

**INNOVATION**



ITIVITI

# When Failure Is Not an Option: From Fully Manual to Slack-based Deployments at Itiviti

Antoine Moreau (Itiviti) - SVP - Head of Infrastructure Services, Itiviti Group

Lisa Wells (XebiaLabs) - VP - Product Marketing

DOES 2019

26th June 2019



Itiviti helps financial institutions worldwide  
to seize opportunities early and  
**capture tomorrow**



# A new leader in global capital market technologies



**1000**

employees with technology  
& financial industry expertise.



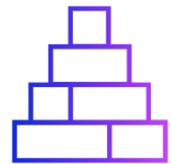
**+400**

product management and  
engineering staff in R&D.



**17**

locations across the Americas,  
EMEA and APAC.



**+30**

years of combined experience.



**+1656**

global customers, including top-tier  
brokers, banks, exchanges and  
institutional investors.



**+240**

local services and support staff.

## GLOBAL PRESENCE

Both in terms of numbers of  
clients and revenue created.



- Americas
- EMEA
- APAC

# So what do we do?

## First of all, who is the we?

- We deliver bespoke trading solutions in a mutualized managed environment
- Executing the orders of **29 000+** institutional clients over **3 600+** physical connections which represents more than **38M** of messages daily
- Operating on a **24/6** basis



# Why failing is not an option



Client satisfaction



Rollback is not always  
an option



Tangible financial loss



Regulatory  
consequences

# Our landscape in 2015

**286**

platforms managed

**1000+**

production deliveries  
per month

**1100+**

UAT deliveries  
per month

**17**

employees in the  
production team

**98%**

deployment  
success rate

**30**

minutes average  
spent on each  
deployment

## And also:

- Hours spent on the most complex changes
- Already using Ansible & Jenkins

# DevOps initiative origin at Itiviti



2015



Devopsdays &  XebiaLabs  
unexpected encounter



# So why DevOps?



- No source control for configuration and deployment plan
- DEV / UAT / PROD environments not identical
- Very tedious and manual deployment process
- Organization constraints
- Scalability challenges
- Strong dependency on the production team

