

- 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, ?

A vertical white line runs down the left side of the slide. A teal-colored dot is positioned on this line, aligned with the 'RELEVANT FACTORS TODAY' header.

● RELEVANT FACTORS TODAY

- 
- A white circle is positioned on the vertical line, aligned with the first list item 'Processes'.
- Processes
 - Concurrency
 - Disposability
 - Logs



Scaling Applications

On Cloud Foundry

cf app **APP_NAME**

Displays info on
the running app
instances.

```
---
name:      the-hack-pack
requested state: started
instances:  1/1
usage:      256M x 1 instances
last uploaded:  Fri 02 Feb 11:59:41 GMT
stack:      cflinuxfs2
buildpack:   SDK for Node.js(TM)

      state  since                cpu  memory       disk
details
#0  running  2018-02-02T12:00:26Z  0.2%  47.1M of
256M  91.4M of 1G
```

● 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

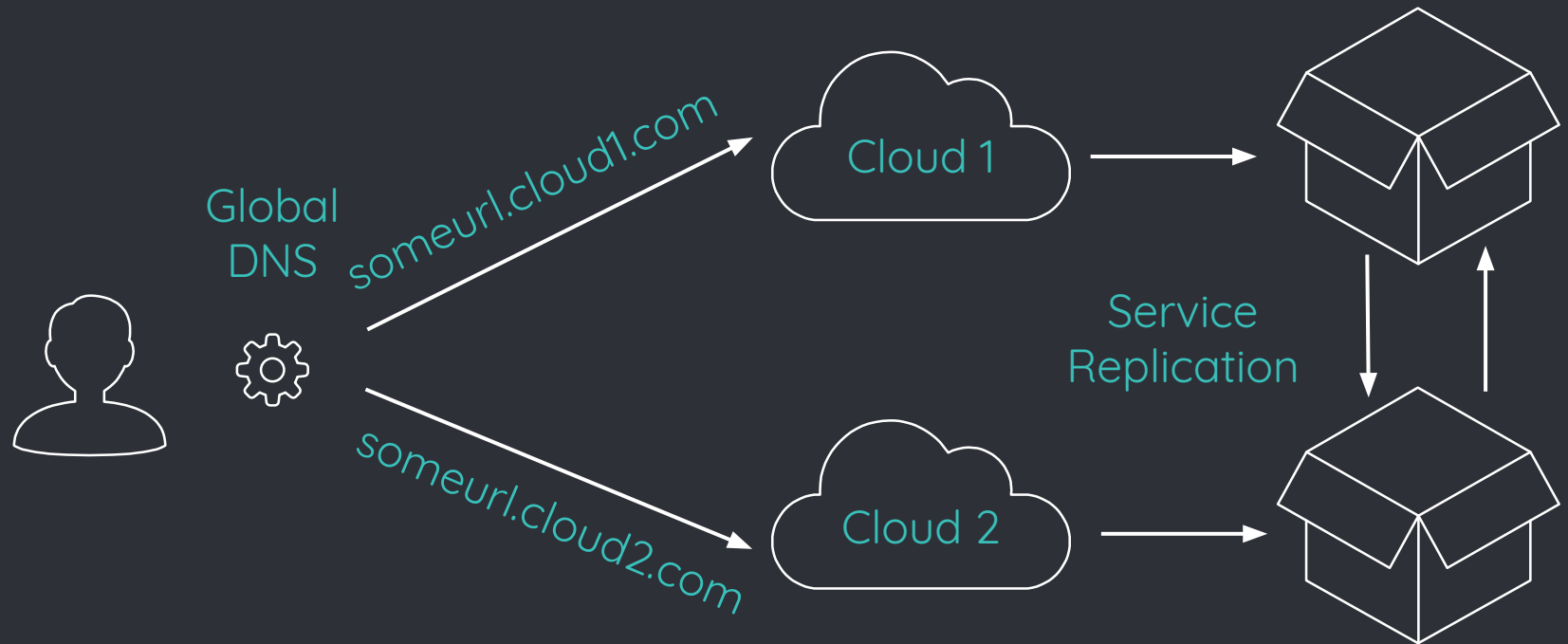
- <https://github.com/cloudfoundry-incubator/app-autoscaler>
- Scaling based on time
- Scaling based on CPU
- Scaling based on Memory



Multi-Cloud Deployment

Because “trust no-one”, that’s why!

MULTI-CLOUD DEPLOYMENTS





Monitoring and Logging

Keeping that app alive

USER

CLOUD



**PYTHON
APPLICATION**




**ACTIVITY
TRACKER**



LOG ANALYSIS



**AVAILABILITY
MONITORING**



There are loads of
monitoring and logging
tools...



logstash



AppDynamics

LOGGLY



pagerduty

splunk® >



Prometheus

- ELK stack



A thin vertical line runs down the left side of the slide, with a small open circle positioned at approximately the middle height.

Workshop - Monitoring and Logging

<https://github.com/edshee/cndworkshops>

Thanks!

ANY QUESTIONS?

You can find me at

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