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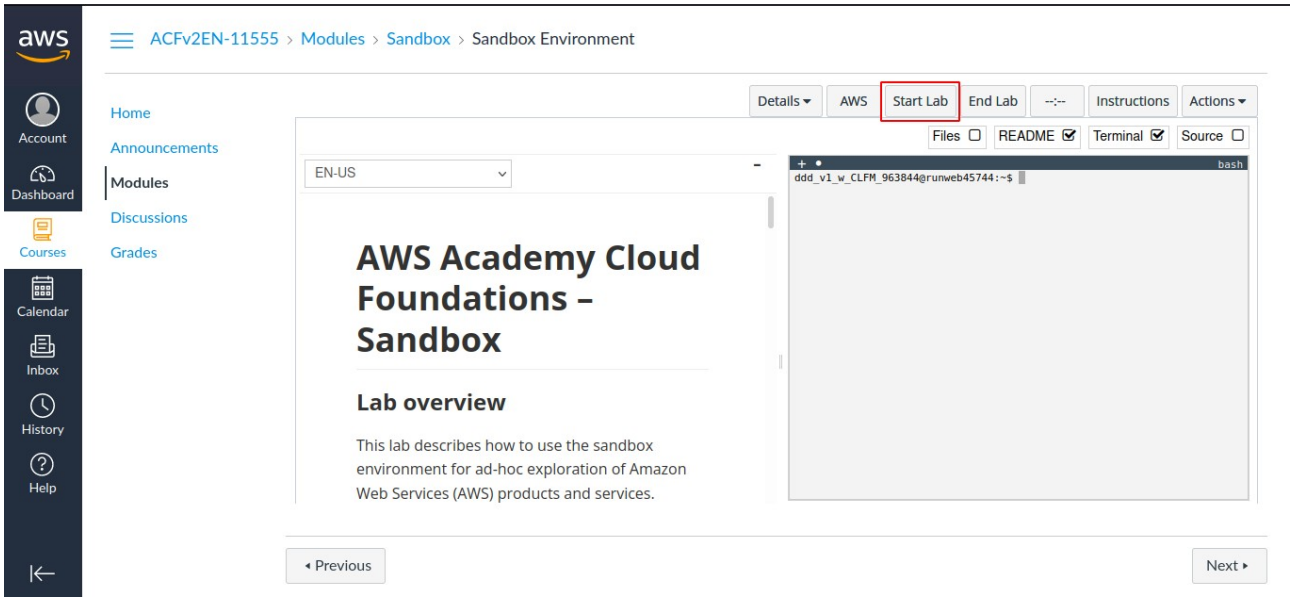
Enroll No: 2002276

Cloud Computing

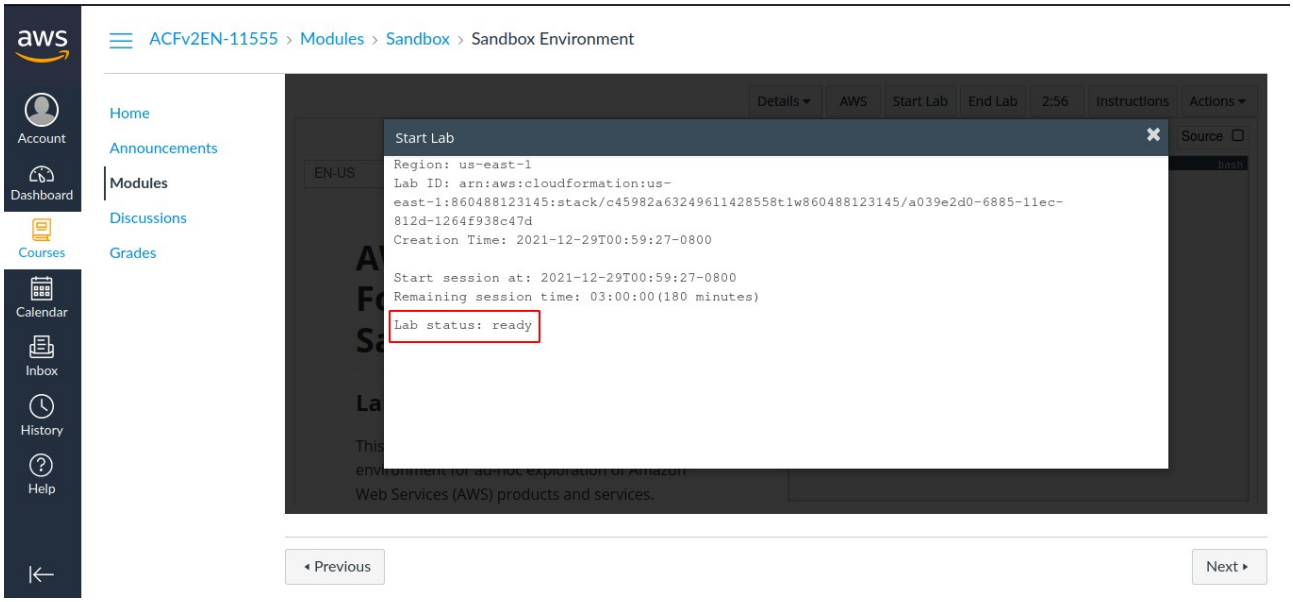
Practical Assignment No. 11

Launch RDS Instance (AWS).

