**Airflow Installation**

**step 1: Install pre-requisites**

**terminal**> sudo apt update

**terminal**> sudo apt install -y --no-install-recommends \

freetds-bin \

ldap-utils \

libffi7 \

libsasl2-2 \

libsasl2-modules \

libssl1.1 \

locales \

lsb-release \

sasl2-bin \

sqlite3 \

unixodbc \

mysql-server \

build-essential \

python3-testresources \

libmysqlclient-dev \

libkrb5-dev

**step 2: Install airflow**

**In ~/.bashrc append,**

alias python='python3'

**Run following commands in new terminal.**

**terminal>** AIRFLOW\_VERSION=2.6.3( Note – For Ubuntu 2024 use command as - AIRFLOW\_VERSION=2.10.4)

**terminal>** PYTHON\_VERSION="$(python --version | cut -d " " -f 2 | cut -d "." -f 1-2)"

**terminal>**

CONSTRAINT\_URL="https://raw.githubusercontent.com/apache/airflow/constraints-${AIRFLOW\_VERSION}/constraints-${PYTHON\_VERSION}.txt"

**terminal**> echo $CONSTRAINT\_URL

**Verify if $CONSTRAINT\_URL is present (hit link in browser).**

**Launchpadlib 1.10.6 requires testresources, so use below command**

**terminal>** sudo apt install python3-testresources

**Continue following commands in the same terminal.**

**terminal**> mkdir ~/airflow

**terminal**> python -m pip install "apache-airflow==${AIRFLOW\_VERSION}" --constraint "${CONSTRAINT\_URL}"

**terminal**> python -m pip install "apache-airflow[

mysql,jdbc,sendgrid,sqlite,hdfs,hive,smtp,kafka]==${AIRFLOW\_VERSION}" --constraint

"${CONSTRAINT\_URL}"

**terminal**> airflow db init( if You are getting Error – MYSQLDB install -sudo apt-get install mysqlclient)

**step 3: Configure airflow metastore into mysql.**

**Login as root into MySQL.**

**terminal>** mysql -u root -p

**Create metastore database and user with appropriate permissions. Give following commands with root user login.**

CREATE DATABASE airflow;

CREATE USER airflow@'%' IDENTIFIED BY 'airflow';

GRANT ALL ON airflow.\* TO airflow@'%';

FLUSH PRIVILEGES;

EXIT;

**step 4: Configure Airflow.**

**In ~/airflow/airflow.cfg**

**Comment**: # sql\_alchemy\_conn = sqlite:////home/sunbeam/airflow/airflow.db

**And** **add**: sql\_alchemy\_conn = mysql://airflow:airflow@localhost:3306/airflow

**Comment** # executor = SequentialExecutor

**And add executor** = LocalExecutor

**Change**: load\_examples = False

**step 5: Start airflow and verify**

**terminal> airflow db init**

**# to reset already created db --> airflow db reset**

**terminal>** airflow users create --username admin --firstname FirstName --lastname LastName --role Admin --email youremail@gmail.com

**#Enter new password for airflow**

password:

**terminal\_1>** airflow webserver

**# In browser: http://localhost:8080/**

**username:** admin

**password:** airflow password

**terminal\_2>** airflow scheduler

**terminal\_3>** ps aux | grep "airflow"