

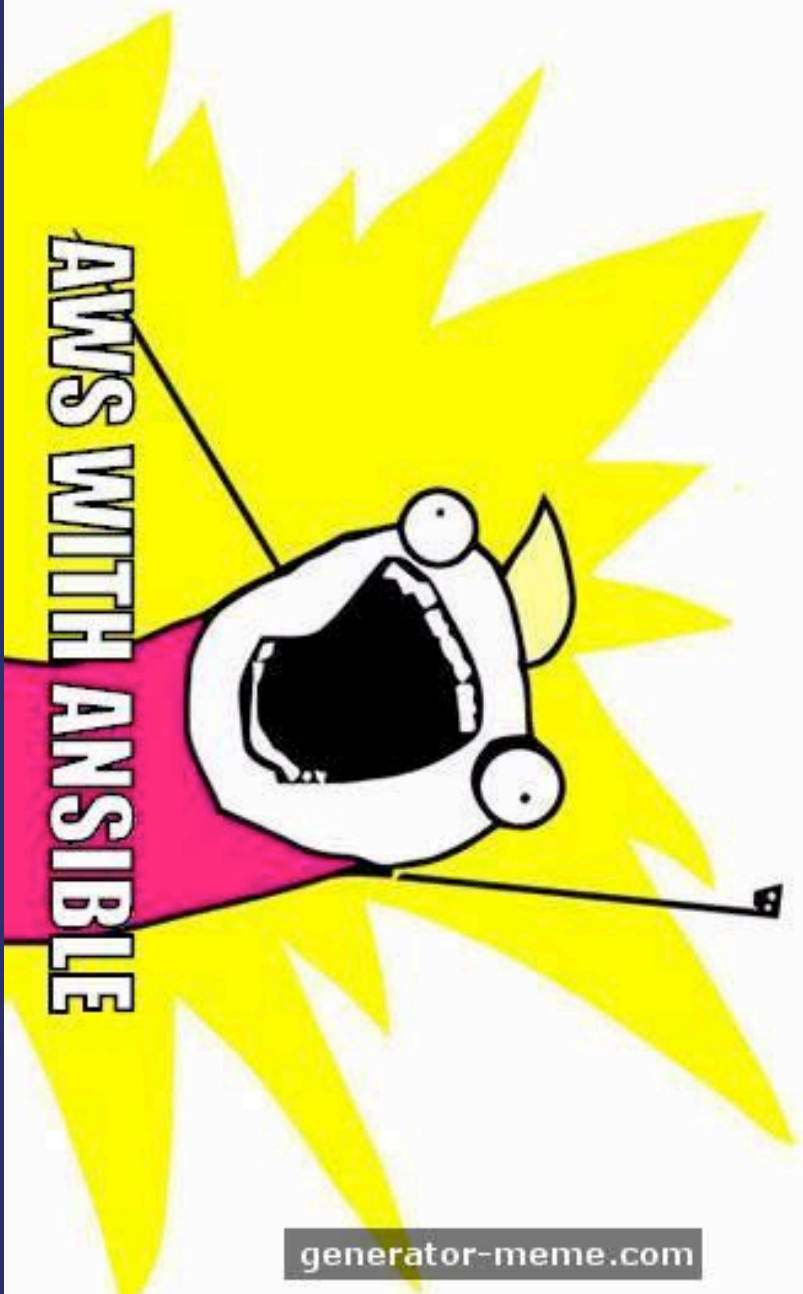
Automate all the things

AWMS with Ansible

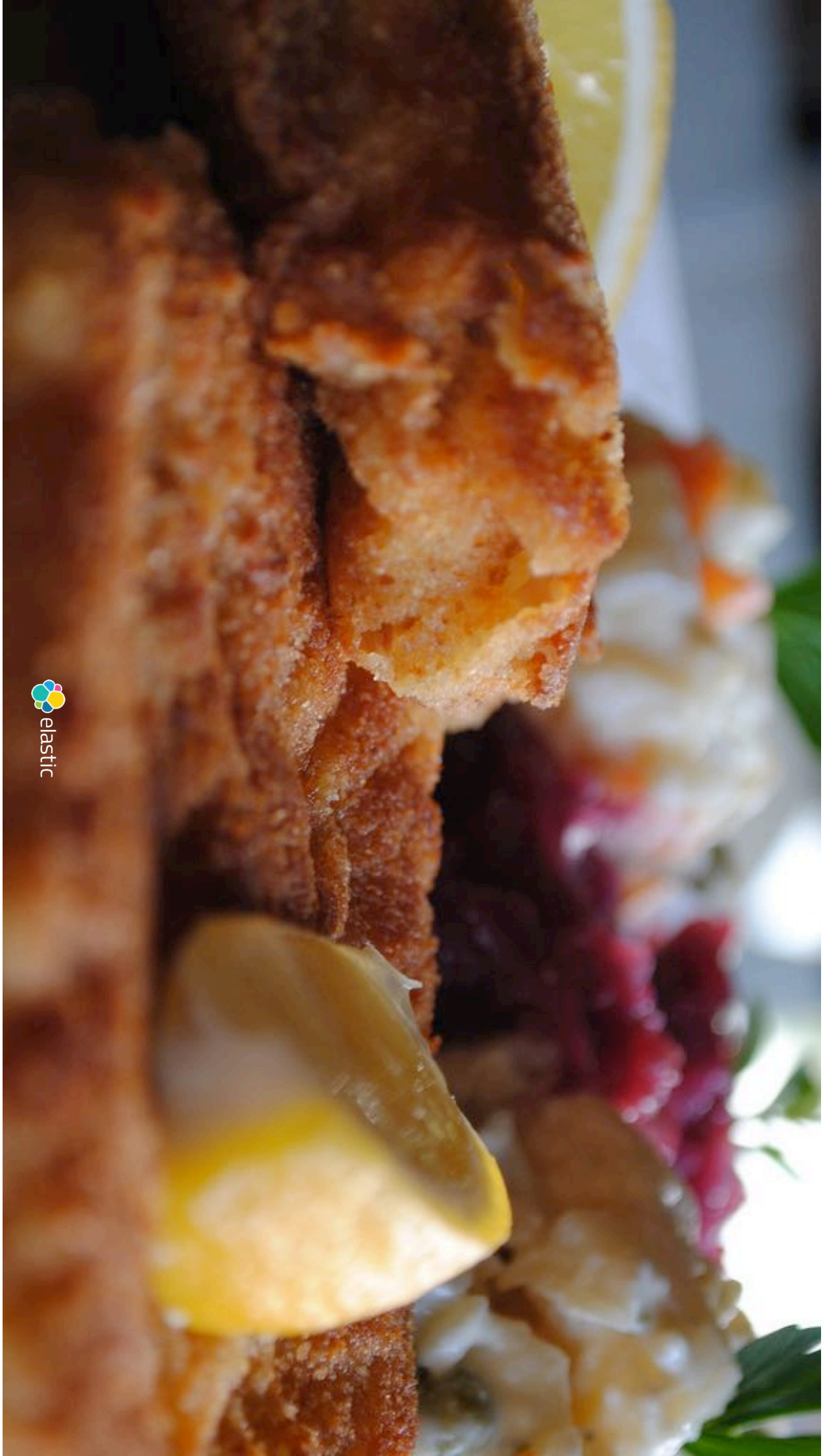
