Communicating Between Docker Containers

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Module Agenda

Getting Started with Container Linking

Linking Containers by Name (legacy linking)

Container Linking in Action

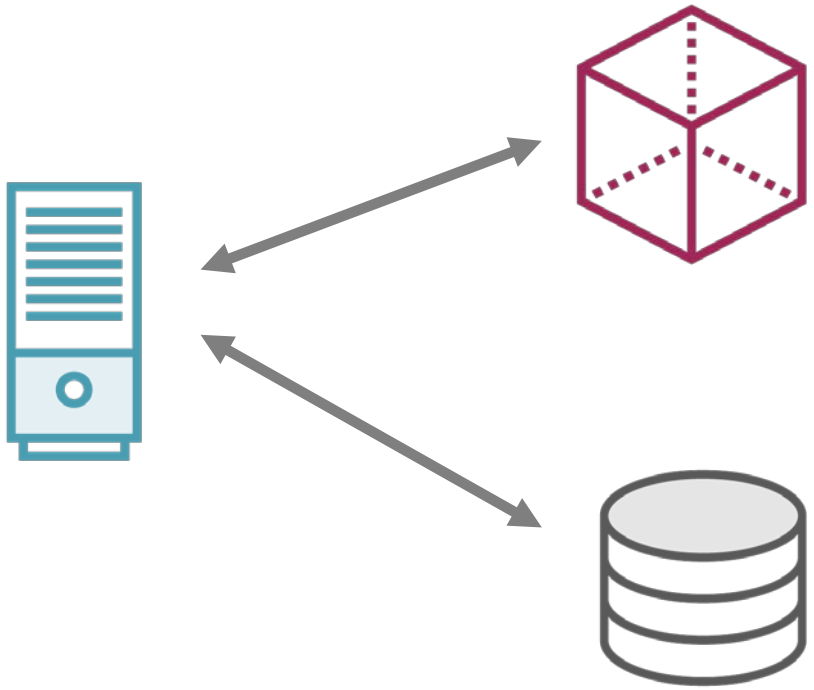
Getting Started with Container Networks

Container Networks in Action

Linking Multiple Containers

Getting Started with Container Linking

The Need for Linked Containers



Docker Container Linking Options

Use Legacy Linking

Add Containers to a Bridge Network

Linking Containers by Name (legacy linking)

