



Connect

Maintaining security in a changing world

Inspirational session – Leveraging an automation platform & Git to secure a bank

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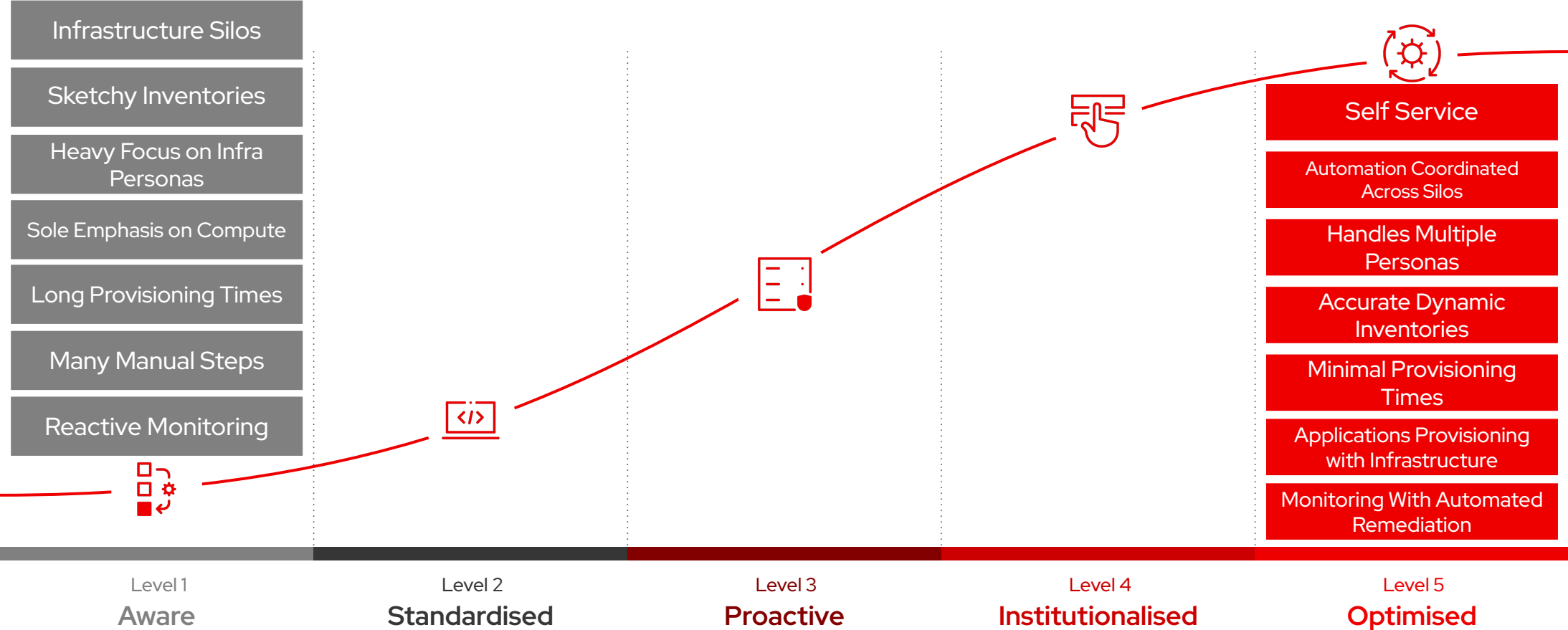


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Enterprise Automation Maturity



The reality is this: **success at scale with automation is not a given**

Structural challenges can hinder adoption and ROI



*Onboarding
challenges*



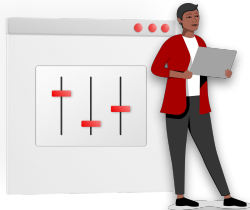
*Inconsistent code +
automation content*



