

**WELCOME BACK
&
THANK YOU**

◀Creative Devs.
Software/▶

Docker
Bitty Byte

MEET YOUR BITTY BYTE TEAM



TANGY F.
CEO



EDDIE K.
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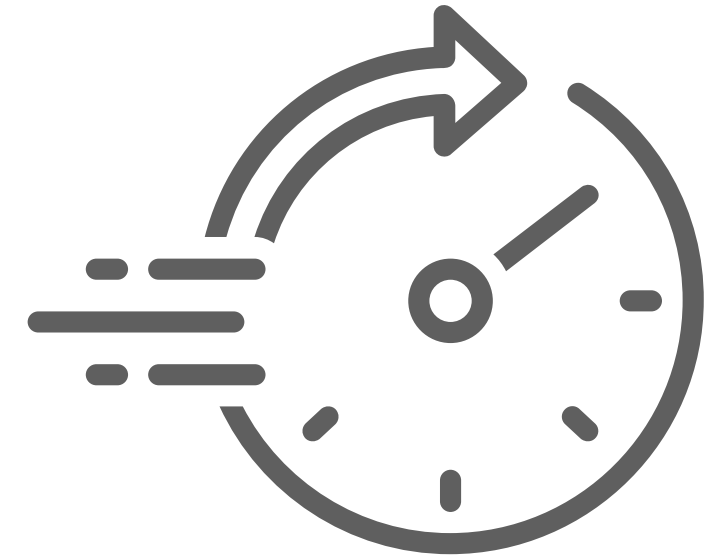
WILLIAM D.
DEVELOPER

TODAY'S AGENDA

TRAINING DAY 1

- 1 Rapid Review
- 2 Docker Architecture
- 3 Docker Networks

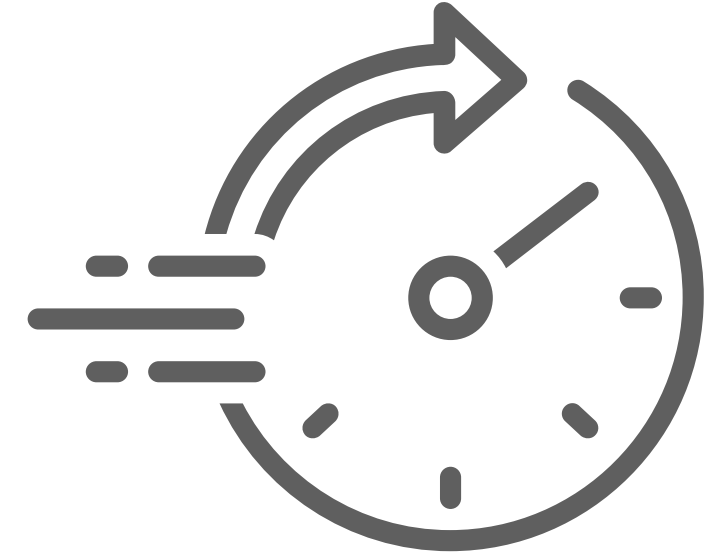
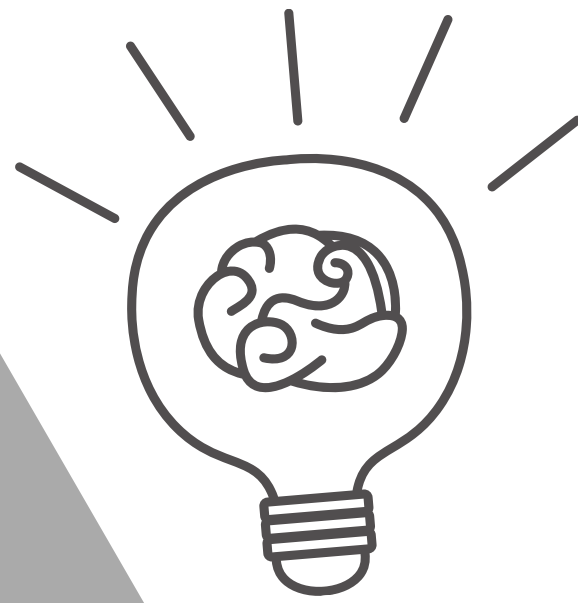
Rapid **TRIVIA**



Rapid Trivia

What was the original name of Docker before it was officially named 'Docker'?"