Steps to Link Containers

Run a Container with a Name

1

Link to Running Container by Name

2

Repeat for Additional Containers

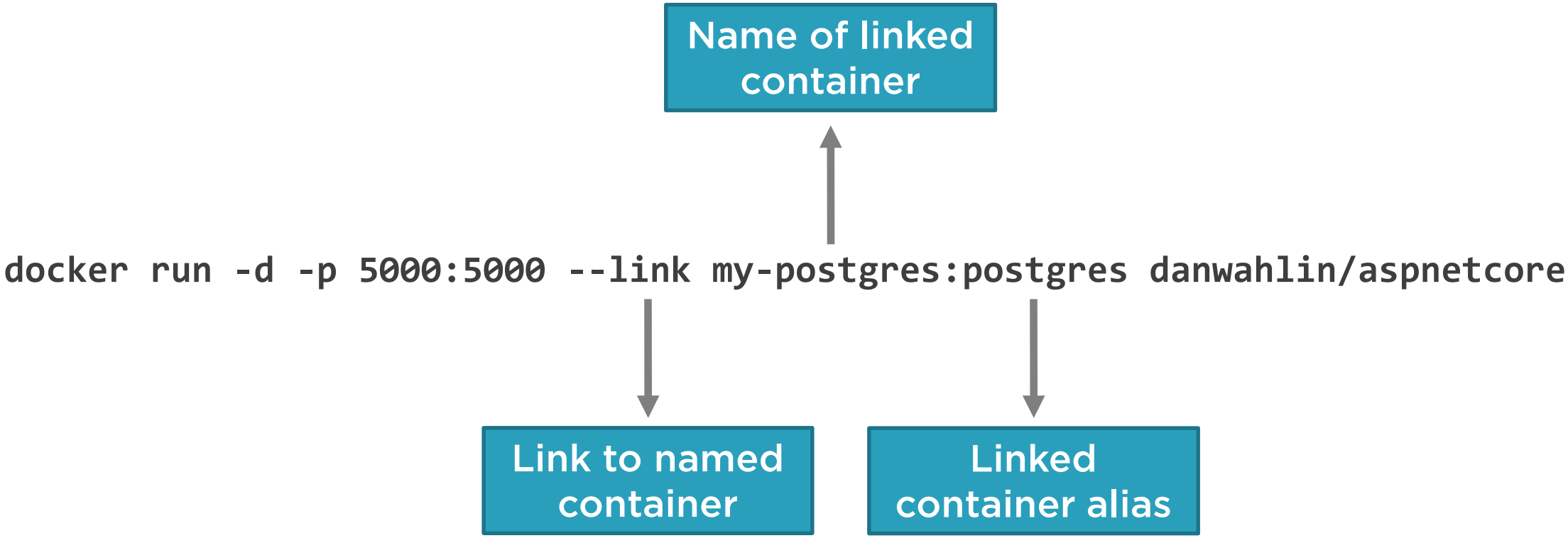
3

1 Run a Container with a Name

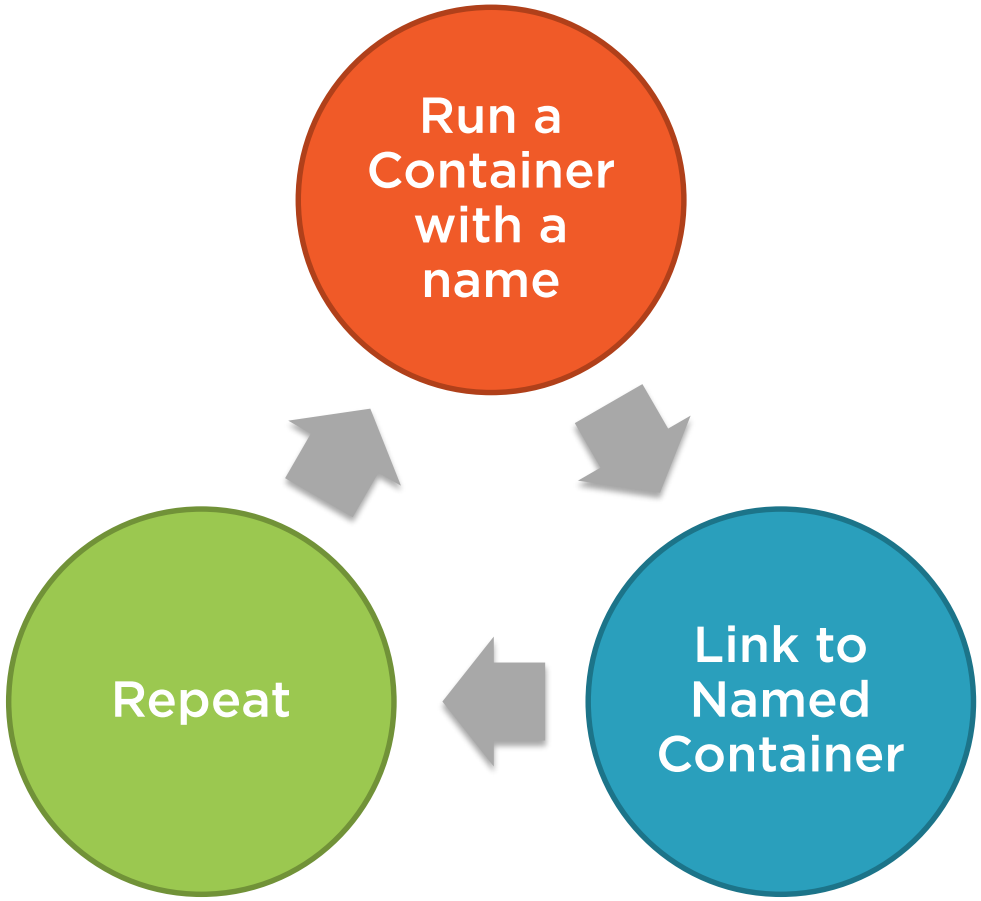
```
docker run -d --name my-postgres postgres
```