Philipp Krenn @xeraa

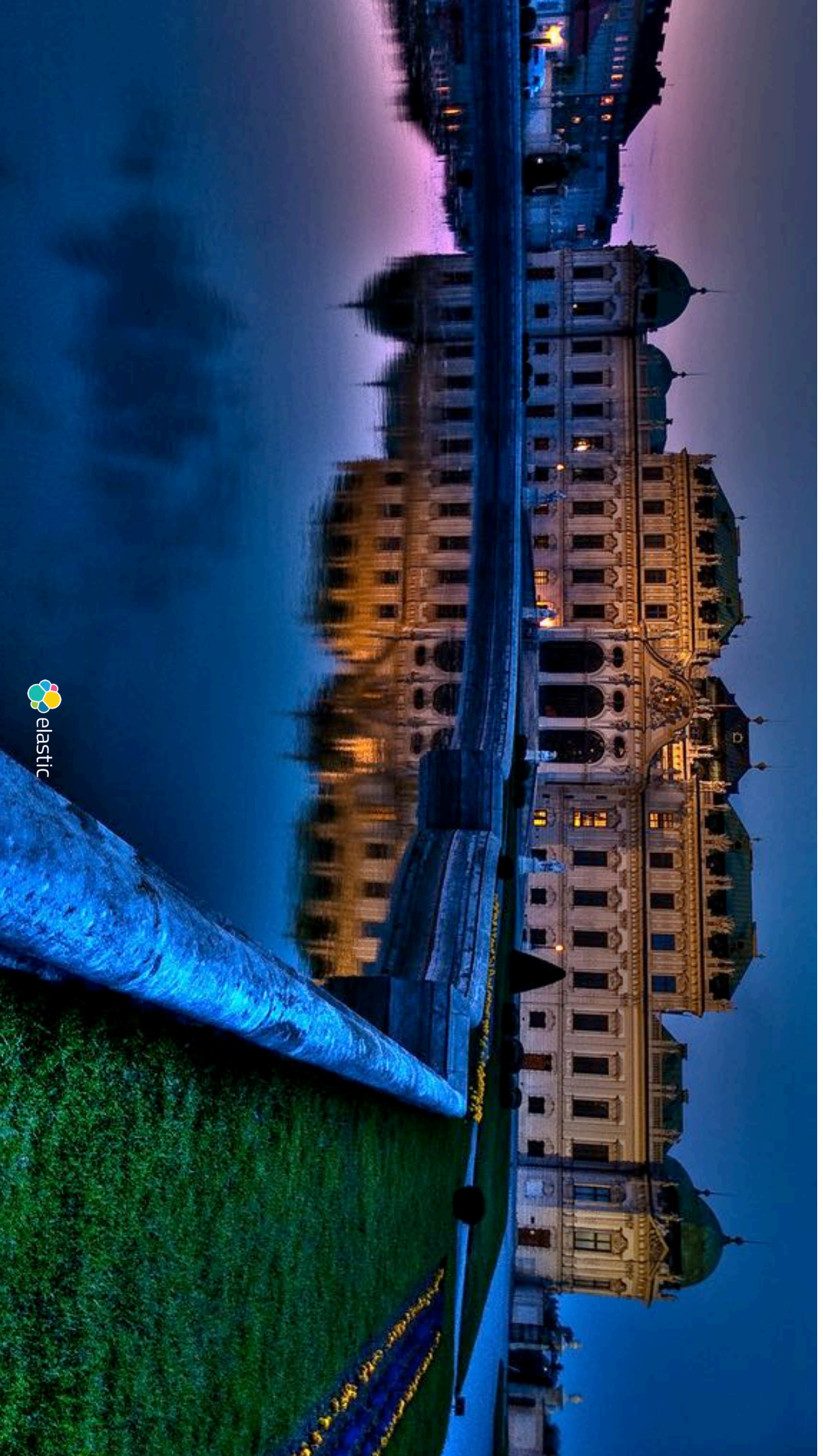


AUTOMATE



generator-meme.com







 elastic



elastic