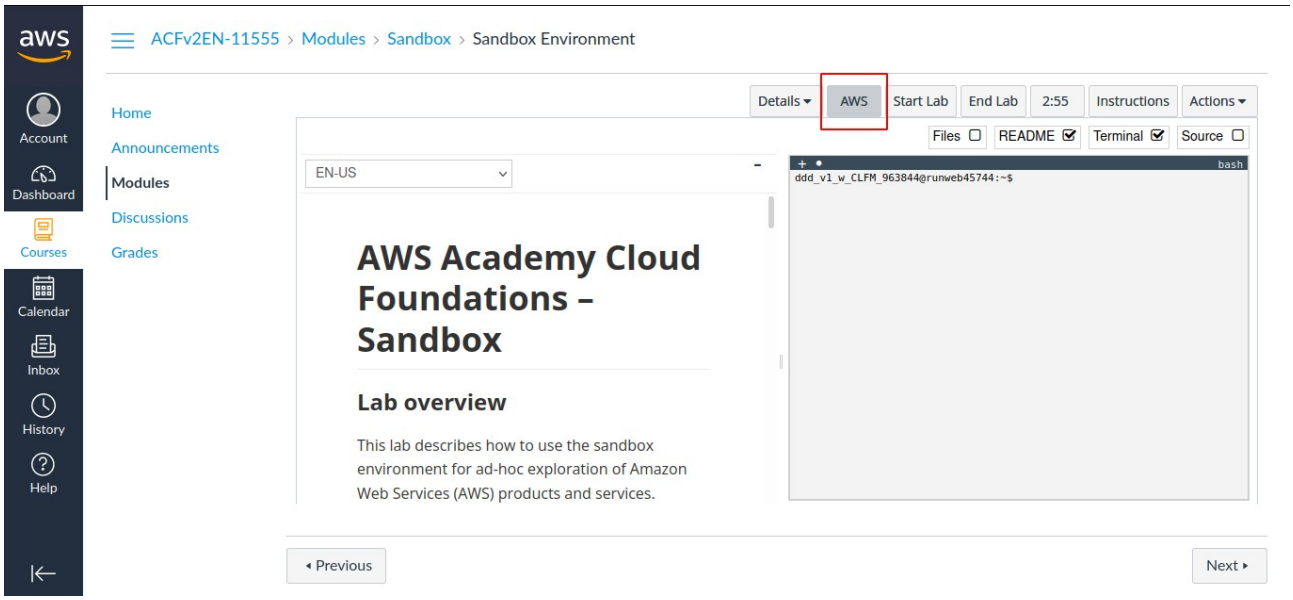
Step 1: At the top right panel above the console, choose **Start Lab** to launch your lab.



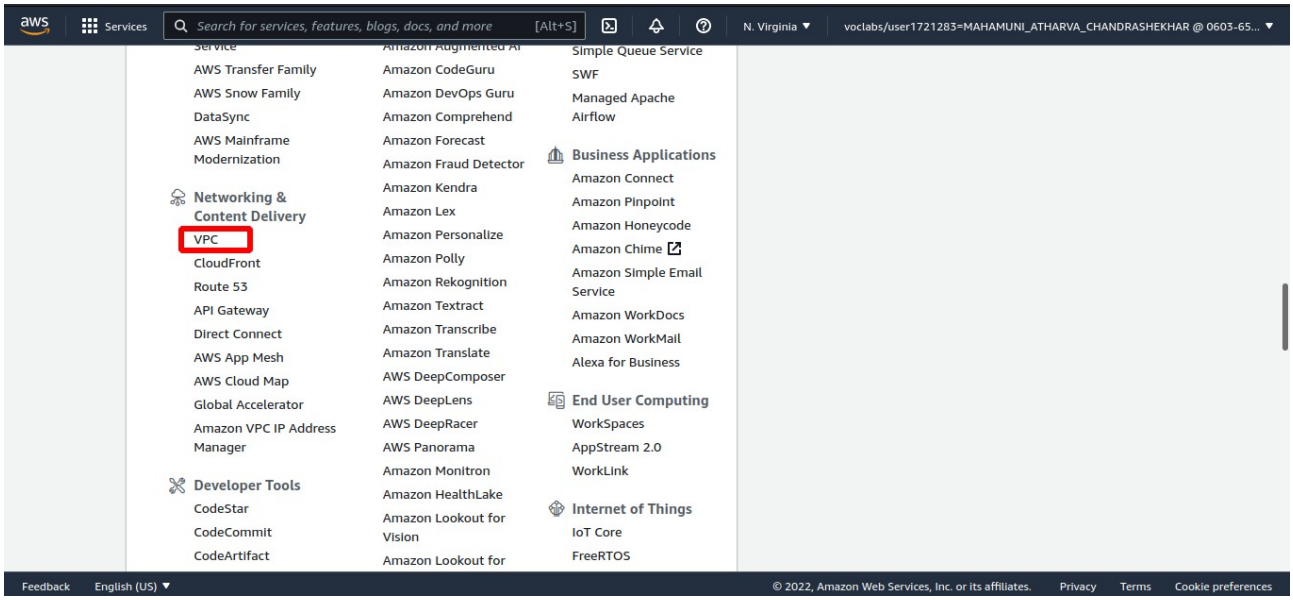
Step 2: Wait until you see the message "**Lab status: ready**", then choose the **X** to close the Start Lab panel.



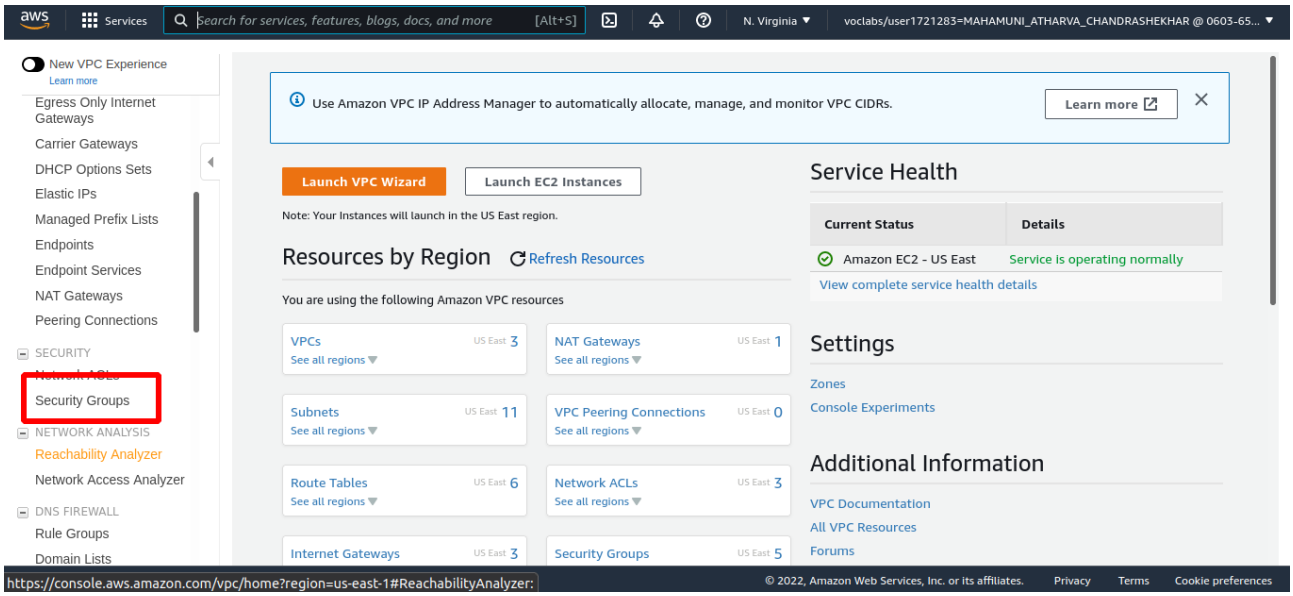
Step 3: Now choose AWS
This will open the AWS Management Console in a new browser tab. The system will automatically log you in.



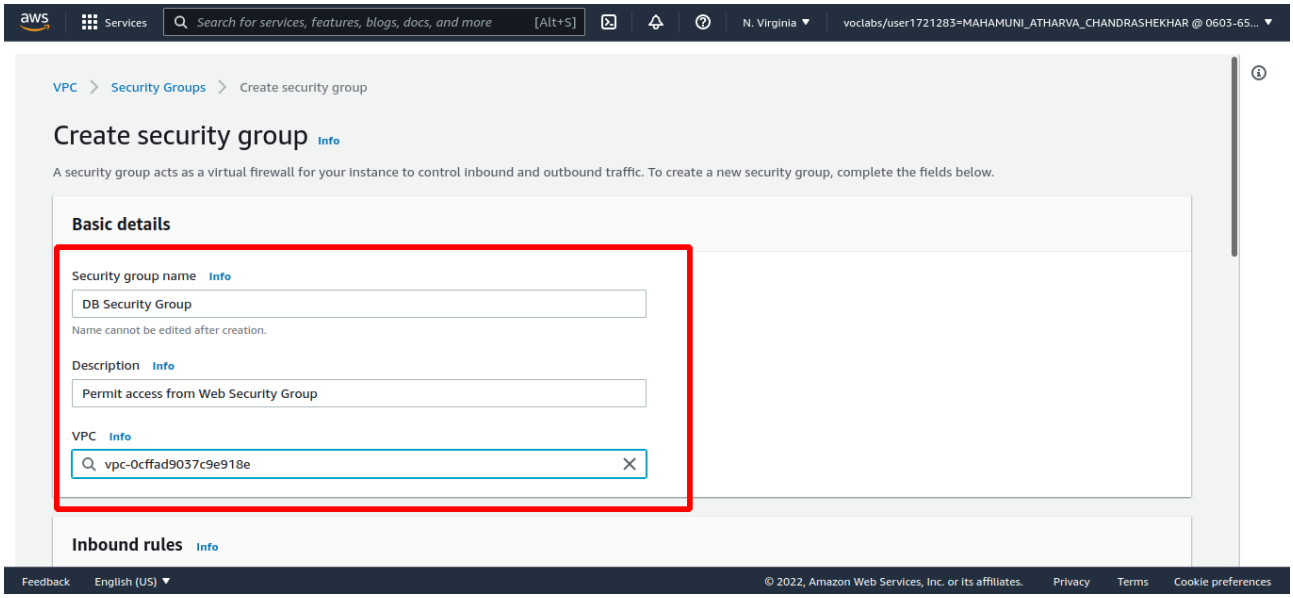
Step 4: In the **AWS Management Console** on the **Services** menu, choose **VPC**.



