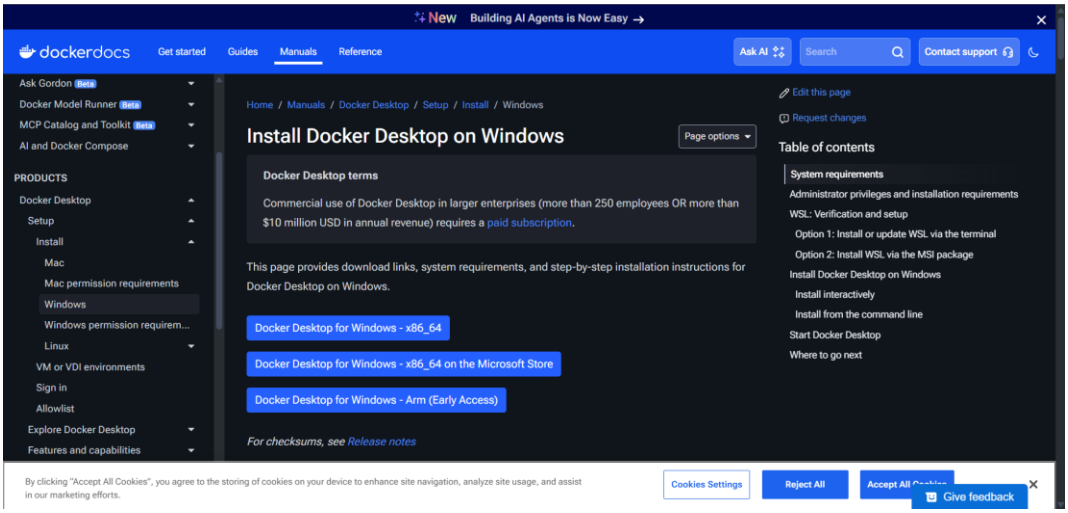
ASSIGNMENT – 1 (Apache Airflow)

TRAINEE NAME: Swathi Baskaran

1. Going to the official website to install Docker



2. Then install Docker Desktop in the preferred directory
3. Install Visual Studio Code
4. Create a folder in Visual Studio Code and create a file called .env and enter the following code in it.

   AIRFLOW_IMAGE_NAME=apache/airflow:2.4.2
   AIRFLOW_UID=50000

5. Enter the following command in VS Code to start all the containers defined in the docker-compose.yaml file that is situated in the same folder as the .env file.

   docker-compose up -d

```
PS C:\Users\swath\Materials> docker-compose up -d
>>
time="2025-08-18T18:17:51+05:30" level=warning msg="C:\\Users\\swath\\Materials\\docker-compose.yaml: the attribute `version` is obsolete, it will be ignored, please remove it to avoid potential confusion"
[+] Running 8/8
 ✓ Network materials_default                Created                                                    0.1s
 ✓ Container materials-redis-1              Healthy                                                    8.1s
 ✓ Container materials-postgres-1           Healthy                                                    8.1s
 ✓ Container materials-airflow-init-1       Exited                                                    36.2s
 ✓ Container materials-airflow-scheduler-1  Started                                                   36.4s
 ✓ Container materials-airflow-triggerer-1  Started                                                   36.4s
 ✓ Container materials-airflow-webserver-1  Started                                                   36.3s
 ✓ Container materials-airflow-worker-1     Started                                                   36.4s
```

6. Create admin user using the following command

docker-compose run airflow-worker airflow users create --role Admin --username admin --email admin --firstname admin --lastname admin --password admin

7. To verify if the containers are running, the following command is used.

docker ps

8. Once everything is set, the user can now visit the link http://localhost:8080/ to use the services.