**Lesson 02 Demo 04**

**Displaying Layers of a Docker Image**

**Objective:** To display the layered structure of Docker images for providing insight into the hierarchical arrangement of image layers within Docker's architecture

**Tools required:** Ubuntu

**Prerequisites:** None

Steps to be followed:

1. Create and display the layers of a Docker image

**Step 1: Create and display the layers of a Docker image**

1. Create a Docker file with multiple instructions using the following command: **nano Dockerfile**

**A screenshot of a computer

Description automatically generated**

1. Add the following configurations in the **Dockerfile** as shown in the screenshot below:  
   **# Dockerfile**

**FROM ubuntu:latest**

**# Layer 1: Update package lists**

**RUN apt-get update**

**# Layer 2: Install curl**

**RUN apt-get install -y curl**

**# Layer 3: Install wget**

**RUN apt-get install -y wget**

**# Layer 4: Create a directory**

**RUN mkdir /my\_directory**

**# Layer 5: Copy a file**

**COPY myfile.txt /my\_directory/myfile.txt**

**# Layer 6: Set environment variable**

**ENV MY\_VAR="Hello Docker!"  
  
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1. Create a text file using the following command:  
   **nano myfile.txt**  
     
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2. Add the following sentence in the **myfile.txt**:  
   **This is a sample text file.**

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1. Execute the following command to build the Docker image using the Dockerfile:  
   **sudo docker build -t my\_custom\_image .**  
     
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1. Execute the following command to view the history of the image, including all the layers:  
   **sudo docker history my\_custom\_image**  
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2. Run the following command to inspect individual layers of the image using their respective layer IDs:  
   **sudo docker history --no-trunc my\_custom\_image**  
     
     
     
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By following these steps, you have successfully displayed the layered structure of Docker images to provide insight into the hierarchical arrangement of image layers within Docker's architecture.