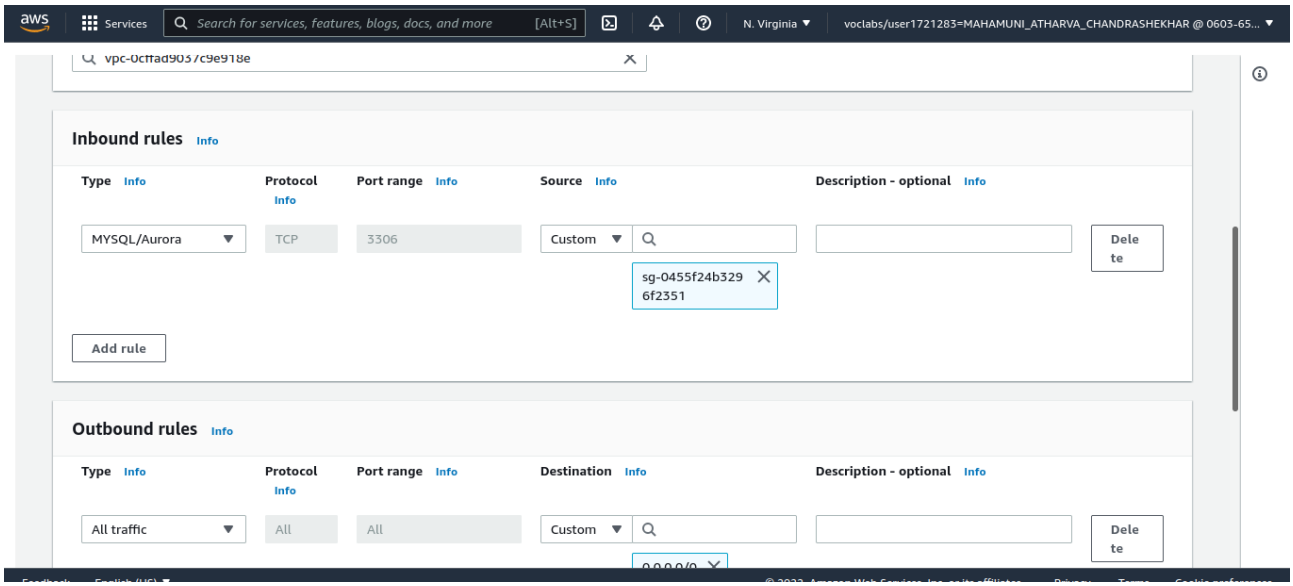
Step 5: In the left navigation pane, choose **Security Groups**.