Rapid **TRIVIA**

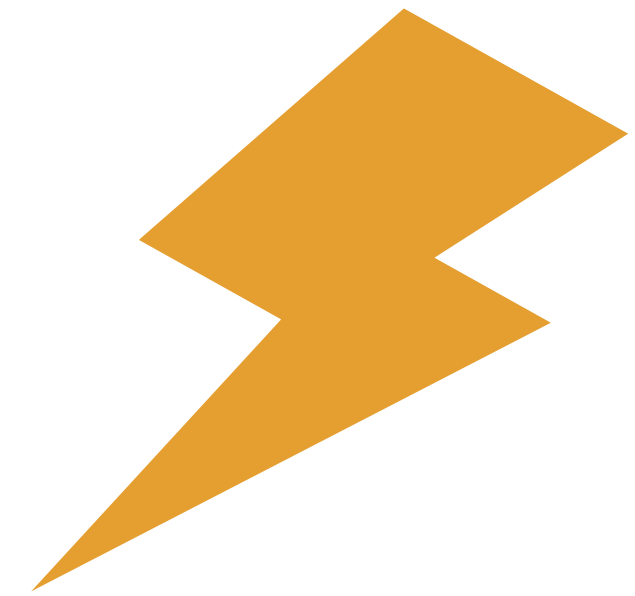


Rapid Trivia

Docker was originally called 'dotCloud' before it was renamed to 'Docker.' The name change occurred in March 2013, when the project was rebranded as Docker and its focus shifted toward containerization technology.

DAY 2

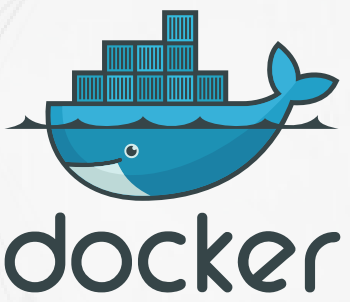
Rapid Review



DAY 2

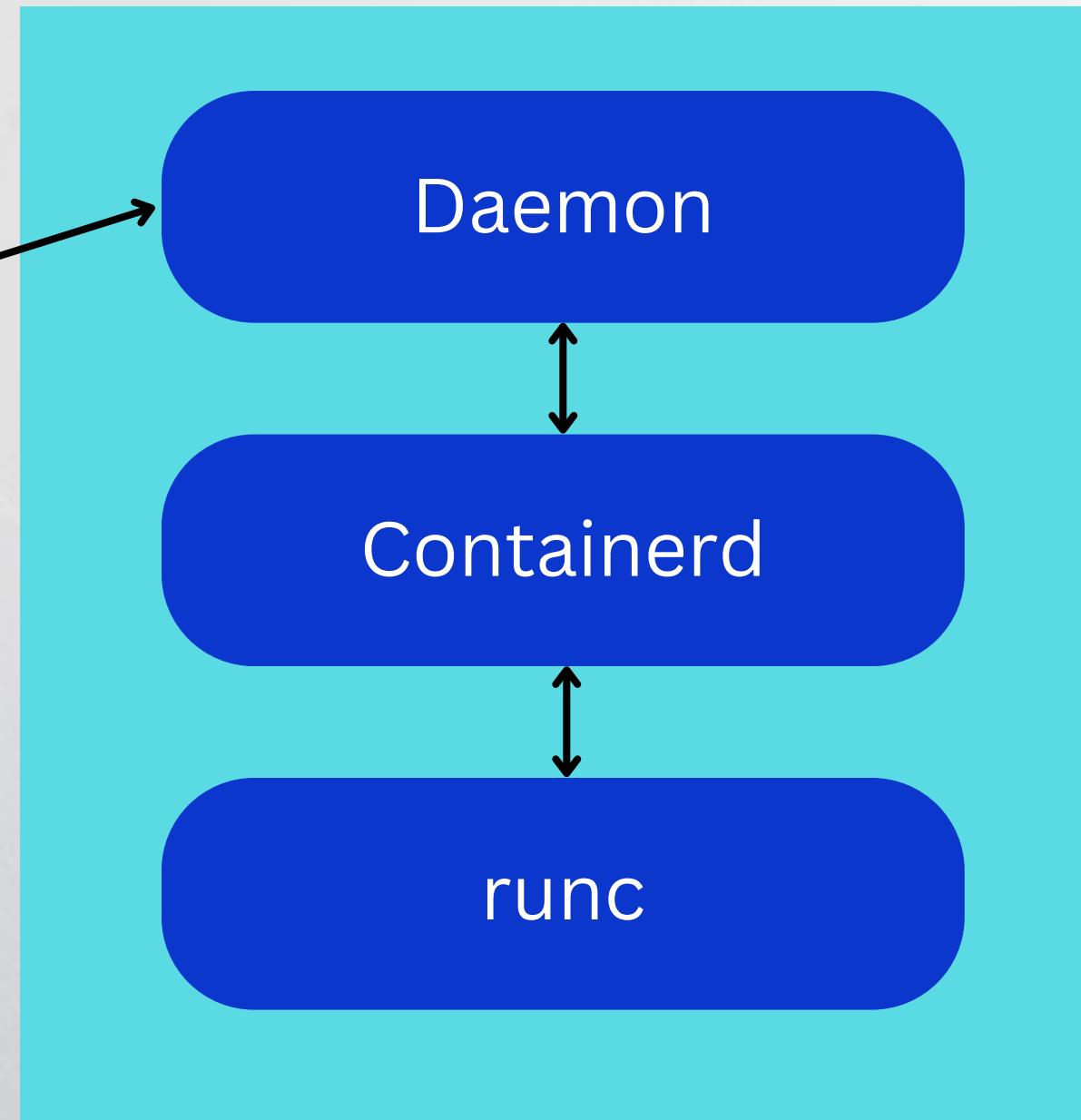
Docker Architecture

DOCKER ARCHITECTURE



```
Docker Client  
> _
```

Docker Engine





DAY 2

Docker Networks

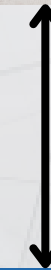
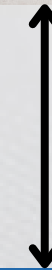
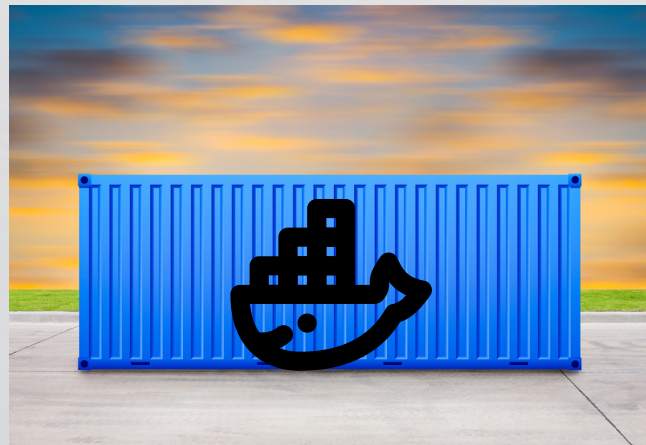
DOCKER NETWORK

