

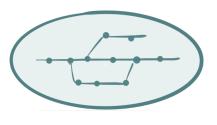
Infrastruktur auf Knopfdruck_

Infrastructure as Code (IAC)

Agnes Köhler

22.09.2017

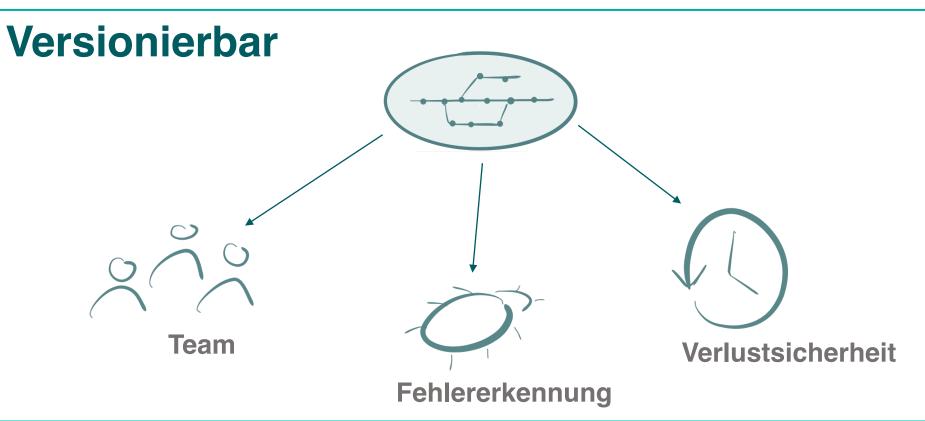
Eigenschaften

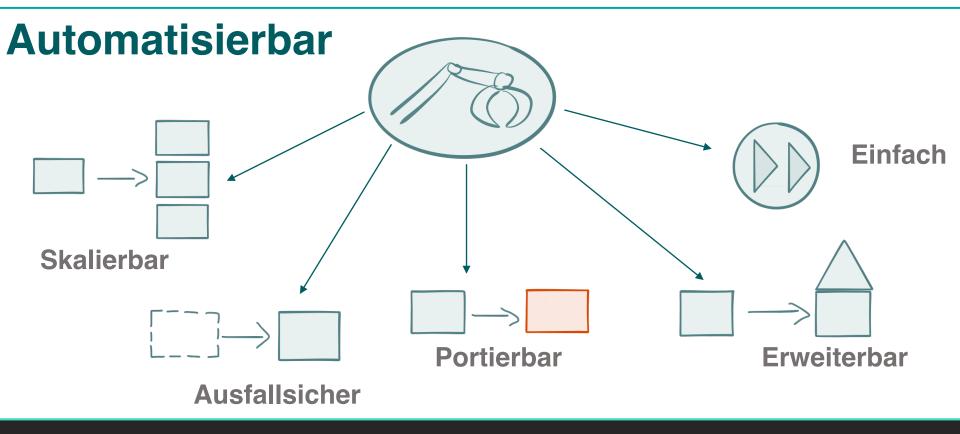


Versionierbar



Automatisierbar





Tools



Server Provisioning Tool Open Source

Provider: AWS, GCP, Docker, ...

Terraform State Resourcen

Beispielcode

```
resource "aws_instance" "example_instance" {
   ami = "ami-dbbd9dbe"
   instance type = "t2.medium"
   vpc_security_group_ids = ["${aws_security_group.example_allow_ssh.id}"]
   key name = "aws example"
   connection {
       user = "ubuntu"
       private key = "${file("${var.privateKey}")}"
   provisioner "remote-exec" {
       inline = [
            "sudo apt -qqy update",
            "sudo apt install -qqy python-minimal"
   provisioner "local-exec" {
        command = "ANSIBLE_HOST_KEY_CHECKING=False ansible-playbook -i ../Provision/ec2.py -u ubuntu
                   --private-kev ${var.privateKev} .../Provision/playbook.vml"
```



Configuration Management Tool Open Source

> Playbook **Modules**



Beispielcode

```
- hosts: all
 gather_facts: False
 tasks:
   - name: Test if ansible is ready on host
      ping:
   - name: Installs nginx web server
      apt: pkg=nginx state=installed update_cache=true
      become: true
      notify:
        start nginx
   - name: Upload default index.html for host
      copy: src=index.html dest=/var/www/html/ mode=0644
      become: true
 handlers:
   - name: start nginx
      service: name=nginx state=started
      become: true
```



Demo

Pitfalls

Pitfalls

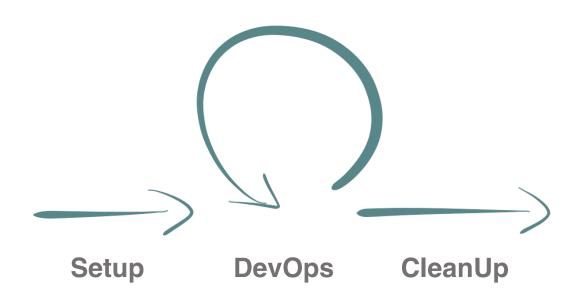
Terraform State

konsequente Automatisierung

Terraform vs CloudFormation

Lifecycle

Lifecycle



Fragen?

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spielplatzmnstr

