

OPENSIFT MEETUP

ROMA



Slide Lab

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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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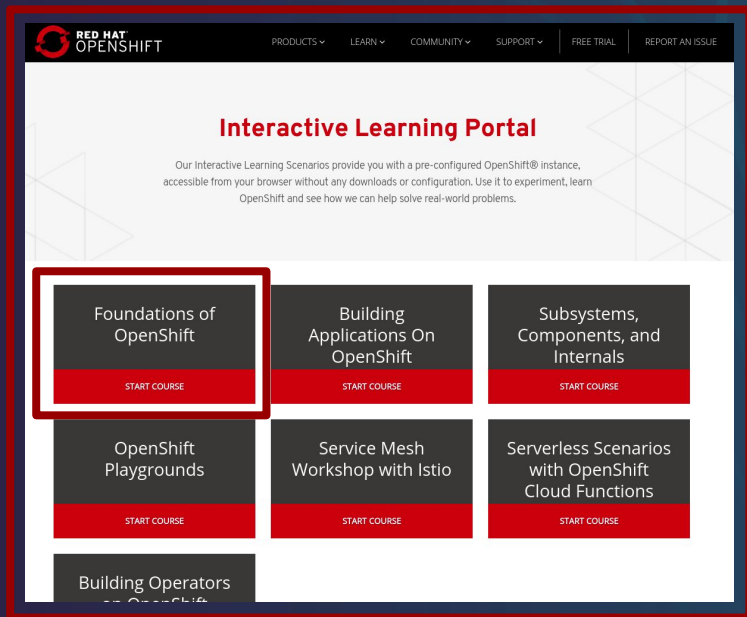


learn.openshift

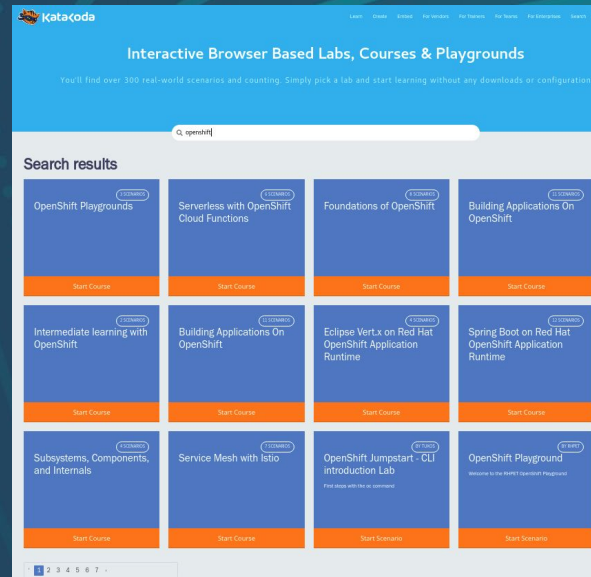
# HANDS-ON LAB - 1

## TRAINING DI BASE

# FREE TRAINING



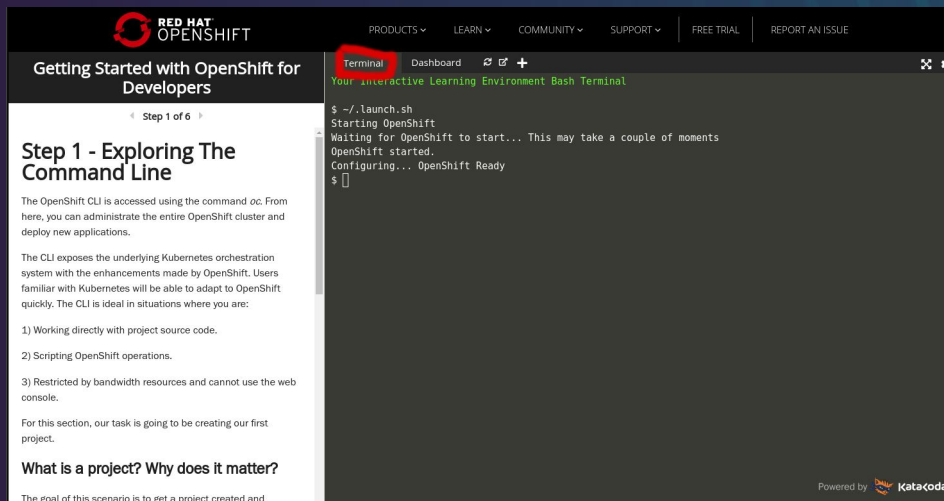
<https://learn.openshift.com/>



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

# GETTING STARTED

<https://learn.openshift.com/introduction/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?**