Container 1

Container 2

Container 3

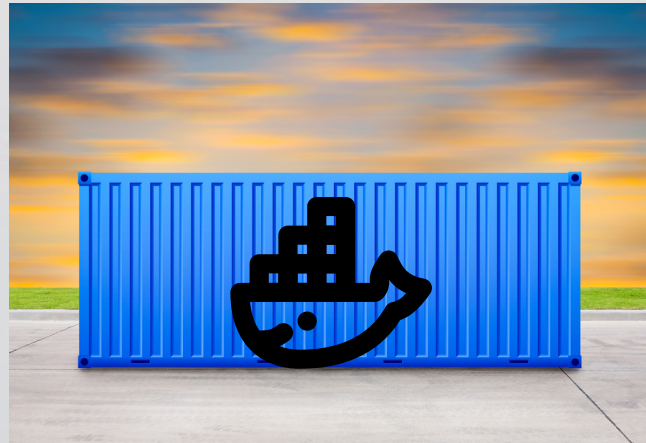
Container 4



Docker Network

DOCKER NETWORK

Container 1



Container 2



Docker Network

Container 3

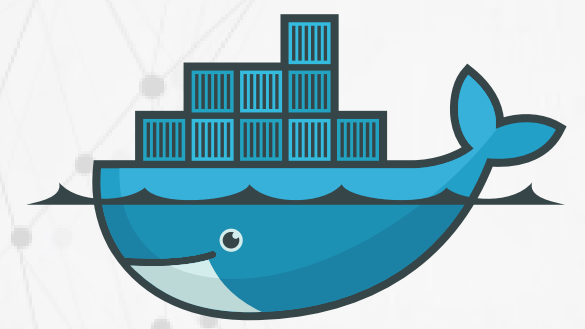


Container 4



Docker Network

DOCKER NETWORK



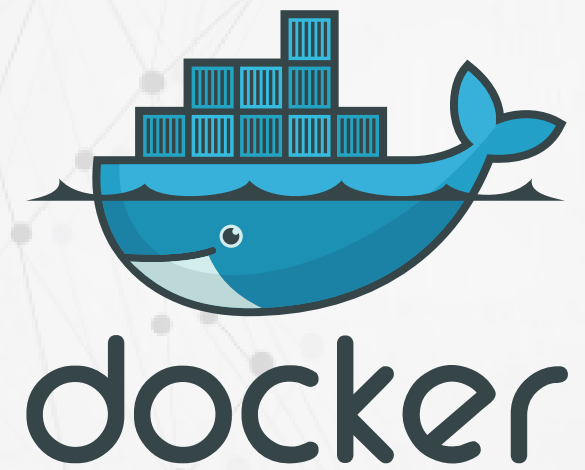
docker

Important Docker Network Commands

Usage: docker network COMMAND

Commands:

- ✓ **connect** - Connect a container to a network
- ✓ **create** - Create a network
- ✓ **disconnect** - Disconnect a container from a network
- ✓ **inspect** - Display detailed information on one or more network
- ✓ **ls** - List networks
- ✓ **rm** - Remove one or more networks



Docker Network Drivers

Network drivers are modules that define how containers within a Docker environment connect to each other as well as the external world

Drivers:

- ✓ **Bridge Driver (Default) - Creates a private network on the host**
- ✓ **Host Driver - Shares the host's network stack with containers**
- ✓ **None Driver - Disables all networking for a container**

TRIVA QUESTION



What are Bind Mounts useful for ?

And

Name 3 Benefits of Volumes



TRIVIA ANSWER



Bind Mounts

A. Development and debugging scenarios where you want to share code or data between your host and the container.

B. Helpful when you need to customize configuration files.

Name 3 Benefits of Volumes

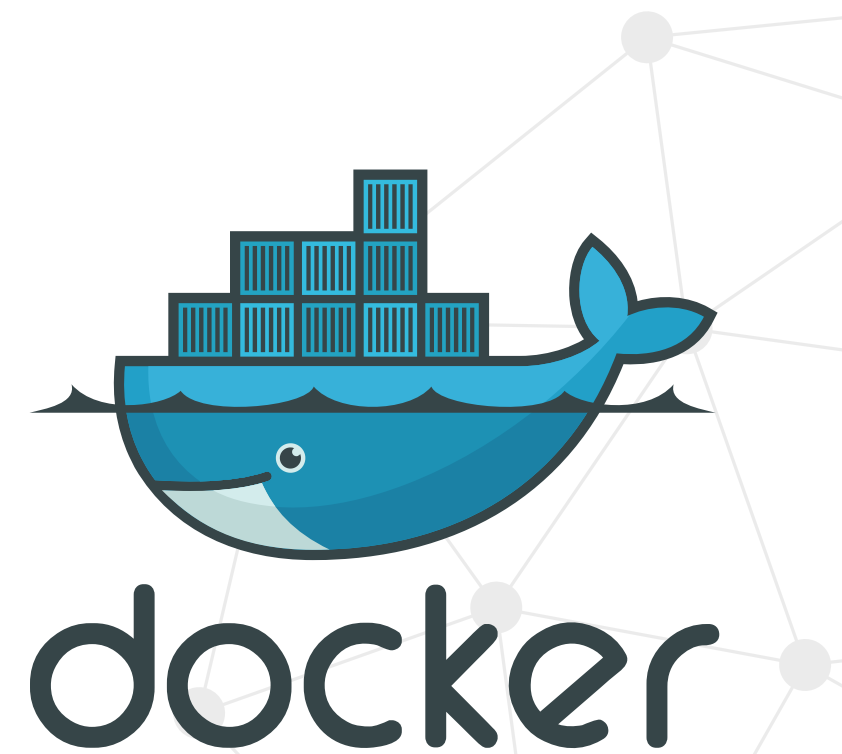
- 1. Docker volumes are essential for data persistence.**
- 2. They allow data to survive container starts/stops.**
- 3. Used for databases, file storage, and data sharing**



CODING EXERCISE



Build Your Own Isolation Network





THANK YOU

<Creative  Software/>

Bitty Byte

We will see you soon

