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**SCHOOL OF COMPUTER SCIENCE**

**Docker Lab File**

**Submitted by**

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| **Semester** | **5** |
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**Lab Exercise 3: Working with Docker Volumes**

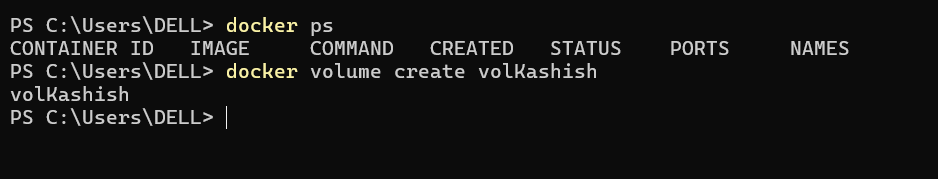
**Objective:**

* Learn how to create and manage Docker volumes.
* Understand how Docker volumes can be used to persist data across container restarts.
* Practice mounting Docker volumes to containers.

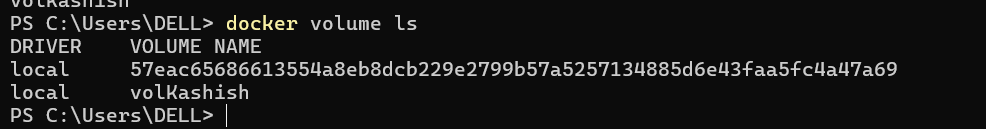
**Prerequisites:**

* Docker installed on your system.
* Basic understanding of Docker commands and container concepts.

**Step 1: Create a Docker Volume**

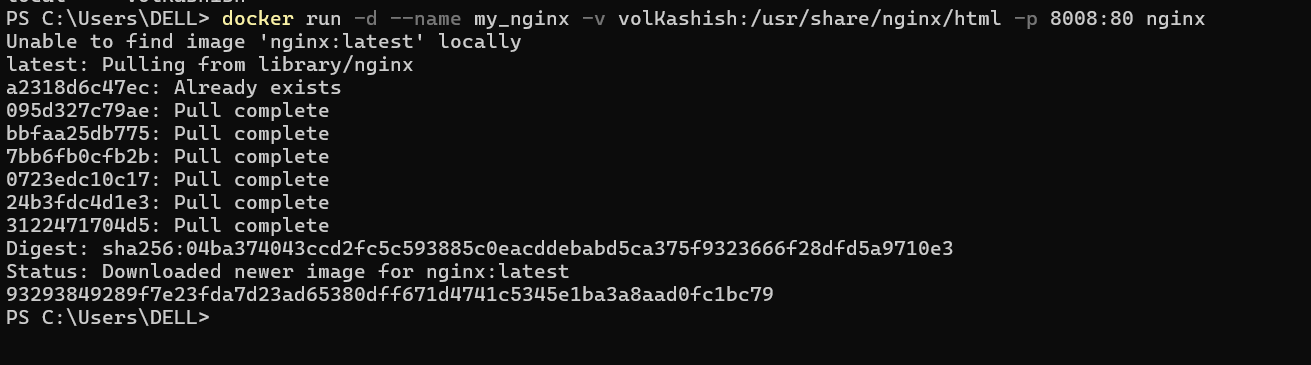
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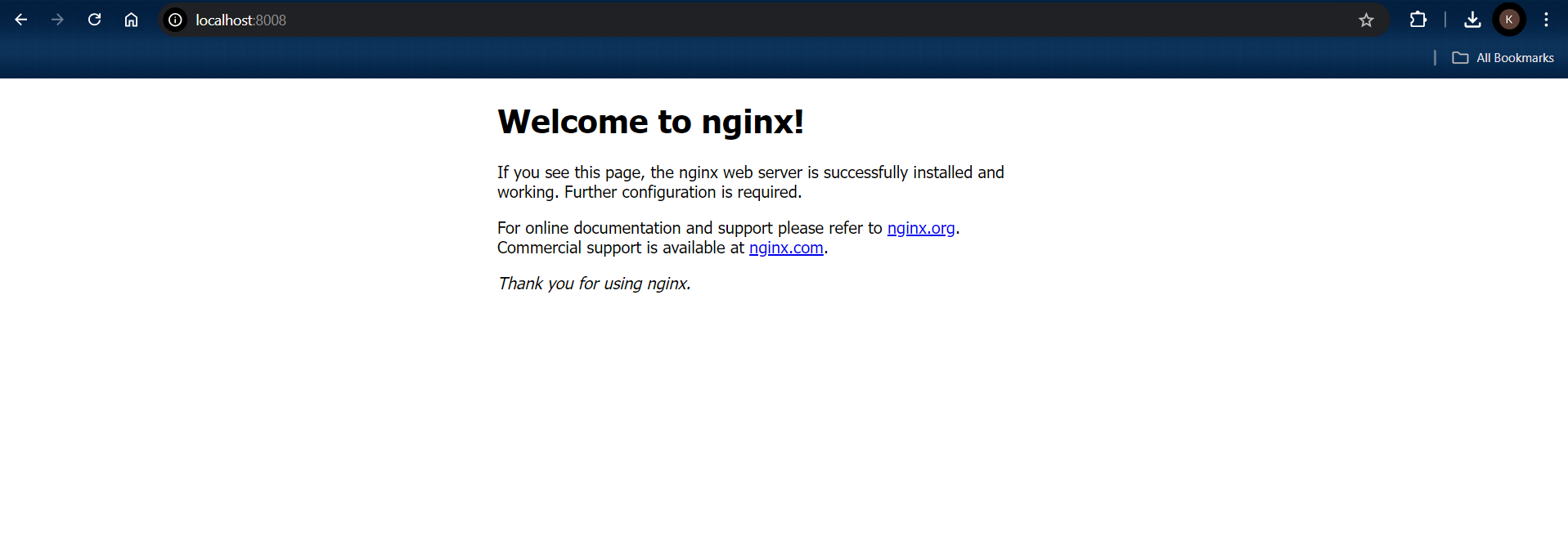
Verify that the volume was created:



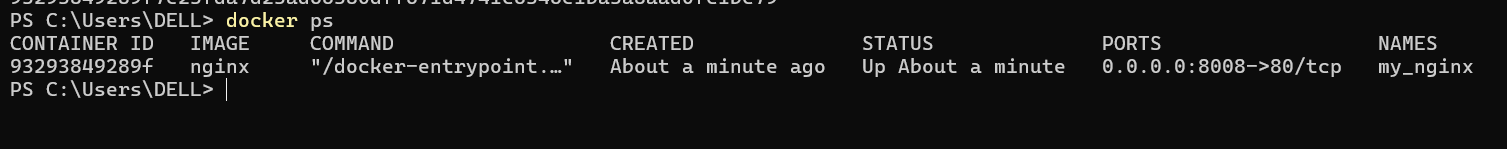
**Step 2: Run a Container with the Volume Mounted**

Run a Nginx container with the volume mounted:



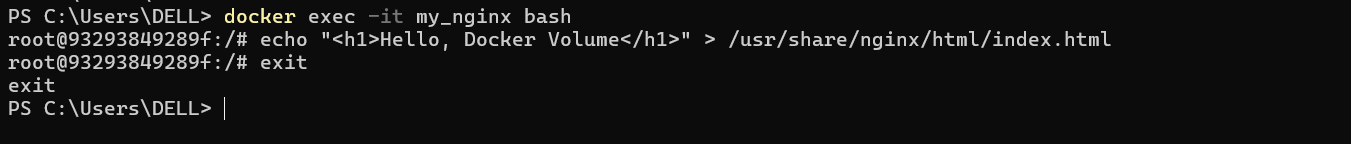


Verify that the container is running:

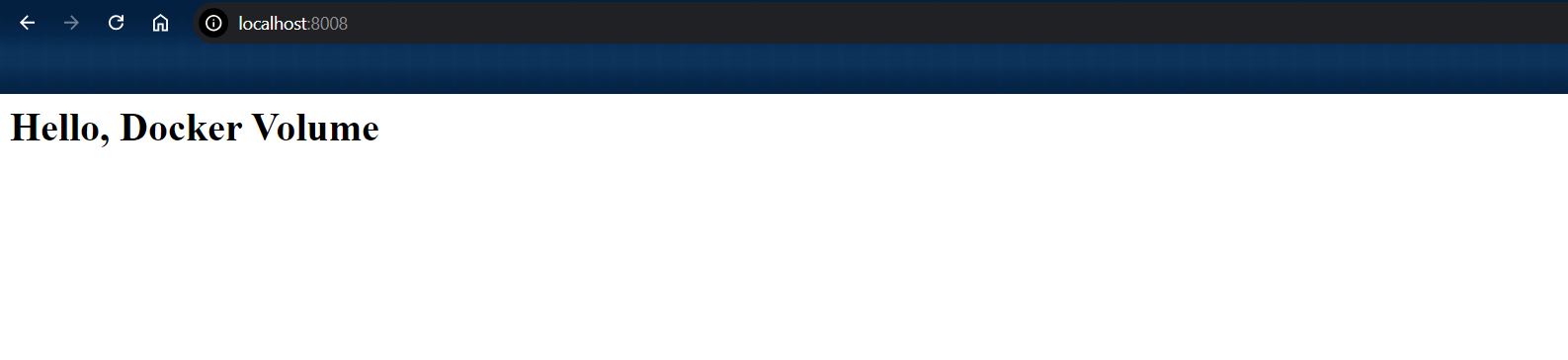


**Step 3: Interact with the Volume**

Create a simple HTML file in the volume:

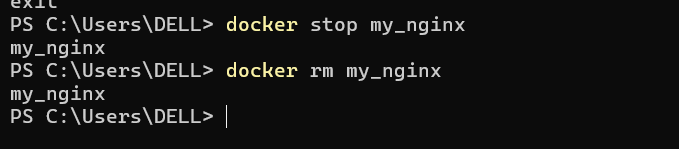


Browser Page

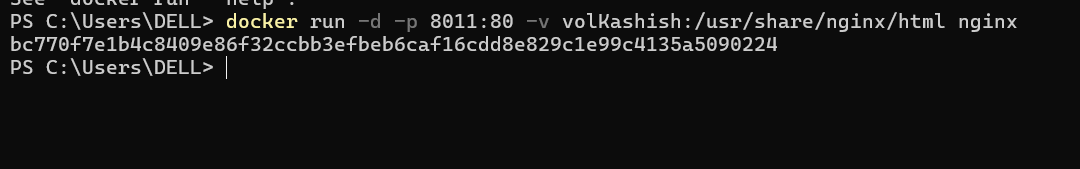


**Step 4: Test Data Persistence**

Stop and remove the container:



Run a new Nginx container using the same volume:



**Step 5: Clean Up**

Stop and remove the container:

Remove the Docker volume:

Verify that the volume is removed:

