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## Technical Report

### 1. Instalasi Docker

#### A) Set up Docker's apt repository.

```
# Add Docker's official GPG key:
sudo apt-get update
sudo apt-get install ca-certificates curl gnupg
sudo install -m 0755 -d /etc/apt/keyrings
curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo gpg --dearmor -o
/etc/apt/keyrings/docker.gpg
sudo chmod a+r /etc/apt/keyrings/docker.gpg

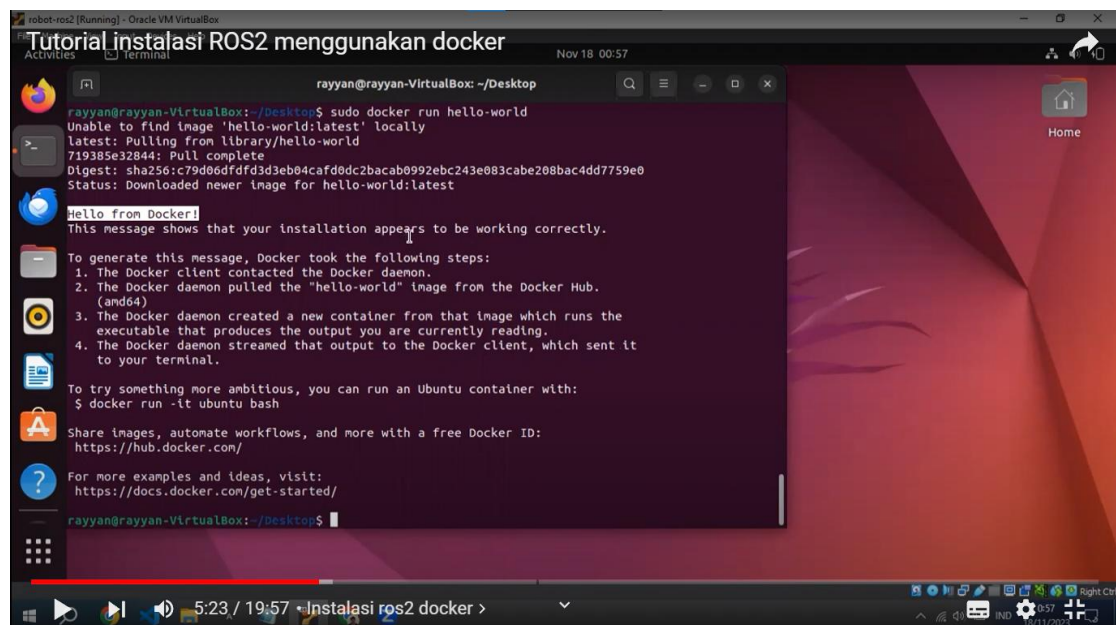
# Add the repository to Apt sources:
echo \
  "deb [arch="$(dpkg --print-architecture)" signed-by=/etc/apt/keyrings/docker.gpg]
https://download.docker.com/linux/ubuntu \
  "$(. /etc/os-release && echo "$VERSION_CODENAME")" stable" | \
  sudo tee /etc/apt/sources.list.d/docker.list > /dev/null
sudo apt-get update
```

#### B) Install the Docker packages.

```
sudo apt-get install docker-ce docker-ce-cli containerd.io docker-buildx-plugin docker-compose-
plugin
```

#### C) Verify that the Docker Engine installation is successful by running the hello-world image.

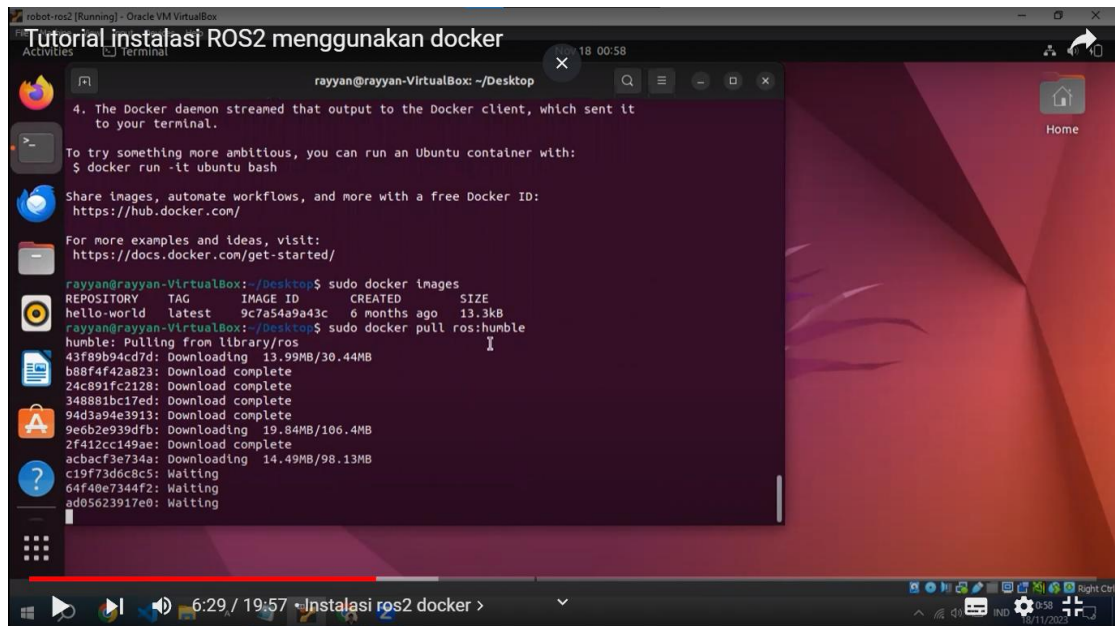
```
sudo docker run hello-world
```



### 2. Instalasi ROS2 Humble menggunakan docker container

#### A) Download docker image ros2

```
sudo docker pull ros:humble
```



B) Menjalankan docker image

```
sudo docker run -it ros:humble
```

C) Menjalankan docker container

```
sudo docker exec -it <CONTAINER ID> bash
```

