terraform

https://www.terraform.io/



Malte Krupa Vaamo Finanz AG



Bei Fragen: Einfach fragen.



Was machen wir heute?

- Was ist terraform?
- Warum setzt vaamo auf terraform?



Was ist terraform?





Infrastructure As Code



Infrastructure As Code

Execution Plan



An execution plan has been generated and is shown below.
Resource actions are indicated with the following symbols:
+ create

Terraform will perform the following actions:

```
+ digitalocean_droplet.vm
    id:
                            <computed>
    disk:
                            <computed>
                            "ubuntu-16-04-x64"
    image:
    ipv4_address:
                            <computed>
                           <computed>
    ipv4_address_private:
                            "true"
    ipv6:
    ipv6_address:
                            <computed>
    ipv6_address_private: <computed>
    locked:
                            <computed>
                            "foo"
    name:
    price_hourly:
                            <computed>
                            <computed>
    price_monthly:
                            "fra1"
    region:
                            "true"
    resize_disk:
                            "512mb"
    size:
    status:
                            <computed>
                            <computed>
    vcpus:
```

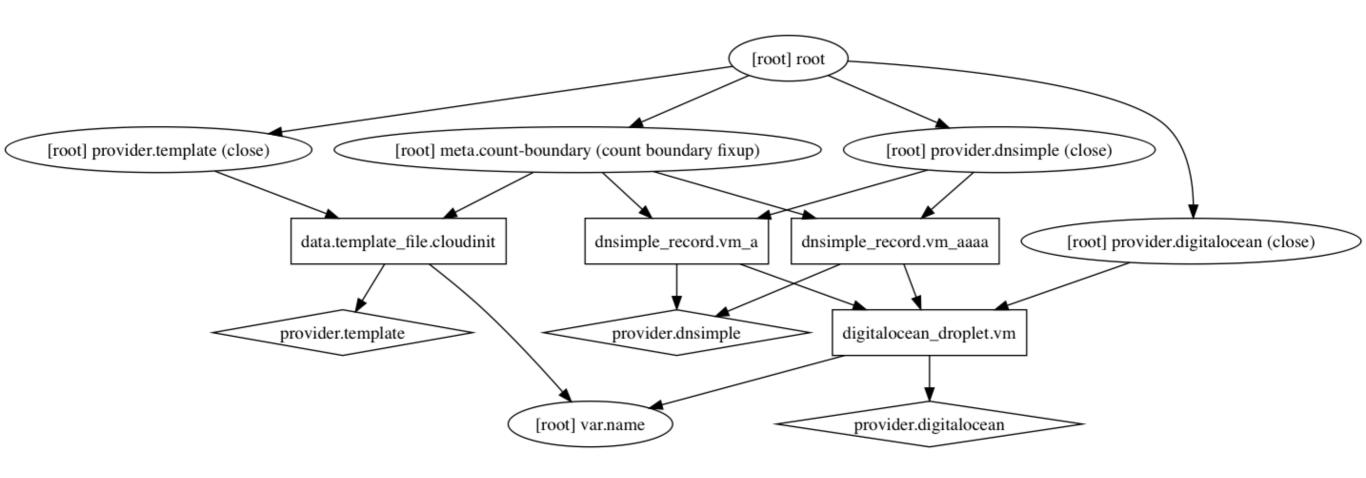
Infrastructure As Code

Execution Plan

Resource Graph

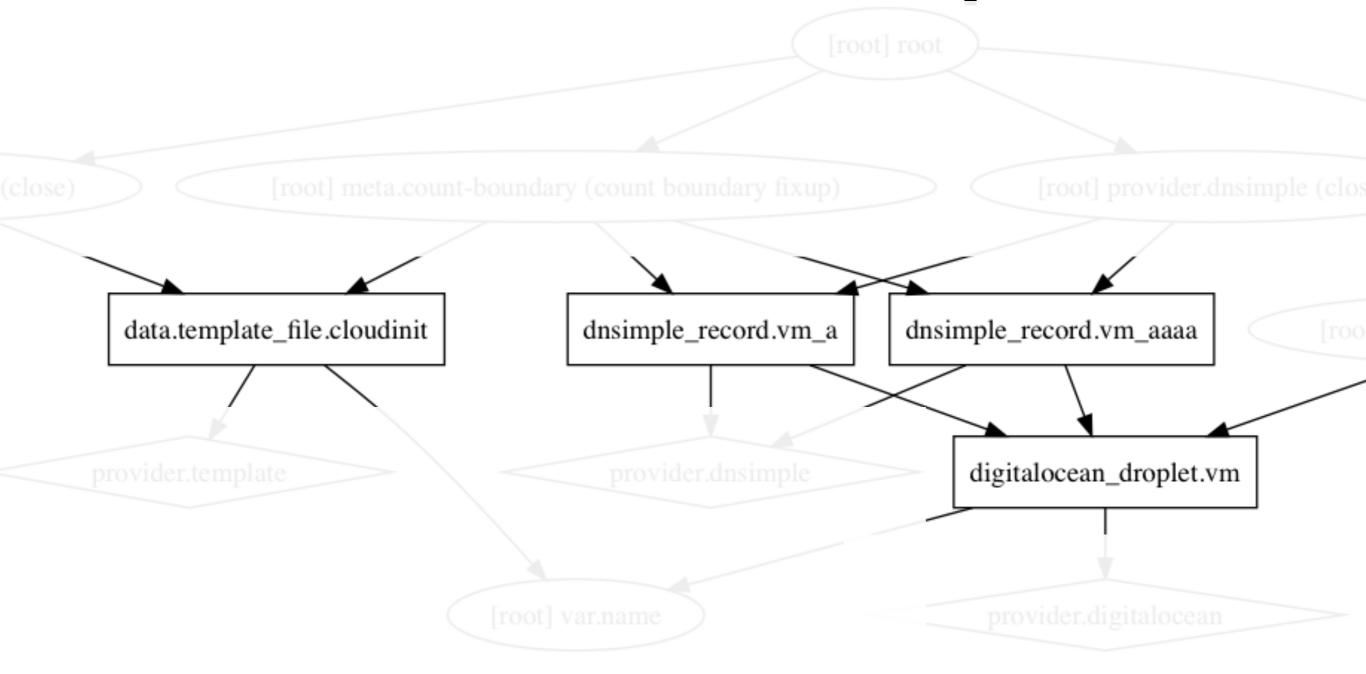


Resource Graph





Resource Graph





Infrastructure As Code

Execution Plan

Resource Graph

Change Automation



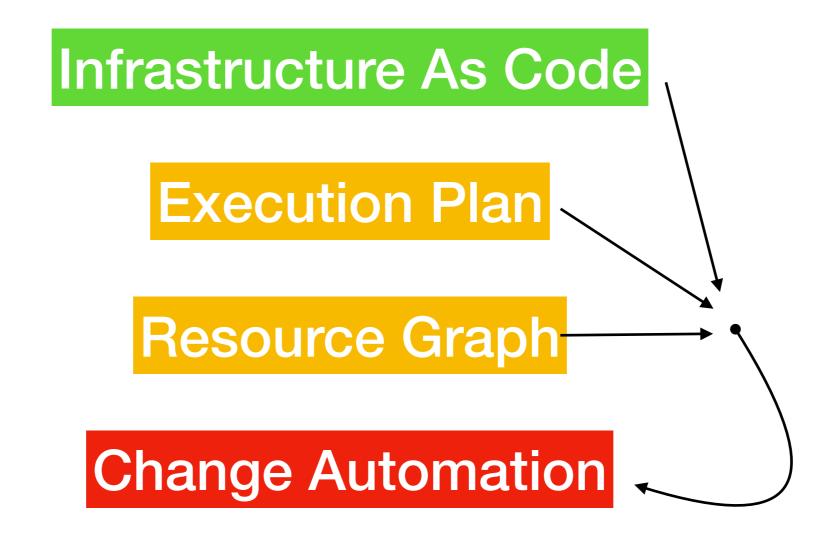
Infrastructure As Code

Execution Plan

