

OPENSIFT MEETUP

ROMA



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# HANDS-ON LAB

## OPENSIFT MEETUP ROMA



60 min

# LAB GOAL!

→ Distribuire gadget!

- Scaldarvi le dita!
- Improvvisare un micro hackathon
- Darvi un po'di autonomia

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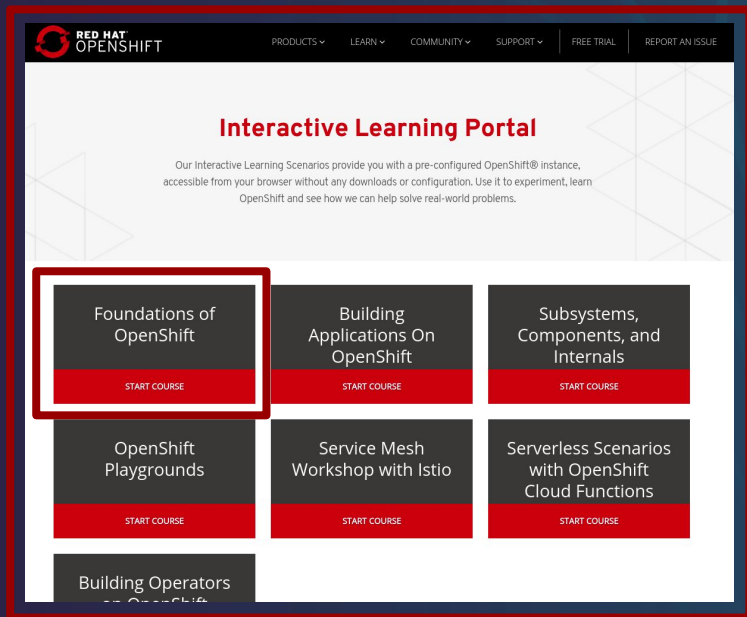


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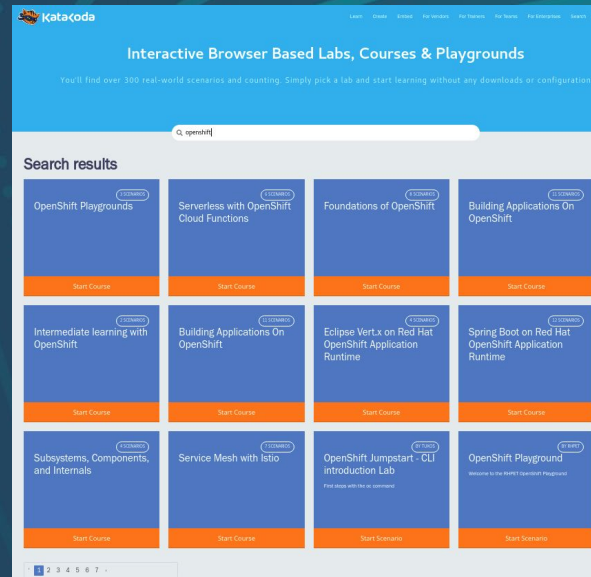
# HANDS-ON LAB - 1

## TRAINING DI BASE

# FREE TRAINING



<https://learn.openshift.com/>




<https://www.katacoda.com/learn?q=openshift&hPP=12&idx=sce narios&p=0&is v=1>

# GETTING STARTED



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## Getting Started with OpenShift for Developers

Step 1 of 6

### Step 1 - Exploring The Command Line

The OpenShift CLI is accessed using the command `oc`. From here, you can administrate the entire OpenShift cluster and deploy new applications.

The CLI exposes the underlying Kubernetes orchestration system with the enhancements made by OpenShift. Users familiar with Kubernetes will be able to adapt to OpenShift quickly. The CLI is ideal in situations where you are:

- 1) Working directly with project source code.
- 2) Scripting OpenShift operations.
- 3) Restricted by bandwidth resources and cannot use the web console.

