Building Cloud Native Applications

4 Sessions

- 7th Feb - Cloud Platforms
- 14th Feb - DevOps
- 28th Feb - Uptime
- 7th March - Continuous Improvement

Hello!

I AM ED SHEE

Developer Advocate at IBM

You can find me at @ukcloudman

QCon London

https://qconlondon.com/

Guess the next letter in this sequence:

W, B, M, S, L, ?

RELEVANT FACTORS TODAY

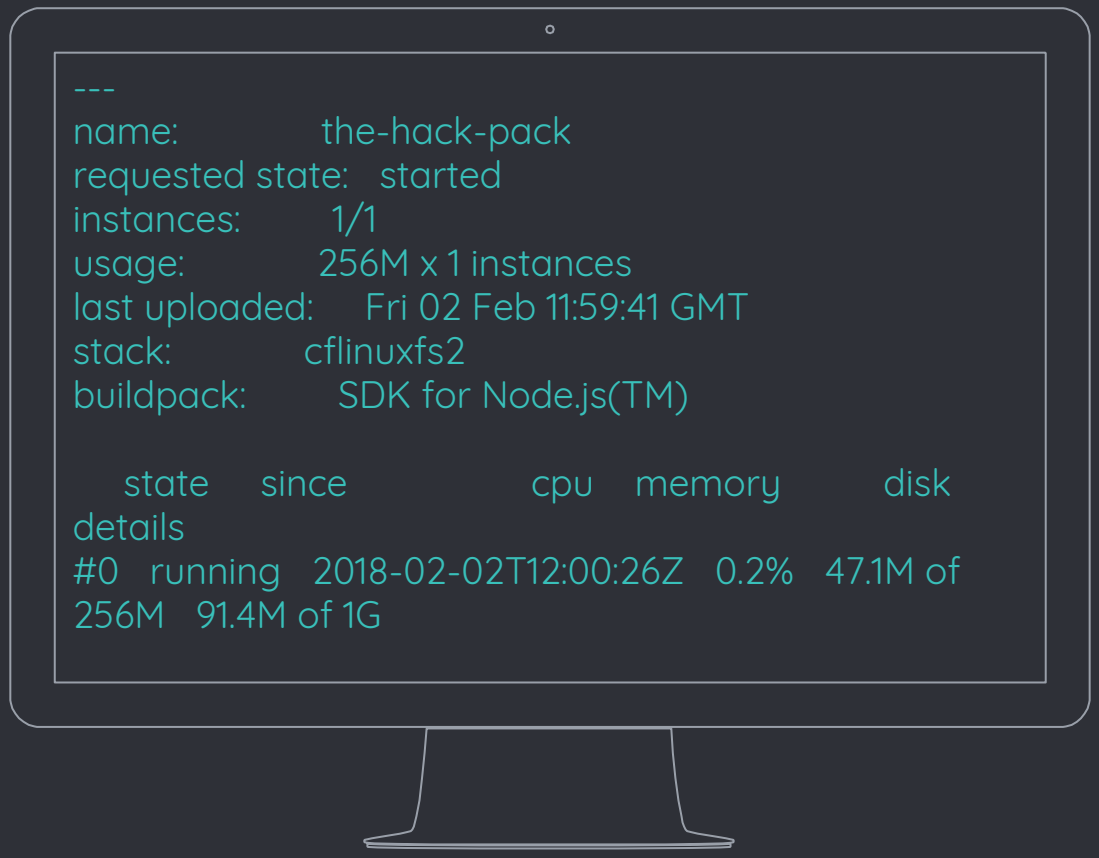
- Processes
- Concurrency
- Disposability
- Logs

Scaling Applications

On Cloud Foundry

cf app APP_NAME

Displays info on the running app instances.