Define a name for the container

2 Link to Running Container By Name



3 Repeat for Additional Containers

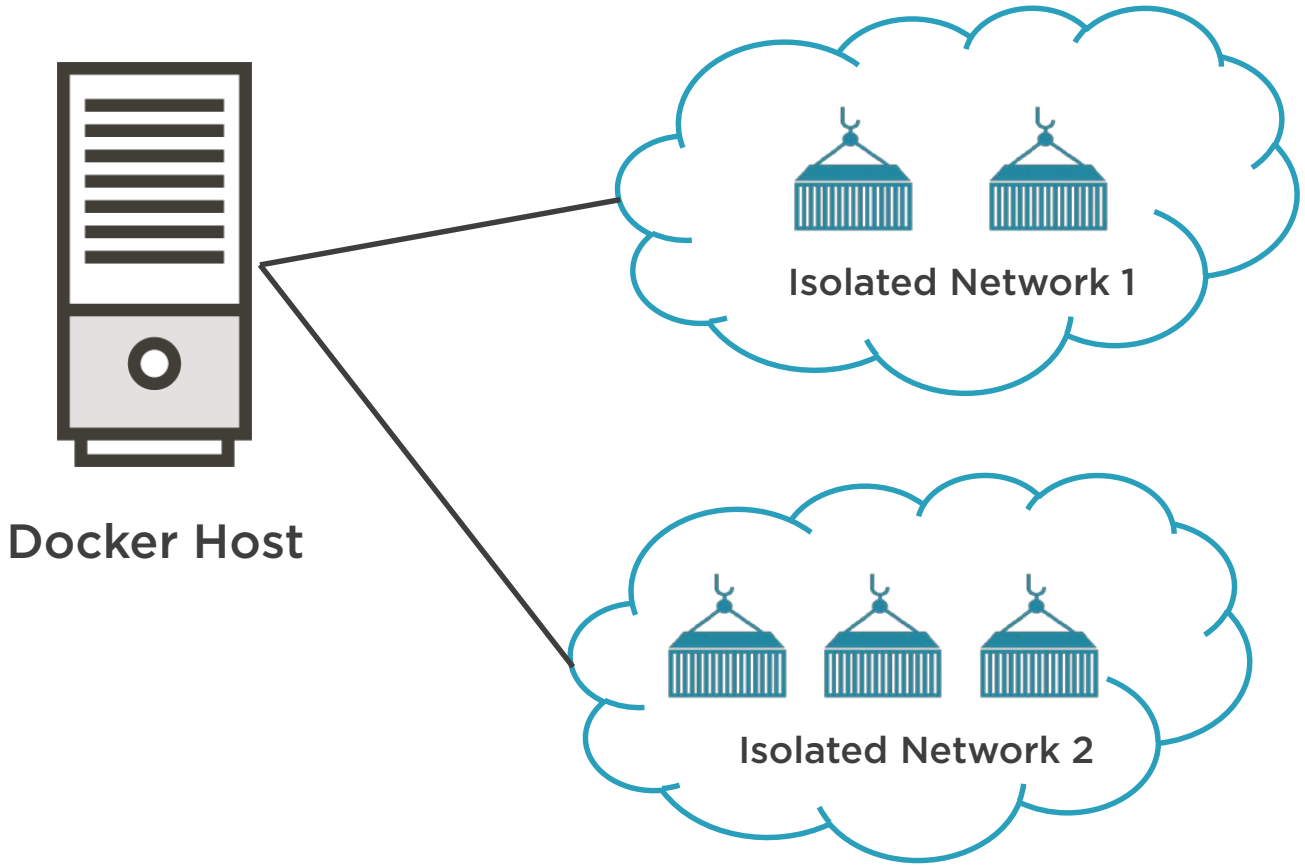