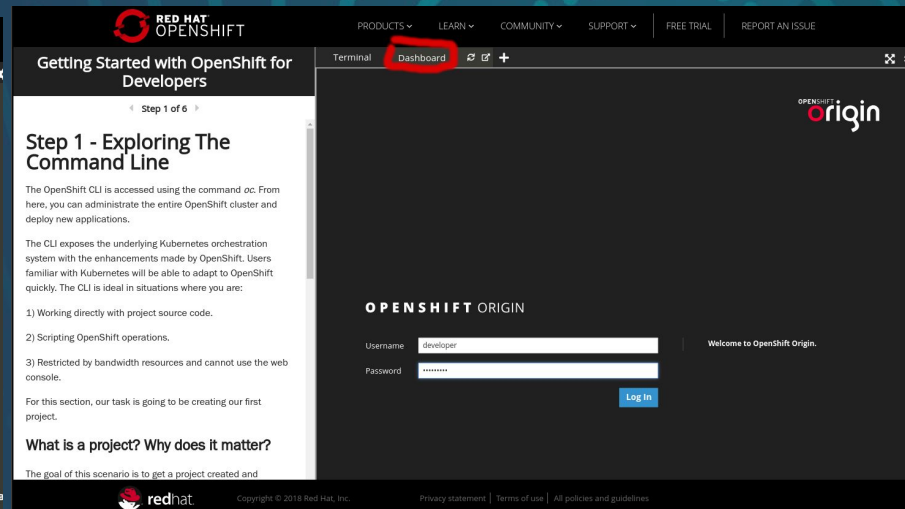
The goal of this scenario is to get a project created and