Resource Graph

Change Automation







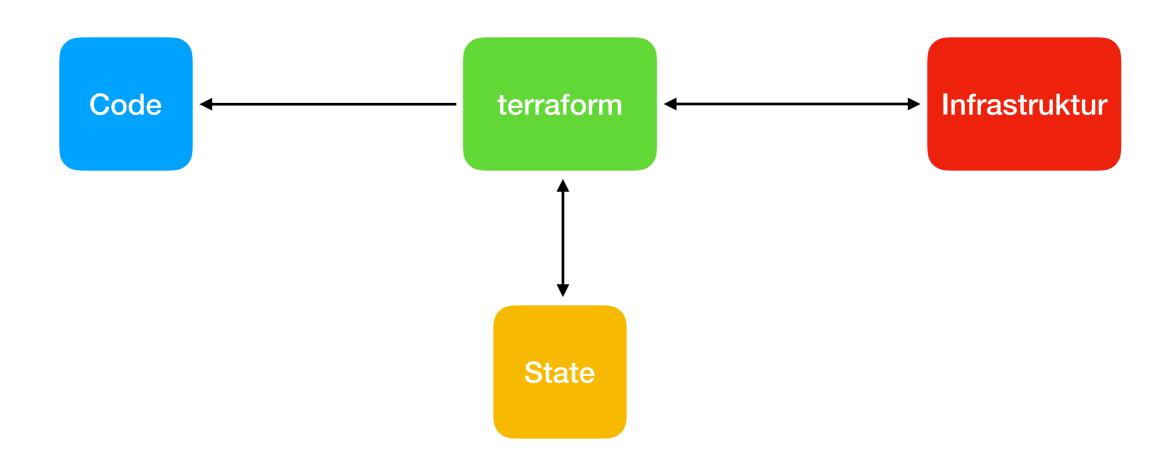
WOW!







State Files





Locking



Plugin Qualität



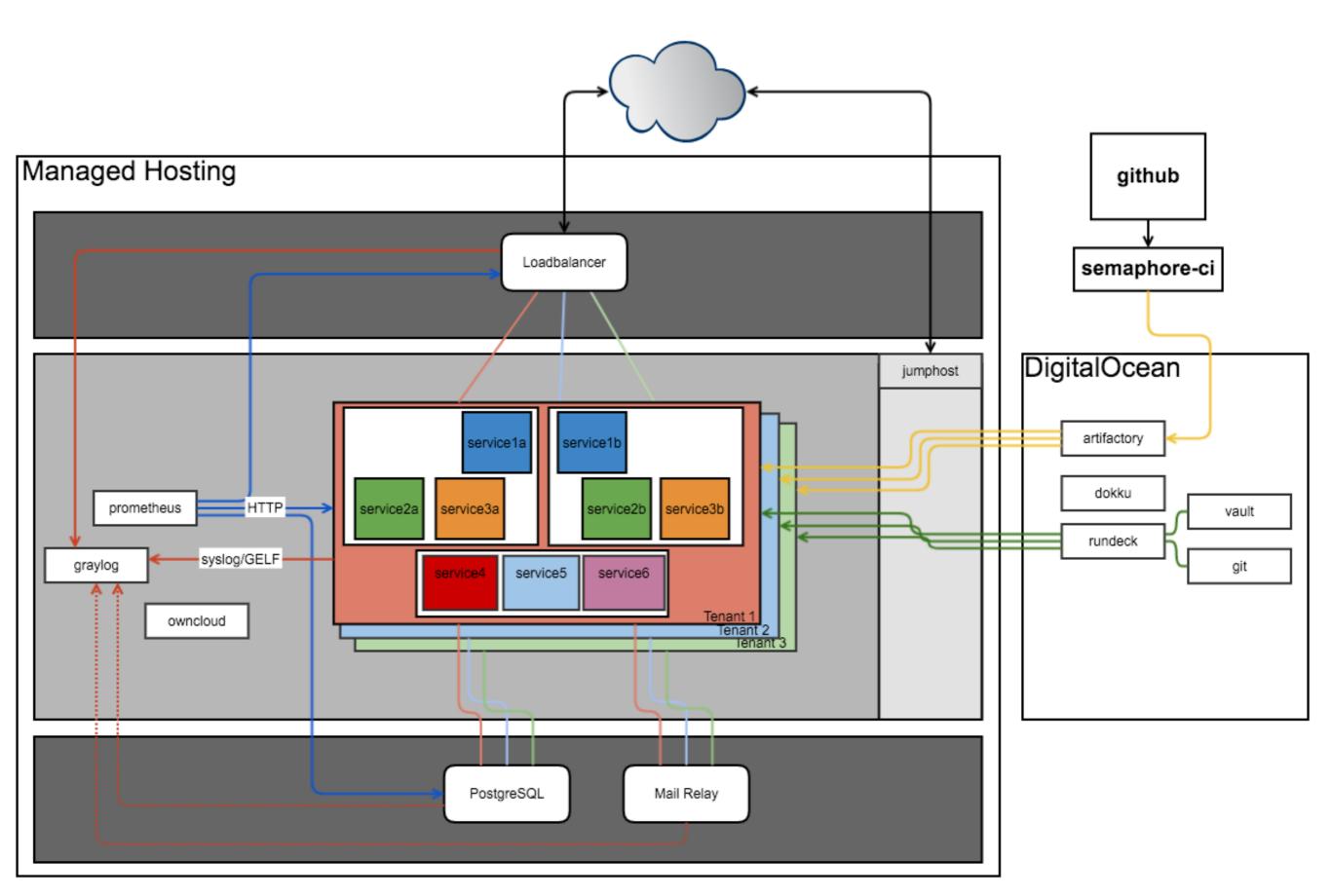
Alicloud	Archive	AWS
Azure	Bitbucket	CenturyLinkCloud
Chef	Circonus	Cloudflare
CloudScale.ch	CloudStack	Cobbler
Consul	Datadog	DigitalOcean
DNS	DNSMadeEasy	DNSimple
Docker	Dyn	External
Fastly	GitHub	Gitlab
Google Cloud	Grafana	Heroku
НТТР	Icinga2	Ignition
InfluxDB	Kubernetes	Librato
Local	Logentries	LogicMonitor
Mailgun	MySQL	New Relic
Nomad	NS1	Null
1&1	Oracle Public Cloud	OpenStack
OpenTelekomCloud	OpsGenie	OVH
Packet	PagerDuty	Palo Alto Networks
PostgreSQL	PowerDNS	ProfitBricks
RabbitMQ	Rancher	Random
Rundeck	Scaleway	SoftLayer
StatusCake	Spotinst	Template
Terraform	Terraform Enterprise	TLS
Triton	UltraDNS	Vault
VMware vCloud Director	VMware vSphere	