# Challenges

1

No tools

2

No resources

3

No infrastructure

4

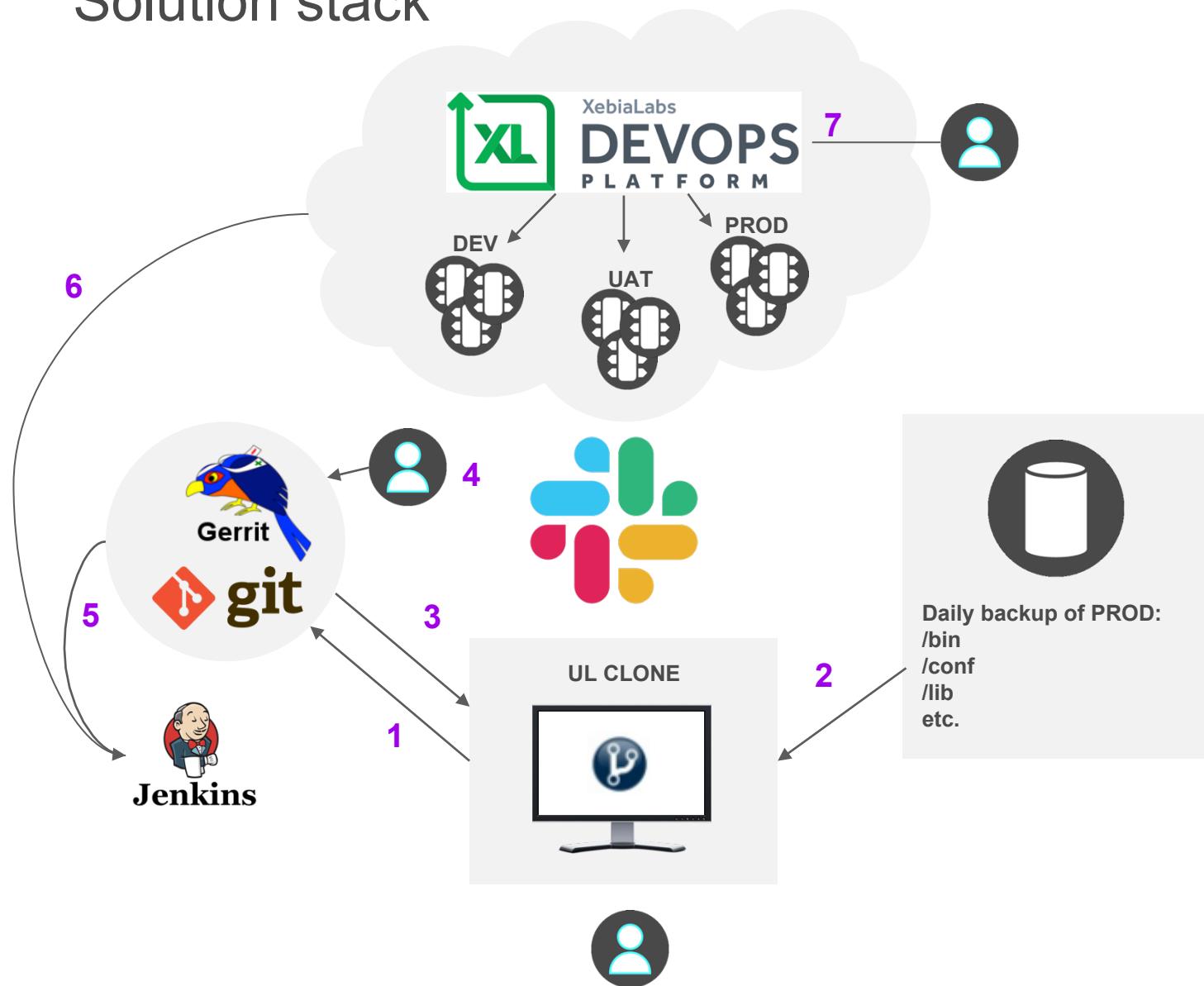
People fear losing  
their position

5

Clients were  
actually resistant  
to this change!

But we had the will, the mindset and the support of our management.