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
$
```

Powered by  KataCode



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## Getting Started with OpenShift for Developers

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Terminal Dashboard +

OPENS SHIFT ORIGIN

Username:  Welcome to OpenShift Origin.

Password:

[Log In](#)

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learn.openshift

# HANDS-ON LAB - 2

## MICRO HACKATHON

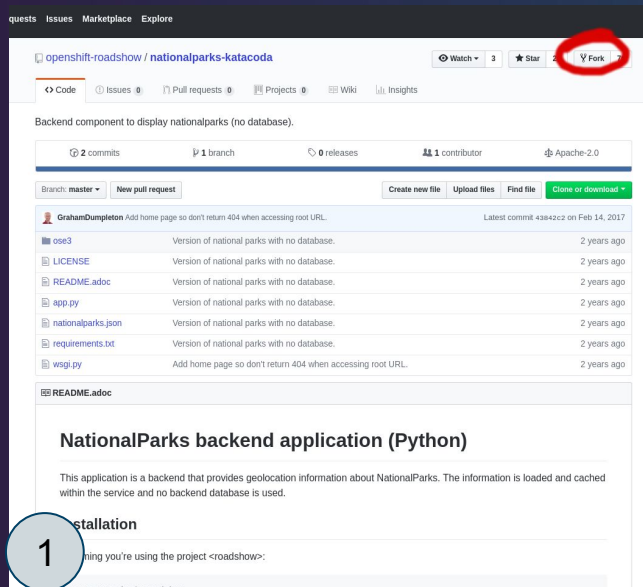
# MICRO HACKATHON

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.

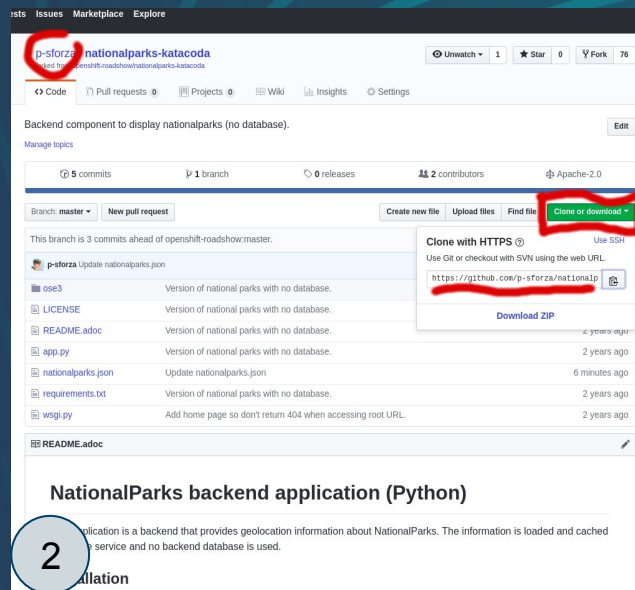
## STEP:

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

# FORK DEL REPO



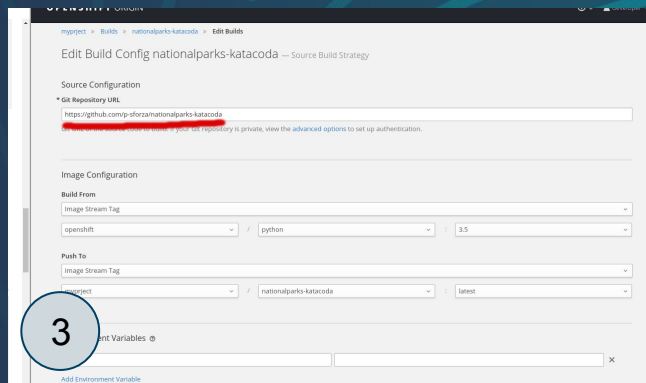
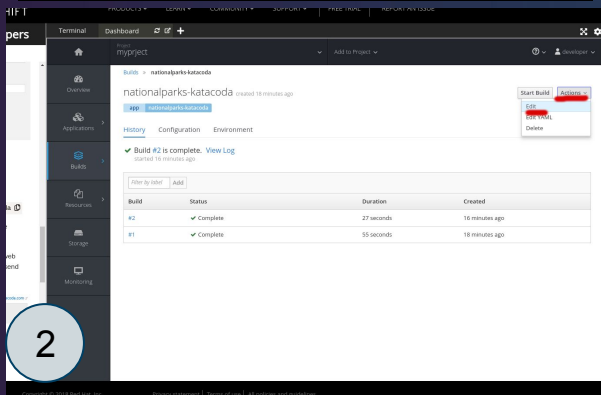
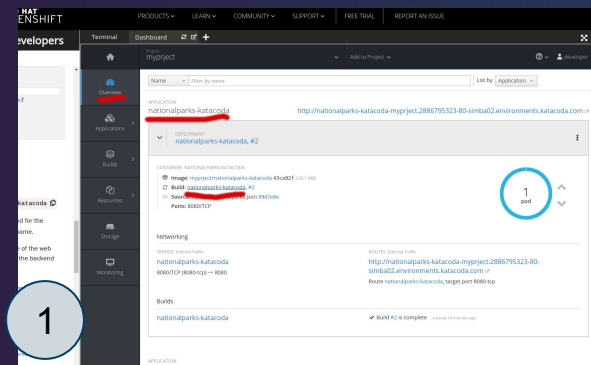
1 <https://github.com/openshift-roadshow/nationalparks-katacoda>