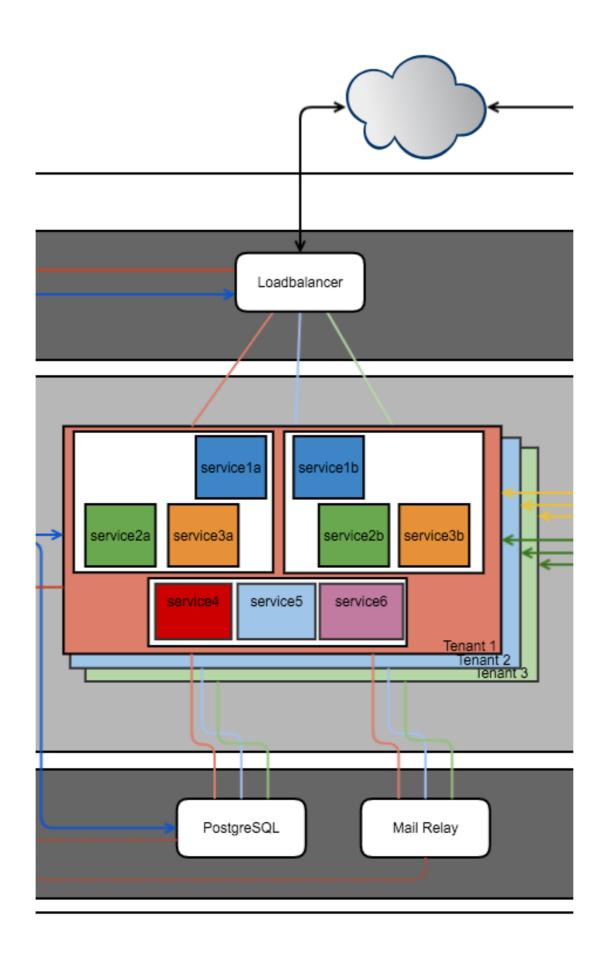
More providers can be found on our Community Providers page.

Warum setzt vaamo auf terraform?









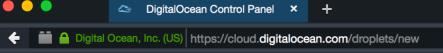


Launch Instance ×

nm(a	Availability Zone	Specify the details for	aunching an instance.	
Name Oracle Sola VCPUs 1 Flavor Oracle Solaris kernel zone - tiny Floot Disk 10 GB Ephemeral Disk 0 GB Total Disk 10 GB RAM 2,048 MB Project Limits Number of Instances	nova	•		
VCPUs 1 Project Limits Number of Instances	Instance Name	Flavor Details		
Oracle Solaris kernel zone - tiny Flavor		Name	Oracle Sola	
Oracle Solaris kernel zone - tiny Floot Disk 10 GB		VCPUs	1	
Instance Count 1 Instance Boot Source Select source Project Limits Number of Instances	50.50 to 10.00 The same transition of the state of the state of the same state of the state of t	Root Disk	10 GB	
Instance Boot Source Select source Project Limits Number of Instances	Charle Colaris Remor Zone Tiny		0 GB	
Instance Boot Source Select source Project Limits Number of Instances	Instance Count	Total Disk	10 GB	
Select source Project Limits Number of Instances	1	RAM	2,048 MB	
Number of Instances	Instance Boot Source			
	Select source			
Number of VCPUs		Number of Instances		
		Number of VCPUs		
			Total RAM	



