



**CLOUD NATIVE**  
COMPUTING FOUNDATION

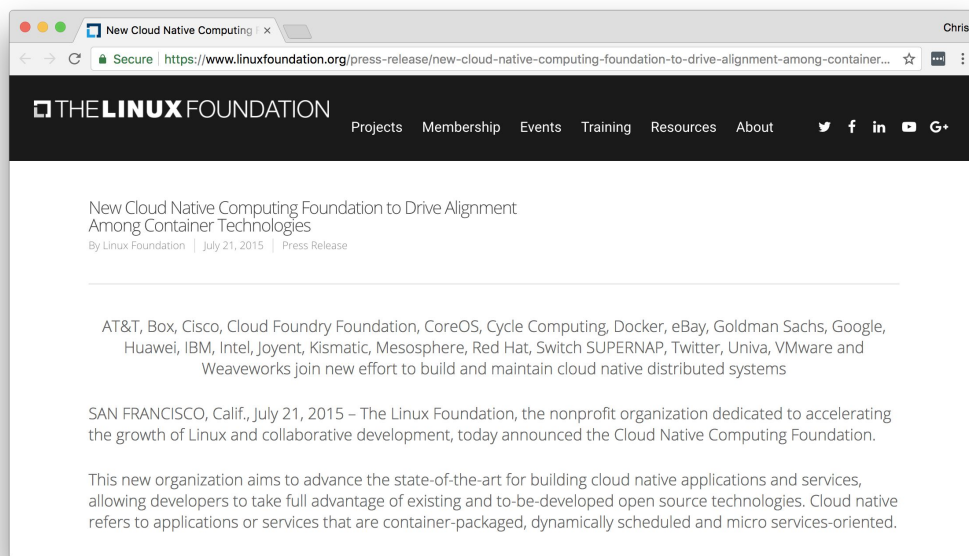
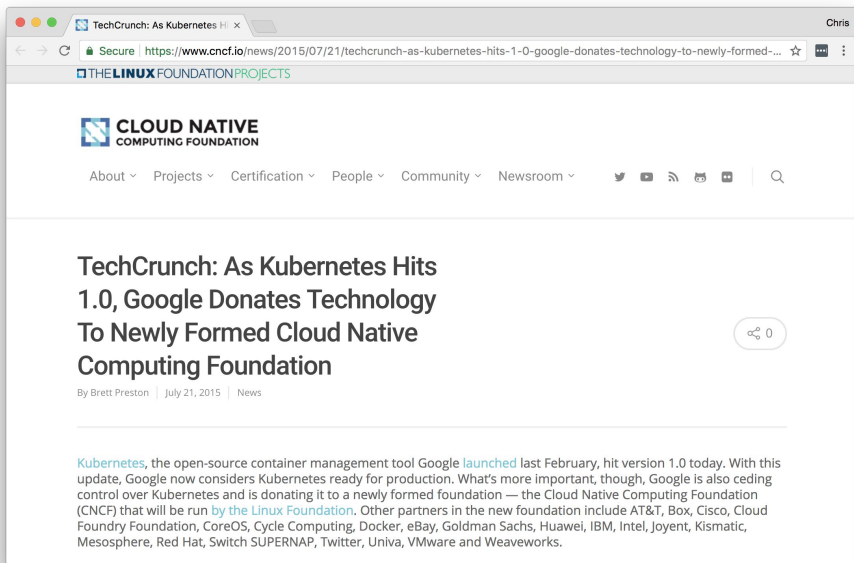
# Cloud Native Updates

Chris Aniszczyk ([@cra](#))  
COO, CNCF

Open Source Summit EU 2017  
<https://cncf.io>

# CNCF Founded\* in Mid 2015: 22 Members

***“New Cloud Native Computing Foundation to Drive Alignment Among Container Technologies; Google Donates Kubernetes To Newly Formed Cloud Native Computing Foundation...”***



# 141 Members (~2 years, 6x+ growth)

## Platinum Members



CoreOS

DELL Technologies



FUJITSU

Google



HUAWEI

IBM



Joyent



MESOSPHERE



Microsoft

ORACLE®

Pivotal



redhat



SAMSUNG SDS



SUPER NAP  
A Switch Company

vmware®

## Gold Members



at&t



Alibaba Cloud



NetApp



SUSE



Tencent Cloud

ZTE

## End Users Members

Bloomberg



ebay



GitHub

Goldman Sachs

Morgan Stanley



twitter



WIKIMEDIA  
FOUNDATION

## End Users Supporters



ticketmaster®



CONCUR



Kuelap

The New York Times

Spredfast



reddit

Orlark

vevo

zalando



zendesk

## Academic/Non-profit



CLOUD FOUNDRY



SEL  
Software Engineering Lab  
Zhejiang University



WIKIMEDIA  
FOUNDATION



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# 141 Members (~2 years, 6x+ growth)