Infrastructure | Developer Advocate



Agenda

AWMS & Ansible basics

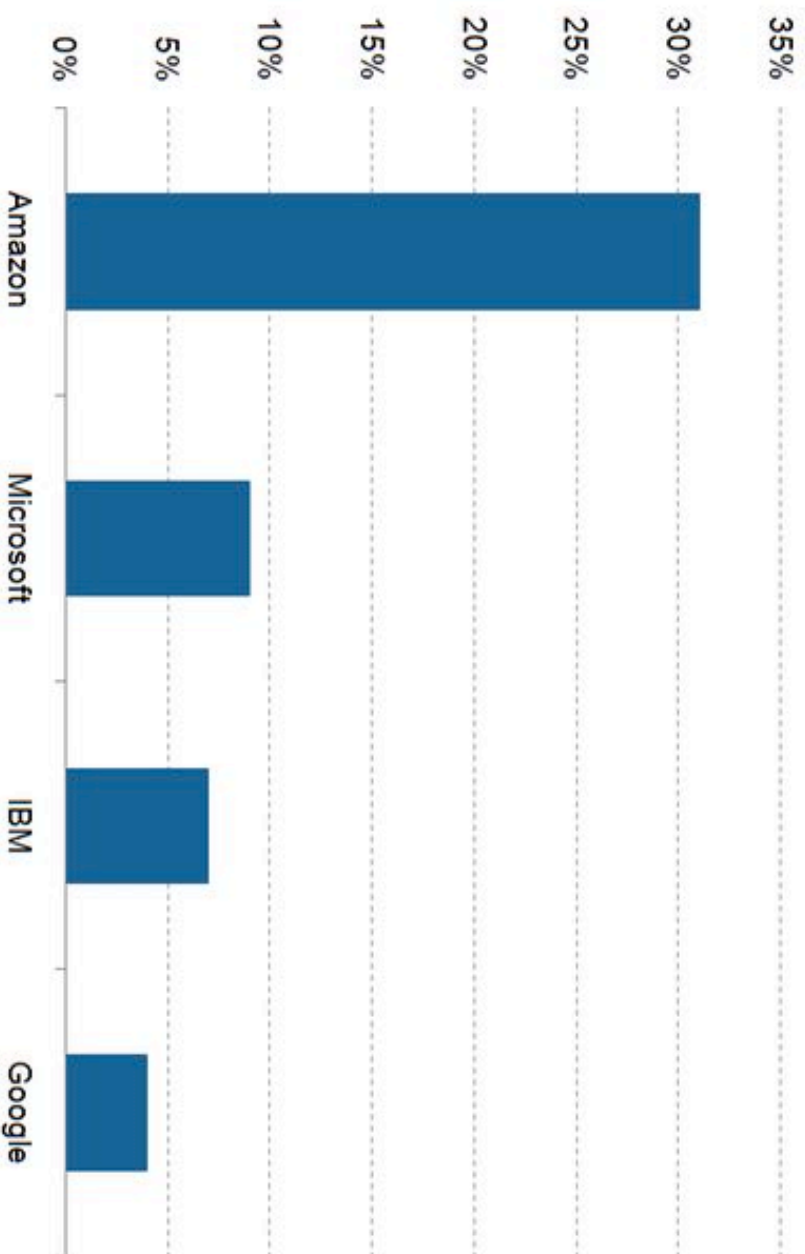
AWMS & Ansible in action