Linking Node.js and MongoDB Containers

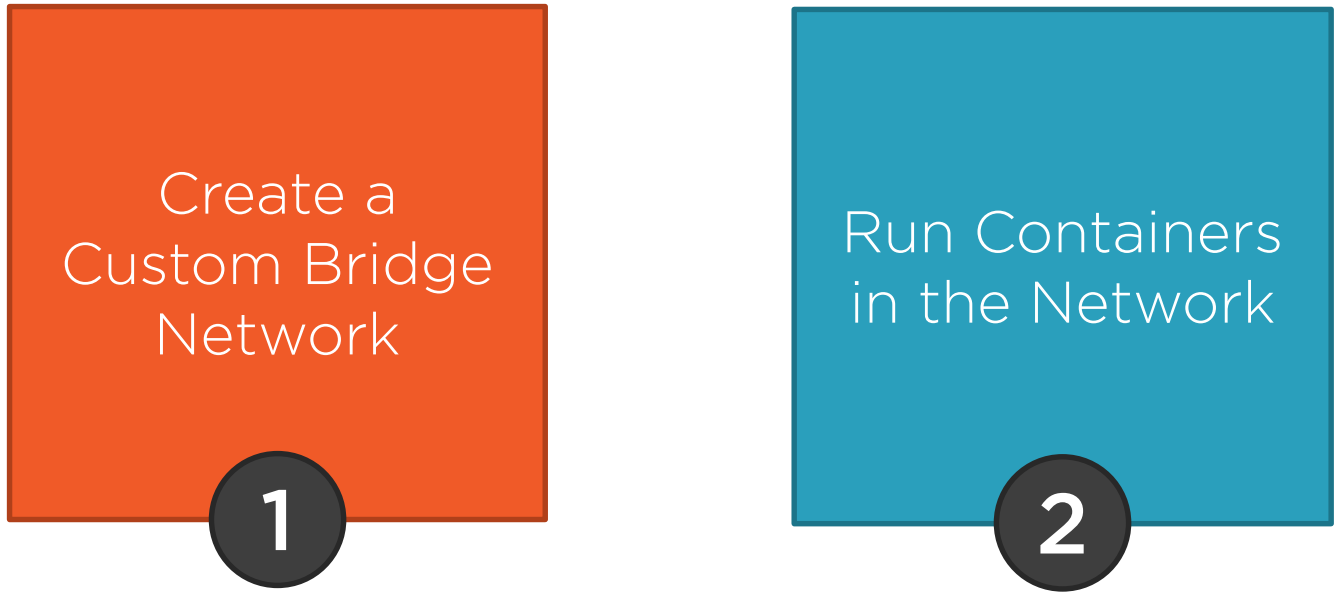
Linking ASP.NET Core and PostgreSQL Containers

