

Introduction to DevOps

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What to expect...

- Where does “DevOps” come from
- What it means (and doesn't)
- What does it mean for **YOU**?
- Short live demo
- Practice, practice, practice

Where does DevOps come from?

- Software (should) aim to solve real-world problems for customers
- Time to get from problem to solution is important
- Time to get from solution to decommission is, too
- Historically a lot of “mud-slinging” happened during software delivery and support
 - “Others are delaying me.”
 - “You broke it. Why should I be called on a weekend?”

Where does DevOps come from? (cont.)



PnT DevOps

- Software delivery doesn't end when it "ships"
- **DEV**eloper **OP**eration**S**
- Separation of developers and operations was causing problems
- Vastly different mindsets set up to clash

So...what IS it?

- **DEV**eloper **OP**eration**S**
- Closest thing to “DevOps Manifesto”:
 - <https://sites.google.com/a/jezhumble.net/devops-manifesto/>
- A cultural, professional movement with attitude and values
- Cross-functional teams over organizational silos

So...what is DevOps NOT?

- Not Agile
- Not **really** a certification
- Not a role you have in a team. Being the only “DevOps” person in the team is a fail
- Not any specific tool or technology
- Not a specific process

So...how does it help?

- Encourages better communication and responsibility
- Values automation over documentation
- Encourages self-service infrastructure
- Encourages self-healing software that requires no support

So...what does it mean for you?

- “Good enough” might cause problems for others
- Build your skills across boundaries
- Bleeding edge tech is fun. Until you get a call in the middle of the night. And on a weekend

So...what does it mean for you? (cont.)



PnT DevOps

- Recognize your own manual work
- Automate it - there are tools to do it
 - Jenkins
 - CI/CD
 - Containers
 - Ansible
 - Kubernetes/OpenShift

DEMO (Automatic Builds)

DEMO (Self-Healing in Container World)

Workshop - Part 1

- Goal: Automatic container builds of your code
- Tech: Containers, Git/Github, quay.io
- <https://github.com/sochotnicky/mendelu-workshop>
 - **Fork it**
- Create account at <https://quay.io/>
- Create new repository with automatic container builds
- Test it

Workshop - Part 2

- Goal: Deploy your application on openshift.io
- Tech: OpenShift, containers
- Use your fork (or my repo)
- Create new space at openshift.io
- Details in the git repository



Questions?

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