

Continuous Integration with Jenkins, Docker  
and Compose

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# Agenda

1. Introduction
2. CI Workflow
3. Demo
4. Summary



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# Introduction

Oxford University Press and  
Oxford Global Languages

## About My Employer

- ▶ Oxford University Press (OUP) is a world-renowned **dictionary publisher**
- ▶ OUP launched the Oxford Global Languages (OGL) initiative to **digitize under-represented languages**
- ▶ OUP launched languages websites for **Zulu, Northern Sotho, Malay, Urdu, Indonesian, and Setswana**

**OXFORD**  
UNIVERSITY PRESS




# Zulu Language Website powered by Docker



ABOUT LOGIN ULIMI LWESAYITHI ▾

Powered by  OXFORD

Eng > Zu Type word or phrase 

Home > Translate > English to isiZulu > container

Translation of *container* in isiZulu

## container



NOUN (plural **containers**)

isiphathizinto, isitsha

### Examples

Fill this container with water

*Gcwalisa lesi phathizinto ngamanzi*

Be part of the  
living dictionary

ADD A WORD

### Newly added words

[assemblage](#)

*sbex\_mthembu329*

[crafts](#)

*junineo*

[image](#)

*kekeletso*

[carving](#)

*THALENTE*

ADD A WORD 

How do you say **raffle**  
in isiZulu?

How do you say **snack**  
in isiZulu?

DockerCon EU 2015

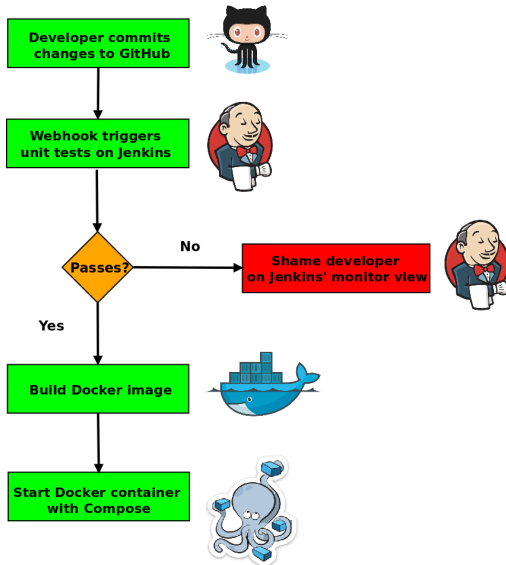


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# CI Workflow

Walkthrough

# Continuous Integration Workflow



# Walkthrough

I will show you:

- ▶ **Jenkins jobs** to run:
  - ▶ unit tests
  - ▶ Docker image build and container restart
- ▶ **Shell scripts** invoked by Jenkins
- ▶ **Docker Compose file**
- ▶ Simulation of
  - ▶ **successful build**
  - ▶ **unsuccessful build**



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# Demo

# Summary

I hope I managed to show you:

- ▶ How we use **Jenkins** to build and start applications running on Docker
- ▶ How we orchestrate containers with **Docker Compose** inside different environments
- ▶ How we automated our **CI workflow**



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Slides :  
[www.sandrocirulli.net/devops-oxford-meetup](http://www.sandrocirulli.net/devops-oxford-meetup)

GitHub :  
[github.com/cirulls/dockercon2015](https://github.com/cirulls/dockercon2015)

DockerCon Europe 2015 :  
[youtube.com/watch?v=cvmiMO\\_3NhA](https://youtube.com/watch?v=cvmiMO_3NhA)

OGL programme :  
[www.oxforddictionaries.com/ogl](http://www.oxforddictionaries.com/ogl)