For this section, our task is going to be creating our first project.

#### What is a project? Why does it matter?


The goal of this scenario is to get a project created and


Terminal

Dashboard

+

```
Your interactive Learning Environment Bash Terminal
$ ~/.launch.sh
Starting OpenShift
Waiting for OpenShift to start... This may take a couple of moments
OpenShift started.
Configuring... OpenShift Ready
$
```

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## Getting Started with OpenShift for Developers

Step 1 of 6

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Terminal

Dashboard

+



### OPENSIFT ORIGIN

Welcome to OpenShift Origin.

Username:

Password:

[Log In](#)

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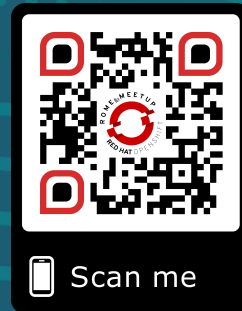


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# HANDS-ON LAB - 2

## MICRO HACKATHON

# MICRO HACKATHON



Lo scopo di questo LAB è fare hacking del GETTING STARTED appena concluso modificando il codice e configurando l'ambiente per automatizzare BUILD e deploy di sorgenti e container.

## STEP:

1. Effettuiamo un fork del [repo dell'app di demo](#)
2. Modifichiamo lo scenario "GETTING STARTED" puntando al nostro fork
3. Configuriamo i webhook per automatizzare la build
4. Facciamo un hack del codice! E godiamo dell'automazione

questsIssuesMarketplaceExplore

openshift-roadshow / nationalparks-katacode

Watch3

Star

Y Fork

Code

Issues0

Pull requests0

Projects0

Wiki

Insights

Backend component to build nationalparks (no database).

2 commits

1 branch

0 releases

1 contributor

Apache-2.0


Branch: master • New pull request

Create new file

Upload files

Find file

Clone or download

GrahamDumpleton

Add home page to do not return 404 when accessing root URL.

Latest commit 43842c2 on Feb 14, 2017

ose3	Version of national parks with no database.	2 years ago
LICENSE	Version of national parks with no database.	2 years ago
README.adoc	Version of national parks with no database.	2 years ago
app.py	Version of national parks with no database.	2 years ago
nationalparks.json	Version of national parks with no database.	2 years ago
requirements.txt	Version of national parks with no database.	2 years ago
wsgi.py	Add home page so do not return 404 when accessing root URL.	2 years ago

README.adoc

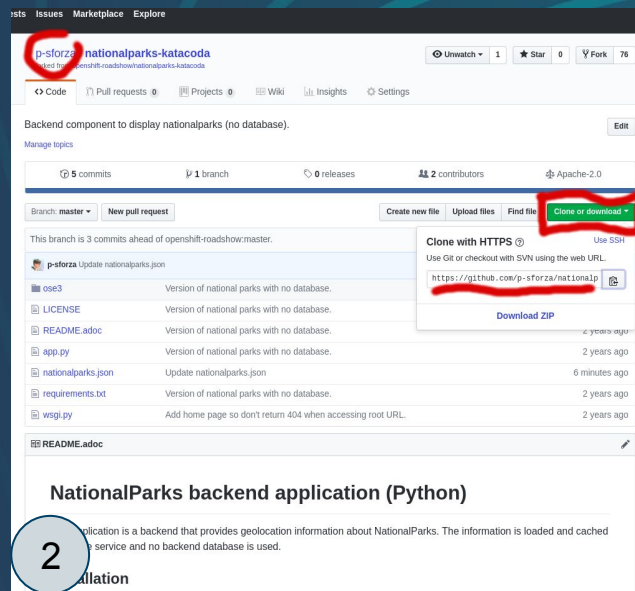
## NationalParks backend application (Python)

This application is a backend that provides geolocation information about NationalParks. The information is loaded and cached within the service and no backend database is used.

