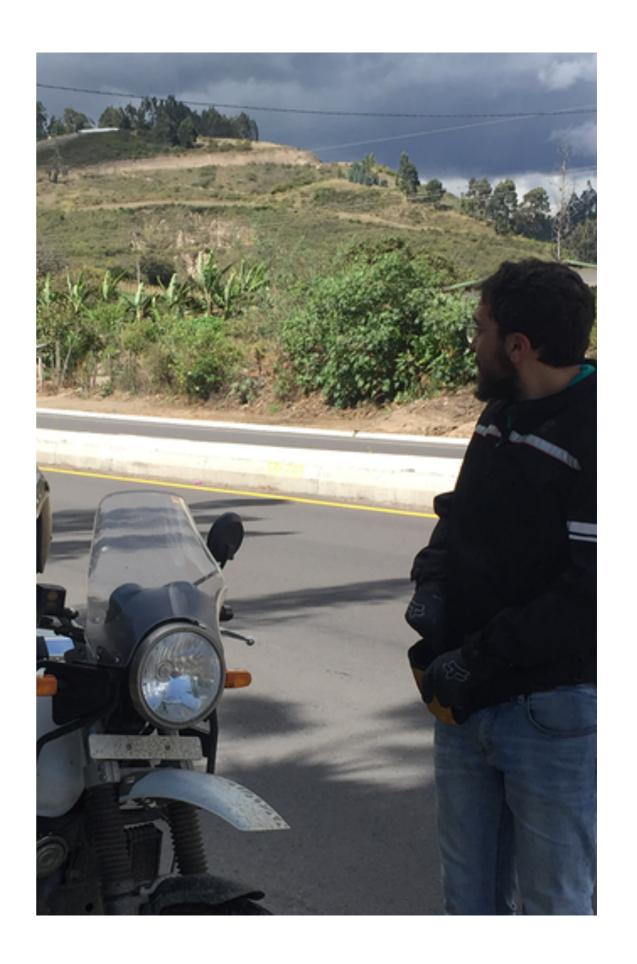
AWS in and out

A quick Journey through Amazon Web Services (Part 1)

Cristian Paul Peñaranda Rojas

@kristianpaul0
paul@kristianpaul.org
github.com/kristianpaul
Dev*Ops At Tpaga



Elastic Beanstalk

- Artifact management (rollback and versioning)
- It creates useful AWS resources like LB/ ASG so you can "scale" your Application without knowing about infra and deal with the details later
- Poor monitoring (Cloudwatch integration across services still evolving)
- Rolling and immutable releases
- Try new stuff like ec2 spot very limited
- CLI friendly: 3 (eb clone, eb upgrade)



- eb logs MyFarm
- eb create MyFarm
- eb deploy MyFarm*

- heroku logs --app MyFarm -tail
- heroku create MyFarm

* not on heroku but still cool

AWS System Manager

- Agent (no SSH, but ssm sessions)
- Automations (run scripts from ssm API/CLI, TAG friendly)
- Parameters (parameter store saves strings and secrets**)
- Packages* (distribute your software)

AWS VPN for users?

- IPSEC and related.. ok for corporate stuff.. but not for everyday user...
- There is VPN Service (OpenVPN) BUT still new and only integrates with AD (do not want!) also bit \$\$\$ per user

Wireguard

- Wireguard tunnels are quick to setup.
- Server key
- Client key
- Store parameters and secrets on AWS System Manger (SSM)
 Parameter Store
- CLI Friendly so you can integrate on bash scripts
- aws ssm put-parameter ...
- aws ssm get-parameter ...

Step 1 from cli

Run this from ec2 userdata

#! /bin/sh

yum install awesomeservice

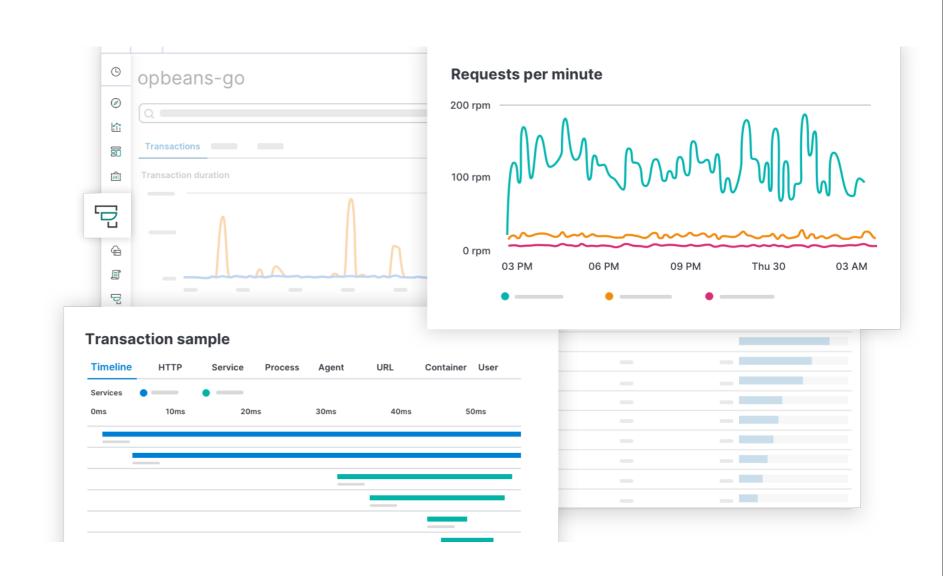
export **service_config_value**=\$(aws ssm get-parameters --names "**service_stored_value**" --query "Parameters[*].{Value:Value}" --output text --with-decryption --region us-east-1)

sed -i 's|placeholder_value|'**\$service_config_value**'|g' /etc/some/file.conf

service awesome service restart

Elastic APM

- Elasticsearch
- Kibana
 - Agents
 - Metricbeats
 - APM
 - Filbeat



Java .NET Go Django Rails Node.js

- Good to get started on getting insight from application
 - Diagnostics
 - Measure response times
 - Error
 - Track sessions

- \$\$\$ Features
 - Machine Learning for anomaly detection
 - Alerting
 - Various management options

https://github.com/kristianpaul/elk-django-apm

AWS Elasticsearch?

- Works for a document DB
- OpenDistro on the works... APM still missing*
- Integration with Cloudwatch? (not just streaming data)

