



KubeCon



CloudNativeCon

Europe 2018

Kubernetes is blowing up

And it's creating an economic powerhouse in its wake

Ron Miller, TechCrunch



The beauty of open source



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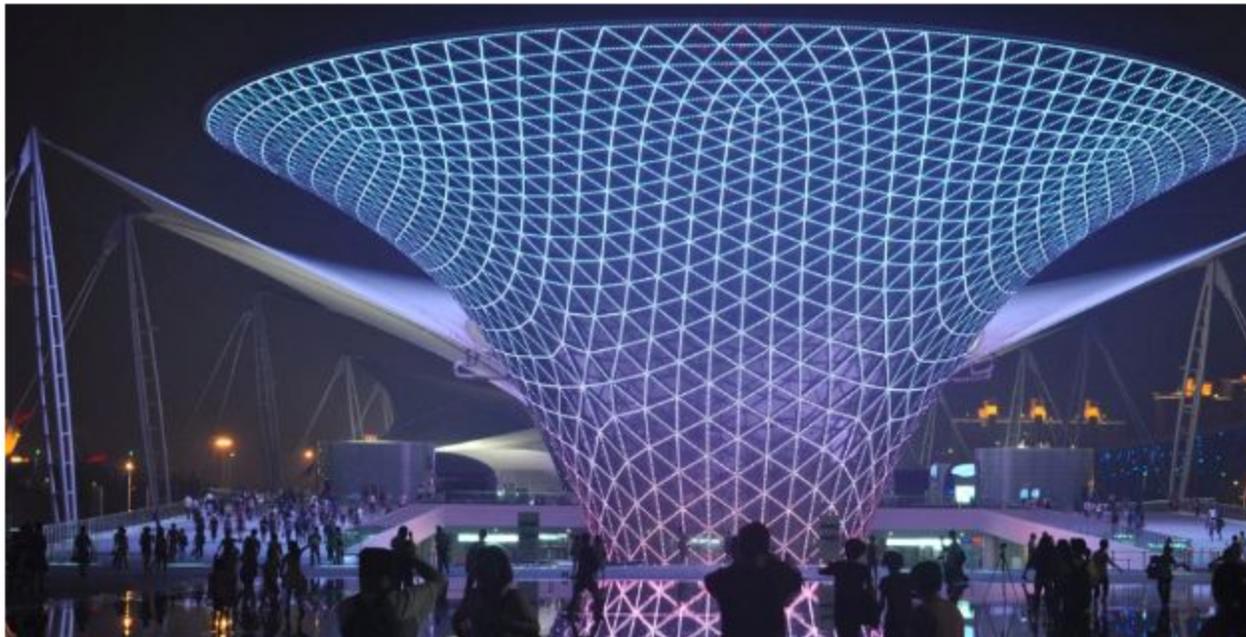
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Open Platforms Fuel Startup Ecosystems

Ron Miller @ron_miller / Jun 27, 2014

 Comment



Growing in leaps and bounds



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As Kubernetes surged in popularity in 2017, it created a vibrant ecosystem

Ron Miller @ron_miller / Dec 18, 2017

Comment



Big guys on board



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Kubernetes gains momentum as big-name vendors flock to Cloud Native Computing Foundation

Ron Miller @ron_miller / Sep 20, 2017

Comment



- Alibaba, AWS, Google, Huawei, IBM, Microsoft Azure, Oracle
- Cisco, CoreOS, Docker, Mesosphere, Pivotal, Red Hat, Samsung SDS, VMware

Developer Momentum



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- An ecosystem of **400+ projects** since Kubernetes 1.0 launch
- Developer contributors have increased by **385%** since joining CNCF*
- **771 developers** contributed **19,151 commits** in the last year*



Photo: Christiaan Colen on Flickr

* Stats courtesy of CNCF as of Aug 2017

Revving an economic engine



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**\$4 Billion in total
investments per
CNCF**

Photo: Images Money on Flickr

Some big raises



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Company	Amount Raised
Hasura	\$1.6M Seed last week
Heptio	\$33.5 M
CoreOS	\$48 M Sold to Red Hat for \$250M in Jan

Photo: selbst fotografiert



Exits



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Company	Acquired by...
Deis	Microsoft
Wercker	Oracle
TCP Cloud	Mirantis
Kismatic	Apprenda
Skipbox	Bitnami
CoreOS	Red Hat



Photo: Ian Mutton

Not a typical open source project



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- Hit the ground running
- Benefited from years of use inside Google
- Didn't require the formation bits

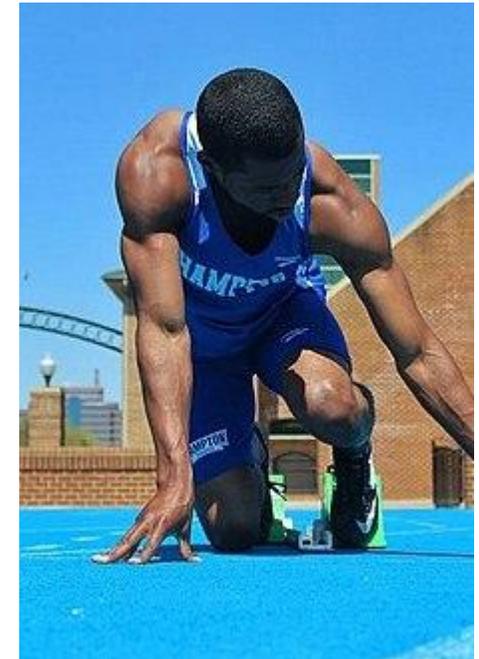


Photo: Captain Cobra16

More cloud native tools



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App Definition & Development

- Database & Data Warehouse: Vitess, BigSQL, Greenplum, Amazon Redshift, Snowflake, Databricks, etc.
- Streaming: NATS, Apache Kafka, Amazon Kinesis, etc.
- Source Code Management: GitHub, GitLab, Bitbucket, etc.
- Application Definition: Helm, Kustomize, etc.
- Continuous Integration / Continuous Delivery (CI/CD): Jenkins, CircleCI, Travis CI, etc.

Orchestration & Management

- Scheduling & Orchestration: Kubernetes, Mesos, Nomad, etc.
- Coordination & Service Discovery: CoreDNS, Consul, etcd, etc.
- Service Management: gRPC, Envoy, Linkerd, etc.

Runtime

- Cloud-Native Storage: Rook, Ceph, etc.
- Container Runtime: Docker, rkt, CRI-O, etc.
- Cloud-Native Network: CNV, etc.

Provisioning

- Host Management / Tooling: Ansible, Puppet, etc.
- Infrastructure Automation: Terraform, BOSH, etc.
- Container Registries: Harbor, Quay, etc.
- Secure Images: Anchore, Clair, etc.
- Key Management: HashiCorp Vault, etc.

Cloud

- Public: AWS, Azure, Google Cloud, etc.
- Private: OpenStack, Scaleway, etc.

Platforms

- Certified Kubernetes - Distribution: Red Hat OpenShift, etc.
- Certified Kubernetes - Platform: etc.
- Non-Certified Kubernetes: etc.
- Platform/Container Service: etc.

Observability & Analysis

- Monitoring: Prometheus, Grafana, etc.
- Logging: FluentD, etc.
- Tracing: Jaeger, etc.
- Serverless: etc.

Kubernetes Certified Service Provider

Special

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.

github.com/cncf/landscape

CLOUD NATIVE COMPUTING FOUNDATION

Redpoint Amplify

The future is bright



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Photo: [Torrey Wiley on Flickr](#)