

Shadow IT, Cloud & Identity

The “perfect storm” of security



Giuseppe “Gippa” Paternò
I'm usually here :/



The Cloud

(15'000ft view)



Marketing Manager
with a credit card!!



Shadow IT

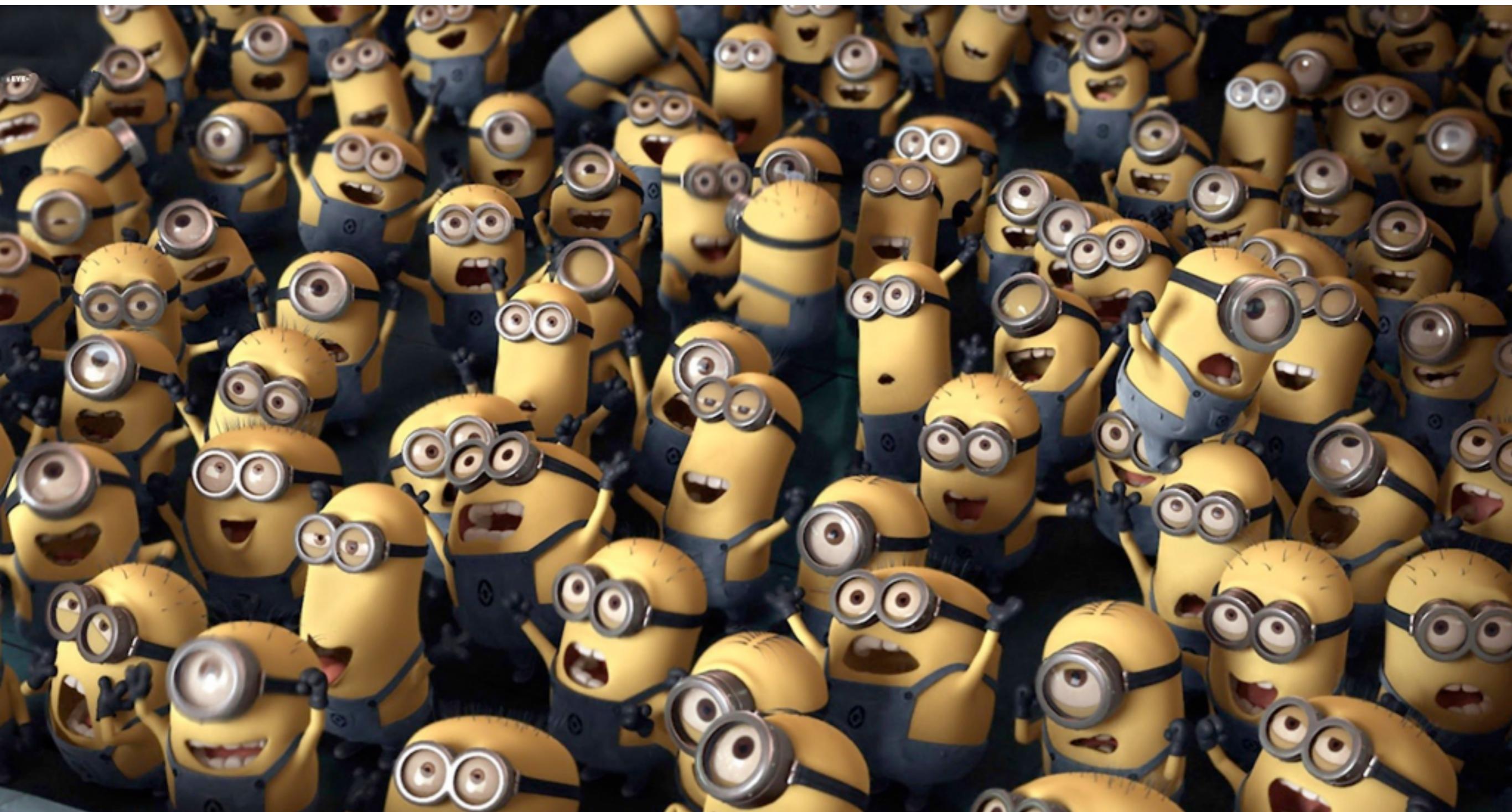
Goodbye IT.....
Your nightmares
become true