### Installation

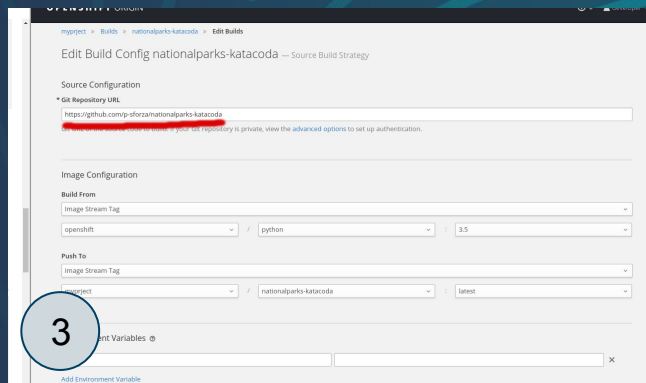
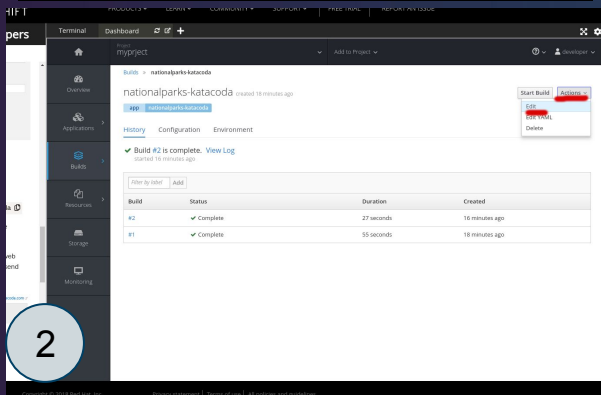
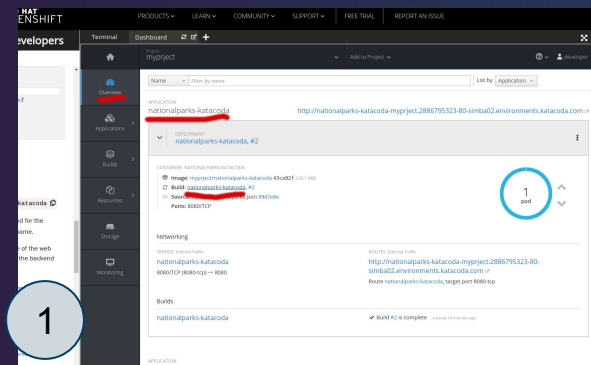
1. Following you're using the project 'roadshow':

okd





# PUNTIAMO LA BUILD AL NOSTRO FORK



[https://github.com/<YOUR\\_ACCOUNT>/nationalparks-katacoda](https://github.com/<YOUR_ACCOUNT>/nationalparks-katacoda)

# CONFIGURIAMO IL WEBHOOK (opzionale)

1

nationalparks-katacoda

Builds

1 pod

2

Name	Last Build	Status	Duration	Created	Type	Source
nationalparks-katacoda	#2	✓ Complete	27 seconds	24 minutes ago	Source	https://github.com/sforza/nationalparks-katacoda

