Summary

Congratulations!

I hope that in this module you have mastered the basic methods of containerization, which will allow you to design artificial intelligence system architectures and manage the corresponding production environments even more efficiently.

In particular, I hope you already know how to:

Create, share and run a single application image.

1. design an image using Dockerfile
2. build it
3. share that image with others
4. download the finished image and run it as a container.

Use existing containers to create your own application.

More specifically, identify and use already created images

- from public repositories
- From your own repository.

Implement file exchange mechanisms in container<>host and container<>container channels.

That is, select and implement the optimal strategy for exchanging information between containers and host in a given case. Specifically, exchange data, control parameters and files using docker volume and docker mount methods.

**Create multi-container applications. Design, provision and run multi-container applications as:

1. concurrently running independent services
2. services that exchange data with each other
3. services that run sequentially.

Manage images, containers and volumes using:

1. command line
2. Docker Desktop applications
3. IDE environments, such as MS VSCode.