Cloud Infrastructure Management

Hello!

I am Amila Kumaranayaka

Senior Tech Lead DevOps, Cambio Software Engineering

twitter:

@ami_8703

What to expect

Why cloud?

Cloud Services

DevOps

Infrastructure as Code

Automation

Terraform/Cloudformation

Why

Cloud?

“If someone asks me what cloud computing is, I try not to get bogged down with definitions. I tell them that, simply put, cloud computing is a better way to run your business.” ~ Marc Benioff, Founder, CEO and Chairman of Salesforce

I WAS HOPING FOR
A SLIGHTLY MORE DETAILED
EXPLANATION OF HOW
CLOUD COMPUTING WORKS
THAN – "IT'S MAGIC"!
IT
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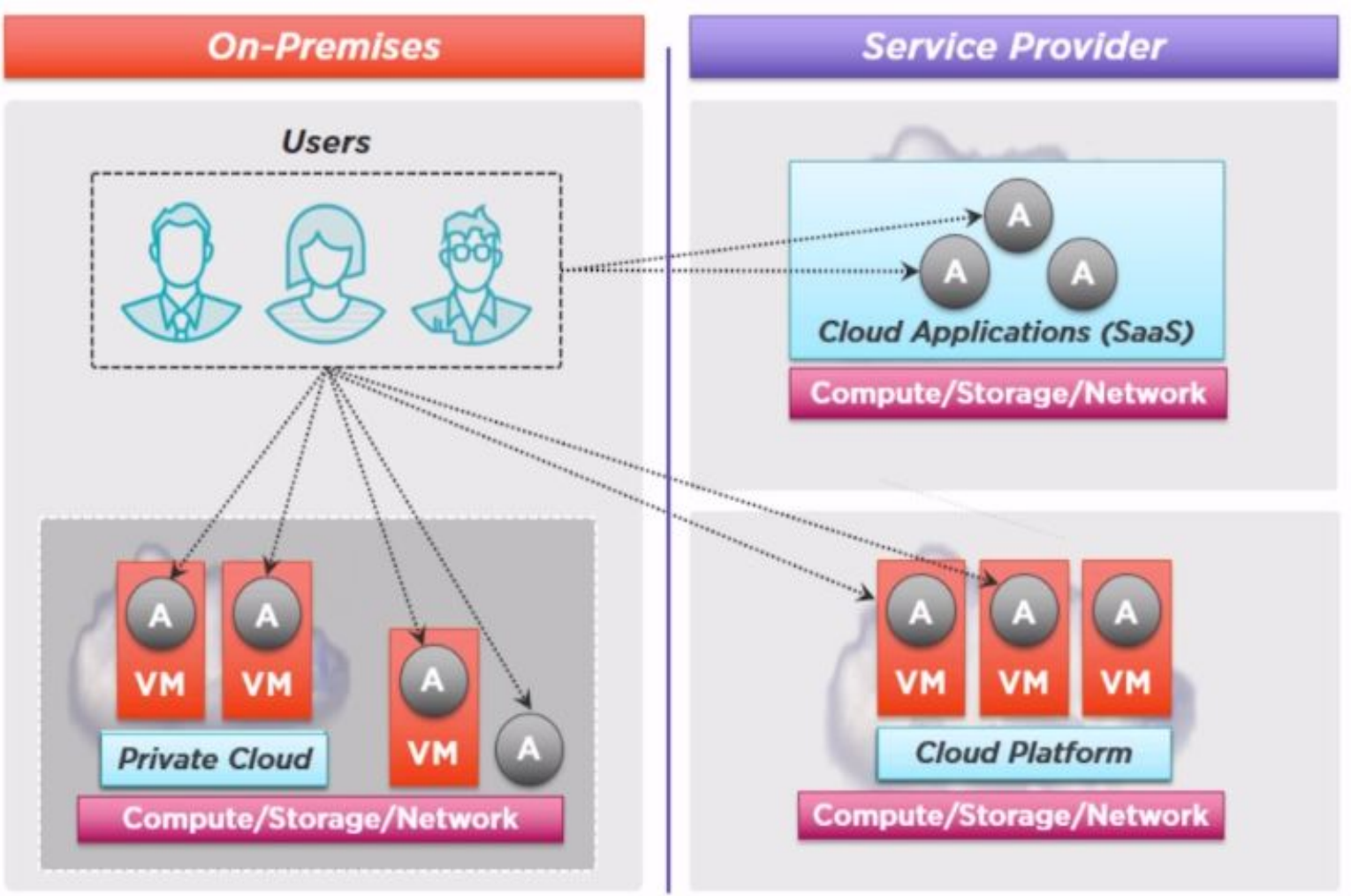
On-Premises
Service Provider
Users
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Cloud Applications (SaaS)
Compute/Storage/Network
A
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VM
VM
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Private Cloud
Compute/Storage/Network
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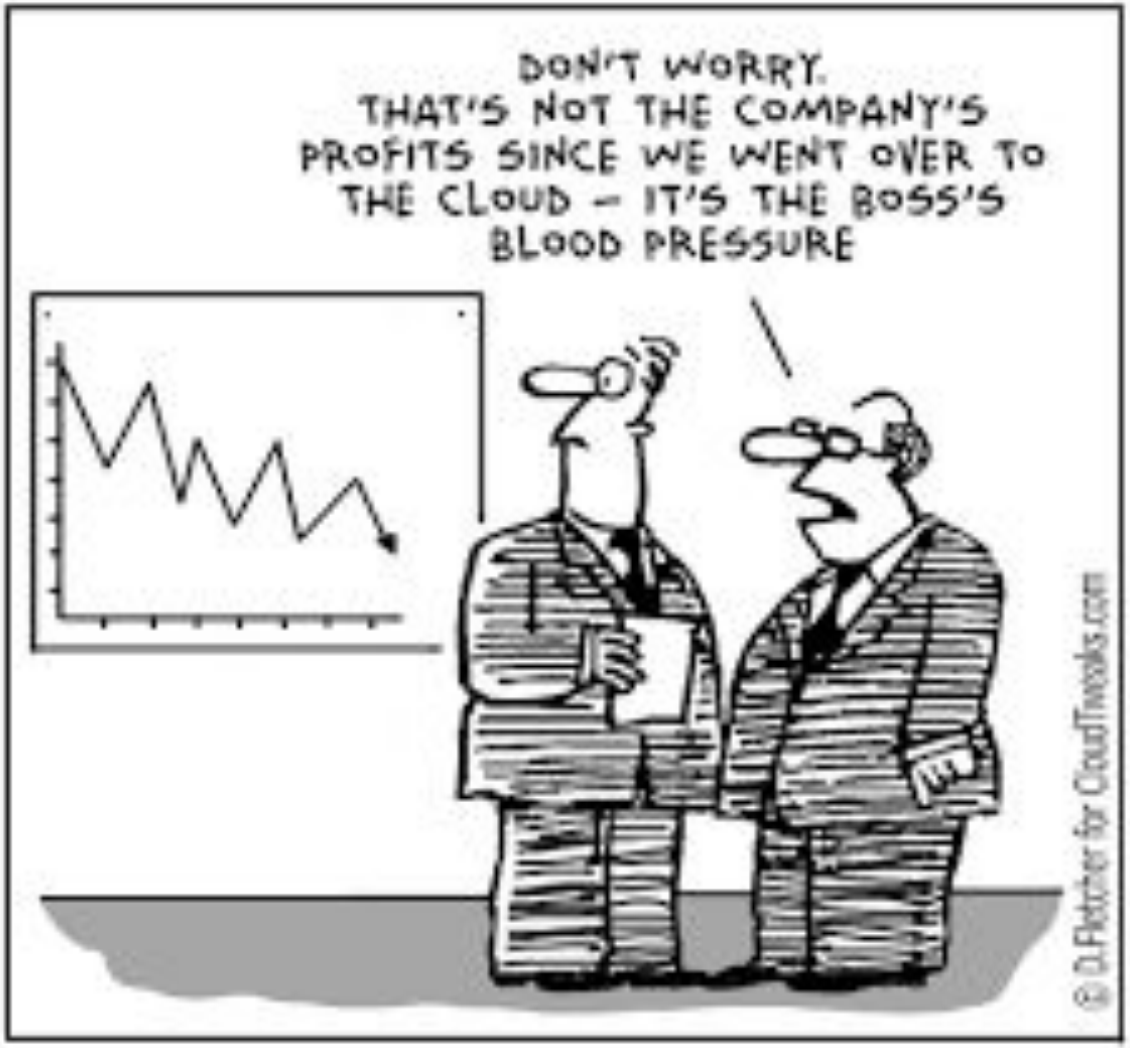
VM
VM
VM
Cloud Platform
Compute/Storage/Network

What it offers

- Increase speed and agility
- Not maintaining data centers
- Architecture of Innovation
- World Class Computing at the Lowest Possible Cost
- Scalability
- High Availability
- Platform for Automation


DON'T WORRY.
THAT'S NOT THE COMPANY'S
PROFITS SINCE WE WENT OVER TO
THE CLOUD – IT'S THE BOSS'S
BLOOD PRESSURE
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Cloud

Let’s start with Cloud Providers

IBM Bluemix™

Google

Microsoft

ORACLE®

mongolab

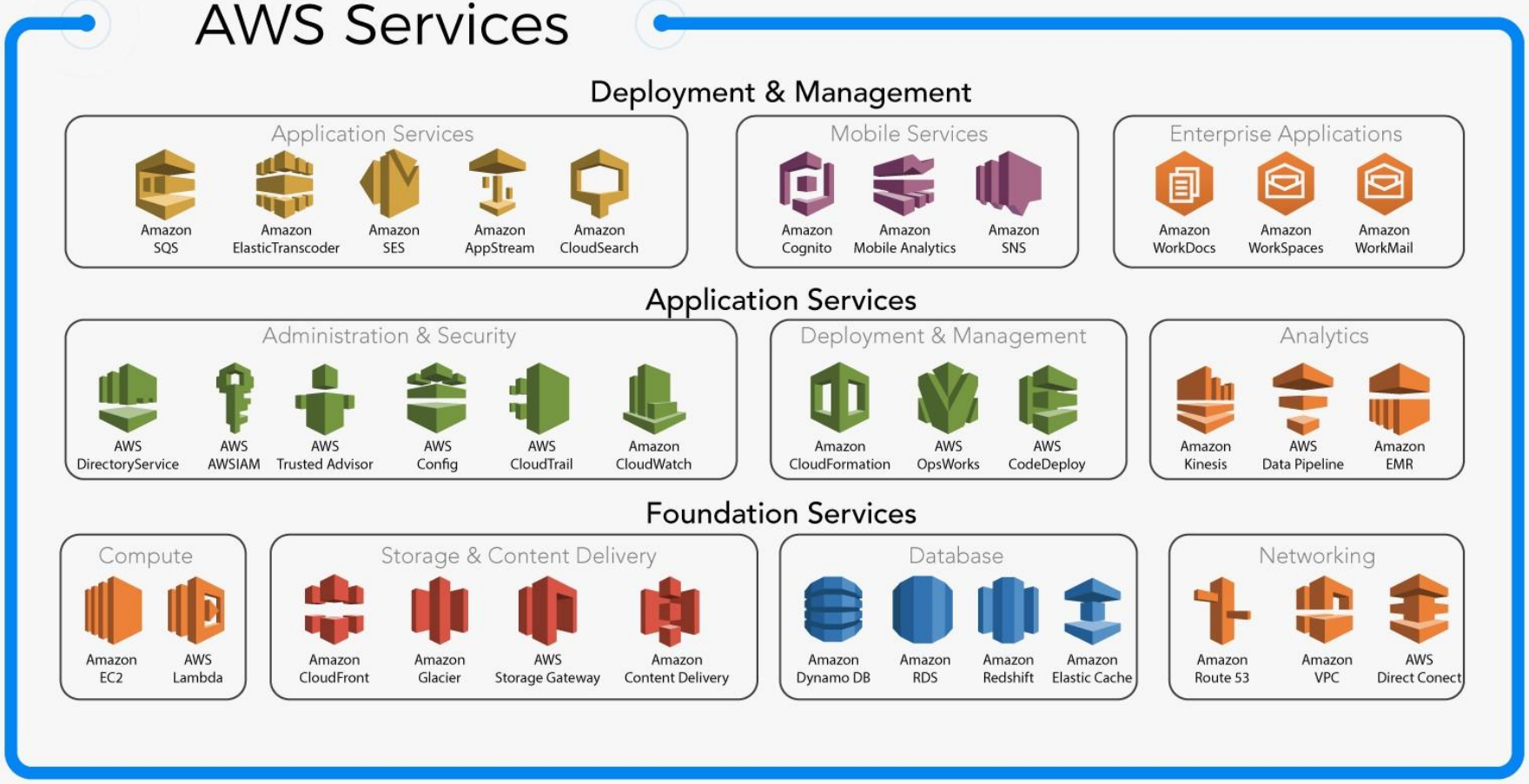
amazon web services™

redislabs

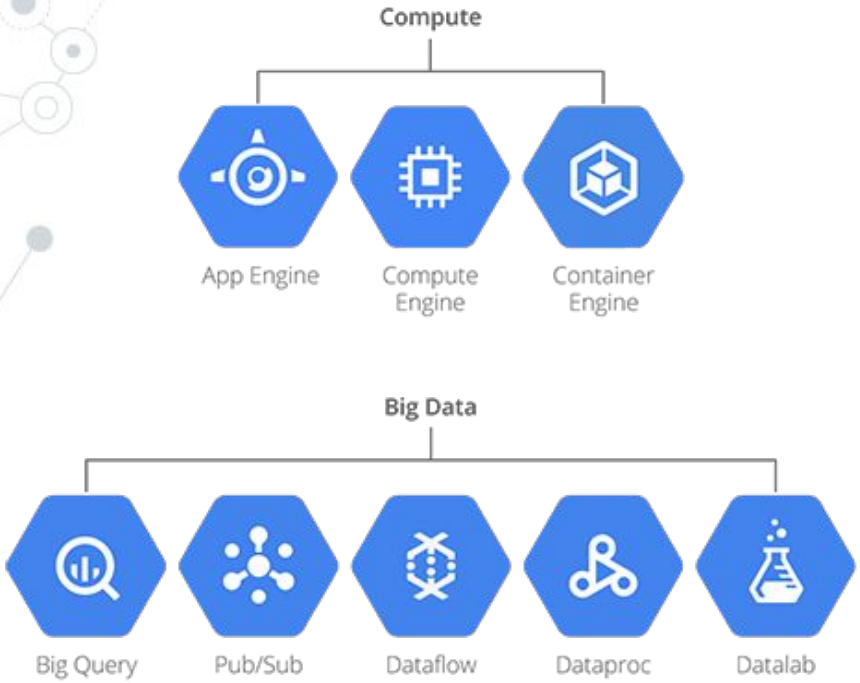
cleardb

OPENSHIFT

AWS Services



Google Cloud Platform



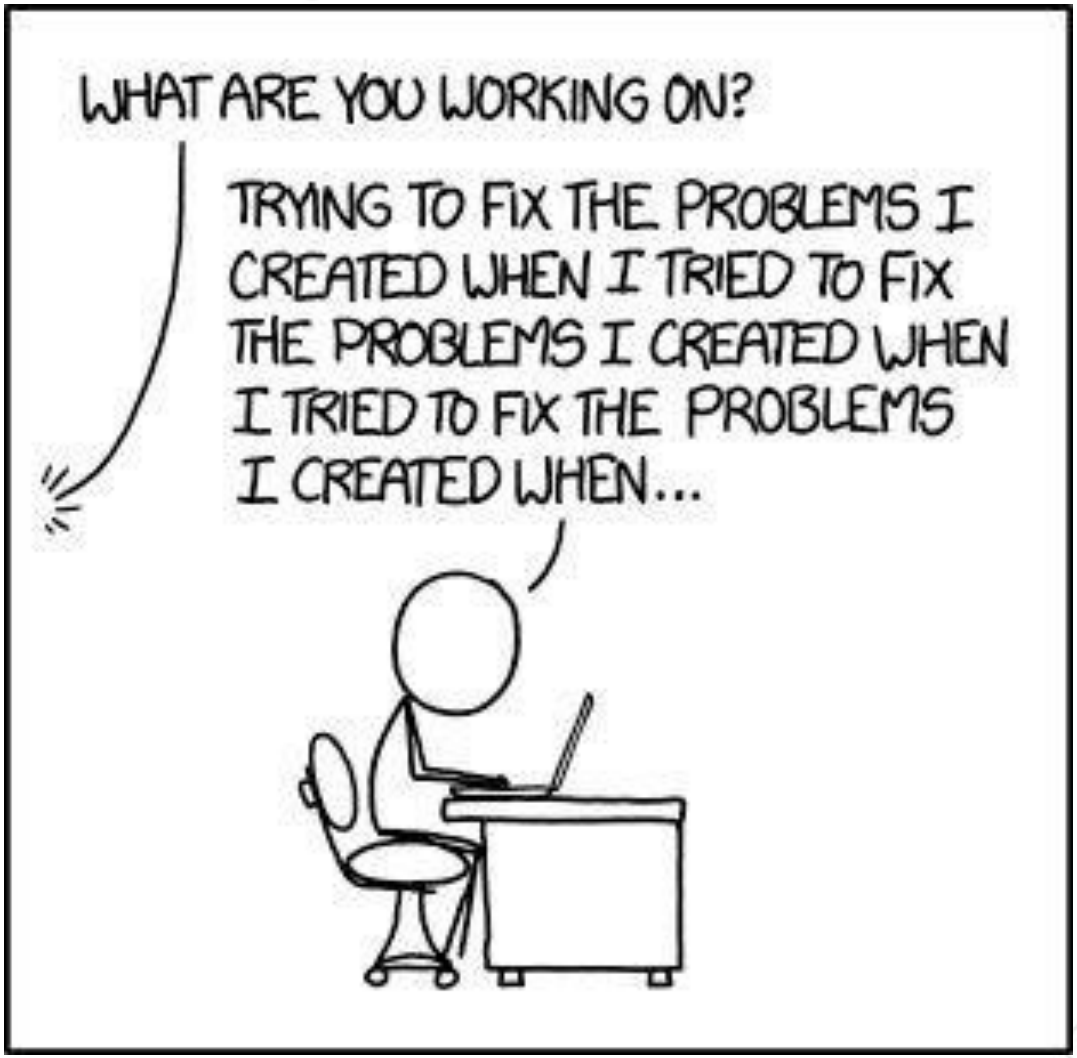
THERE MUST BE A BETTER WAY OF CHOOSING CLOUD PROVIDERS!

Factors to consider

- Business health and processes
- Administration support
- Technical capabilities and processes
- Security practices
- Compliance
- Cost Structure
- Manageability
- Performance Uptime

Managing Cloud

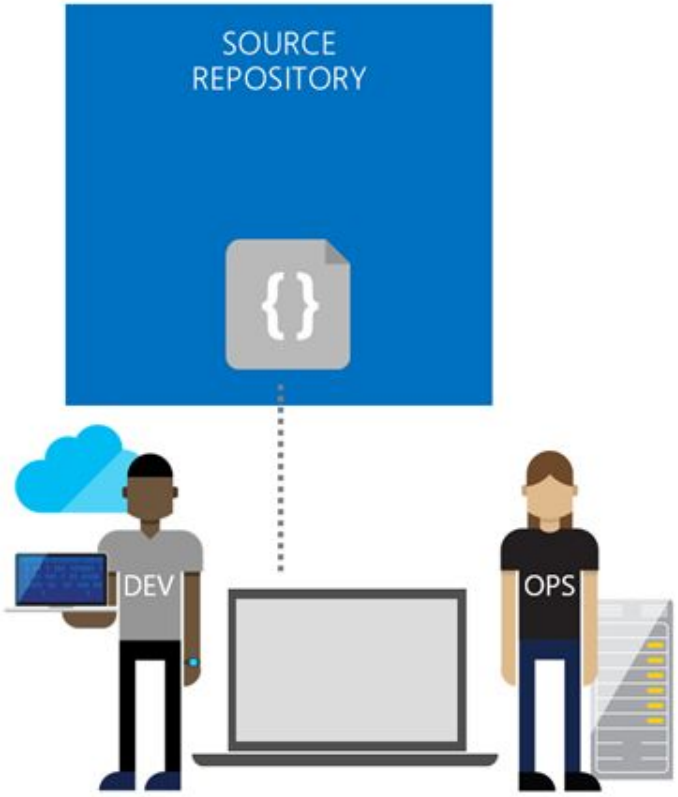
Can we get the most out of cloud with traditional infrastructure management?

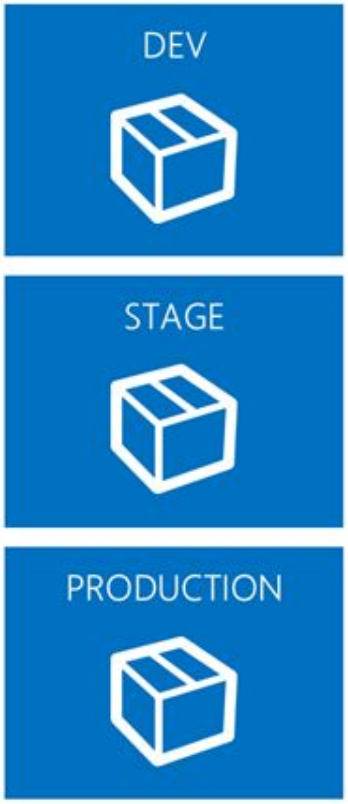

WHAT ARE YOU WORKING ON?
TRYING TO FIX THE PROBLEMS I CREATED WHEN I TRIED TO FIX THE PROBLEMS I CREATED WHEN I TRIED TO FIX THE PROBLEMS I CREATED WHEN...

DevOps Practises

- Automation
- Continuous Integration
- Continuous Deployment
- Version Control Integration
- Fast Feedback loops
- Application & Infrastructure version management.

Infrastructure as code (IAC) – a DevOps practice





Value

- Optimize resources
- Accelerate delivery

Measure

- Deployment rate
- MTTR

Infrastructure as Code

Configuration	Provision/Orchestrate
Ansible	Cloudformation
Chef	Terraform
Puppet	Docker
Saltstack	Kubernetes

Terraform is an infrastructure as code software by HashiCorp. It allows users to define a datacenter infrastructure in a high-level configuration language.

Write

Infra in git

Plan

Preview changes

Create

Reusable Infrastructure

.

No Clicks

Thanks!

Any questions?

Referances

https://www.thoughtworks.com/insights/blog/infrastructure-code-reason-smile

https://registry.terraform.io/