**SCENARIO 2: Upload Logs to MySQL Table VMLogs**

**🔷 Objective:**

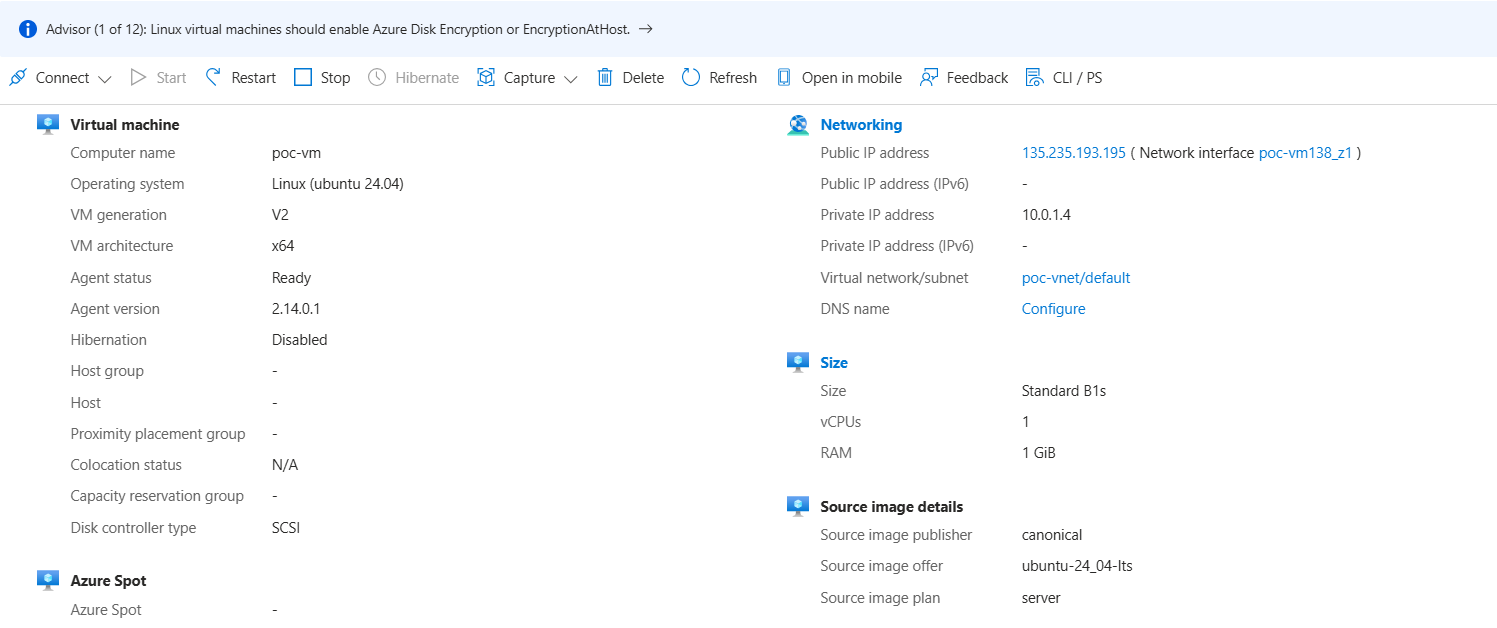
Send daily log data to a MySQL database table.

**💡 Architecture:**

Linux VM → Cron Job → Python Script → MySQL Table (VMLogs)

**🛠️ Implementation:**

* **Provision a Linux VM from Azure.**

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* **Allow Inbound and Outbound Rules**

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* **Access VM using Putty**
* **A computer screen shot of a computer

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* **A black and white screen

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* **Install MySQL client and Python connector on the VM.**

**sudo apt-get update**

**sudo apt-get install mssql-tools unixodbc-dev**

**sudo apt-get install mssql-tools**

**telnet server-mysql.database.windows.net 1433**

**sudo apt-get install -y python3-pip**

**sudo apt install pip3**

**sudo pip3 install pyodbc**

**sudo ACCEPT\_EULA=Y apt-get install msodbcsql17**

* **Python script reads from log file and inserts into table VMLogs**.
* **upload\_logs.py Script Details**

