

NLVMUG– 16 maart 2017

VMUG[®] USERCON



VMUG **USERCON**

The Why, What And How Of Automation



“Power is gained by

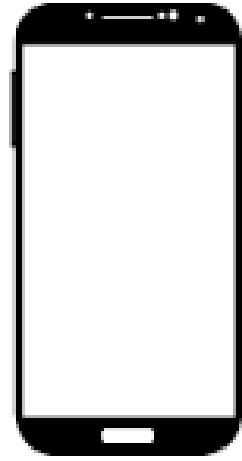
SHARING KNOWLEDGE

Not hoarding it”

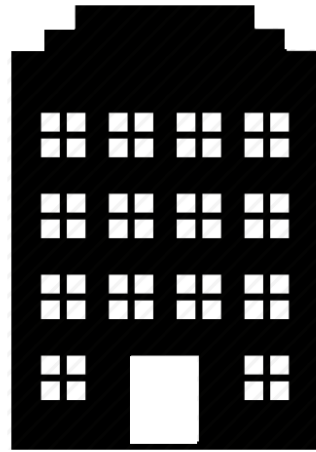


Christiaan Roeleveld
@vChrisR
Automate-it.today

Ruurd Keizer
@RuurdKeizer
Devops.lol
Vroapi.net



How often do you visit a bank office?



How did you book your vacation?



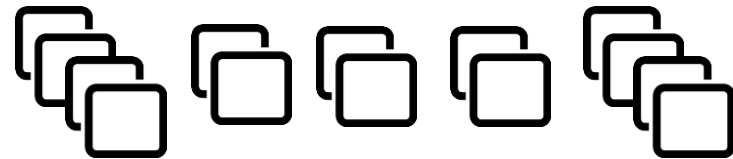
Why Automate?

- Efficiency
- Consistency
- Compliance

How “digital” is your employer?



How many Virtual Machines do you Run?



How many did you run 6 years ago?



How much time do you spent deploying VMs?



Now it's ITs turn to automate

Why Automate IT?

- Digitization requires more IT
- Do more with less
- Speed of innovation is ever increasing

What to automate?

- Automate Processes not tasks!
- Build a factory!



Examples

- Hardware lifecycle
- VM lifecycle
- OS Delivery
- Application deployment
- Code deployment

Which process do you want to automate?

Selecting a 'What'

1. Business Goals
2. Which IT processes are involved?
3. Which process “bottlenecks” the business goals?
4. Automate IT!

How to Automate

- Start with the 'what'
- Choose the best tool for the job
- First walk then run
- Iterate

Example 1: University

- Why:
 - More efficient delivery of machines to researchers
 - Less labor intensive
 - Faster delivery
- What:
 - Virtual machine delivery including OS and according to existing standards

Example 1: University (cont.)

- How:
 - vRrealize Automation / Orchestrator
 - vSphere infastructure
 - 3th party Integrations
 - Focus on services not infrastructure
 - Custom integrations:
 - Hostname generation
 - IPAM
 - Active Directory
 - CMDB
 - Monitoring
 - Puppet

Demo time

vRealize Automation

Example 2: Bank

- Why:
 - Shorter time to market for in-house developed applications
- What:
 - Deploy code through dev/test/acc/prod

Example 2: Bank

- How:
 - Cloud Foundry
 - Unit of deployment = application not VM
 - Dev/prod parity
 - DevOps
 - Cloud native / 12 factor development
 - More Agile development
 - Design for failure
 - Horizontal scaling

Demo time

Pivotal Cloud foundry

Conclusion

- Why: Digitization
- What: Processes
- How: Using the right tool for the job

Questions?
Thanks for Attending!