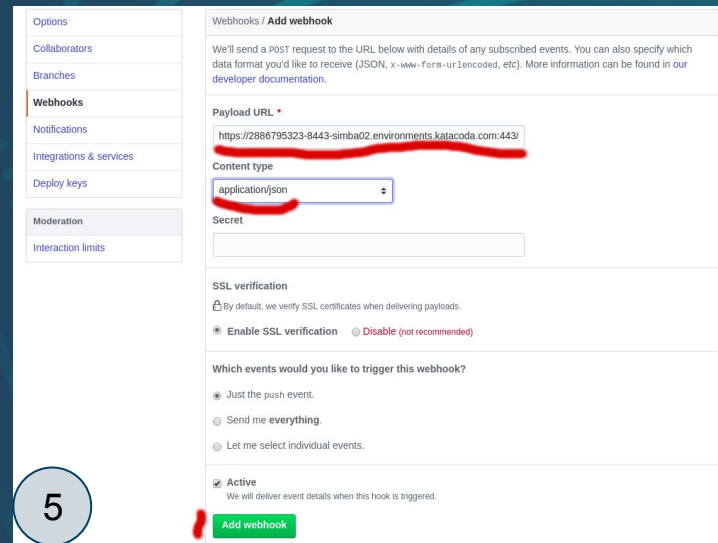
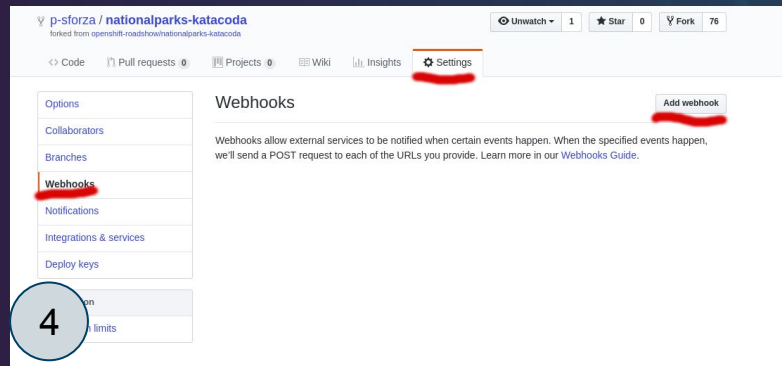
3

nationalparks-katacoda

Configuration

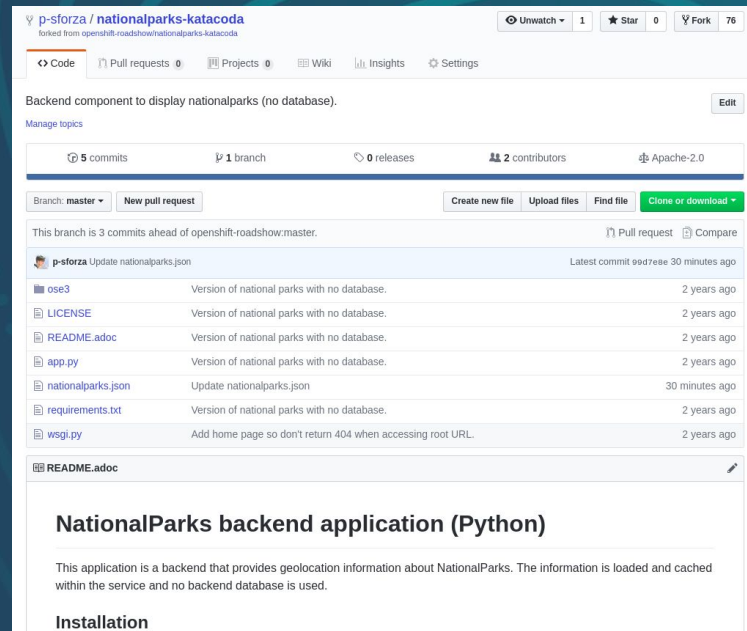
Generic Webhook URL

# CONFIGURIAMO IL WEBHOOK



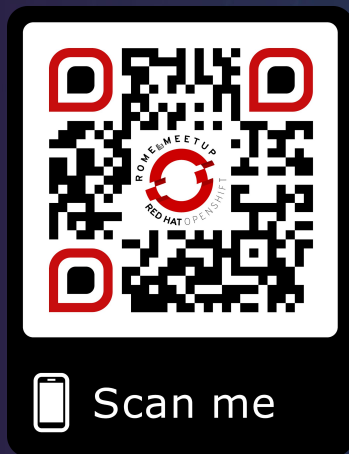
# HACK DEL CODICE!