While we're getting started

USB Stick



Share of Each Player in the Cloud Infrastructure Market as of 4Q15



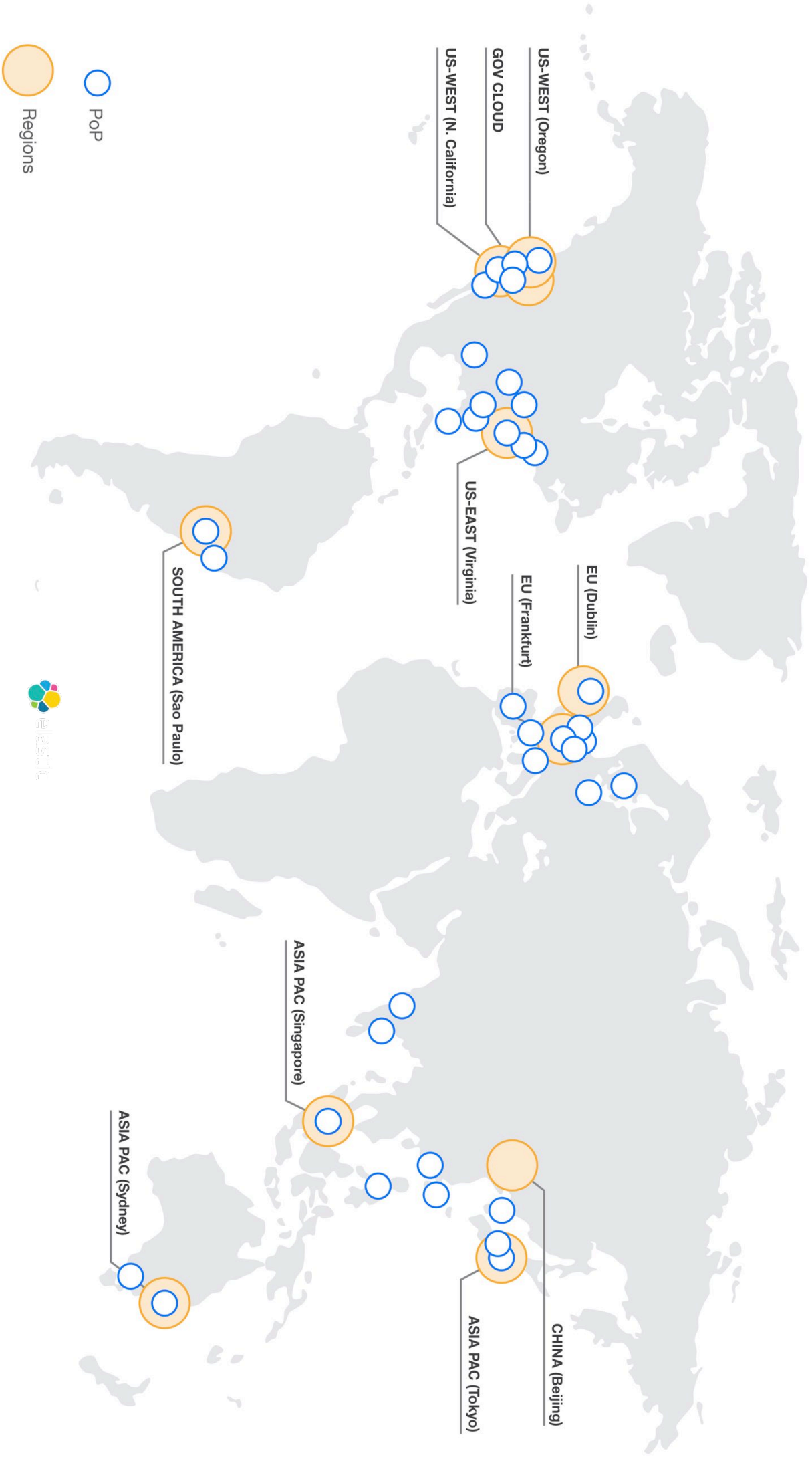
Market Realist 

Source: Synergy Research Group



AWMS

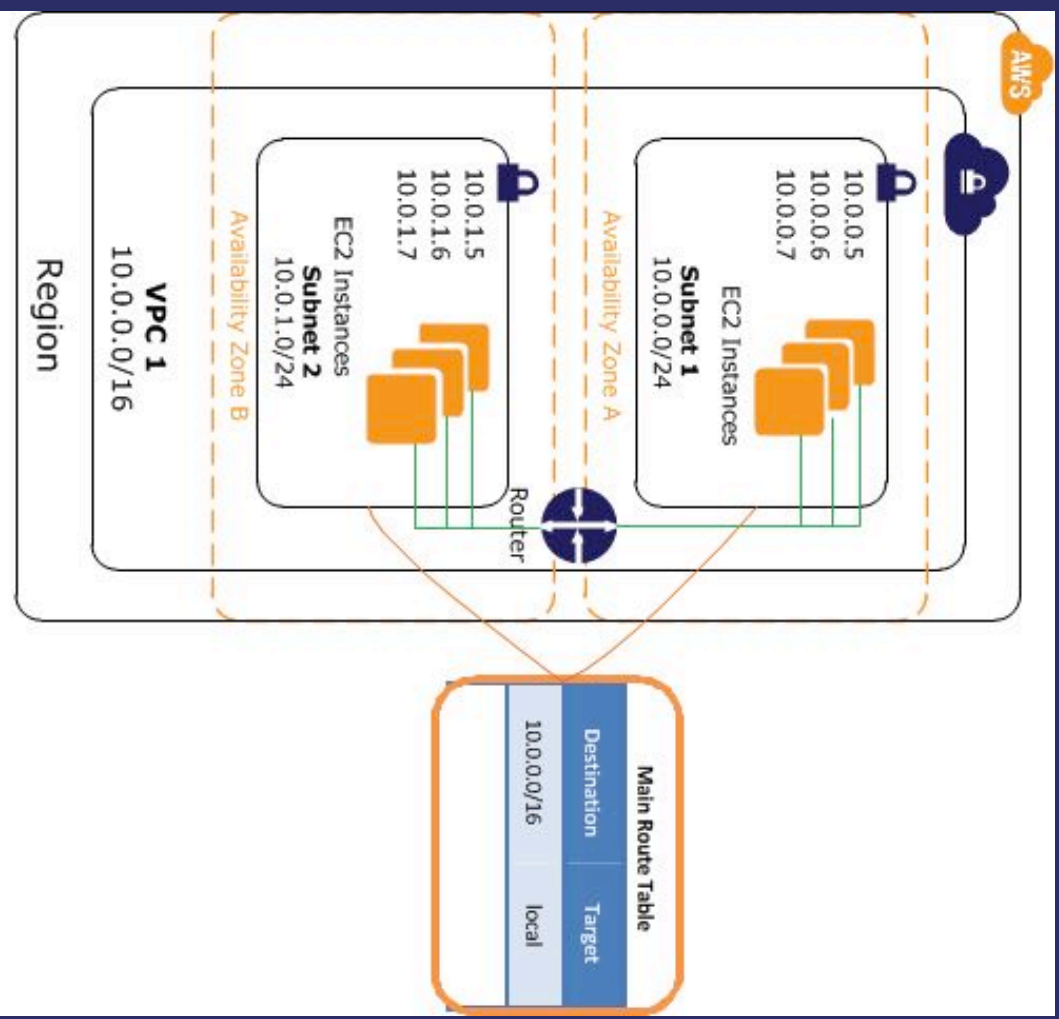




