

ANTONIS KALIPETIS - @AKALIPETIS

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**DOCKER + WORDPRESS = <3**

## @AKALIPETIS

- ▶ Docker Captain and early user
- ▶ Python lover and developer
- ▶ Technology lead at SourceLair / stolos.io

I love automating stuff and sharing knowledge around all things containers, DevOps and optimizing developer workflows.

# AGENDA

- ▶ Developing a WordPress website
- ▶ What is wrong?
- ▶ Docker to the rescue
- ▶ Entering the  cloud

# CURRENT STATE IN WORDPRESS DEVELOPMENT

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## CURRENT STATE IN WORDPRESS DEVELOPMENT

- ▶ Use the production installation
  - ▶ Seriously?
- ▶ Use a staging installation for all developers
  - ▶ Better, but still...
- ▶ Locally
  - ▶ How do you handle dependency management and updates?

**DOCKER**

**DOCKER IS AN AN OPERATING  
SYSTEM FOR THE CLOUD**

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# THE DOCKER CONTAINER RUNTIME

- ▶ Process level isolation
- ▶ Resource management
- ▶ Networking, volumes, images etc



App 1

Bins/Libs

App 2

Bins/Libs

App 3

Bins/Libs

Docker Engine

Operating System

Infrastructure



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## WHY DOCKER?

- ▶ Containers are very lightweight
- ▶ Different PHP versions per container
- ▶ Different MySQL databases
- ▶ Many images ready for you

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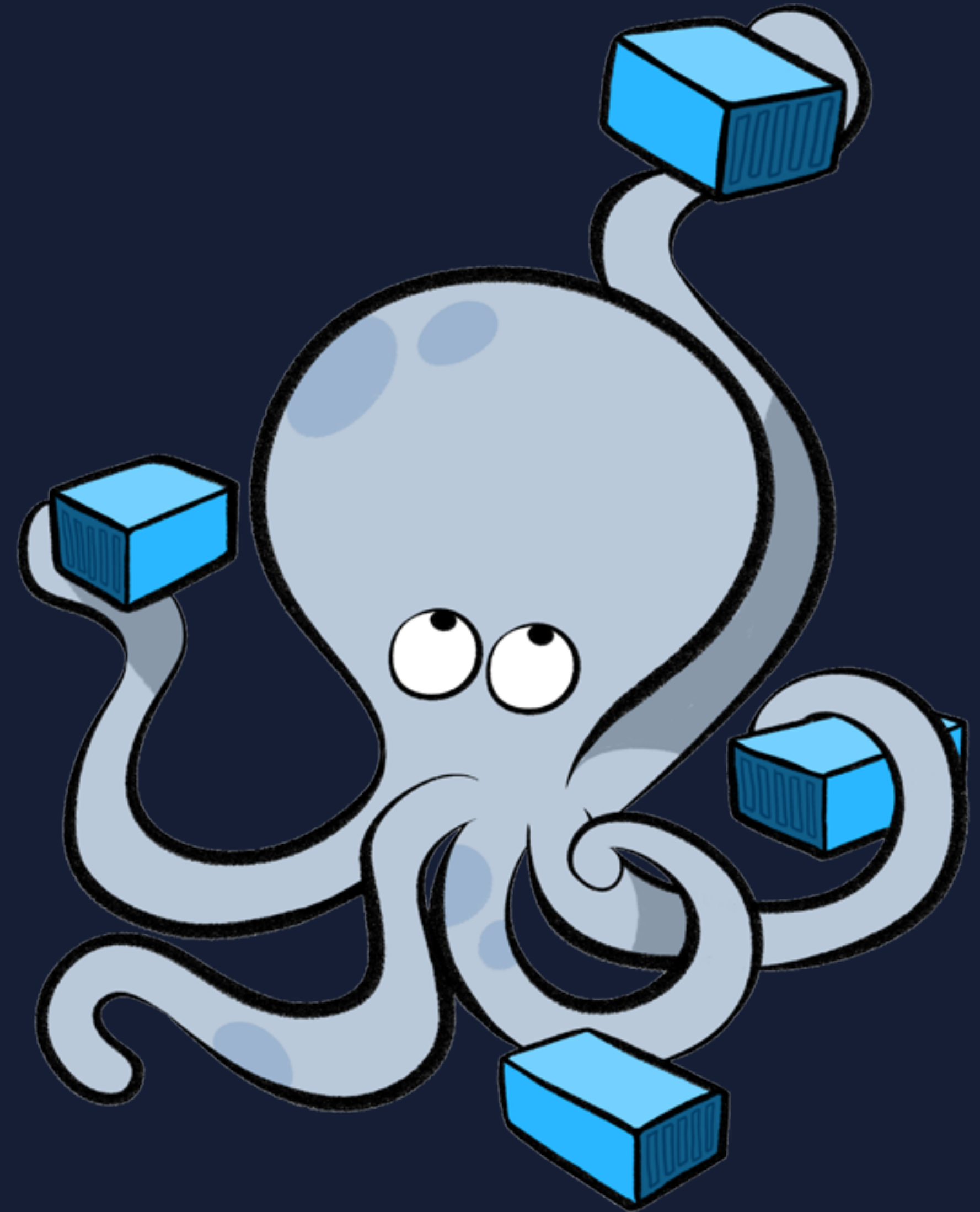
## WHAT DO I GET WITH DOCKER?

- ▶ Same runtime between dev, staging and production
- ▶ Lightning fast provisioning of environments
- ▶ Deployment using Docker Swarm Mode for top notch orchestration

# DOCKER COMPOSE

Manage a complete stack

- ▶ Containers need special configuration, depending on the actual application
- ▶ Containers need to connect with each other in a semantic way
- ▶ Containers have dependencies



**DEMO TIME!**

THE GREAT OF BOTH WORLDS

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**CLOUD DEV  
ENVIRONMENTS**

# THE CHALLENGES

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## THE CHALLENGES

- ▶ How you give easy **access** to these environments?
  - ▶ There should be no complication on accessing these environments
- ▶ You still need to **code using your local tools**
  - ▶ Each developer has her unique needs and wants
- ▶ There needs to be an **offline fallback**
  - ▶ Feeling bound to an Internet connection produces insecurity



**DEMO TIME!**

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**THANKS**