**Docker Networking:**

1. Create Docker Network:

docker network create --driver bridge selenium-grid

1. List networks:

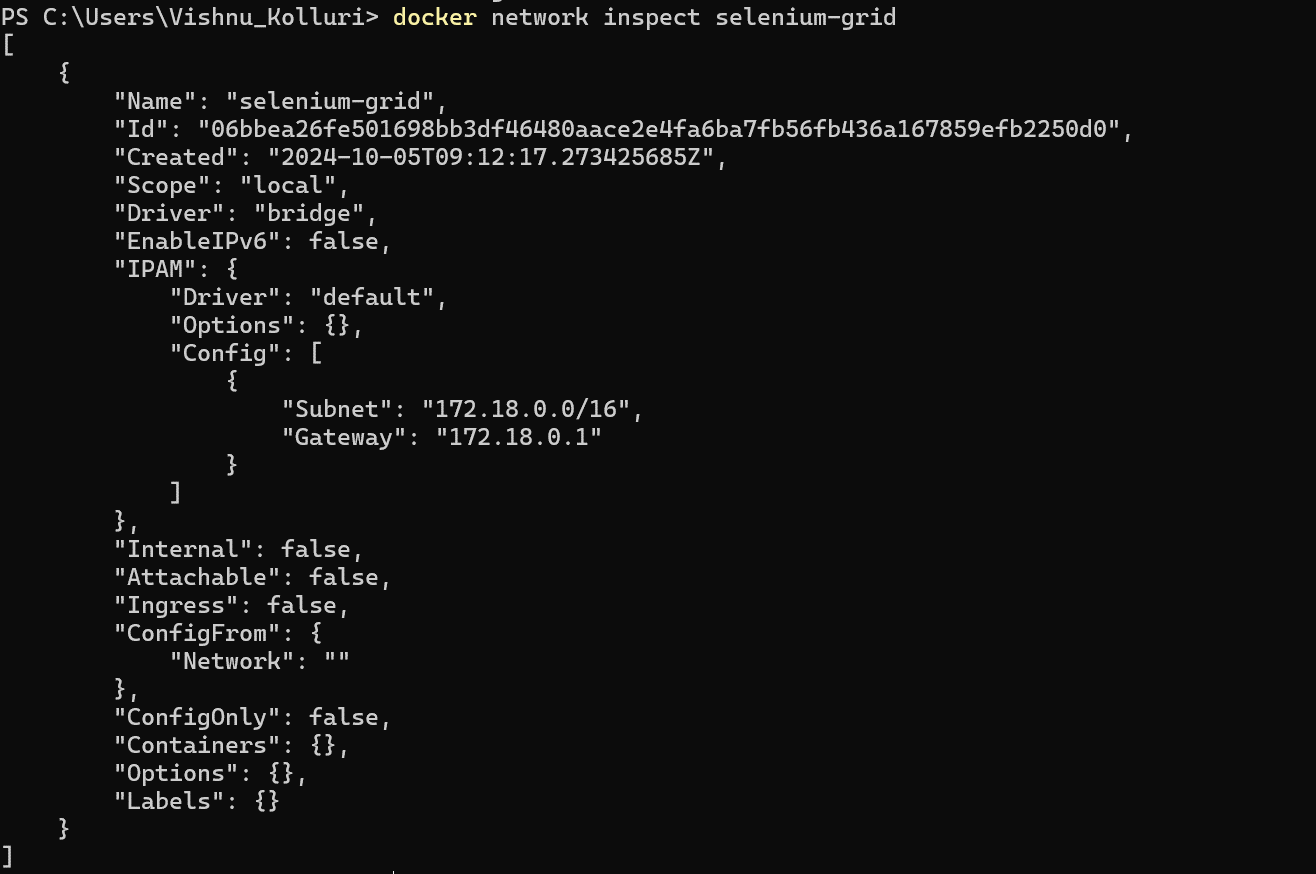
*docker network ls*

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1. Network Inspect:

docker network inspect selenium-grid



1. Remove Network

*docker network rm selenium-grid*

1. Attaching networking to container

docker run -d --net selenium-grid --name chrome-node --link selenium-hub:hub selenium/node-chrome

Tried below caommands:

1. Connect to Container

*docker network connect* selenium-grid *ContainerID*

**

1. *Disconnect Container from network*

*docker network disconnect* selenium-grid *ContainerID*

***Docker Volumes:***

1. *docker volume create volume1*
2. *docker volume ls*

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1. *docker volume inspect volume1*

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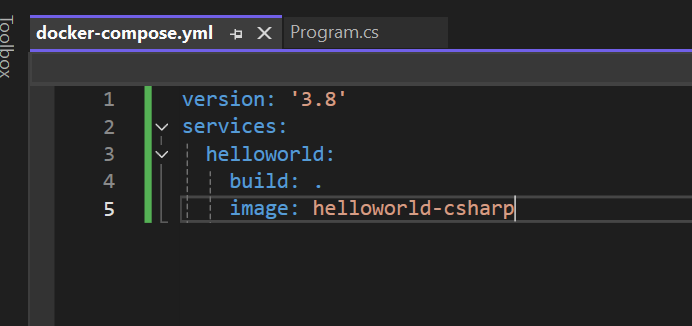
1. *docker volume rm volume1*
2. ***docker volume prune***
3. *docker run -p 8081:80 -v C:/Users/Vishnu\_Kolluri/Documents/Docker/DockerPractice/Volumes:/usr/share/nginx/html nginx*

**Docker Compose:**

Docker File:  
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Docker Compose file:



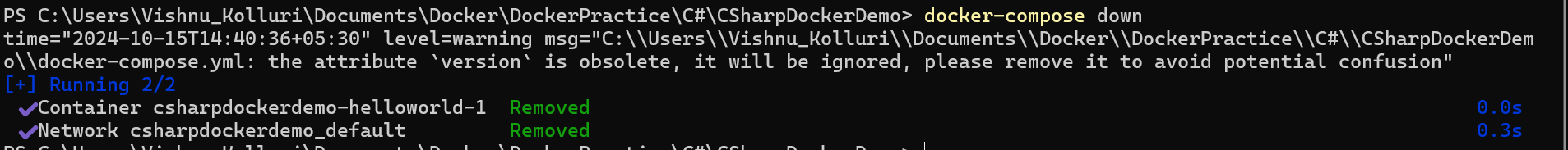
Commands:

1. docker-compose up --build
2. docker-compose up

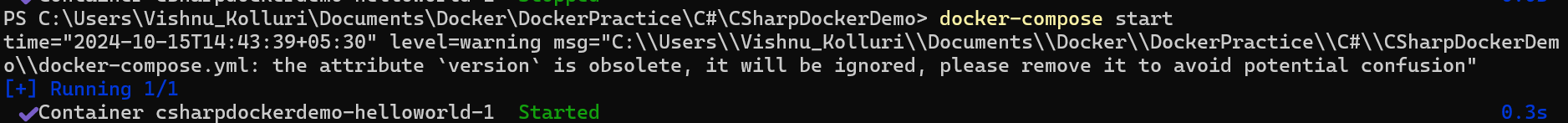
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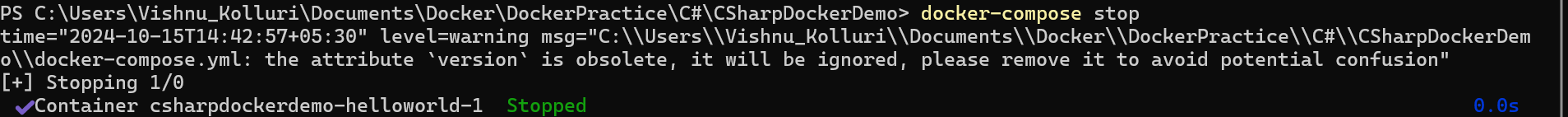
1. docker-compose down



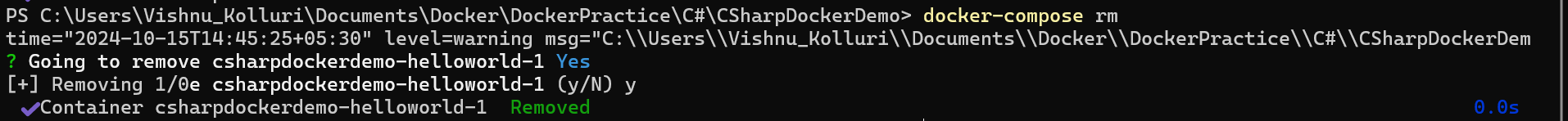
1. *docker-compose start*

**

1. *docker-compose stop*

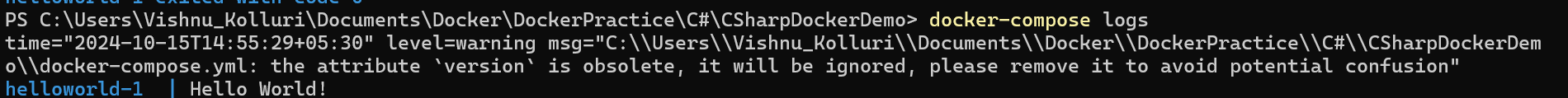
**

1. *docker-compose rm*

**

*Other commands :* docker-compose ps

*Docker-compose logs,*

**

***Docker swarm:***

*Learned from the following practical lab:*[***Docker Orchestration Hands-on Lab (play-with-docker.com)***](https://training.play-with-docker.com/orchestration-hol/)

***Integration of Jenkins CI/CD with Docker :***

1. *Open Jenkins and login with your credentials*
2. *Go to Manage Jenkins, Install Docker, docker build-steps, docker pipeline, Cloud Bees Docker Build and Publish*
3. *Create a sample c# project, place below dockerfile in it*

*Dockerfile*

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1. *Push it to github*
2. *Create a new pipeline on Jenkins*
3. *Write pipeline script*

*sample pipeline on Jenkins without docker  
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1. *Need to learn about pipeline script to integrate with docker*

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1. *As mentioned, this is still in Progress and need to work on this. Thanks*

***Run Jenkins from Docker:***

1. *docker pull jenkins/jenkins:lts*
2. *docker run -d -p 8081:8080 -p 50001:50000 -v jenkins\_home:/var/jenkins\_home --name jenkins jenkins/jenkins:lts*
3. *docker run -d -p 8081:8080 -p 50001:50000 -v C:/Users/Vishnu\_Kolluri/Documents/Docker/JenkinswithDocker:/var/jenkins\_home --name jenkins jenkins/jenkins:lts*
   1. **-p 8081:8080**: Map port 8080 of the container to port 8080 on the host, used for the Jenkins web UI.
   2. **-p 50001:50000**: Map port 50000 of the container to port 50000 on the host, which is used for agent connections. (master, slave)
4. *docker logs Jenkins*
   1. *provides password, copy password and open Jenkins*

*6217c4f138b04354883993a779fb4ef5*

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*Install suggested plugins*

*Username:VishnuKolluri*

*Password: Biscuit@000*

*Epam mail*

[*http://localhost:8081/*](http://localhost:8081/)

*name: Vishnu Kolluri*

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*docker-compose up -d*

*freestyle:*

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*Pipeline:*

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*Advanced project Options*

*Pipeline: script*

*General : Description, Build Triggers, some Options*

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