Cloud Native:
La nueva ola en el desarrollo de aplicaciones

Cloud Native:
The new wave on applications development

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HELLO!

I am Obed N Muñoz Reynoso

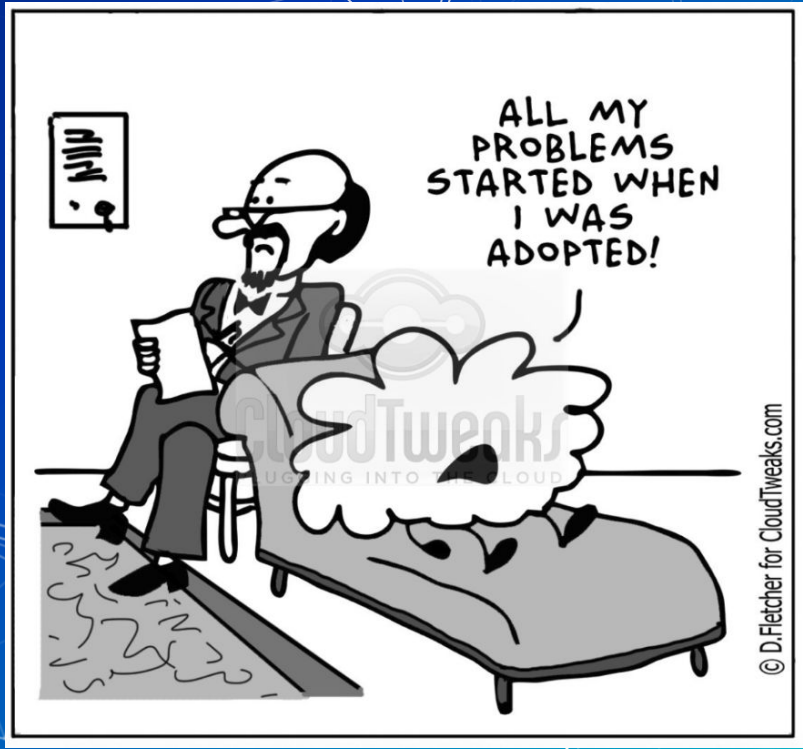
I am here because I love to give presentations.

You can find me at @_obedmr

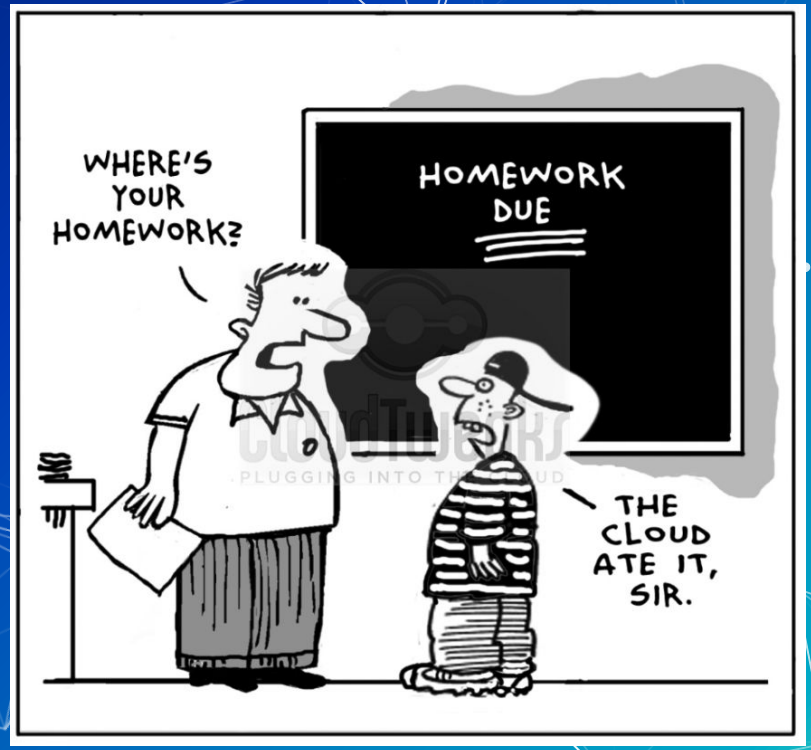
Agenda

- What's a Cloud Native App?
- Cloud Native vs Traditional
- Cloud Native Architecture and attributes
- Microservices into the scene
- CCNF Ecosystem
- Resources for home
- Q&A

Ice breaking



Ice breaking



1. What's a Cloud Native App

Let’s start with the first set of slides

> A **Native cloud application** (NCA) is a type of computer software that natively utilizes services from cloud computing providers as ...

