



03/04/2019

info@cloudnativebirmingham.dev

Code Of Conduct

<https://communitycodeofconduct.com>



Thanks to our Sponsor!

BlackCat /



FIND THE
VALUE.
DELIVER IT.
REPEAT.

Agile Product Delivery



Overview

- Survey
- Who we are
- What to expect from CNCF Birmingham
- CNCF Overview



Matt Todd

Chief Architect @ BlackCat Solutions

Cloud Native Advocate

`matt@cloudnativebirmingham.dev`

`github.com/mattjtodd`

`hub.docker.com/u/mattjtodd`





Alistair Hey

Software Engineer @ Black Cat Solutions

`alistair@cloudnativebirmingham.dev`

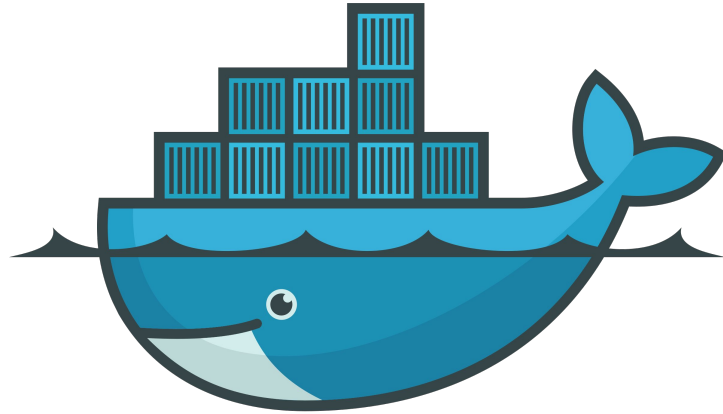
`github.com/Waterdrips`



Shaun McLernon

Chaos Monkey @ Black Cat Solutions

`shaun@cloudnativebirmingham.dev`



docker

Birmingham

7/8 th May

What is Cloud Native?



THE
LINUX
FOUNDATION



**CLOUD NATIVE
COMPUTING
FOUNDATION**

CNCF Mission Statement

“Cloud native technologies empower organizations to build and run scalable applications in modern, dynamic environments such as public, private, and hybrid clouds”



