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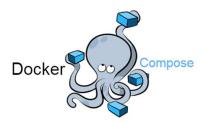
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1 What is Docker Compose?

#### What is Docker Compose?

- □ Compose is a tool for defining and running multi-container Docker applications. With Compose, you use a YAML file to configure your application's services. Then, with a single command, you create and start all the services from your configuration.
- Compose works in all environments: production, staging, development, testing, as well as CI workflows.



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2 Using Compose

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# Using Compose

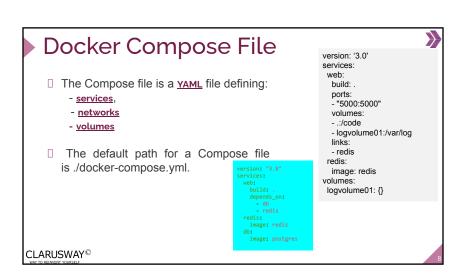
Using Compose is basically a three-step process:

- Define your app's environment with a Dockerfile so it can be reproduced anywhere.
- Define the services that make up your app in docker-compose.yml so they can be run together in an isolated environment.
- ☐ Run docker-compose up and Compose starts and runs your entire app.

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3 Docker Compose File

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### **Docker Compose File**

There are several versions of the Compose file format - 1, 2, 2.x, and 3.x.

Compose file format	Docker Engine release
3.8	19.03.0+
3.7	18.06.0+
3.6	18.02.0+
3.5	17.12.0+
3.4	17.09.0+
3.3	17.06.0+
3.2	17.04.0+
3.1	1.13.1+

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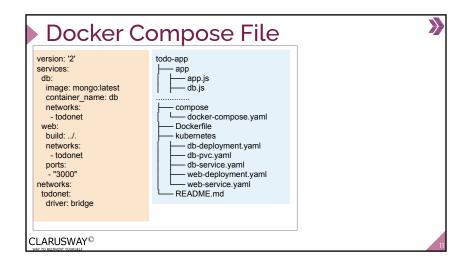
Compose file format	Docker Engine release
3.0	1.13.0+
2.4	17.12.0+
2.3	17.06.0+
2.2	1.13.0+
2.1	1.12.0+
2.0	1.10.0+
1.0	1.9.1.+

## Docker Compose File

- ☐ A service definition contains configuration that is applied to each container started for that service, much like passing command-line parameters to docker run.
- Likewise, network and volume definitions are analogous to docker network create and docker volume create.

version: '3.0'
services:
web:
build: .
ports:
- "5000:5000"
volumes:
- .:/code
- logvolume01:/var/log
links:
- redis
redis:
image: redis
volumes:
logvolume01: {}

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docker-compose Commands		
Command	Description	
build	Build or rebuild services	
config	Validate and view the Compose file	
down	Stop and remove containers, networks, images, and volumes	
events	Receive real time events from containers	
exec	Execute a command in a running container	
images	List images	
kill	Kill containers	
logs	View output from containers	
pause	Pause services	
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0	compose Commands	
Command	Description	
port	Print the public port for a port binding	
ps	List containers	
pull	Pull service images	
push	Push service images	
restart	Restart services	
rm	Remove stopped containers	
run	Run a one-off command	
start	Start services	
stop	Stop services	

Command	Description	
ор	Display the running processes	
unpause	Unpause services	
nb	Create and start containers	
version	Show the Docker-Compose version information	