From en.wikipedia.org

2. Cloud Native vs Traditional

Let’s start with the second set of slides

Common need groups		Cloud Native	Traditional	Desired features
1	Design, Development & Testing	✓	✗	▪ Predictable ▪ Right sized capacity ▪ Collaborative
2	Deployment	✓	✗	▪ OS Abstraction ▪ Configuration Management ▪ Security
3	In Production	✓	✗	▪ Continuous Delivery ▪ Hybrid deployments ▪ Monitoring
4	Maintenance	✓	✗	▪ Independent ▪ Rapid Recovery ▪ Auto healing
5	Scalability	✓	✗	▪ Automated Scalability ▪ Intelligent Scalability ▪ Elasticity

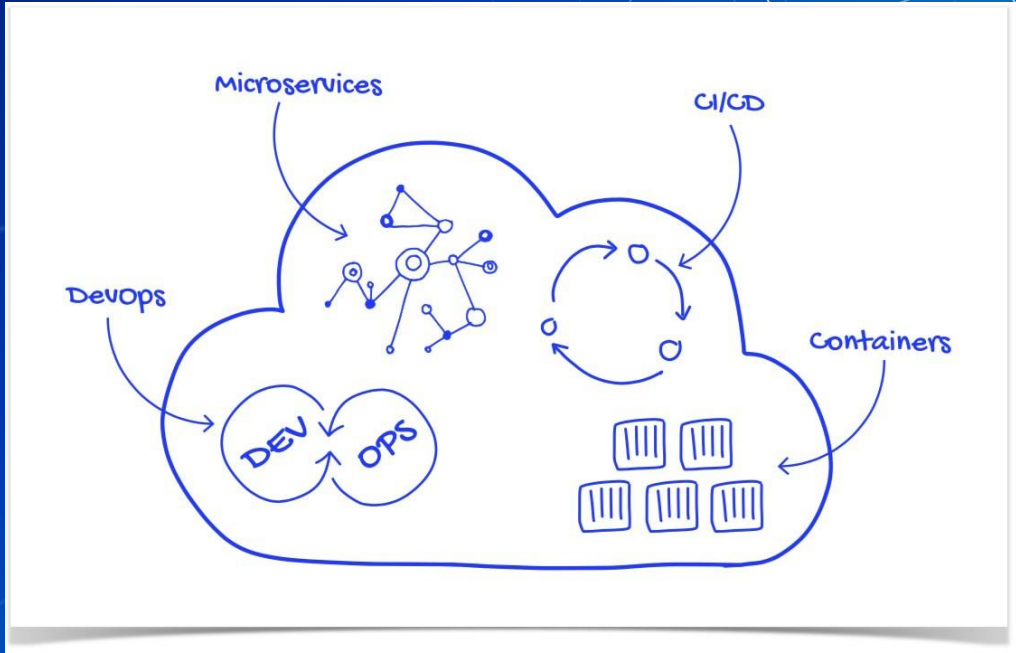
Source: https://pivotal.io/cloud-native

3. Cloud Native Architecture and Attributes

Let’s start with the third set of slides

Cloud Native Architecture

- Microservices
- DevOps
- CI/CD
- Containers



DevOps

DevOps is an approach to culture, automation, and platform design intended to deliver increased business value and responsiveness.

Microservices

A microservices architecture breaks apps down into their smallest components, independent from each other.

APIs

They connect products and services without having to know how they're implemented.

Containers

Containers allow apps to be packaged and isolated with their entire runtime environment

Source: https://www.redhat.com/en/topics/cloud-native-apps

Some Attributes of Cloud Native Applications

- Packaged as containers
- Designed for microservices
- APIs for interaction and collaboration
- Stateless and Stateful services

- Isolated from server
- Minimal or Null OS dependencies
- Self-services, elastic & cloud deployment
- Managed through DevOps
- Automation, Automation, Automation
- Secure by Default

Source: https://thenewstack.io/10-key-attributes-of-cloud-native-applications/

"One of the things we've learned is that if you can't get it to market more quickly, there is no doubt that the market will have changed and no matter how well you've engineered it or built it or deployed it or trained your folks, it's not going to be quite right because it's just a little too late