Containerised



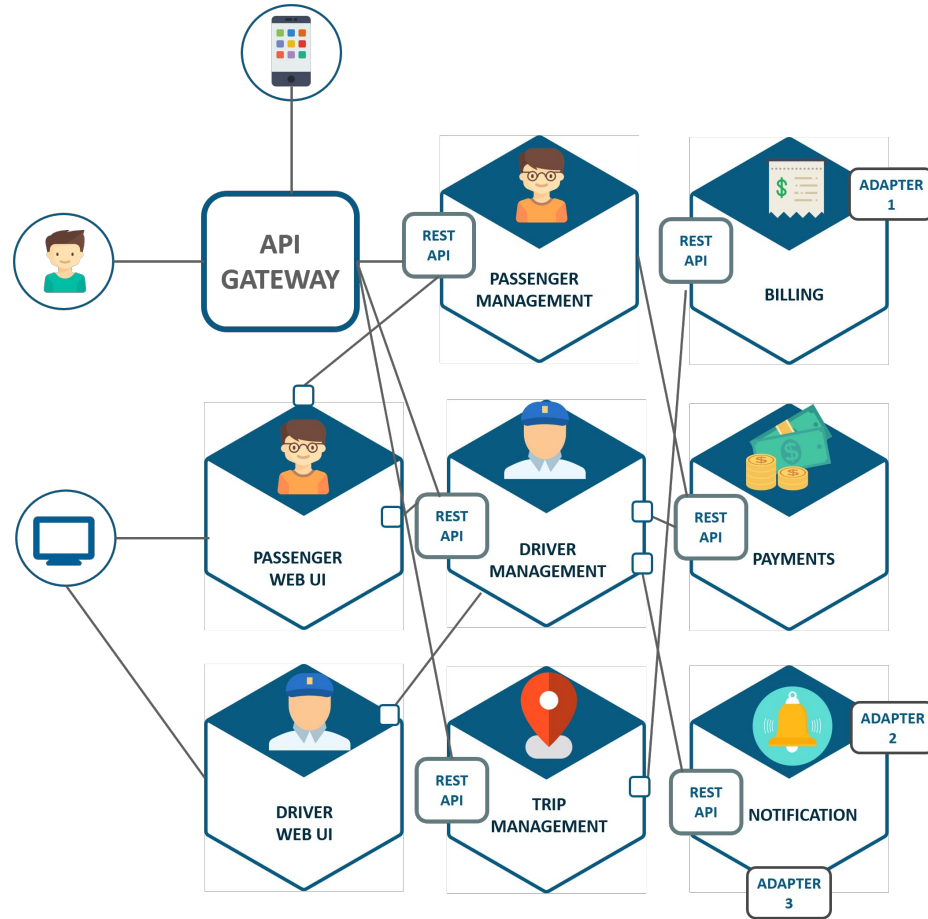
OPEN CONTAINER
INITIATIVE



cri-o



Microservices Architecture





Orchestrated



kubernetes



MESOSPHERE

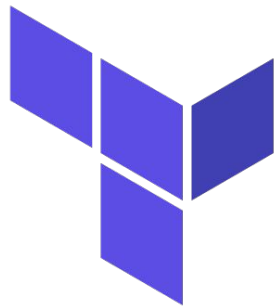


HashiCorp

Nomad



Immutable Infrastructure



HashiCorp

Terraform



HashiCorp

Packer



CloudFormation



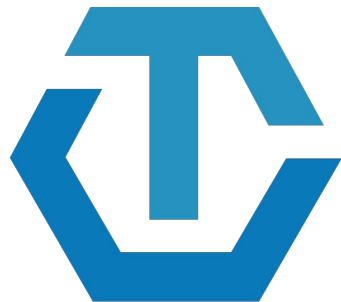
Declarative APIs

{REST*ful* API}

“These techniques enable loosely coupled systems that are resilient, manageable, and observable.”



Observability & Analysis



OPENTRACING



fluentd



JAEGER

**“We democratize
state-of-the-art patterns to
make these innovations
accessible for everyone.”**

—



open source

**“CNCF technologies enable
cloud portability without
vendor lock-in.”**

CNCF Trail Map

<https://bit.ly/2HP2789>



CLOUD NATIVE TRAIL MAP

The Cloud Native Landscape <https://github.com/cncf/landscape> has a growing number of options. This Cloud Native Trail Map is a recommended process for leveraging open source, cloud native technologies. At each step, you can choose a vendor-supported offering or do it yourself, and everything after step #3 is optional based on your circumstances.

HELP ALONG THE WAY

A. Training and Certification

Consider training offerings from CNCF and then take the exam to become a Certified Kubernetes Administrator <https://www.cncf.io/training>

B. Consulting Help

If you want assistance with Kubernetes and the surrounding ecosystem, consider leveraging a Kubernetes Certified Service Provider <http://cncf.io/csp>

C. Join CNCF's End User Community

For companies that don't offer cloud native services externally <http://cncf.io/enduser>

WHAT IS CLOUD NATIVE?

- **Operability:** Expose control of application/system lifecycle.
- **Observability:** Provide meaningful signals for observing state, health, and performance.
- **Elasticity:** Grow and shrink to fit in available resources and to meet fluctuating demand.
- **Resilience:** Fast automatic recovery from failures.
- **Agility:** Fast deployment, iteration, and reconfiguration.

www.cncf.io
info@cncf.io

v10





CNCF Events

KubeCon + CloudNativeCon Europe

May 20-23 2019

<https://events.linuxfoundation.org/events/kubecon-cloudnativecon-europe-2019/>



CNCF Webinars (April)

- <https://www.cncf.io/events/>
 - [CNCF Webinar Series – Simplifying Microservices Security With a Service Mesh](#)
 - [CNCF Webinar Series – Kubernetes in Production: Operating etcd with etcdadm](#)
 - [CNCF Webinar Series – What's New in Kubernetes 1.14](#)



How do I get involved?

- Slack
- Speak
- Attend
- Organise
- Share



You want to speak?

Fantastic...

You can contact us at:

`info@cloudnativebirmingham.dev`

<https://matttodd157815.typeform.com/to/UrJWUq>

We can help out if it's your first time!

Questions?



Next Meetups

5th June

7th August

And most importantly.....