**import pyodbc**

**import os**

**# Get connection details via environment variables for security**

**server = os.getenv('AZURE\_SQL\_SERVER') # e.g., 'yourserver.database.windows.net'**

**database = os.getenv('AZURE\_SQL\_DB') # e.g., 'pocdb'**

**username = os.getenv('AZURE\_SQL\_USER') # e.g., 'sheetal'**

**password = os.getenv('AZURE\_SQL\_PASS')**

**conn\_str = (**

**'DRIVER={ODBC Driver 17 for SQL Server};'**

**f'SERVER={server};DATABASE={database};UID={username};PWD={password};'**

**'Encrypt=yes;TrustServerCertificate=no;Connection Timeout=30;'**

**)**

**conn = pyodbc.connect(conn\_str)**

**cursor = conn.cursor()**

**# Read log file**

**log\_file\_path = '/home/azureuser/logfile.log'**

**with open(log\_file\_path, 'r') as f:**

**for line in f:**

**# Example: store each log line into a table called VMLogs**

**cursor.execute("""**

**INSERT INTO VMLogs (LogText)**

**VALUES (?)**

**""", line.strip())**

**conn.commit()**

**conn.close()**

**print("Logs uploaded successfully")**

* **Steps To run the Script**

**cd /home/azureuser/scripts**

**python3 -m venv venv**

**source venv/bin/activate**

**pip install pyodbc**

**python upload\_logs.py**

* **Set Variables**

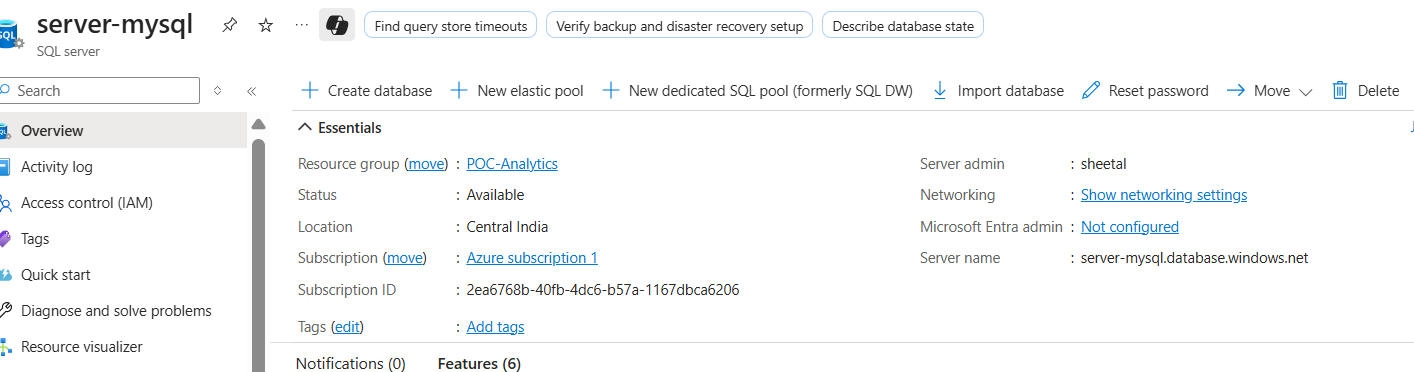
**export AZURE\_SQL\_SERVER="server-mysql.database.windows.net"**

**export AZURE\_SQL\_DB="pocdb"**

**export AZURE\_SQL\_USER="sheetal"**

**export AZURE\_SQL\_PASS="Admin123"**

* **Configure MySQL Server**
* **Create MySQL Server**

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* **Add below settings**
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* **Create SQL Database**
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* **Login with Username and password**
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* **Create VMLogs Table to store the data from python script**
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* **Execute the Python Script**

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* **Output Data into the sql table after script execution**
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