James McGlennon - Executive VP and CIO, Liberty Mutual Insurance Group

4. Microservices into the scene

Let’s start with the fourth set of slides

Microservices

- Separation of duties thinking
- Developer independence
- Test/Hack/Debug-ability
- Isolation and resilience
- Scalable as default
- Lifecycle automation
- Packaging
- Serverless
- The Role of Open Source
- Orchestration (Kubernetes / Docker)

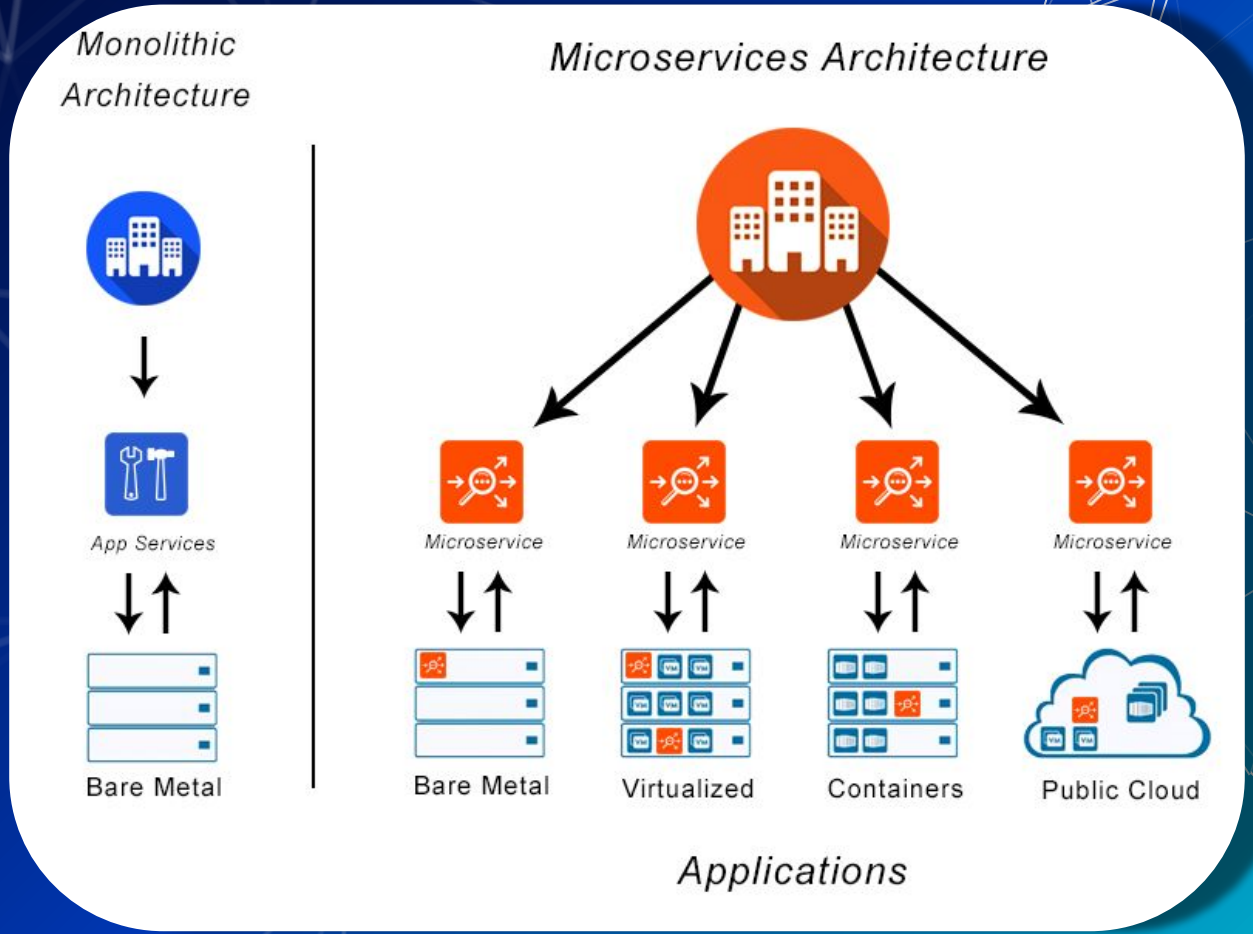
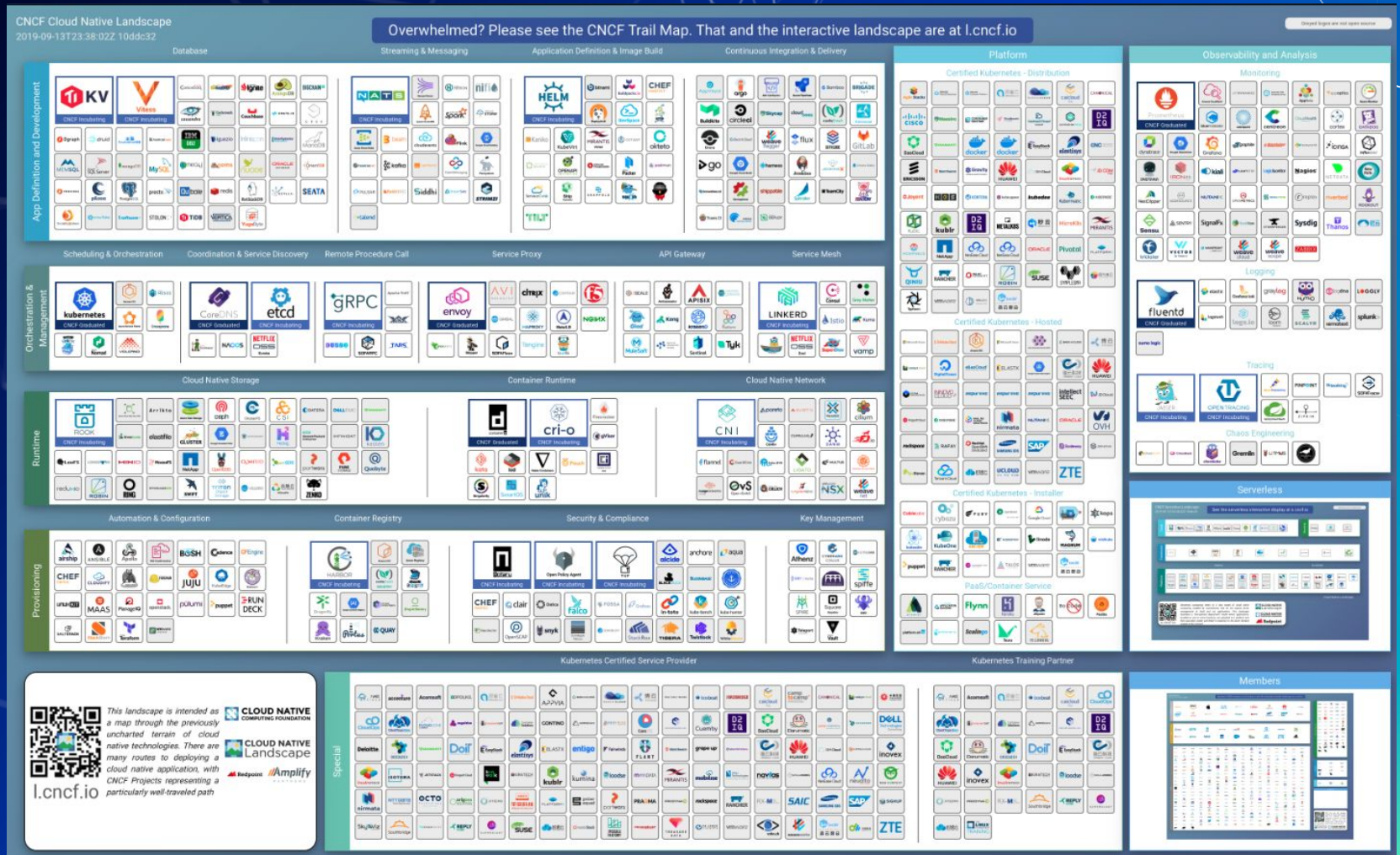


Image source: https://avinetworks.com/glossary/microservice/

5.
CCNF Ecosystem

Let’s start with the fifth set of slides



More details at: https://landscape.cncf.io

6.
Resources for home

Let’s start with the sixth set of slides

Yes, you have homework

Search for Cloud Native & Microservices on:

- Books
- Tutorials
- Youtube
- Medium
- CNCF
- Cloud Providers

CREDITS

Special thanks to all the people who made and released these awesome resources for free:

- Presentation template by SlidesCarnival
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THANKS!

Any questions?

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