

# DOCKER

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*Run Our First Container*

## *Docker Containers: This Lecture*

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- Image vs Containers
- run containers
- Check container logs & process

## *Image vs Containers*

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- Why Containers required?
- What is Image?
- Image is the Application we want to run
- Containers is an running instance of an Image
- You can have many containers running the same image
- In this lecture we will use Open Source Nginx Web-Server
- Docker Central Repository ([hub.docker.com](https://hub.docker.com))

# *Docker Containers*

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- Start with Hello World Docker Image
- Start Nginx web-server in Docker  
`docker container run --publish <host_port:container_port>  
<image_name>`
- Process Done:
  - Downloaded the Images form Docker Hub
  - Started new Container
  - Exposed port 80 on Host Machine
  - Routes traffic to the container port 80

# *Docker Containers*

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- Stop Container fore-ground process

`ctrl+c`

- Start Container in Back-Ground or detach mode

`docker container run --publish <host_port:container_port>  
--detach <image_name>`

- List running Containers

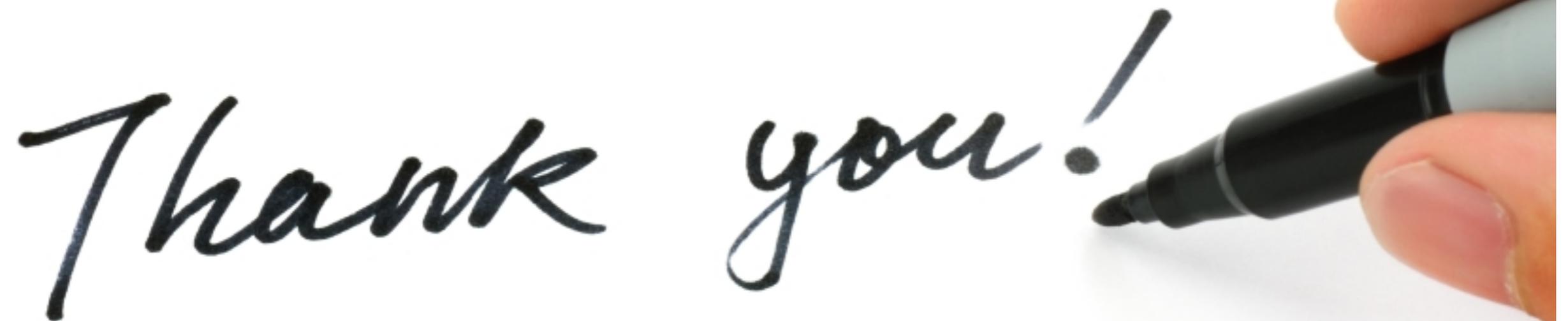
`docker container ls`

`docker ps` (Old Way)

*Will see you in Next Lecture...*

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*Thank you!*

A close-up photograph of a hand holding a black marker, writing the words 'Thank you!' in a cursive script on a white surface. The hand is positioned on the right side of the frame, with the fingers gripping the marker. The text is written in a fluid, handwritten style.

*See you in next lecture ...*