○ PoP

○ Regions





Once upon a time

Handcraftins



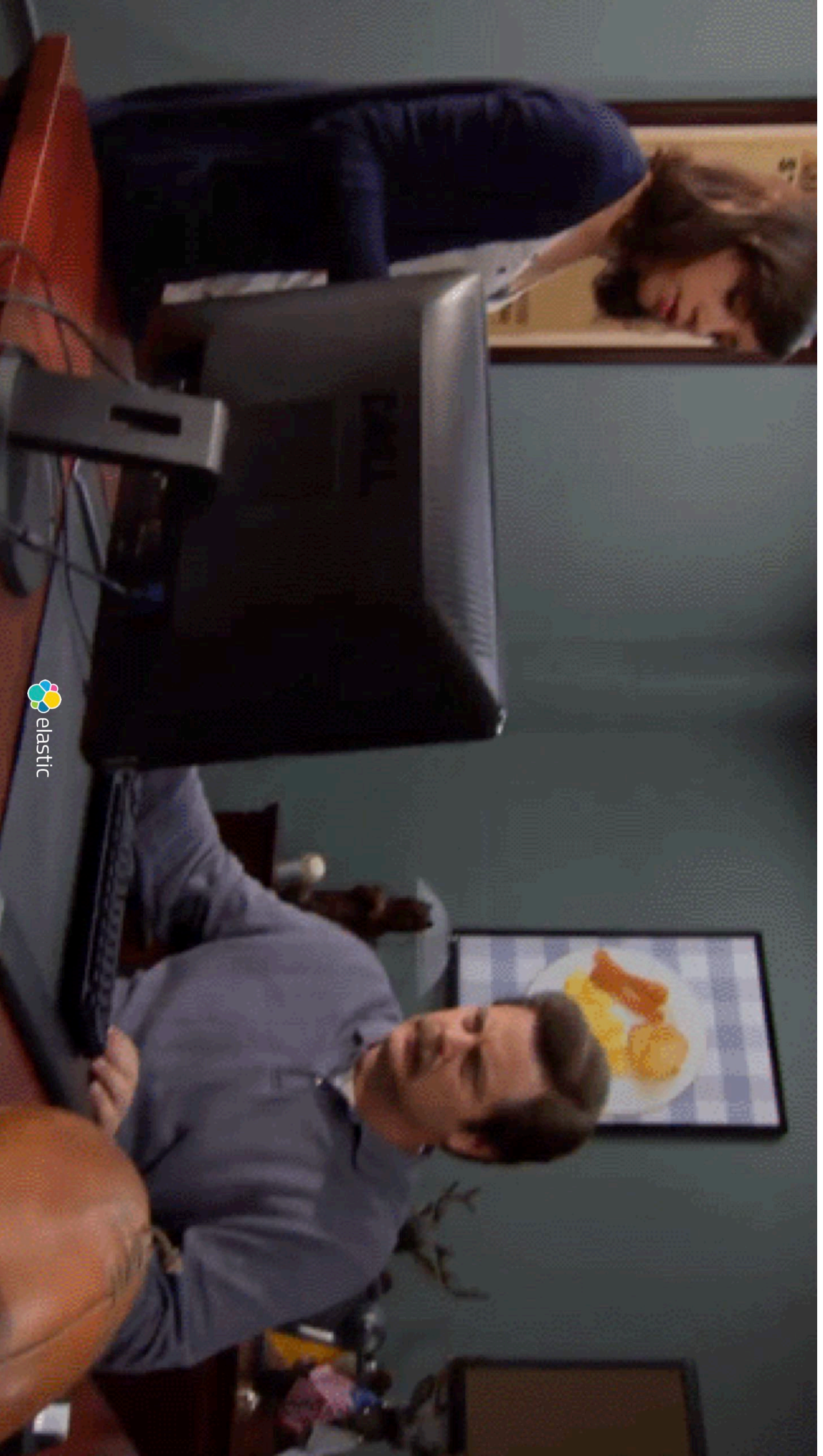
It worked
sort of...



