<a href="#">pes1ug21cs599-inventory</a>	Available	Instance	MySQL Community	us-east-1a	db.t3.micro		2.39%	0 Connections
<a href="#">pes1ug21cs599-inventory2</a>	Stopped temporarily	Instance	MySQL Community	us-east-1a	db.t3.micro		2.61%	0 Connections

The bottom of the console shows the footer with copyright information for Amazon Web Services, Inc. and links to Privacy, Terms, and Cookie preferences.

TEST:

Learner Dashboard Page

Final Assessment

EDDBASv1 EN-US KC M02 F...

Workbench - Vocareum

Databases | RDS | us-east-1

Inventory System

+

< > ↺

emergingtalent.contentcontroller.com/ScoreEngineInterface/dispatch/htl/htlDispatch.html?studentId=8fc42ca2-8c62-467a-828b-0eea5b5...

🔍

🔒

VPN

Update

KEYBOARD SHORTCUTS

## Final assessment results

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Your Score: 100% (100 points)

Passing Score: 70% (70 points)

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Result:

Congratulations! You passed.

Review Quiz

Retry Quiz

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