Practical PHP Deployment with Jenkins

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Practical PHP Deployment with Jenkins

- ## About me

  – PHP 5.3 Certified

  – Consultant at Zend Technologies

  – Zend Certification Advisory Board

  – Organizer SoFloPHP (South Florida)

  – Organized SunshinePHP (Miami)

  – Long distance (ultra) runner

  – Judo Black Belt Instructor

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- **Fan of iteration**
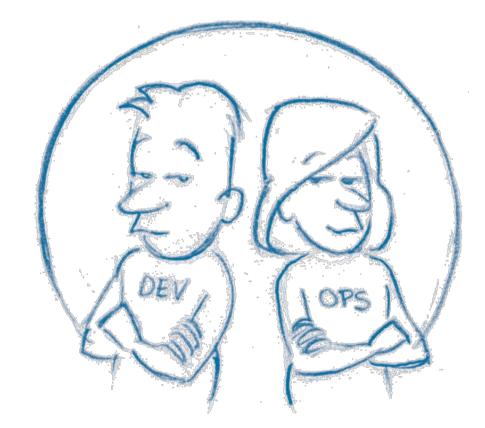
  - Pretty much everything requires iteration to do well:

    - Long distance running

    - Judo

    - Development

    - Evading project managers

    - Deploying!

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- **Dev VS Ops**
  - Dev = Ops
  - Dev doesn't like Ops
  - Can't communicate
  - Challenges syncing

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- **Continuous Delivery**

    - Not a single app solution

    - Many pieces

    - Not covered here

        - Provisioning of servers

        - Integration to monitoring

    - We will focus on:

- **Continuous Integration**

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- ## Deployment
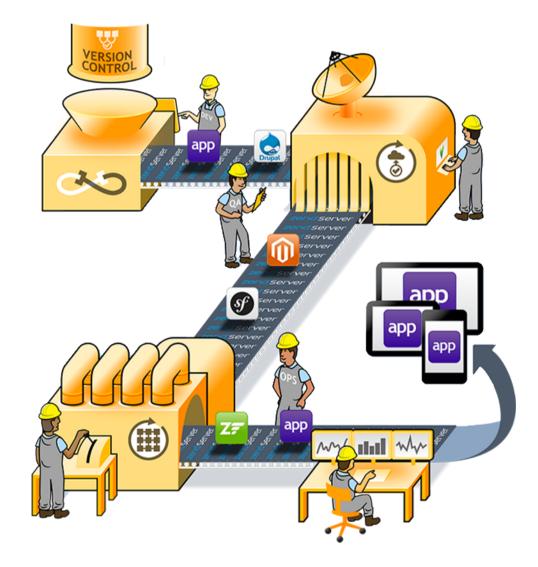
  – FTP works...NOT!

  – Many large PHP sites

  – Simple != solution

- **5 to 7 Releases…A Day!**

  – Not achievable with FTP

  – Must be automated

- **Ready To Deploy!**
  - Not after every commit
  - But always "ready"

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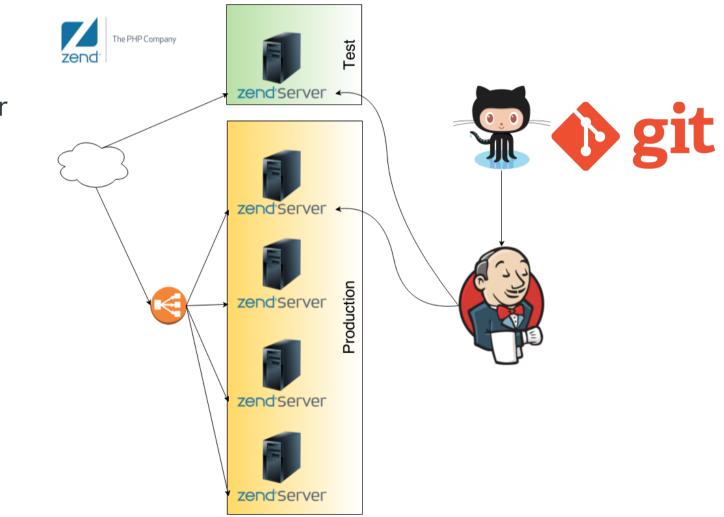- **Best Practices**
  - No holy grail here
  - Many dependencies
    - Development team
    - Application
    - Size of application
    - How to implement