Root Login

<https://console.aws.amazon.com>

Demo



Doing it right





 elastic



Pets vs Cattle

AMMS

AMMS CloudFormation Terraform

<http://charity.wtf/2016/02/23/two-weeks-with-terraform/>



System

**Chef, Puppet, Ansible,
Saltstack,...**

One tool



Ansible

Inventory

Playbook

Role



Boto



USB stick

VirtualBox

BOX

VirtualBox

Windows, Mac: USB stick
Linux

https://www.virtualbox.org/wiki/Linux_Downloads

BOX

Vagrant Ansible Provisioner



But how?

Vagrant

Ansible Provisioner



Credentials

vagrant

vagrant



SSH

```
$ ssh vagrant@127.0.0.1 -p 2222 -o  
PreferredAuthentications=password
```

Test

\$ ansible --version

Create a VPC in Frankfurt

playbooks/0_vpc-create.yml

inventory

group_vars/all.yml

Change

In group_vars/all.yml myname

Run the playbook

```
$ ansible-playbook playbooks/0_vpc-  
create.yml
```

If it fails

check your firewall
check your time

Security Groups

playbooks/1_security-groups.yml

Run the playbook

```
$ ansible-playbook playbooks/1_security-  
groups.yml
```


Create a Key Pair

playbooks/2_generate-key.yml

Run the playbook

```
$ ansible-playbook playbooks/2_generate-  
key.yml
```

Create an instance

playbooks/3_instance-create.yml and role

Run the playbook

```
$ ansible-playbook playbooks/3_instance-  
create.yml
```

Find the `dns_name` in the output

Something like `ecc2-52-29-131-72.eu-central-1.compute.amazonaws.com`

SSH into the instance

```
ssh ubuntu@ec2-52-29-131-72.eu-central-1.compute.amazonaws.com -i ~/.ssh/id_rsa
```

SSH into the instance

```
$ ssh ec2-52-29-131-72.eu-central-1.compute.amazonaws.com -F  
ssh.config
```


Change the DNS in your *inventory* file

```
[first]
```

```
ec2-52-29-131-72.eu-central-1.compute.amazonaws.com
```

Provision your instance

playbooks/4_instance-configure.yml

Run the playbook

```
$ ansible-playbook playbooks/4_instance-  
configure.yml
```