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



# 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

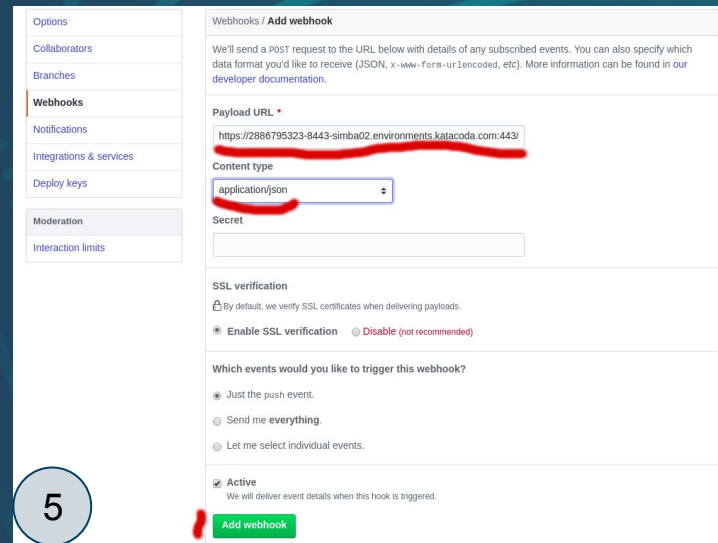
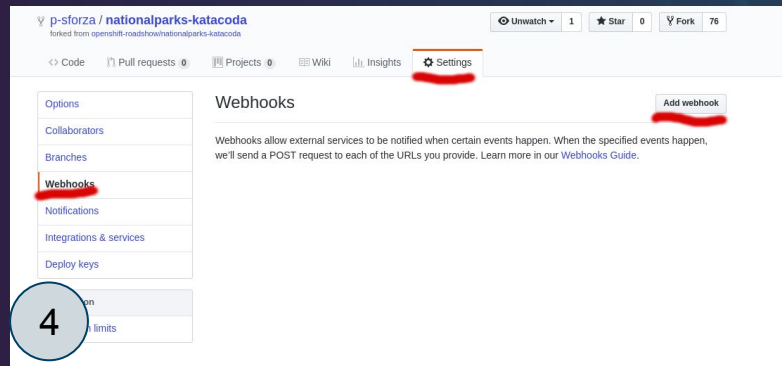
3

nationalparks-katacoda

Configuration

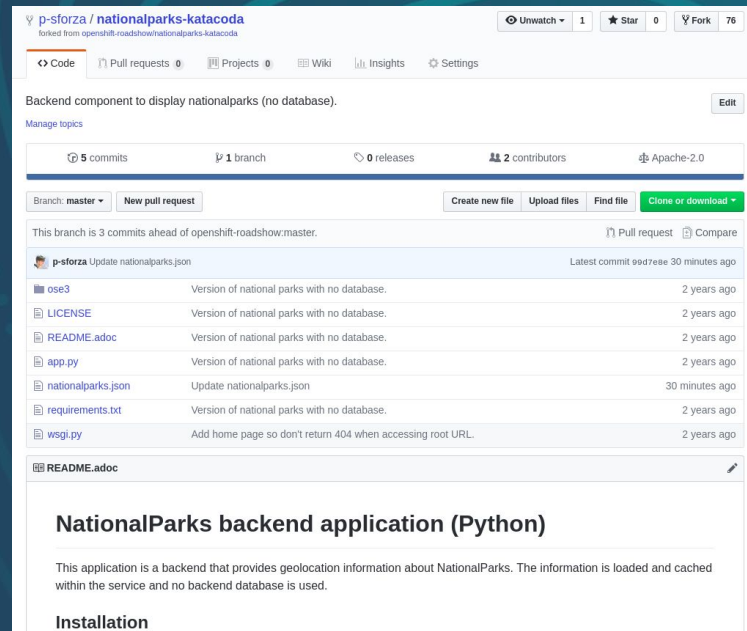
Generic Webhook URL

# 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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Minishift

# HANDS-ON LAB - 3

## MINISHIFT SETUP



# 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](#) ]

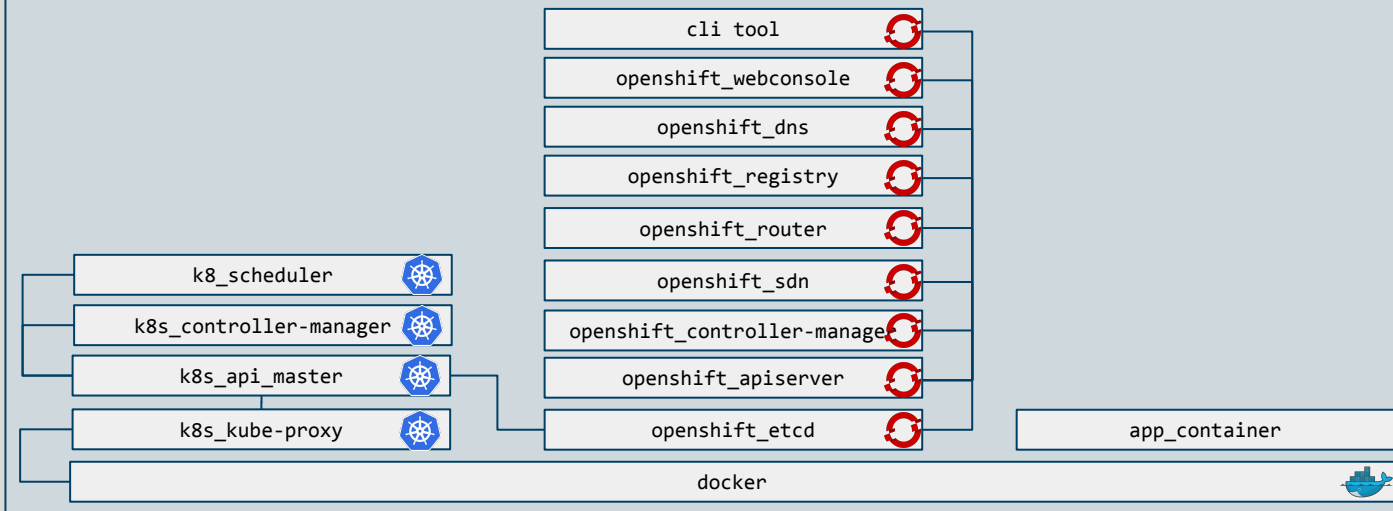
## Ansible

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

# MINISHIFT

## YOUR WORKSTATION

### MINISHIFT VM (ALL-IN-ONE MASTER, INFRA & COMPUTE NODE)



# 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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