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- ## Architecture
    - Git
    - Jenkins
    - Zend Server

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- **Zend Server**

  - Full PHP application stack

  - Supported

  - Consistent across OS

  - Automated deployment

  - Cluster management

zend®server

- **WebAPI – Restful Service**

    - Built API first

    - GUI is just the front-end

zend®server

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- **Source Control**

  - !Github here (just in case)

  - Using Git

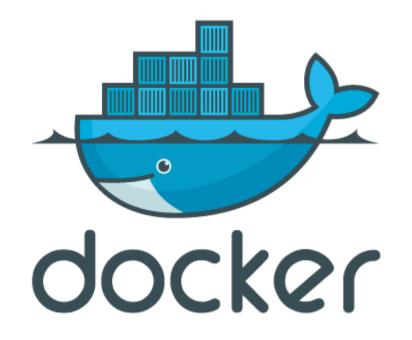# Practical PHP Deployment with Jenkins

- **PHP QA Tools**
    - http://phpqatools.org
        - PHPUnit
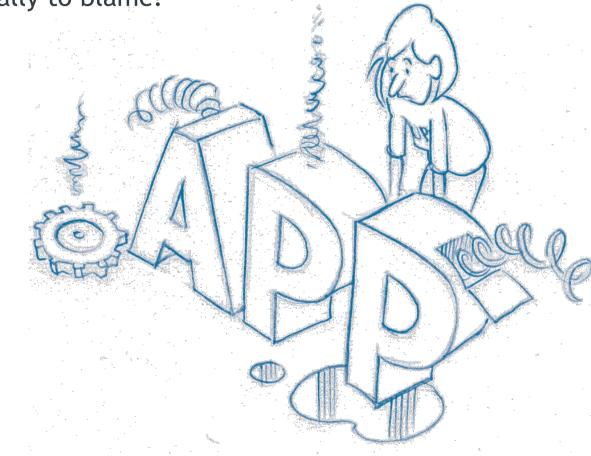   - pdepend

- **Docker**

  - Linux Containers

  - Versioned ("Git for servers")

  - Stores delta
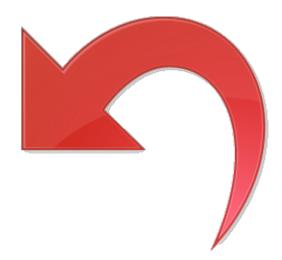
- **When Apps Break**

  – What's really to blame?

- **Root Cause Analysis**

  - What is the cause

    - How to prevent

    - How to fix

  - Needs to happen fast!

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- **Rollback**
  - Within 30 seconds
    - Even in a cluster!

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- **Demo**
    - Using Pimcore
    - Jenkins
        - Multiple jobs from:
            - Checkout
            - Testing
            - Packaging
            - Deployment to staging
            - Rollback
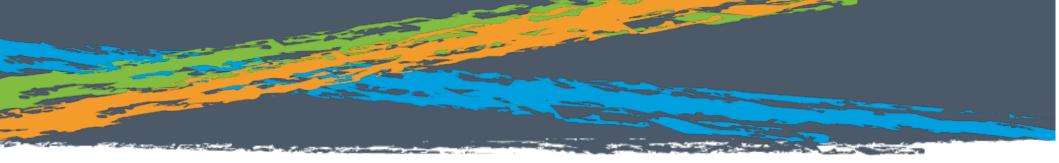   - Deploy to production (cluster)
    - Then we'll see the details

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- ## Jenkins plugins

  - Build Pipeline Plugin

  - Clone Workspace SCM plugin

  - x CloudBees Folder Plugin

  - Copy Artifact Plugin

  - Delivery Pipeline Plugin

  - Join Plugin

  - PostBuild Script Plugin

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- **Resources**
  - http://zend.com
  - http://zend.com/en/solutions/continuous-delivery
  - http://github.com/zend-patterns
  - GitHub
  - Jenkins
  - http://phpqatools.org

- **Thank you!**
  - Code: https://github.com/adamculp/

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Questions?