Step 6: Choose **Create security group** and then configure**:**

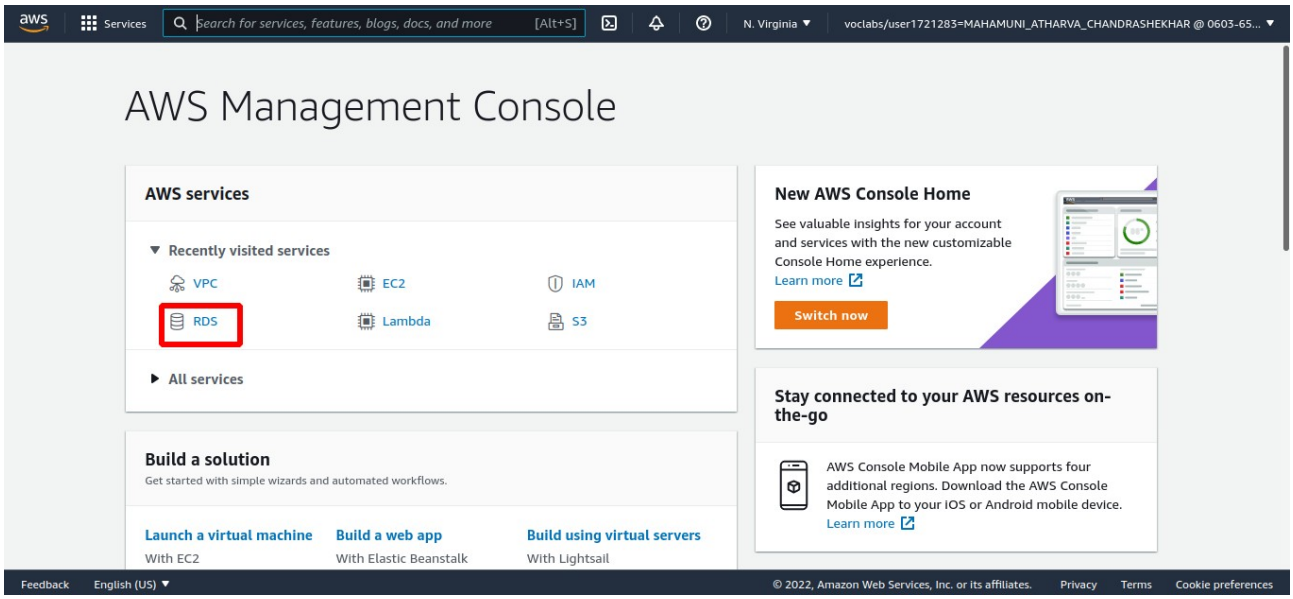


Step 7: In the **Inbound rules** pane, choose Add rule

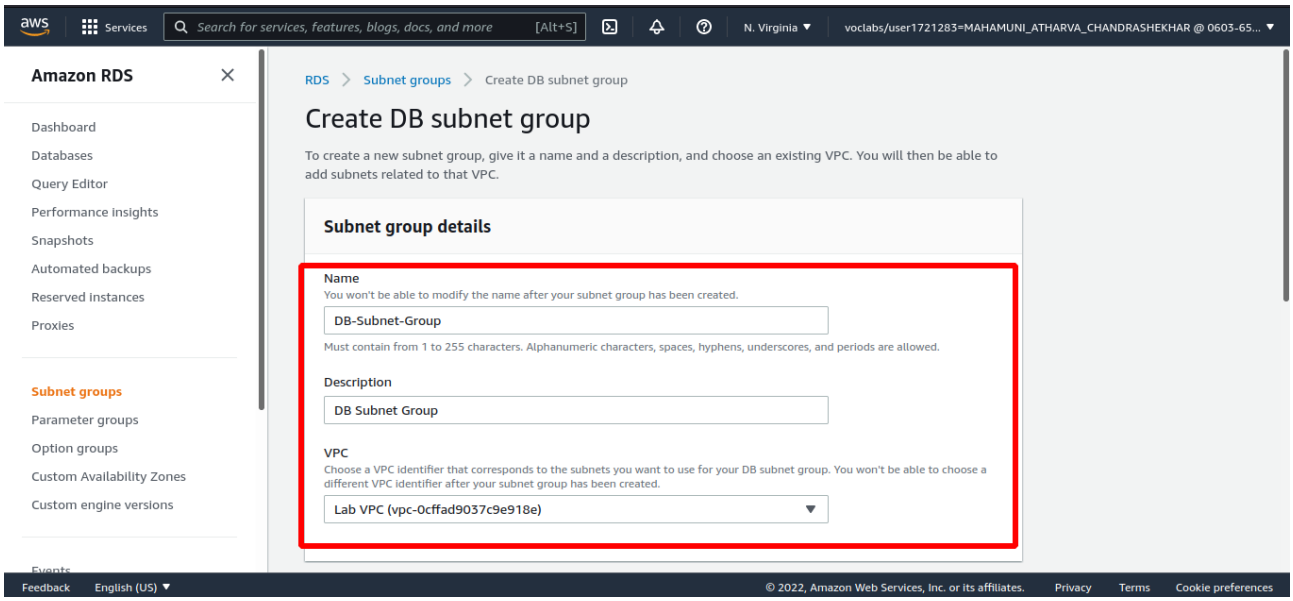


Choose Create security group

Step 8**:** On the Services menu, choose **RDS**.

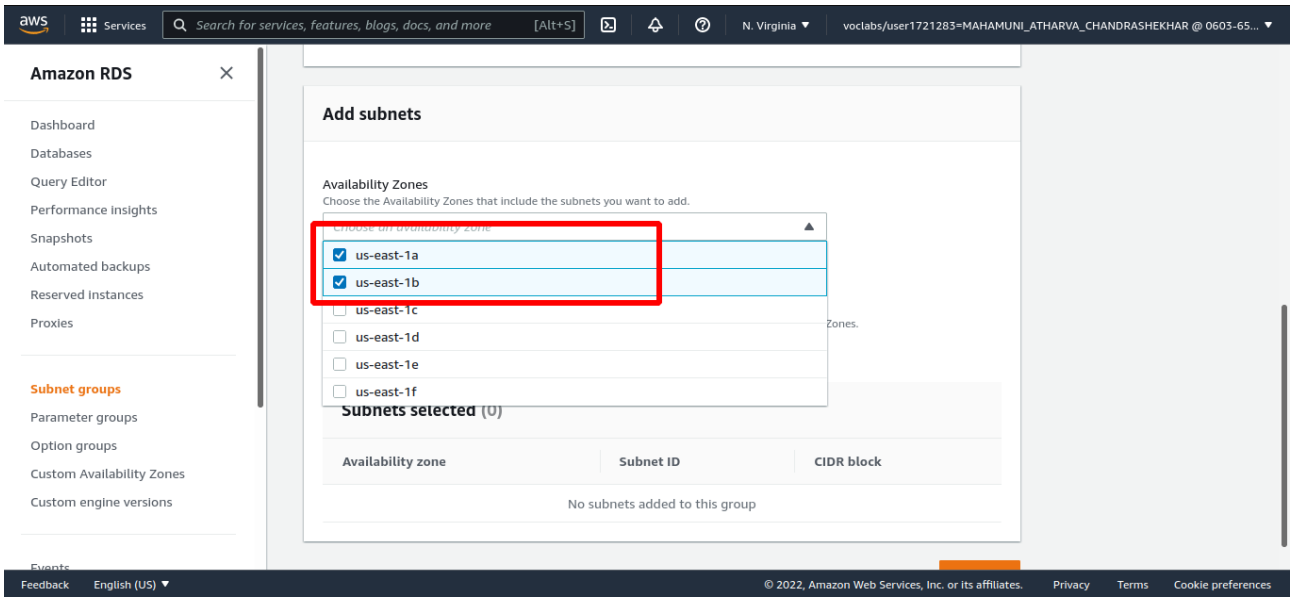


Step 9**:** In the left navigation pane, choose **Subnet groups.**
Choose **Create DB Subnet Group** then configure

