# Linux Environment Setup for E-Commerce Data Pipeline

## 1️⃣ Required Directories

These directories store the source input files and processed output files.

**mkdir -p ~/SourceInputDir/E\_Commerce\_Data  
mkdir -p ~/SourceInputDir/E\_Commerce\_Data/Processed\_Files  
mkdir -p ~/OutputDir/E\_Commerce\_Data**

## 2️⃣ Secure Database Credentials (Avoid Hardcoding Passwords in Code)

### 🔹 MySQL: Configure `.my.cnf` for Secure Login

Create the file in your home directory:

**nano ~/.my.cnf**

Add the following contents:

**[client]  
user=airflow\_user  
password=airflow\_password  
host=localhost  
port=3306  
local\_infile=1**

Save and exit (`Ctrl + X`, then `Y`, then `Enter`).

Now, you can connect to MySQL without entering a password:

**mysql --defaults-extra-file=~/.my.cnf -D airflow\_pipeline**

### 🔹 PostgreSQL: Configure `.pgpass` for Secure Login

Create the file:

**nano ~/.pgpass**

Add the following (replace placeholders with your credentials):

**localhost:5432:airflow\_pipeline:airflow\_user:airflow\_password**

Set proper permissions (required for PostgreSQL to recognize it):

**chmod 600 ~/.pgpass**

Now, you can connect to PostgreSQL without a password:

**psql -U airflow\_user -d airflow\_pipeline**

## 3️⃣ User & Database Creation in MySQL & PostgreSQL

### 🔹 MySQL: Create Database & User

**CREATE DATABASE IF NOT EXISTS airflow\_pipeline;  
CREATE USER IF NOT EXISTS 'airflow\_user'@'localhost' IDENTIFIED BY 'airflow\_password';  
GRANT ALL PRIVILEGES ON airflow\_pipeline.\* TO 'airflow\_user'@'localhost';  
FLUSH PRIVILEGES;**

### 🔹 PostgreSQL: Create Database & User

**CREATE DATABASE airflow\_pipeline;  
CREATE USER airflow\_user WITH PASSWORD 'airflow\_password';  
GRANT ALL PRIVILEGES ON DATABASE airflow\_pipeline TO airflow\_user;**