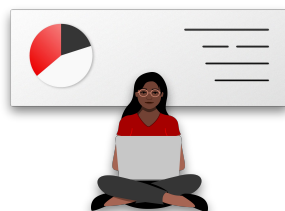
*Operational
silos*



*Divided approaches
across domains*



Onboard



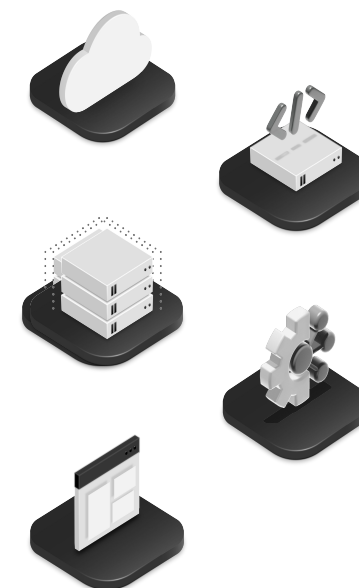
Create



Operate



Scale



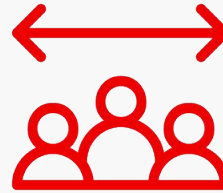
Achieve goals and focus teams with advanced automation techniques



Speed

Reduce the number of manual steps, enable orchestration of multiple tools and accelerate cross-tool interaction

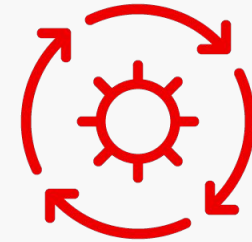
Become more agile



Consistency

Minimize risks with automated workflows, avoid human errors and use auditable and verifiable processes

Ensure resilience



Innovation

Innovate to more advanced levels of automation and free productivity for innovation and higher level projects

Transform IT

Achieve goals and focus teams with advanced automation techniques



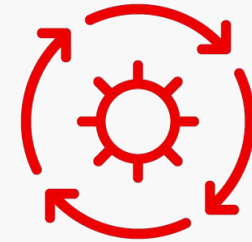
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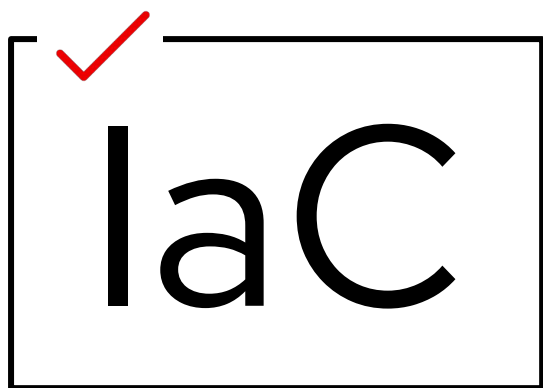
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Transform IT

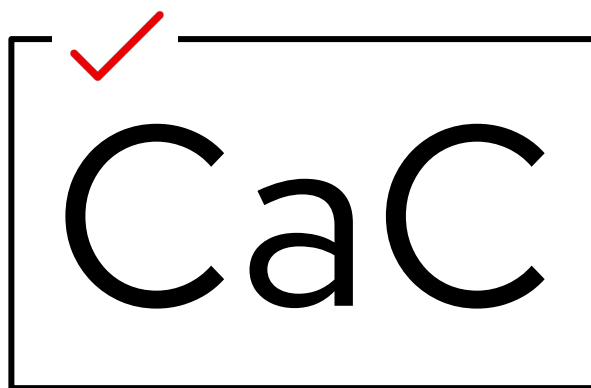
Automation & the operational lifecycle

Control, predictability and operational confidence



INFRASTRUCTURE

Provisioning of infrastructure through code instead of manual processes



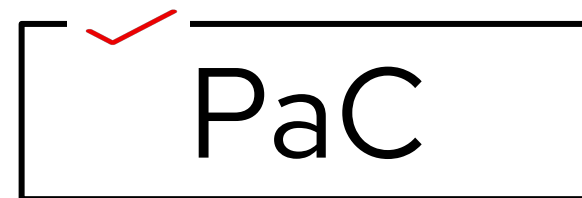
APP & PLATFORM

- *Source control and standardise the configuration of your app*
- *Automate the automation*



OPERATIONS

Codify the management and maintenance of systems after they are deployed



APPLY RULES to manage your automation

Start to automate governance, risk, and compliance processes for your automations



Automation & the operational lifecycle

Control, predictability and operational confidence



Then I can apply GitOps principles?