CF SCALE

cf scale APP_NAME

OPTIONS:

-f Force restart of app without prompt
-i Number of instances
-k Disk limit (e.g. 256M, 1024M, 1G)
-m Memory limit (e.g. 256M, 1024M, 1G)

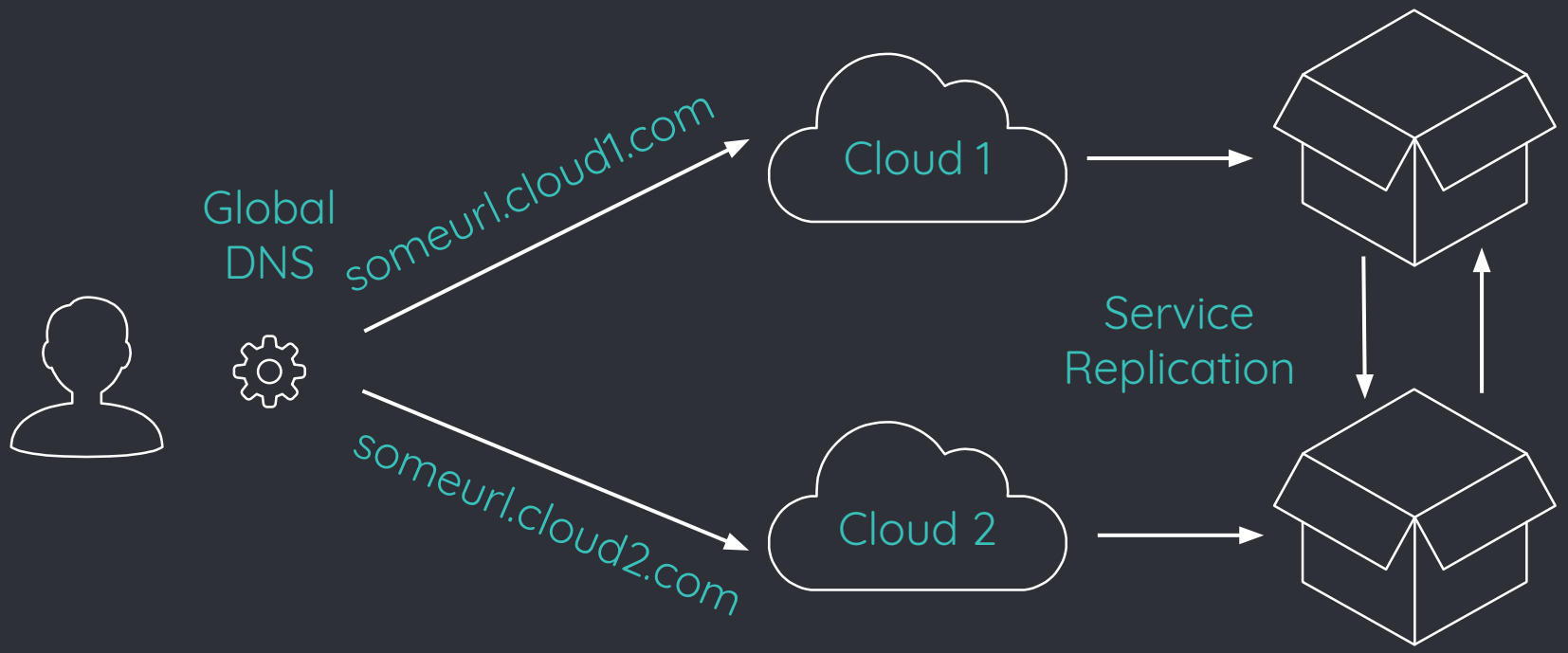
CF AUTOSCALER

- https://github.com/cloudfoundry-incubator/app-autoscaler
- Scaling based on time
- Scaling based on CPU
- Scaling based on Memory

