Lab: Getting Started with Docker

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Start from zero and learn Docker's core building blocks. You'll run pre-built containers, write a `Dockerfile` to package a Node.js app, build your own image, and see container immutability and isolation in action.

Launch the lab

{{< labspace-launch image="dockersamples/labspace-container-getting-started" >}}

What you'll learn

By the end of this Labspace, you will have completed the following:

- Understand what containers are and how they differ from virtual machines
- Run containers in the background, inspect their logs and filesystem, and manage their lifecycle
- Write a `Dockerfile` to package an application, using layer caching for fast rebuilds
- Build a custom image with `docker build` and run it as a container
- Optionally publish your image to Docker Hub

Modules

#	Module	Description

1	Welcome to Docker	Introduction to containers and running your first `hello-world` container
2	Running Containers	Launch Nginx, inspect logs and internals, and manage the container lifecycle
3	Building Your First Image	Write a `Dockerfile` and build a custom image from a Node.js app
4	Running Your App	Run your image, explore container isolation, and optionally push to Docker Hub
5	Wrap-up	Summary of key concepts and next steps

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