Chapter 2 Container Orchestration

- Containers: provides portable and isolated virtual environments for apps to run without interference from other running apps
  - Encapsulates microservices
    - Do not run them directly
  - Runs container images
- Container image: bundles the app w/ its runtime & dependencies
  - provides an isolated executable of the app to container
- Container orchestrators: tools that form clusters to manage automatic scaling and deployment of containers that meet the requirements:
  - fault-tolerance
  - on-demand scalability
  - optimal resource usage
  - auto-discovery
  - external accessibility
  - 0 downtime rollbacks/updates