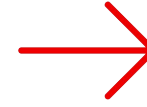
Declarative

A system managed by GitOps must have define its desired operating state separate from the procedures of how that state will be achieved



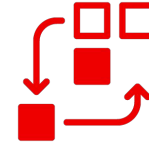
Versioned and Immutable

Desired state is stored in a way that enforces immutability, versioning and retains a complete version history.



Pulled Automatically

Software agents automatically pull the desired state declarations from the source.



Continuously Reconciled

Software agents continuously observe actual system state and attempt to apply the desired state.



Maintaining security in an ever changing world

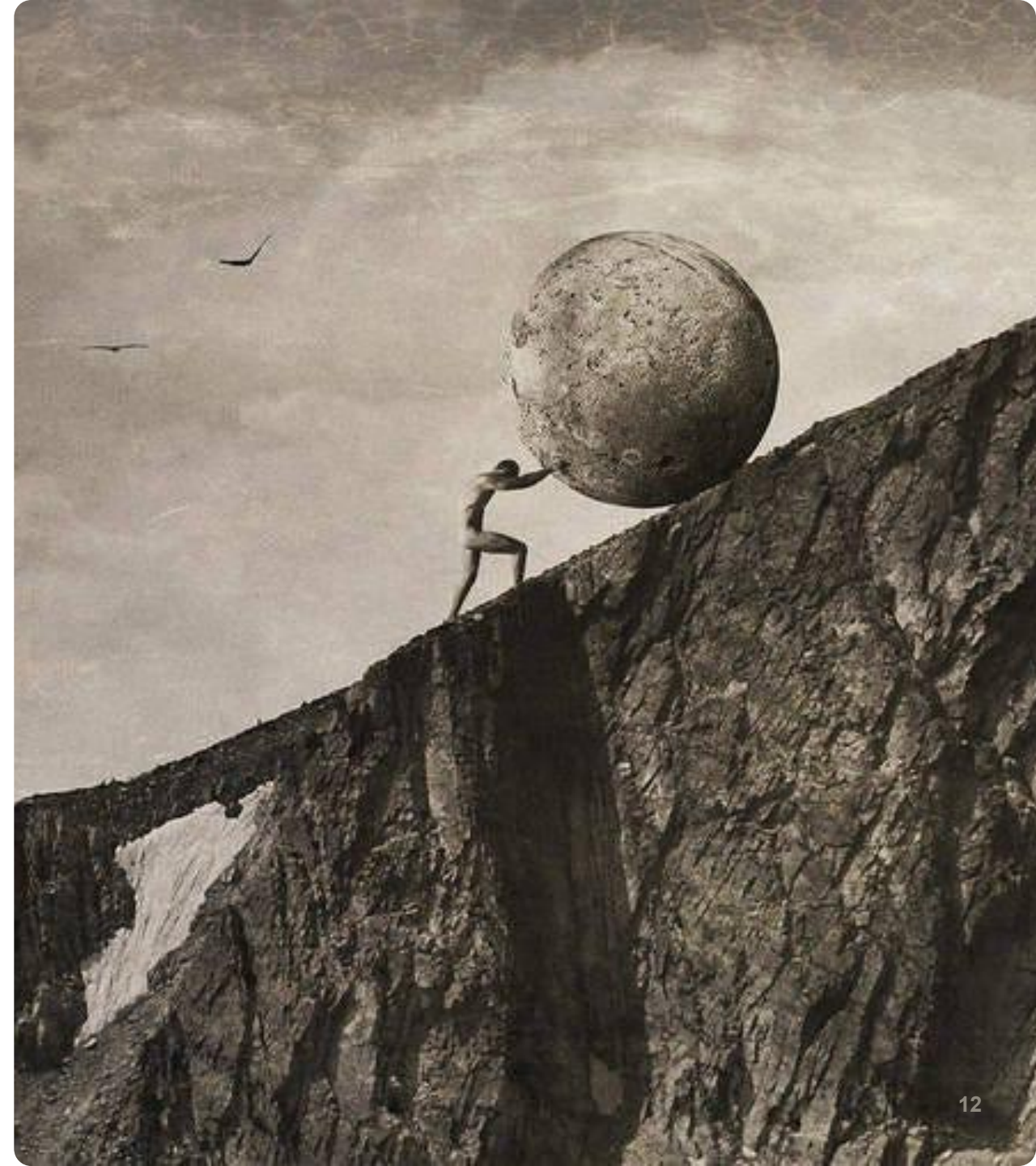
Maintaining security in an ever changing world