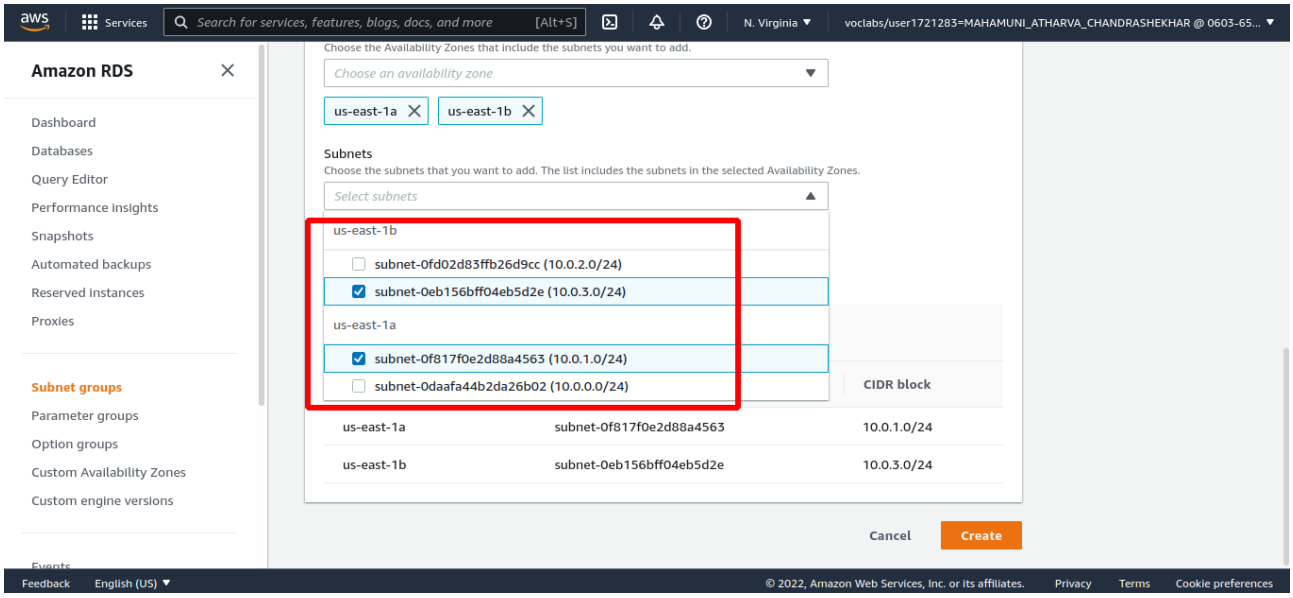


Scroll down to the **Add Subnets** section**.**

Step 10: Expand the list of values under **Availability Zones** and select the first two zones: **us-east-1a** and **us-east-1b**.



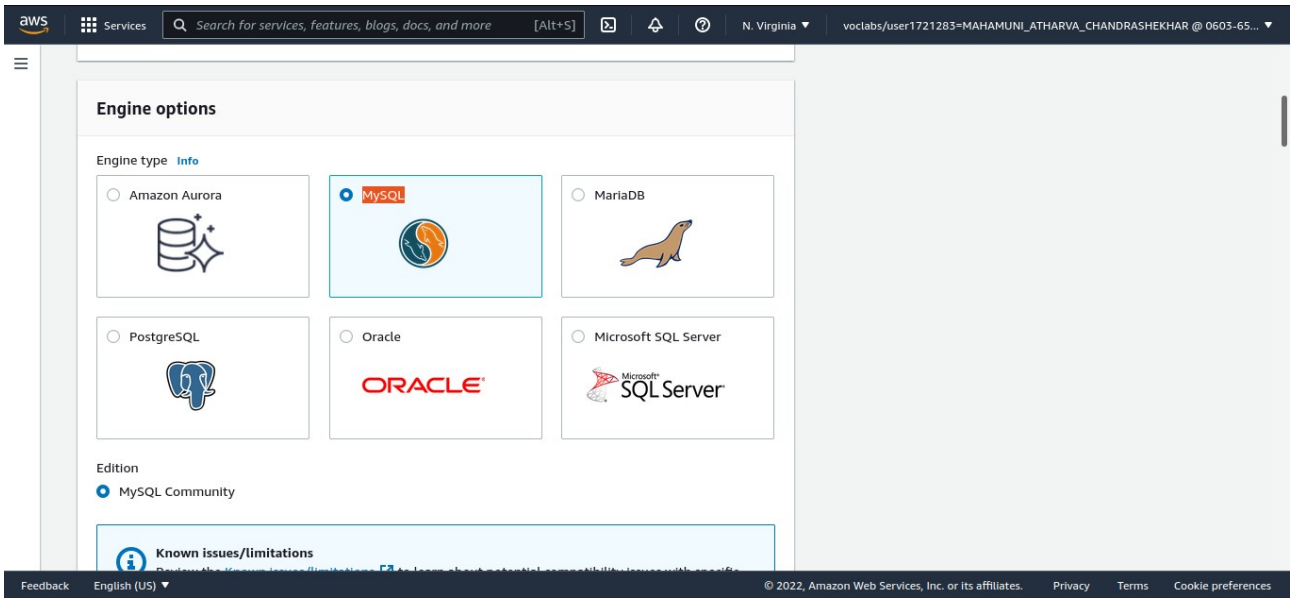
Step 11: Expand the list of values under **Subnets** and select the subnets associated with the CIDR ranges **10.0.1.0/24** and **10.0.3.0/24**.



Choose Create

Step 12: In the left navigation pane, choose **Databases**. Choose **Create database**
Select MySQL.

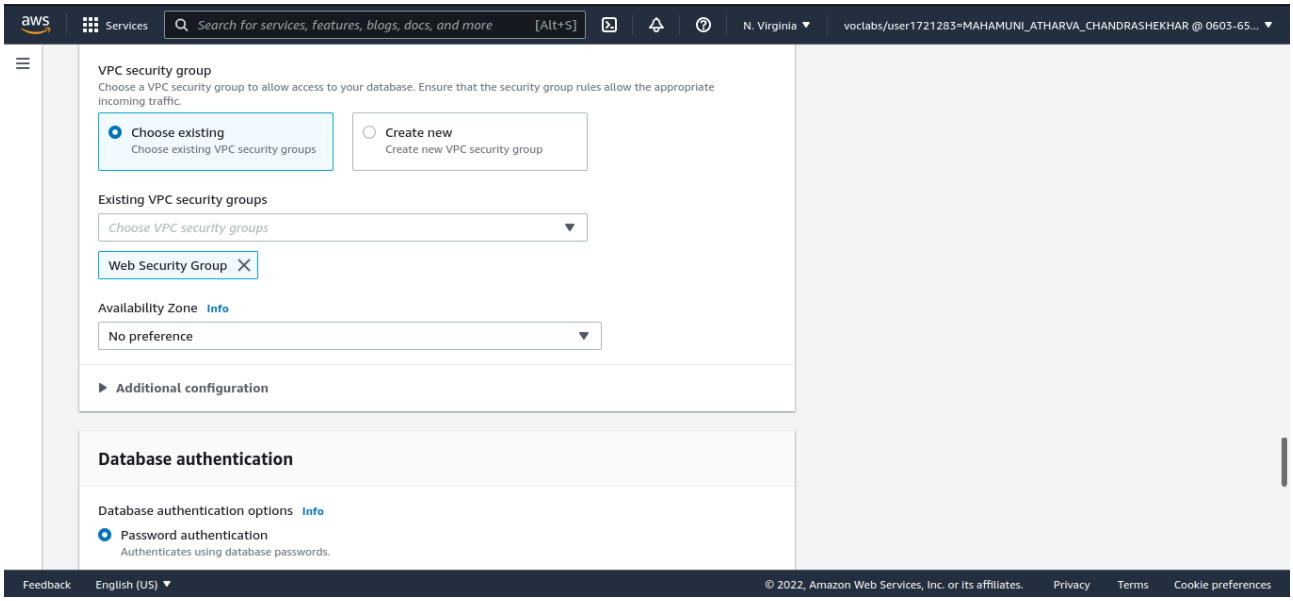
- Under **Settings**, configure:



Step 13:

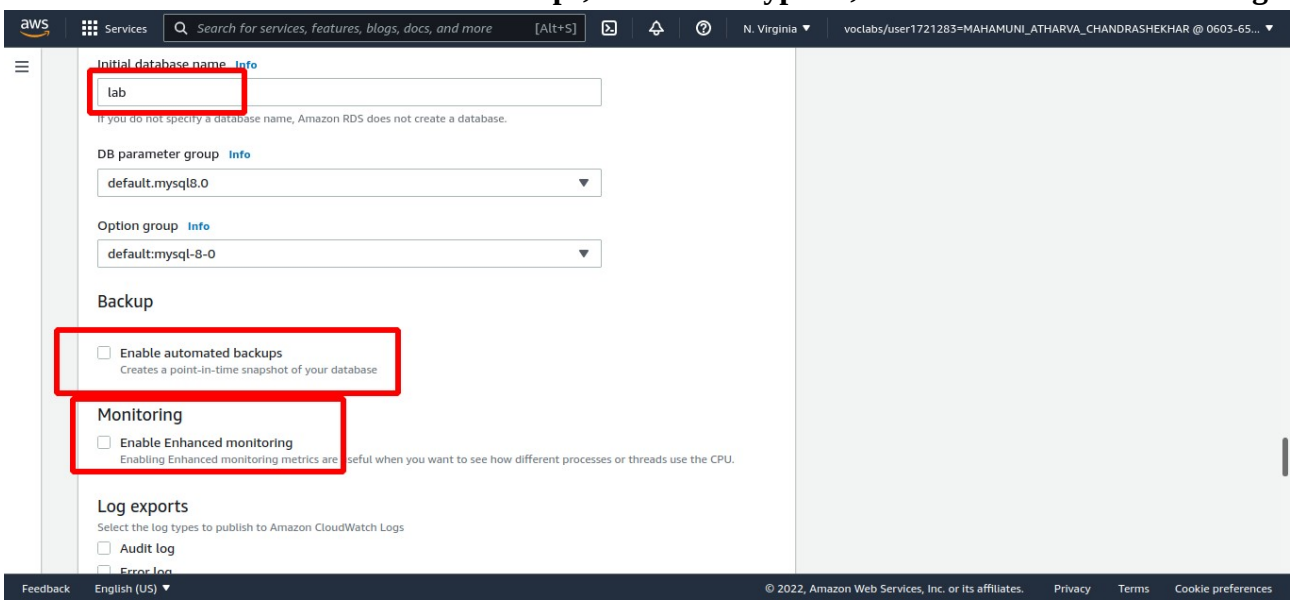
- **DB instance identifier:** `lab-db`
- **Master username:** `main`
- **Master password:** `lab-password`
- **Confirm password:** `lab-password`
- **`Virtual Private Cloud (VPC):`** *`Lab VPC`*

  `Under` **`Existing VPC security groups`**`, from the dropdown list:`
- Choose *DB Security Group*.
- Deselect *default*.

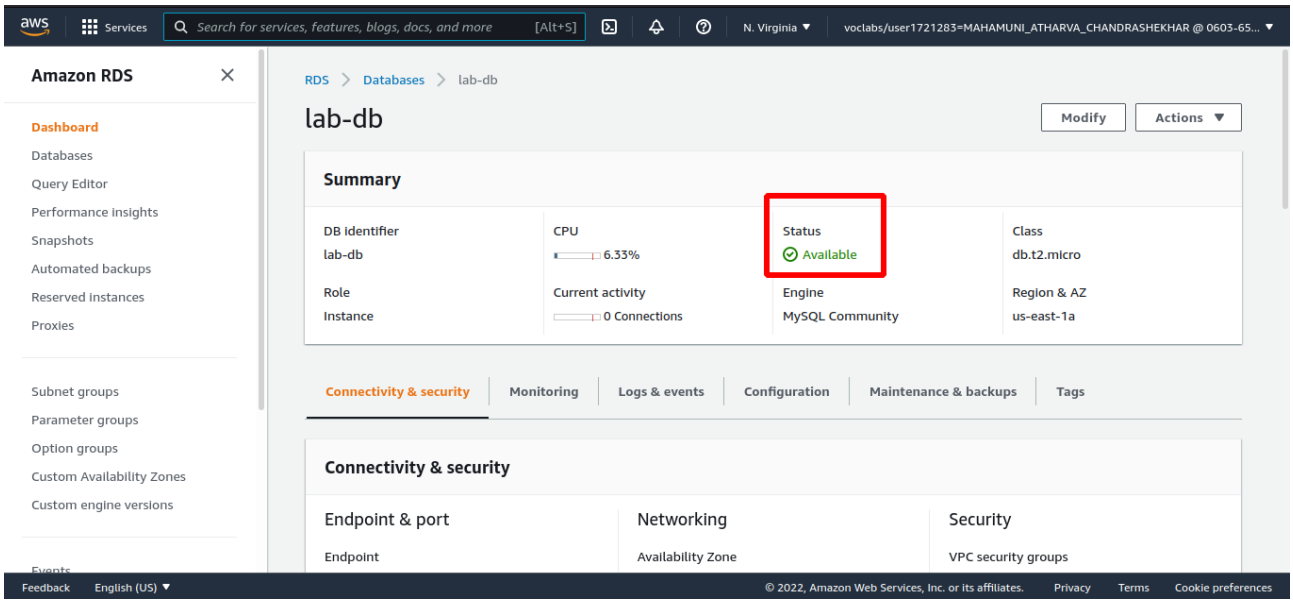


Step 14: Expand **Additional configuration**, then configure:

- **Initial database name:** `lab`
- Uncheck **Enable automatic backups, Enable encryption, Enable Enhanced monitoring**

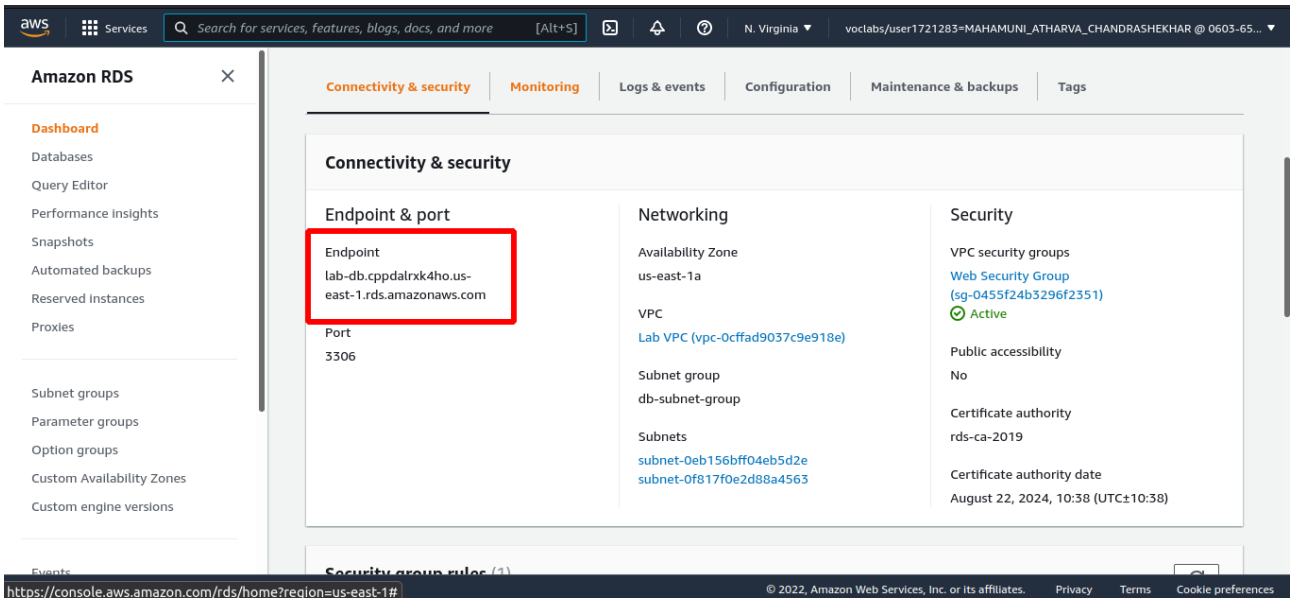


Step 15: Choose Create database, Choose **lab-db** (choose the link itself).
Wait until **Info** changes to **Modifying** or **Available**.

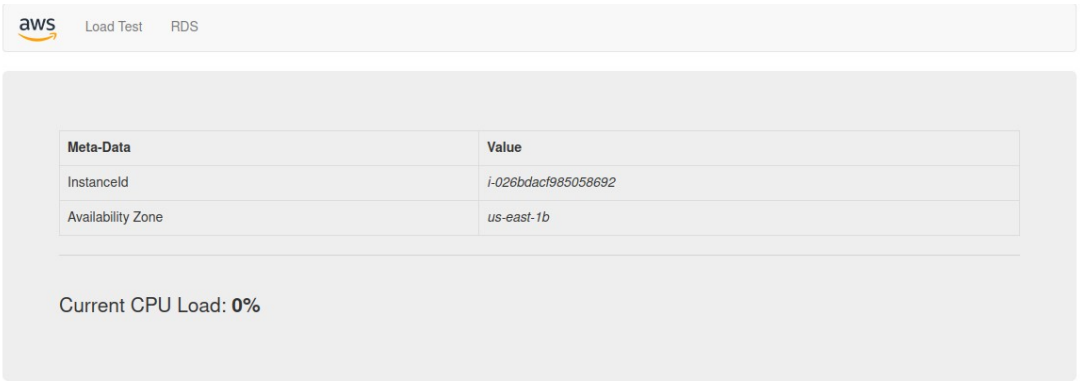


Step 16: Scroll down to the **Connectivity & security** section and copy the Endpoint field.

Paste the Endpoint value into a text editor. You will use it later in the lab.



Step 17: Open a new web browser tab, paste the *WebServer* IP address and press Enter.
The web application will be displayed, showing information about the EC2 instance.



Step 18: Choose the **RDS** link at the top of the page.
You will now configure the application to connect to your database.

Configure the following settings:

- **Endpoint:** Paste the Endpoint you copied to a text editor earlier
- **Database:** `lab`
- **Username:** `main`
- **Password:** `lab-password`
- Choose **Submit**