Cancel





Create Droplet

②

CREATE

Droplets

Images

SSH Keys

Billing

Support

DNS

Apps & API





Droplet Hostname

Levelten

Select Size

\$**5**/mo \$0.007 /hour

512 MB / 1 CPU 20 GB SSD Disk 1000 GB Transfer \$10/mo \$0.015 /hour

1 GB / 1 CPU
30 GB SSD Disk
2 TB Transfer

\$20/mo \$0.030 /hour

2 GB / 2 CPUs 40 GB SSD Disk 3 TB Transfer \$40/mo \$0.060 /hour

4 GB / 2 CPUs 60 GB SSD Disk 4 TB Transfer \$**80**/mo \$0.119 /hour

8 GB / 4 CPUs 80 GB SSD Disk 5 TB Transfer

\$160/mo \$0.238 /hour

16 GB / 8 CPUs 160 GB SSD Disk 6 TB Transfer \$320/mo \$0.476 /hour

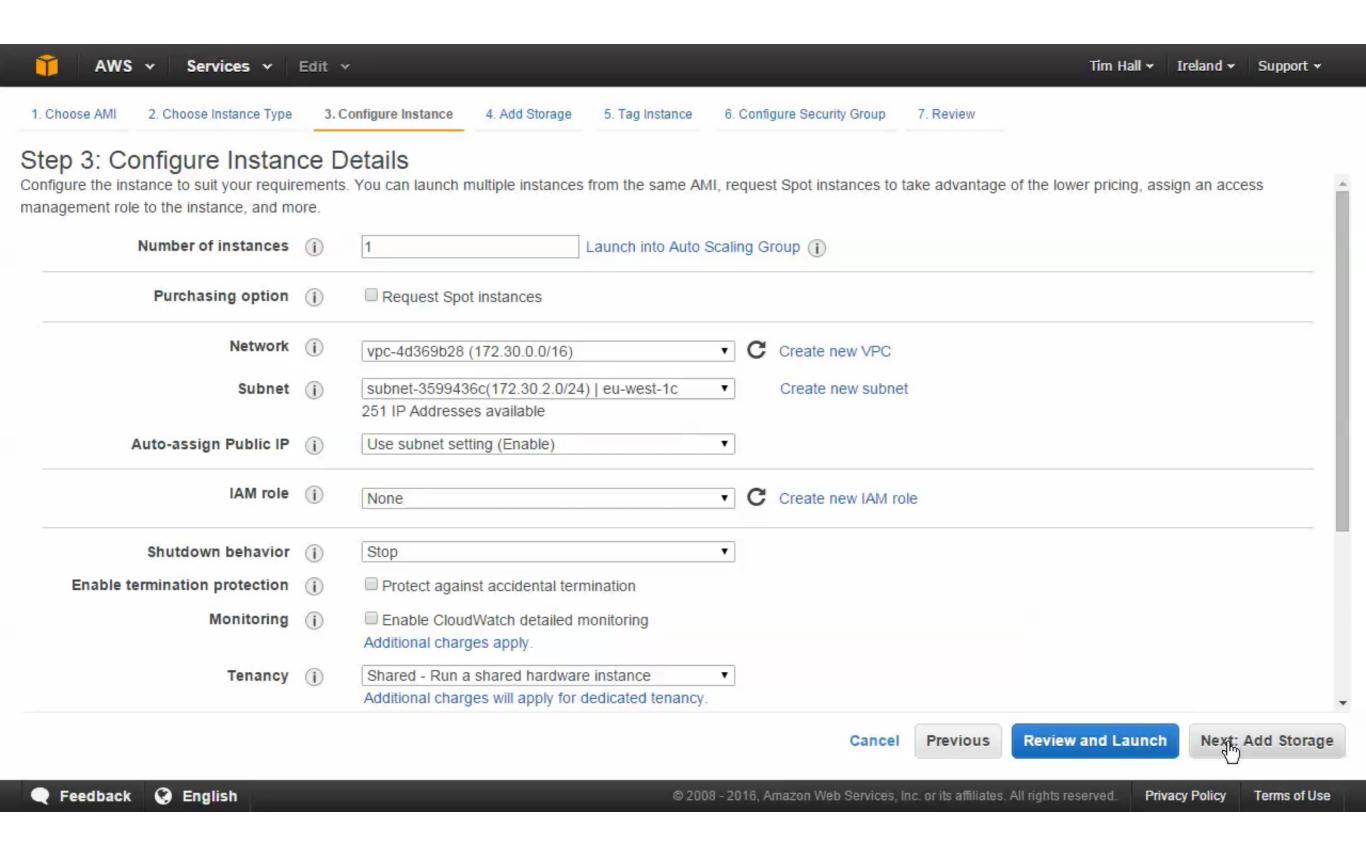
32 GB / 12 CPUs 320 GB SSD Disk 7 TB Transfer \$480/mo \$0.714 /hour

