

# Simple DevOps With Jenkins

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Slides:

<http://drupalcampcharlotte.com/sessions/simple-devops-using-jenkins>

# What is DevOps ?

- ▶ Trendy buzzword for a lot of common sense
- ▶ Automate everything
- ▶ “Development” and “Operations” cannot be separate, and must support each other
- ▶ Associated with big software teams that can afford bureaucratic overhead (started as an anti-bureaucratic movement)
- ▶ However small shops can take the best ideas and use them

# What is Jenkins ?

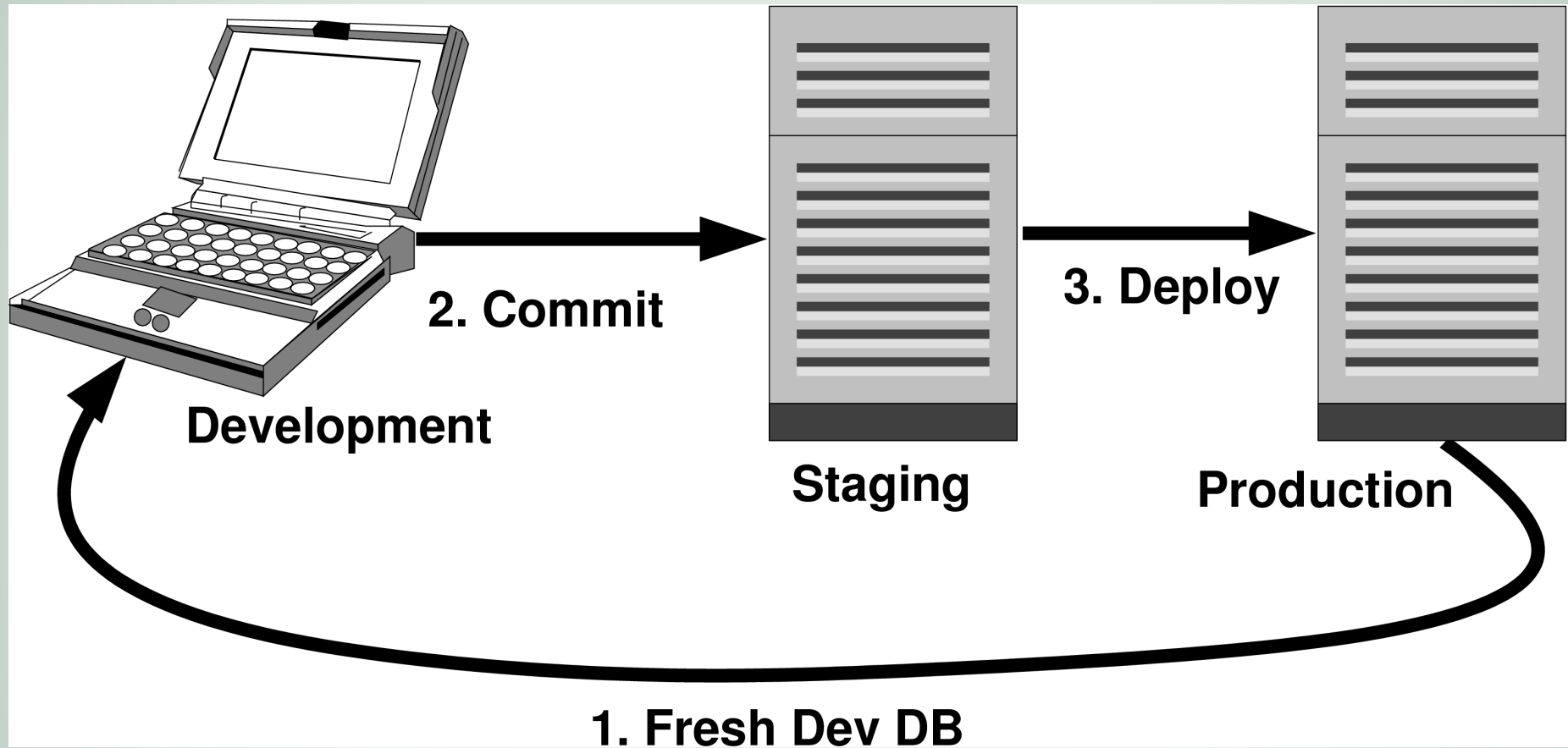
- ▶ <http://jenkins-ci.org/>
- ▶ Java based; a server, but also useful running locally
- ▶ Wide variety of plugins
- ▶ Supportive community - #jenkinsci on [irc.freenode.net](http://irc.freenode.net)
- ▶ Open Source, MIT License
- ▶ Not the only option, but best supported

# Jenkins Architecture

- ▶ A master server runs the java server
- ▶ Users (mostly) interact through a web interface
- ▶ “Nodes” (or “workers”) are computers that the master can log into through ssh (key based)
- ▶ “Jobs” are run on workers, the results are “builds”

**Walk Through:**  
**Installation**  
**Basic Security**  
**Key Setup**  
**Jobs and Logs**

# DevOps Workflow



# **Walk Through:**

## **Fresh Database**

## **Staging**

## **Deploy Live**

# Features / Update Hooks

- ▶ Code flows forward, Database backward
- ▶ “Zero Touch” on live (if possible)
- ▶ Not always practical for a small group or quick jobs



# Jenkins / Drush replacing cron

- ▶ Run “drush cron” from a Jenkins job
- ▶ Logs results
- ▶ Move custom heavy tasks (search indexing) to their own drush command and Jenkins job
- ▶ Can use php-cli.ini to allow more memory

# Backups

- ▶ Consider the “Backup and Migrate” module or tar / drush sql-dump
- ▶ You MUST test backups
- ▶ You MUST automate backups – otherwise it won't happen

# Summary

- ▶ Not a big overhead to start getting payoff
- ▶ Professionalizes your operation, even if you are a lone freelancer
- ▶ Come to me after the talk for examples of the jobs shown
- ▶ DrupalCamp Charlotte Survey:  
<http://bit.ly/KjPvhU>

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