DevOps



The Cloud

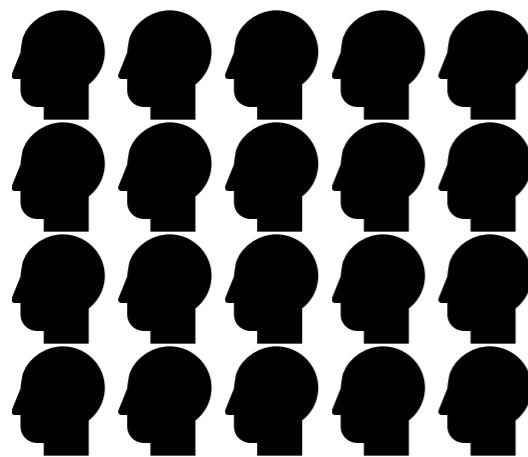
(more detailed view :)



Bots are awesome!



“Resistance
is futile”
NSA & GCHQ



10 millions
of victims of identity
theft in USA in 2008
(Javelin Strategy and Research,
2009)

2 billions \$
damages reported in Italy in
2009 (Ricerca ABI)



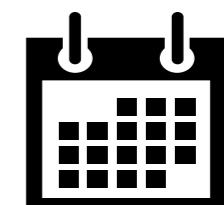
221 billions \$
lost every year due to identity
theft (Aberdeen Group)



35 billion
corporate and government
records compromised in 2010
(Aberdeen Group)

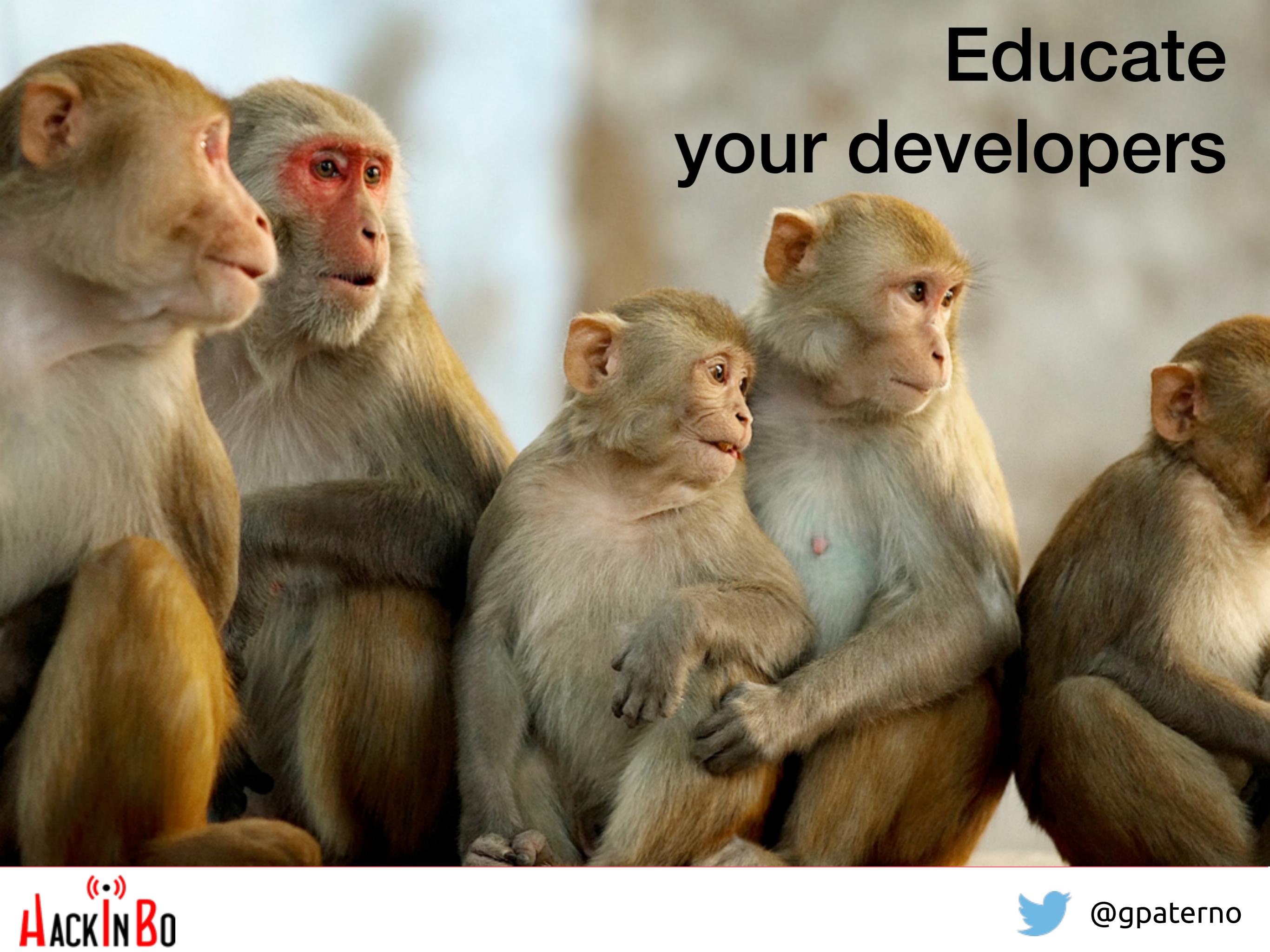


2 years
of a working resource to
correct damages due to
identity theft (ITRC Aftermath Study,
2004)





CALL
1-800-GIPPA

A photograph of several monkeys, likely rhesus macaques, sitting closely together. They are looking towards the right side of the frame. The monkeys have varying shades of brown and grey fur. One monkey in the center-left has a prominent red patch around its eye. The background is a soft, out-of-focus grey.

Educate
your developers

Rely on frameworks,
they are your lifebelt



Inspect inbound &
outbound traffic

Inspect/authorise
every single request

(is he/she entitled to perform the request?)



Check identities in Cloud

Rely on a proven
authentication backend!

Use a 2 Factor Authentication

A photograph of a person climbing a steep, light-colored rock face. The climber is wearing a colorful bandana with blue, yellow, red, and black patterns around their neck. They are gripping a vertical crack in the rock with one hand and have their legs pulled up towards their chest. The background shows more of the rocky mountain and some green vegetation at the top.

Underlying platform

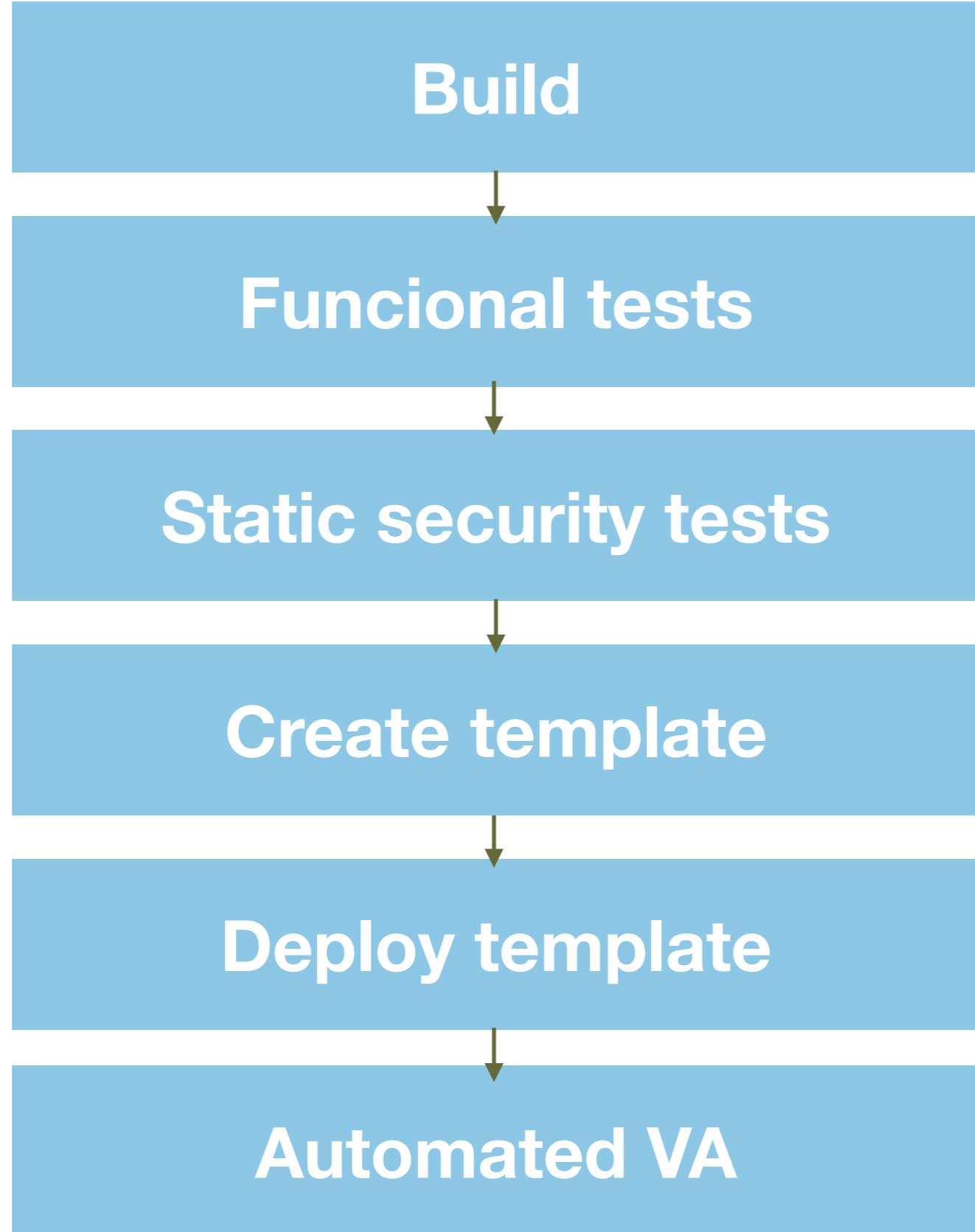
Use automation tools
(Puppet, Chef, Ansible, ...)



have regular audits :)



Continuous Integration / Continuous Security



Static code analysers

- [http://samate.nist.gov/index.php/Source Code Security Analyzers.html](http://samate.nist.gov/index.php/Source_Code_Security_Analyzers.html)
- http://en.wikipedia.org/wiki/List_of_tools_for_static_code_analysis
- <https://github.com/google/firing-range>

<vendor>



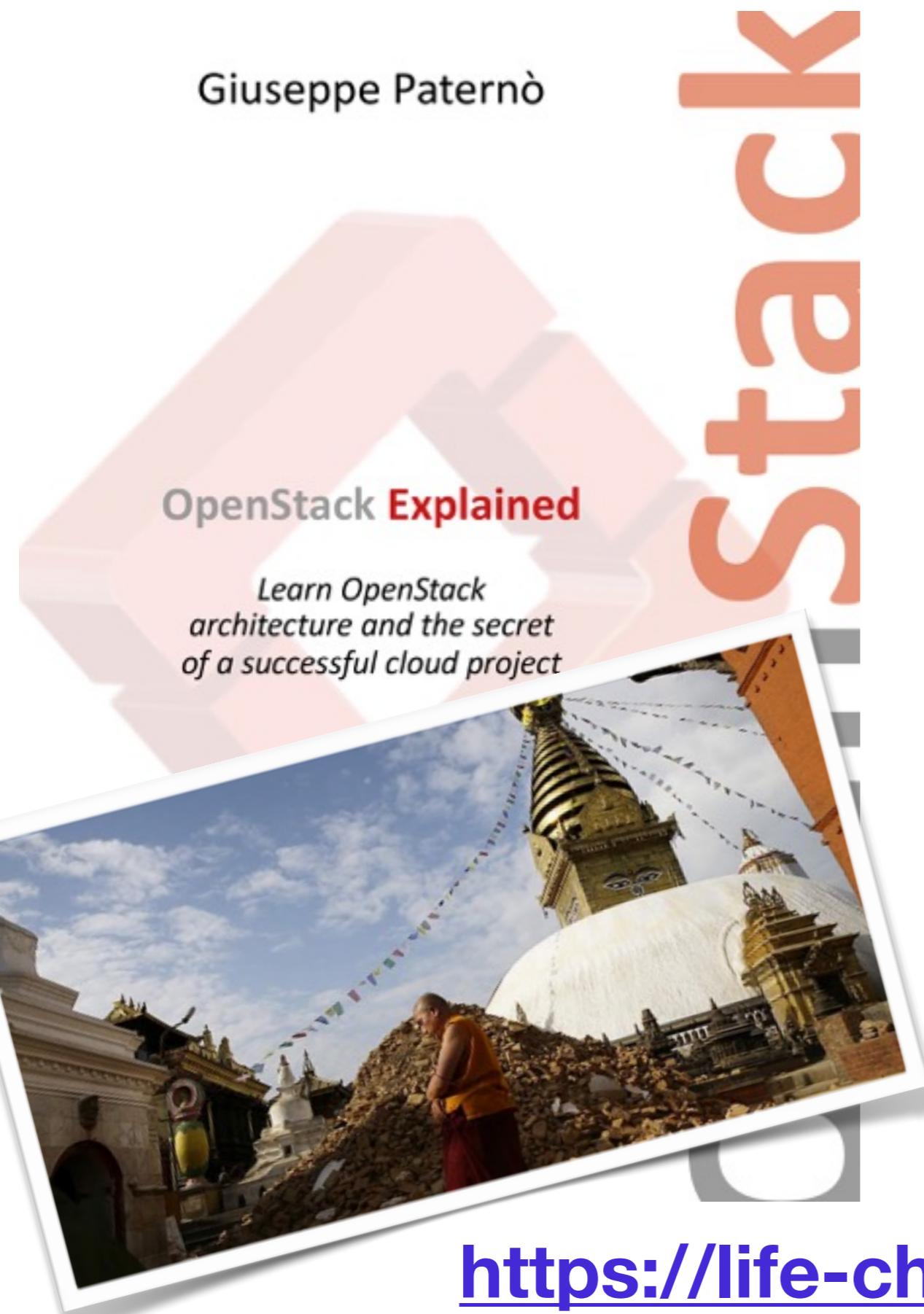
Cloud Identity Management
Two Factor Authentication
Web Single Sign-On

Few minutes to integrate
www.secure-pass.net
(free account available)

Lab exercises tomorrow :)

</vendor>

Giuseppe Paternò



OpenStack

“Giuseppe is paving the way for enterprises to embrace OpenStack.”

Gianluca Pancaccini, CIO of *Telecom Italia*

“Giuseppe has done a great job of creating an important source of information on OpenStack technology”

Jeff Cotten, CEO of *RackSpace International*

“SUSE appreciate Giuseppe clear and concise explanation of OpenStack and it's architecture.”

Ralf Flaxa, VP of Engineering SUSE



Donate now:
<https://life-changer.helvetas.ch/openstack>

**Quantunque
cchiù Cloud per tutti!!**

Giuseppe Paternò
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