🐳 Docker Day 1: Installation & First Container (NGINX)

✅ Docker Installation (Ubuntu/Debian)

1. sudo apt-get update   # Update package list

2. sudo apt-get install -y docker.io   # Install Docker engine

3. sudo service docker start   # Start Docker service

4. sudo systemctl status docker.service   # Check Docker status

5. sudo su   # Switch to root user (optional)

📦 Working with Docker Images

1. docker images   # List downloaded images

2. docker image ls   # Same as above

3. docker search nginx   # Search for 'nginx' image on Docker Hub

4. docker pull nginx   # Download the nginx image

5. docker image ls / docker images   # Confirm image is downloaded

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🚀 Running Docker Containers

6. docker run nginx   # Run nginx container (foreground mode)

7. docker ps   # Show running containers

8. docker ps -a   # Show all containers (including stopped)

9. docker run -d --name mynginx nginx   # Run container in detached mode with name 'mynginx'

10. docker ps   # Check if 'mynginx' is running

🐚 Access Container Shell & Modify Content

11. docker exec -it mynginx /bin/bash   # Access container shell

Inside container:

12. cd /usr/share/nginx/html/   # NGINX serves HTML from this path

13. ls   # Check existing files

14. apt update   # Update package list (inside container)

15. apt install nano   # Install nano editor

16. nano hello.html   # Create or edit HTML file

17. curl localhost/hello.html   # Test page inside container

exit   # Exit the container

🌐 Test NGINX Server from Host

curl localhost   # Access NGINX welcome page

curl localhost/hello.html   # Access custom HTML