

# Running Multiple Containers

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# Module Overview



**Running the application with Docker  
Compose**

**Exploring the Docker Compose file**

**Deploying multiple images/containers**



# Running the Application with Docker Compose

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# Exploring the Docker Compose File

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# Options for Deploying Multiple Images/Containers

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# Deploying Multiple Images/Containers

Create a virtual machine and run Docker Compose

Use a Container Management Service

Use Kubernetes



"Kubernetes is an open-source system for automating deployment, scaling, and management of containerized applications."

<https://kubernetes.io>



# Kubernetes in the Cloud



**Azure Kubernetes  
Service (AKS)**



**Amazon Elastic  
Container Service for  
Kubernetes (EKS)**



**Google Cloud  
Kubernetes Engine**



# Summary



Docker Compose provides  
"orchestration" capabilities

Build multiple images using docker-  
compose build

Run multiple containers using docker-  
compose up

Cloud providers offer several solutions  
for running multiple containers