Access the instance

ec2-52-29-131-72.eu-

central-1.compute.amazonaws.com

Ansible-Vault

\$ ansible-vault



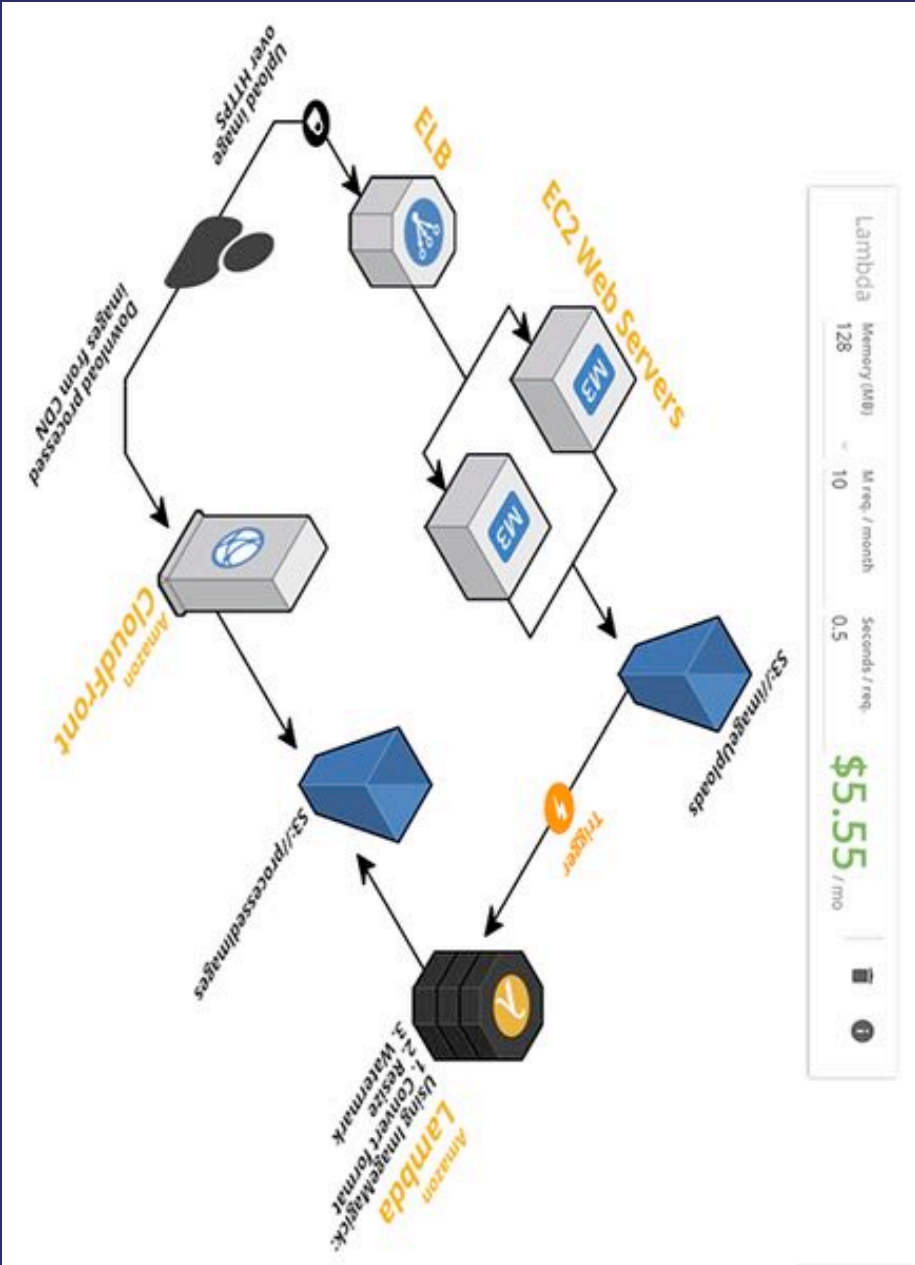
Check & Lint

check-playbook.sh



<https://cloudfcraft.co>





Conclusion

AWMS & Ansible basics

AWMS & Ansible in action

Thanks!

Questions?

@xeraa