- Security is everything, without security we are at risk of being nothing
- Our reality today could be changed tomorrow
- Track changes
- Set new standard from current reality

Solution: Manual reviews

- Keep journal each month checking GUI, tracking changes, example:
 - Administrators
 - Permissions
 - Settings and things like rulesets (reviewers in git for example)
- Easy to see what's changed when comparing to last months journal
- Takes time to perform the review
- Gets kind of boring, Sisyphus
- Should be possible to do this better!



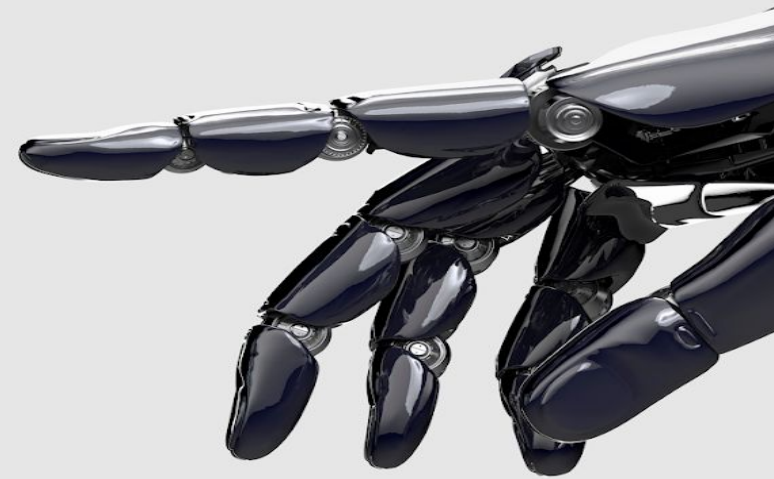
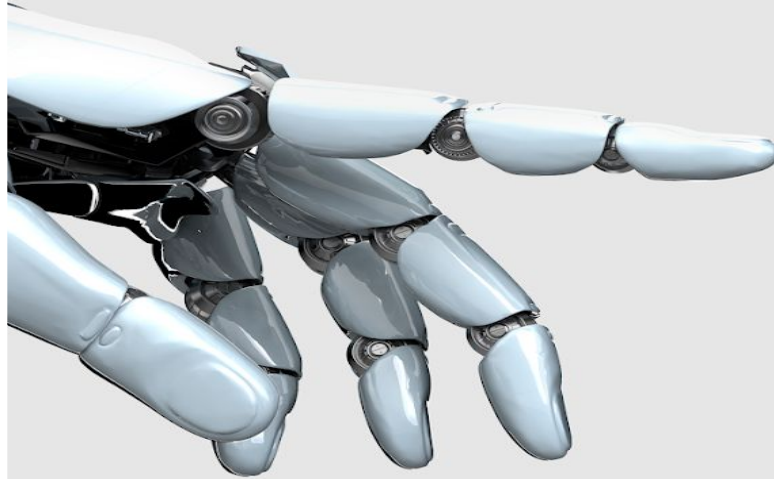
Automating the review using ansible and vcs



- Ansible fetch config via API to store in git
- Periodically fetch config again and diff with git
- Set off an alarm if it differs

Next generation

- We need a ticket to create a change
 - Get alarms as tickets
- Need pull request for changes
 - Diff results in pull requests





**This isn't scifi – We're
doing it!**

~~Live Demo!~~ Questions?



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