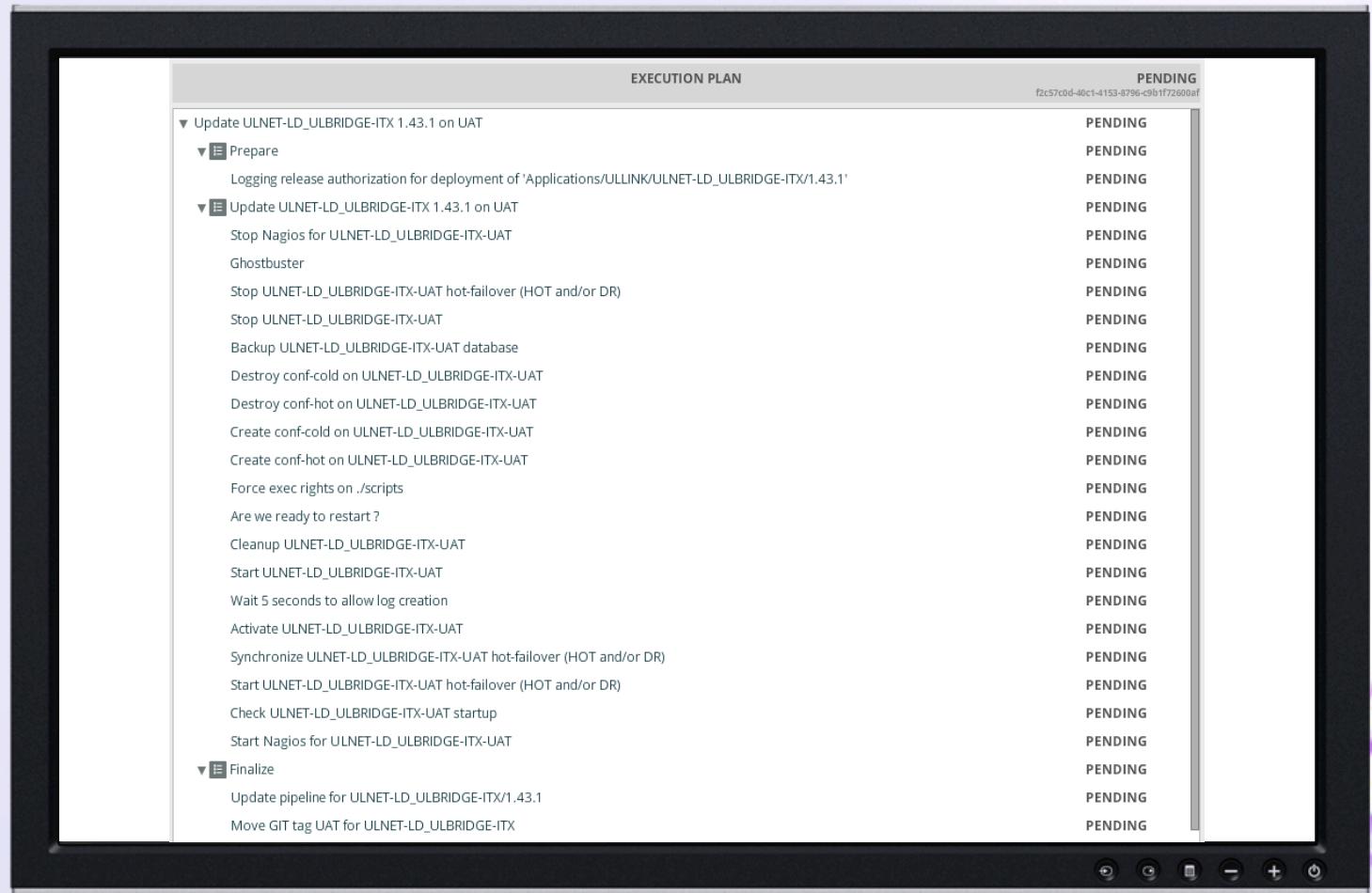
# Solution stack



1. UL CLONE performs a copy (aka “checkout”) of the platform’s Git project
2. RSYNC of the platform’s daily backup of the PROD environment to retrieve files not under source control
3. User works locally on the platform and pushes changes to Gerrit
4. Changes are reviewed (Review bot + Peer review) in Gerrit
5. Once validated (+2) Jenkins automatically builds a package (DAR file) of the platform
6. Jenkins pushes the package to XebiaLabs
7. The package can now be deployed to DEV/UAT/PROD

