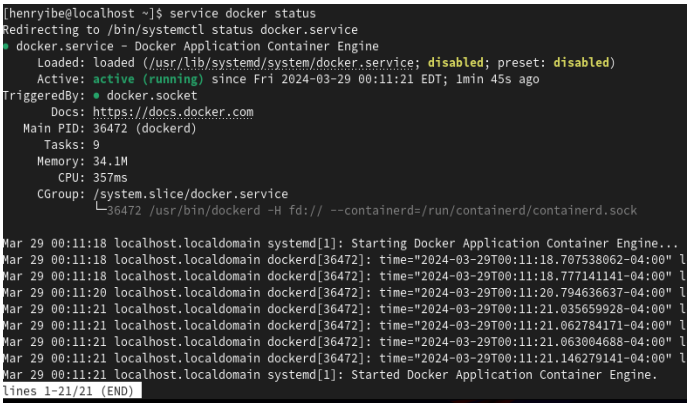
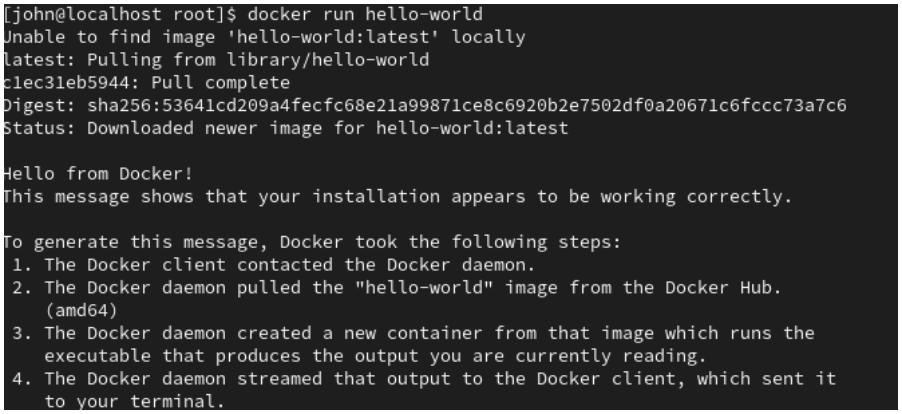
Container Hello-World

- **Objective:** The objective of the project is to install docker in our workstation and run nginx web server using docker.
- **Setting Up Our Workstation:** Prerequisites
    1. **VM with RHEL9**
    2. **Container runtime (Docker)**
    3. **Container Images (Docker Hub)**
- **Install docker package:** Follow the instructions and they are as easy as copying and pasting the commands in our RHEL (CLI). The instructions can be found in https://docs.docker.com/engine/install/rhel/. By typing $ *sudo docker status*, it will confirm that our docker has been successfully installed and is active.



- **Creating a User and giving access to docker:**
    1. *$ useradd John*
    2. *$sudo usermod -a -G docker John* (This adds the created user John to a group called docker)
    3. *$ sudo usermod -a -G docker john*
- **Container Hello-World:** $docker run hello-world. Remember we ran this as the new user.



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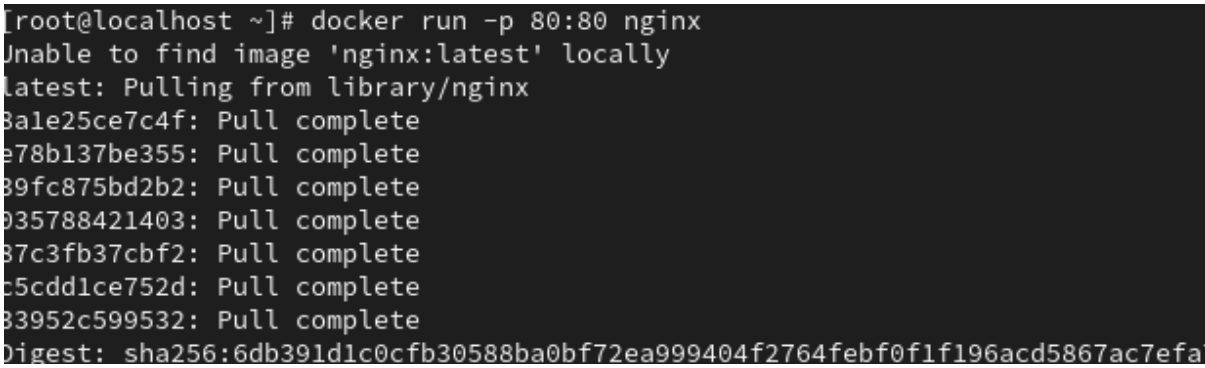
Here, docker service pulled the image from Docker Hub and ran it. With this we just ran our first container.

- **Running Nginx Container:**
    1. $ *docker run -p 80:80 nginx* (this uses docker to run nginx container and map localhost port 80 to container port 80).



    2. Opening another terminal, using $ *Curl* command.

       $ curl localhost – This should show you the nginx container running

- Summary: In this project, we installed docker on a RHEL 9 Linux VM and ran nginx we server container on the docker successfully.

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