48 GB / 16 CPUs 480 GB SSD Disk 8 TB Transfer \$**640**/mo \$0.952 /hour

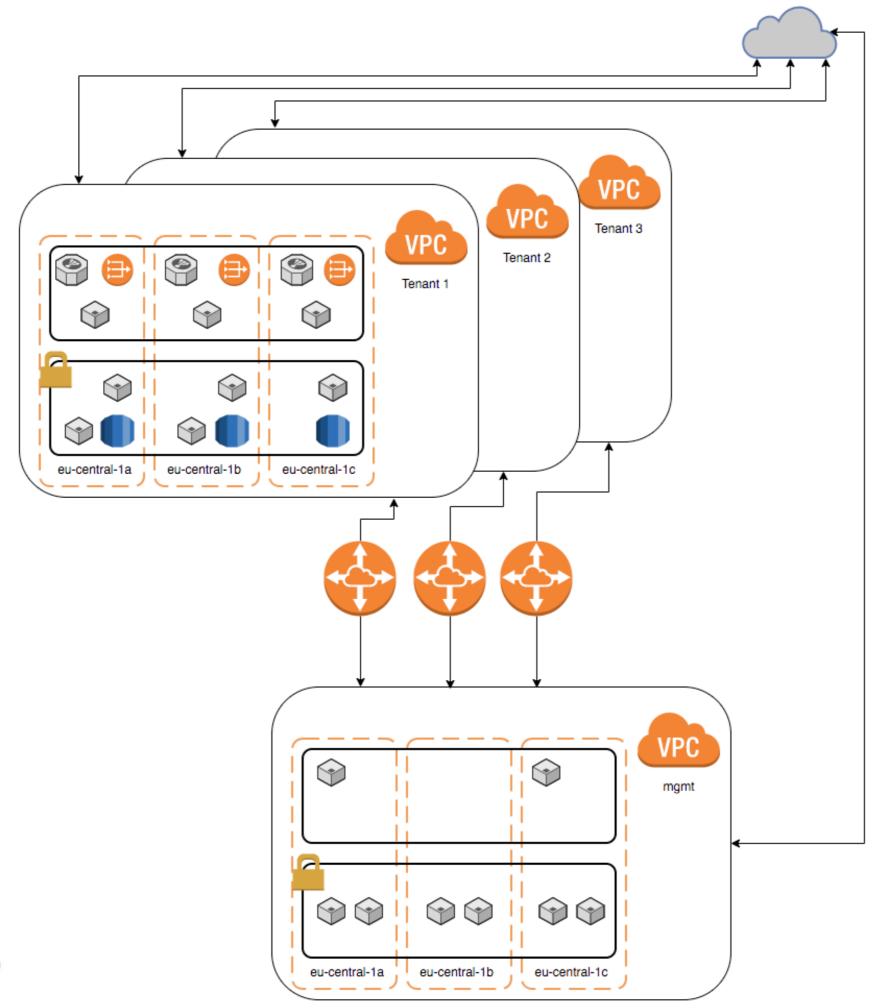
64 GB / 20 CPUs 640 GB SSD Disk 9 TB Transfer













1 new commit pushed to master
9814e605 - Bump prod ami
Vaamo/infrastructure

11:57 semaphore APP The infrastructure repository (rev: 9814e605) is up2date with the infrastructure.



GitHub APP

Automatisiert das Management eurer Infrastruktur.



Automatisiert!



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