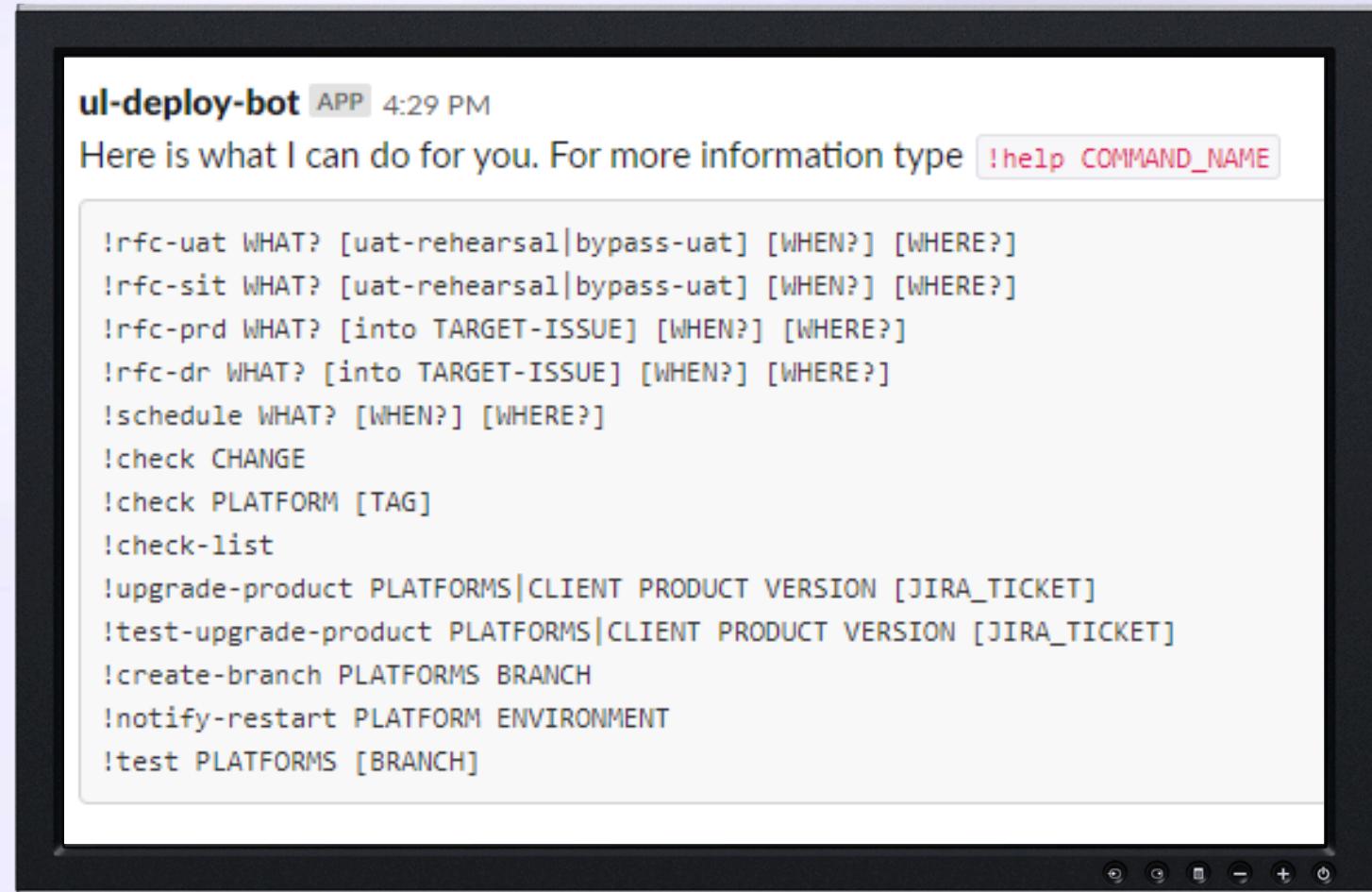
# What about deployment flexibility?

XebiaLabs provides it



# What about automation?

Slack BOT to solve it all !



# Outcomes

**397**

platforms managed  
(+38% since 2015)

**1300+**

production deliveries  
per month  
(+30% since 2015)

**2300+**

UAT deliveries per  
month  
(**+210%** since 2015)

**18**

employees in the  
production team  
(+1 headcount since 2015)

**100%**

deployment  
success rate

**5**

minutes average spent  
on each deployment  
(6x faster)

## And also:

- Increased traceability
- Alignment with the engineering best practices

# What's next?



Exposing this solution  
to our clients



More automation,  
especially around  
integration tests



Containerization  
of our solutions



Handling mass  
upgrades

# Lessons learned

- Don't listen to your clients!
- What is the problem that you want to solve? I mean, really want to solve...
- Identify your champions and detractors
- We got lucky in regards to our timeline, will you?
- Transversal approach vs client approach



**Antoine Moreau**

SVP - Head of Infrastructure Services, ITIVITI Group

Email: [antoine.moreau@itiviti.com](mailto:antoine.moreau@itiviti.com)

