Building CloudNativeApplications

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

WIN Tickets to Qcon London IBM Code London Meet Up – 26th & 28th February 2018

Prize Giveaway Terms & Conditions

- no purchase is necessary for entry to the prize draw
- -All Attendees can participate, and no purchase required.
- all 18yrs and older participants are eligible
- -Non eligible participants are IBM employees, their agents and families. Also, Public Sector/Government Owned Entity (GOE) employees, will not be eligible to enter into this competition. For the avoidance of doubt, an incorrect determination by the participant will result in their entry being void, thus making said participant ineligible to win the prize. GOEs include but are not limited to:
 - Governmental bodies national, state, local, municipal government and any department, agency, public enterprise or instrumentality of a government;
 - State owned hospitals, schools, utilities, etc.;
 - Public international organizations (e.g., United Nations);
 - State owned enterprises (whether wholly or partly owned);
 - Private companies controlled by or under common control with any of the above; and
 - Any entity subject to the applicable country's public procurement laws and regulations.
- -To participate, provide your contact details to the Organiser when you arrive at the meetup and the winners will be picked at random.
- -By providing your details you are opting in to the prize draw and are consenting to being contacted by an IBM Representative after the event
- -All completed entries will be entered, with the winning entry confirmed on Monday 12th and Wednesday 14th February
- -The winner will be notified immediately by IBM
- There is no cash alternative to the prize offered
- -IBM will not publish the name of the prize winner without the participant's prior written consent being obtained
- -IBM reserves the right to halt or pause the prize draw at any time

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. 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

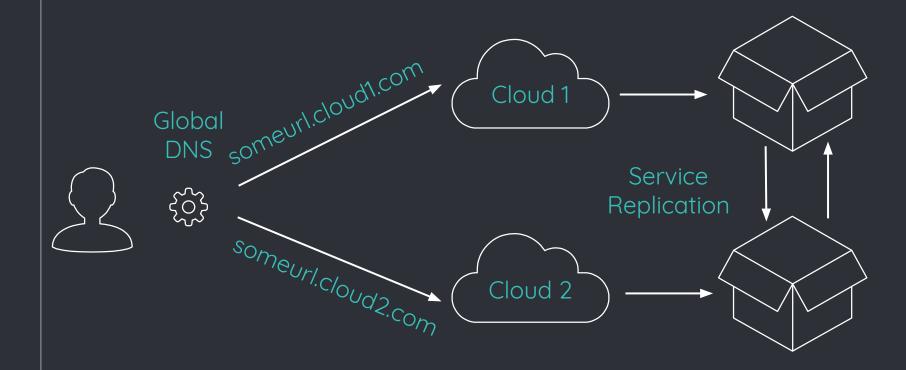
- https://github.com/cloudfoundry-incubator/app-autoscaler
- Scaling based on time
- Scaling based on CPU
- Scaling based on Memory



Multi-Cloud Deployment

Because "trust no-one", that's why!

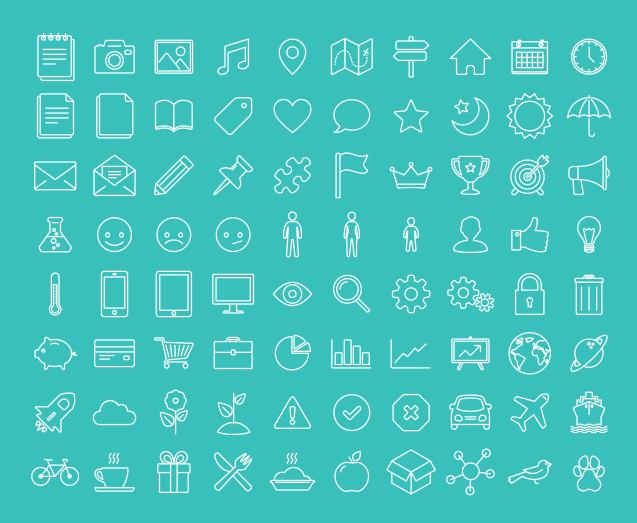
MULTI-CLOUD DEPLOYMENTS





Monitoring and Logging

Keeping that app alive



SlidesCarnival icons are editable shapes.

This means that you can

- Resize them withou losing quality.
- Change line color, width and style.

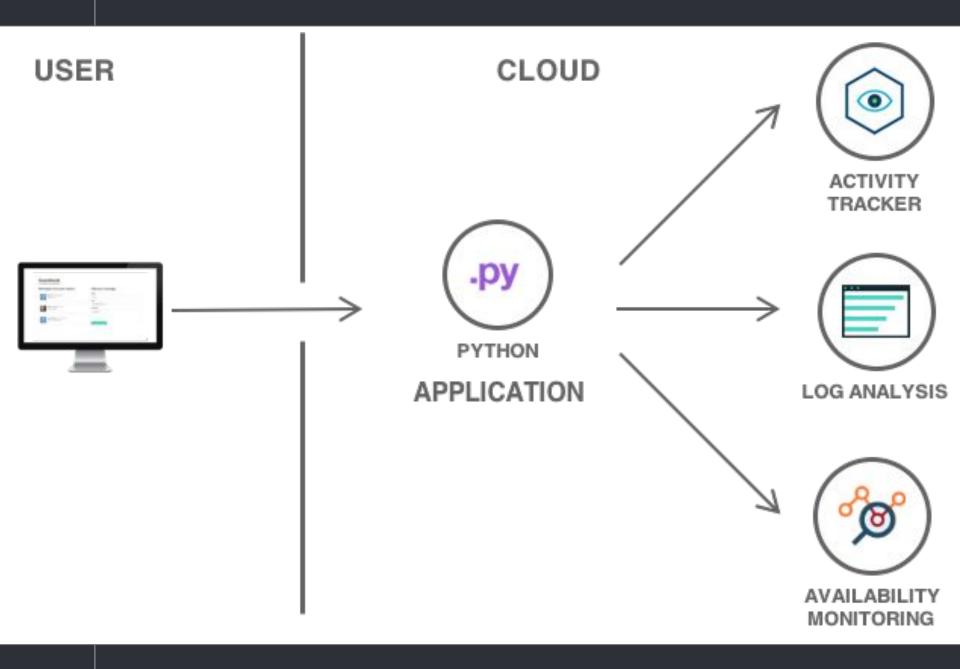
Isn't that nice? :)

Examples









There are loads of monitoring and logging tools...

















ELK stack



Workshop - Monitoring and Logging

https://github.com/edshee/cndworkshops

Thanks!

ANY QUESTIONS?

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