

What is Cloud Native, and why should I care?

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Improvement

App Definition and Development

- Database and Data Warehouse
- Streaming
- Source Code Management
- Application Definition and Image Build
- Continuous Integration / Continuous Delivery (CI/CD)

Scheduling & Orchestration

- Coordination & Service Discovery
- Service Management

Registration & Management

Runtime

Provisioning

Cloud

Platforms

Certified Kubernetes - Distribution

Certified Kubernetes - Hosted

Non-Certified Kubernetes

PaaS / Container Service

Serverless

Observability & Analysis

Monitoring

Logs

Metrics

Tracing

Cloud Native Computing Foundation

Special

Partners

Training

Cloud Native Landscape

This landscape is intended as a map through the previously uncharted terrain of cloud native technologies. There are many routes to deploying a cloud native application, with CNCF Projects representing a particularly well-traveled path.

l.cncf.io

Prop 11

In a PID, any nonzero elt is prime
iff it is irreducible

$$4 = 2 \cdot 2 = (-2)(-2)$$

unit

unit,

$$r = ab, a, b \in R,$$

unit.

irreducible.

is prime if (r) is a prime ideal if $r | ab$, then $r | a$

How is it defined?

① If $\forall r \in R$, $r = p_1 \cdots p_n$, $p_i \in R$ are irreducible,

② this product is unique, up associates; $r = q_1 \cdots q_n$
 $| r$, after reordering, q_i irreducible, p_i, q_i associates.



WHY Cloud Native?





Case Studies



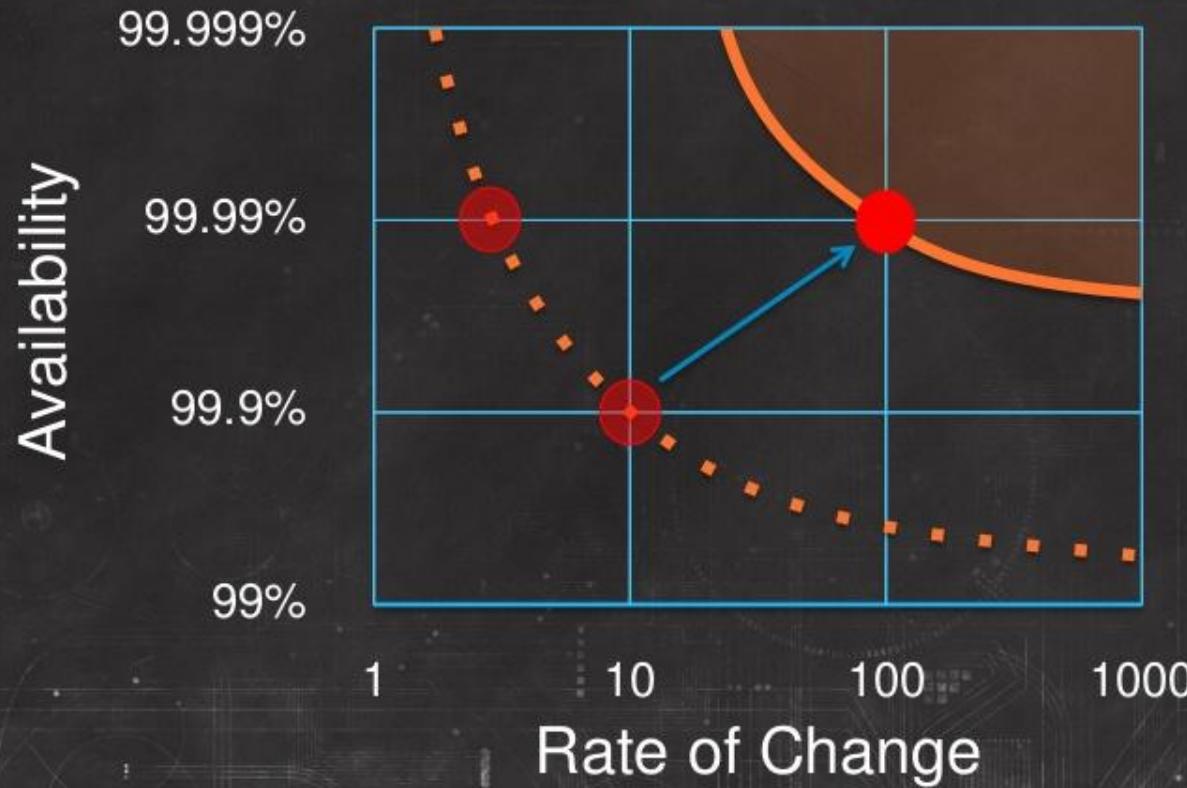
Reliability



Velocity



Shifting the Curve...





Efficiency



HOW?

Containers



Dynamic Management



Microservices





Technological Paradigm

O'REILLY®



Cloud Native Infrastructure

PATTERNS FOR SCALABLE INFRASTRUCTURE AND APPLICATIONS
IN A DYNAMIC ENVIRONMENT

Justin Garrison & Kris Nova



Useful Abstractions



Infrastructure Managed by Software



Applications Managed by Software



Thanks!

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