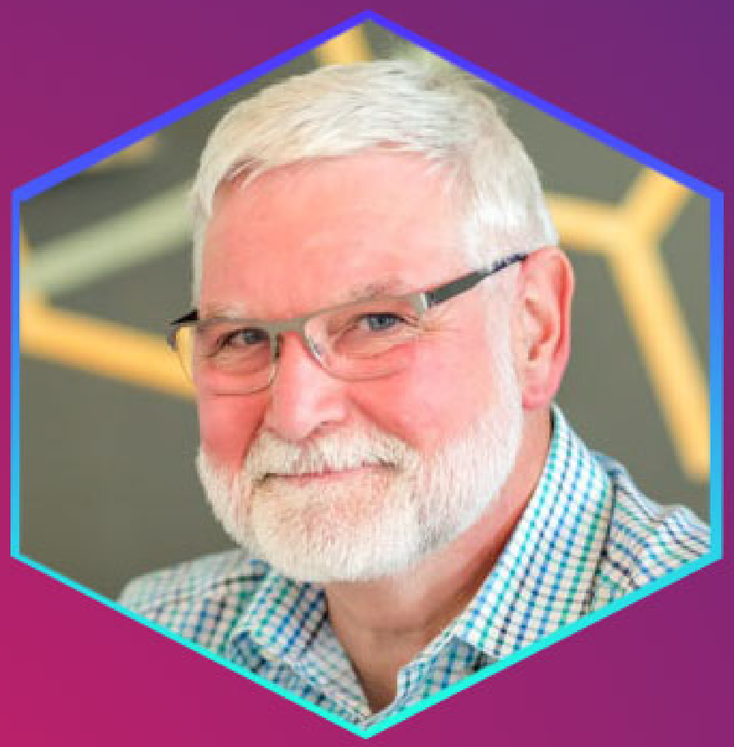
DevOps World

Jenkins World



Jean-Marc Meessen

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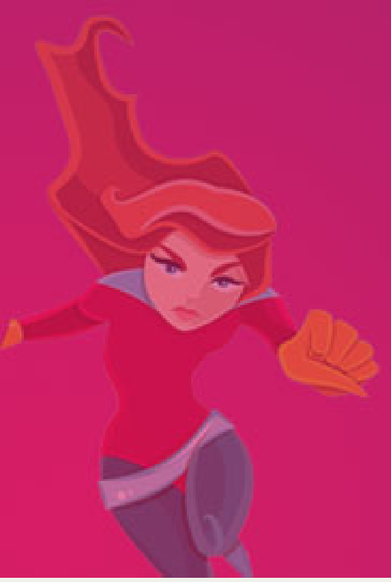
Featured Speaker

Dec 5

Automating Jenkins (re)installation: some thoughts, tips, and tricks



Lisbon | December 3 - 5, 2019

Automating Jenkins (re)installation:
some thoughts, tips, and tricks

Presentation available at: https://jmMeessen.github.io/slides/jw-eu-2019

Hello !!

- Jean-Marc MEESSEN:

Who are you?

What is configuration Management?

Pet vs Cattle

Automation, automation, automation!

- Frees precious time
- Repeatable
- Best emergency/repair tool
- Best way to avoid any malicious modification

In Source Control

- Visibility
- Peer review
- History
- Versioned ⇒ Revertable

Why should CI/CD systems be handled as a Pet ?

Automation objectives

- Provision new CI/CD cluster (or major components)
  - efficiently
  - repeatably
  - consistant
- Update the system
  - ex: change a setting, add a plugin

Automation objectives

- Peer-review mechanism for configuration changes
  - Keeps the audit/compliance team happy
- Easily manage very large CI/CD cluster
- Properly document the system
- support CI/CD power users
  - behind the scene warranty for creativity

Configuration Management philosophies

Golden Image

- in the early days
  - a lot of work to maintain
  - messy
  - "one size fits nobody"

Configuration Scripting

- Scripts solved a lot of these problems
  - added
    - readability
    - versioning
- At first ad hoc (bash) scripting
- then Chef, Puppet, Ansible, etc.

Golden Image revisited

- Docker/Containers
  - Golden Image new momentum
  - very short start time
    - image definition description files (dockerfiles)
    - particularly adapted to the Cloud scheduler (ex K8S)

But no silver bullet

- reality lies between
  - generalization (general purpose images)
  - need for fine grained customizations to adapt to the local constrains

Thank You !

@jm_meessen

jmMeessen

Slides: https://jmMeessen.github.io/slides/jw-eu-2019

Source on : https://github.com/jmMeessen/slides/tree/jw-eu-2019