Multi-Cloud Deployment

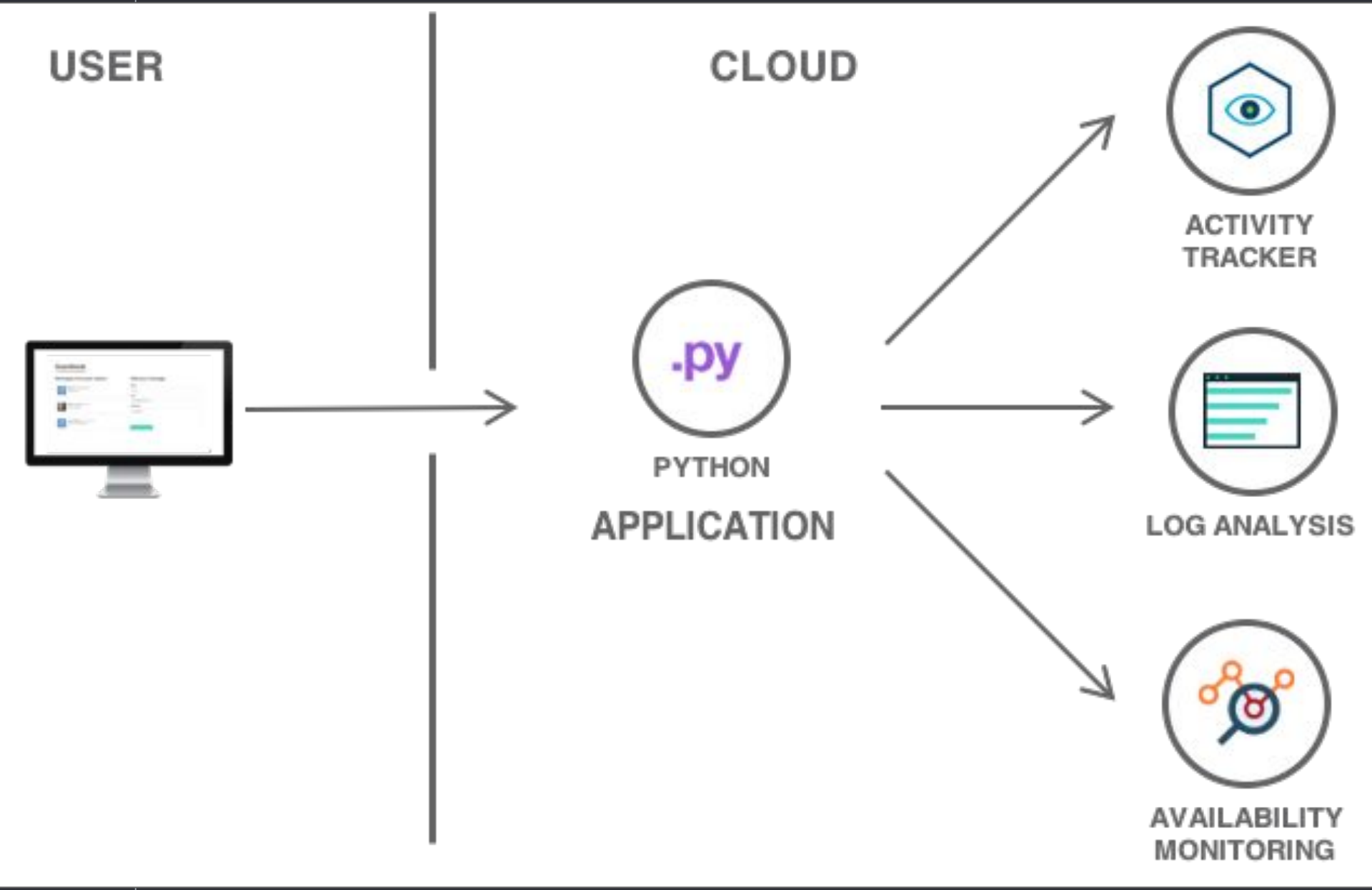
Because “trust no-one”, that’s why!

MULTI-CLOUD DEPLOYMENTS



Monitoring and Logging

Keeping that app alive


USER
CLOUD
.py
PYTHON
APPLICATION
ACTIVITY
TRACKER
LOG ANALYSIS
AVAILABILITY
MONITORING

There are loads of monitoring and logging tools...

logstash

New
Relic.

AppDynamics

LOGGLY

DATADOG

pagerduty

splunk>

Prometheus

- ELK stack

Collect
&
Transform
Search
&
Analyze
Visualize
&
Manage
LOG
logstash
elasticsearch
kibana

Workshop - Monitoring and Logging

https://github.com/edshee/cndworkshops

Thanks!

ANY QUESTIONS?

You can find me at

Slack: ibm-code-london

Twitter: @ukcloudman

Email: edmundshee@uk.ibm.com