Getting Started with Container Networks

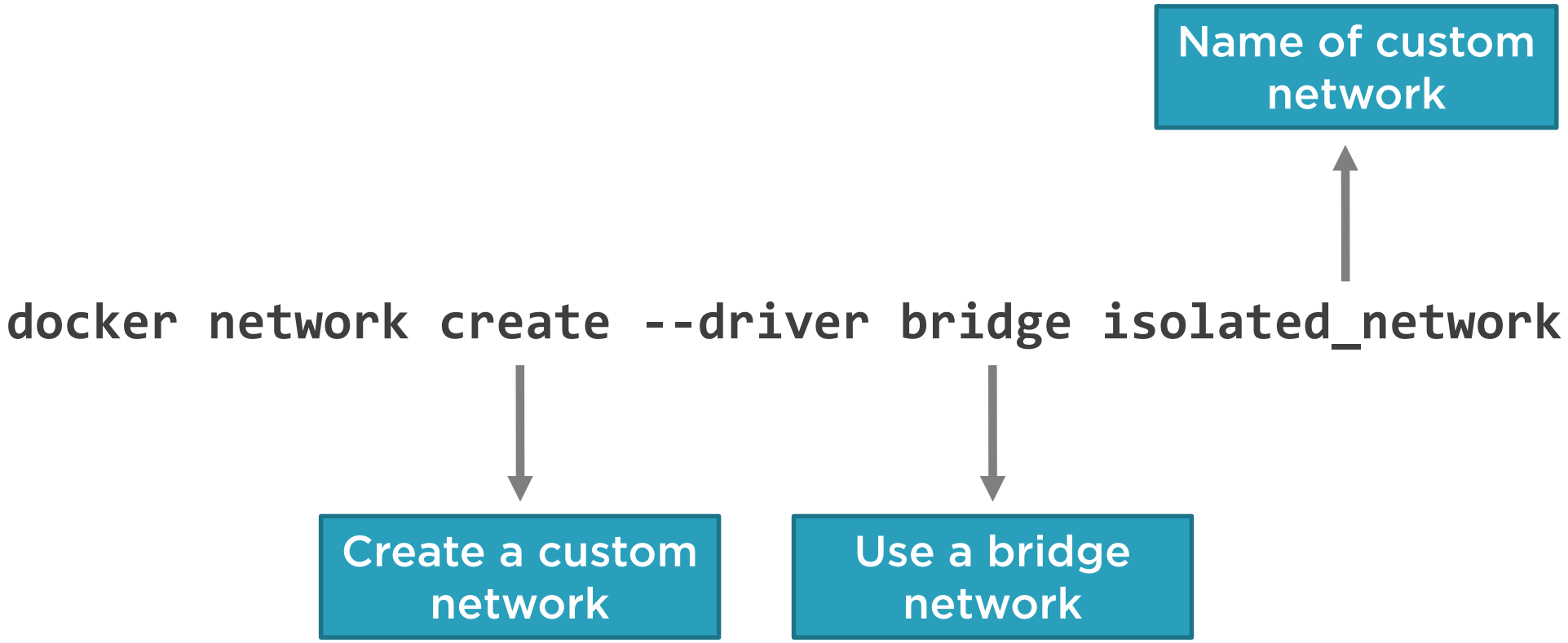
Understanding Container Networks



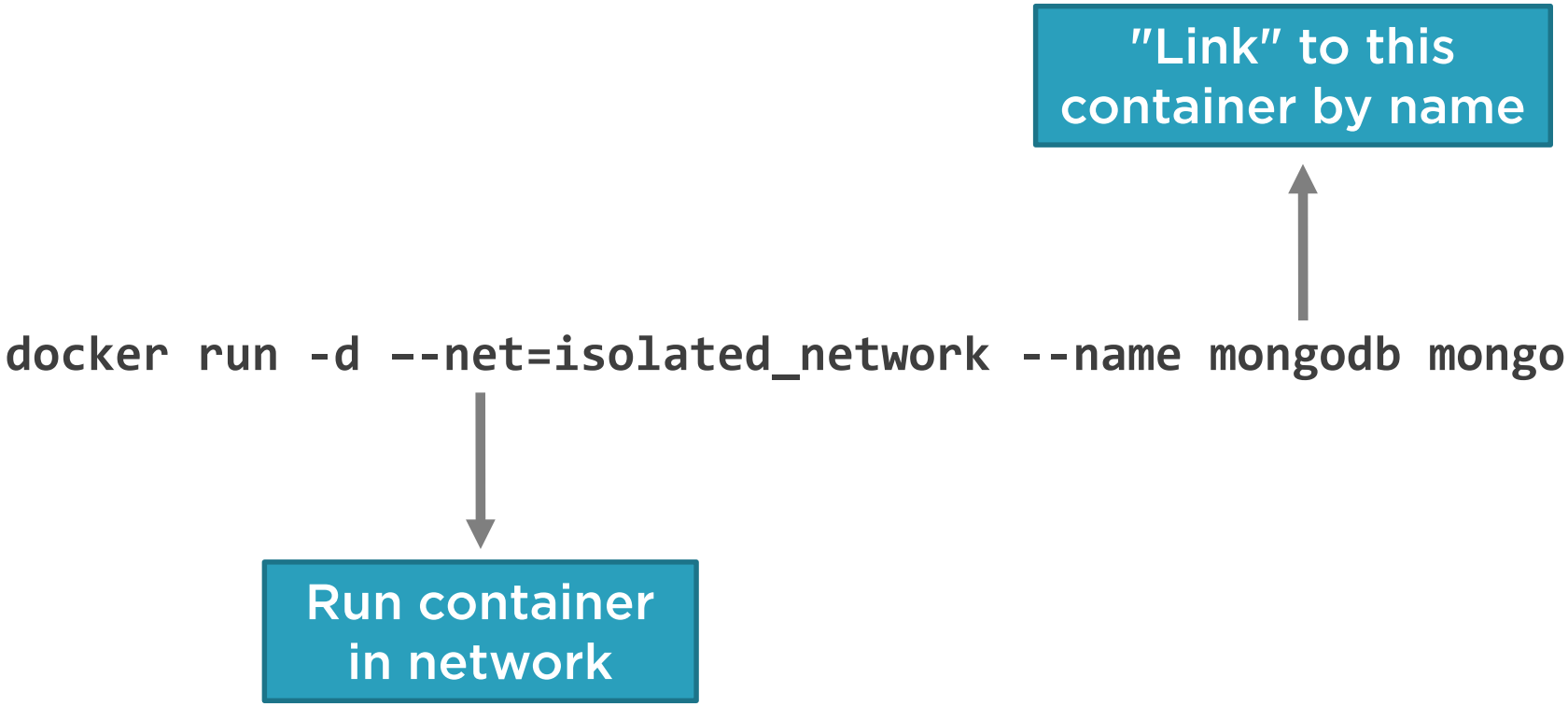
Steps to Create a Container Network



1 Create a Custom Container Network



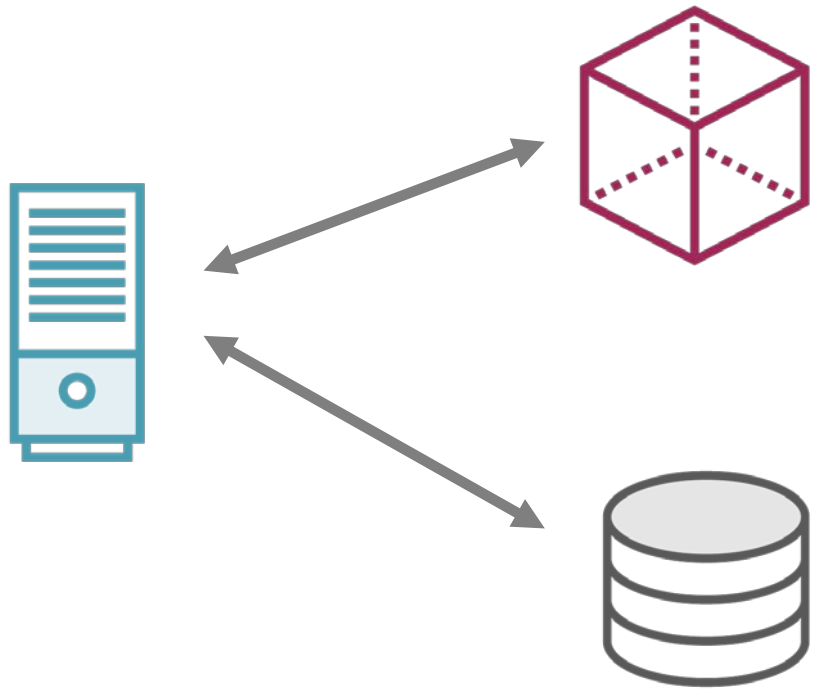
2 Run Containers in the Container Network



Container Networks in Action

Linking Multiple Containers

Is There an Easier Way?



Docker Compose Can Simplify Container Linking

Summary

Docker containers communicate using link or network functionality

The –-link switch provides "legacy linking"

The --net command-line switch can be used to setup a bridge network

Docker Compose can be used to link multiple containers to each other