1. Torniamo al nostro fork
2. Troviamo come l'app gestisce i punti sulla mappa
3. **Aggiungiamo un punto mancante!**
4. Committiamo il codice (Se NON hai configurato il webhook lancia la build in modo manuale dall'interfaccia di OpenShift)
5. Guardiamo il risultato!



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# HANDS-ON LAB - 3

## MINISHIFT SETUP

Preparing to Install Minishift



# INSTALLAZIONI LOCALI

## MiniShift

cluster OKD a nodo singolo all'interno di una macchina virtuale [ dettagli [qui](#) ]

## oc cluster

cluster OKD a nodo singolo in versione container e gestita dalle utility “oc” [ dettagli [qui](#) ]

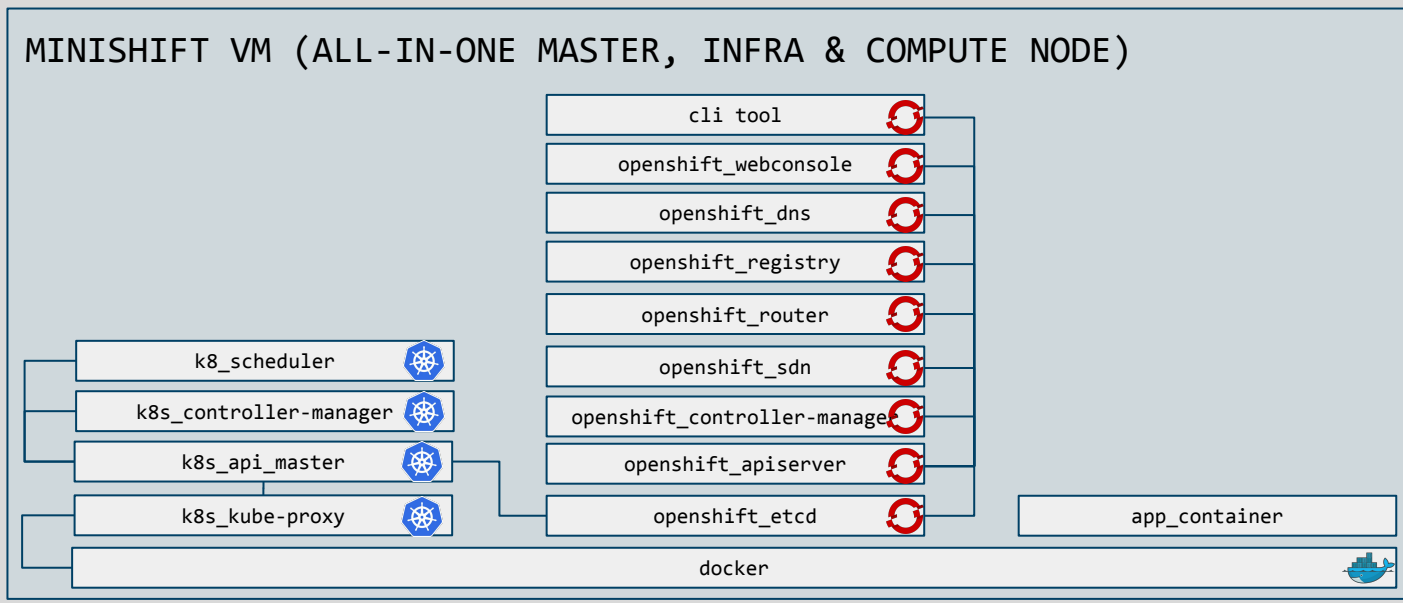
## Ansible



cluster completo (OKD o OpenShift Enterprise) [ dettagli [qui](#) ]

# MINISHIFT

## YOUR WORKSTATION



# MINISHIFT UP & RUNNING

1. Set up your virtualization environment
2. Download Minishift for your operating system
3. Install Minishift
4. Start Minishift
5. Configure Minishift

Preparing to Install Minishift



# Feedback Form

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