

# Module Building in a Box

Presented by Michal Konečný Software Engineer – CPE Team

#### MBBox

- 1. What is MBBox?
- 2. Meet the team behind MBBox
- 3. Work on MBBox

# What is MBBox?

## History

- Created by Patrick Uiterwijk
- Python script for deployment of module building environment in OpenShift

#### Parts

- Koji Manages the module builds
  - Koji-builder repos
  - Koji-hub web
  - Kojira buildroot
- MBS Module build system
  - MBS Frontend web
  - MBS Backend worker



# Meet the team behind MBBox

#### Team

- Adam Saleh asaleh
- Leonardo Rossetti Irossett
- Michal Konečný mkonecny

#### Our goal

- Make deployment of MBBox easy in OpenShift
- Replace fedmsg with fedora-messaging
- Use existing certificate authority
- Use existing messaging system



# Work on MBBox

## Why operator?

- Templates are deprecated in OpenShift 4
- Works on both Kubernetes and OpenShift
- Configurable by admin
- Predefined deployments of pods



## Technologies

- Ansible operator code
- Molecule testing
- Quay.io image hosting
- Vagrant development environment
- minikube Lite kubernetes instance
- Zuul CI



#### Part one – dev env

- Vagrant
  - minikube
  - osdk operator SDK
  - Environment for original Python script
- Manual deployment in doc



#### Part two – Koji

- Separate roles for koji components
- Koji-hub
  - Critical component
  - Hard to get running in container
- Koji-builder
  - Hard to get it communicate to koji-hub
- Kojira



#### Part three - MBS

- Separate roles for MBS components
- MBS Frontend
- MBS Backend



## Part four - together

- Role for shared attributes
- Documentation
- Testing deployment in CentOS Openshift cluster



#### What's next?

- Make it available in public operator repository
- Automatic image build on release of components
- Automatic update in running operator
- OpenShift optimization
- Fedora messaging support for MBS
- Master component



# Questions?



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## References

- MBBox blog post
- MBBox repository