## Silver Members



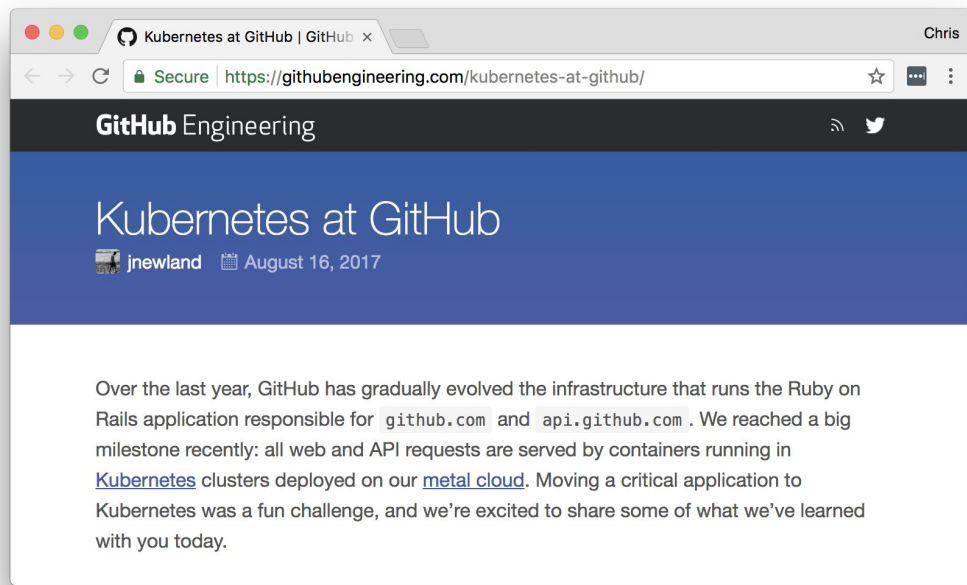
# CNCF + Top 6\* Public Cloud Providers



\*<https://www.gartner.com/doc/reprints?id=1-2G2O5FC&ct=150519>

# Kubernetes self-hosted on itself at GitHub!?

<https://githubengineering.com/kubernetes-at-github/>



# CNCF: 12 Amazing Cloud Native Projects!



Orchestration



Monitoring



Distributed Tracing API



Logging



Service Mesh



Remote Procedure Call



Service Discovery



Container Runtime



Container Runtime



Networking API



Service Mesh



Distributed Tracing







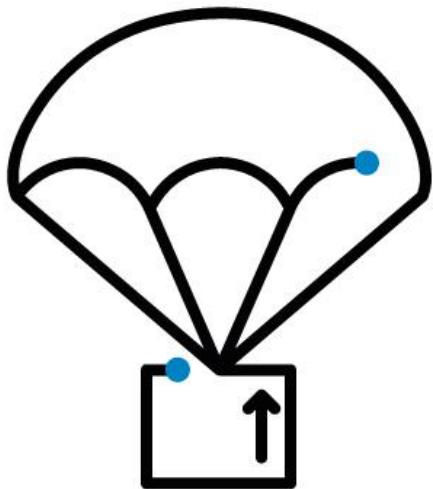


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Riyaz Faizullabhoy

Security Engineer, Docker  
[@riyazdf](https://twitter.com/riyazdf)

# New Projects: TUF & Notary



The Update Framework

<https://github.com/theupdateframework>



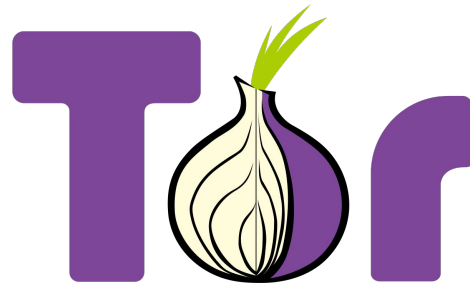
<https://github.com/docker/notary>

# The Update Framework (TUF)

A handwritten signature in black ink, likely belonging to Ben Laurie, a key figure in the TUF project. The signature is stylized and cursive, written on a white background.

# TUF Features

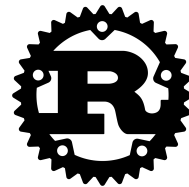
- Authenticity
- Integrity
- **Freshness**
- **Multi-signature Thresholding**
- **Survivable Key Compromise**





# TUF Adopters


















Flynn




# Notary






 **docker / notary** 








 Unwatch  101  Unstar  944  Fork  179



 **Code**  Issues **141**  Pull requests **18**  Boards  Reports  Projects **3**  Wiki  Insights  Settings







Notary is a Docker project that allows anyone to have trust over arbitrary collections of data <https://docker.com> 

[Add topics](#)

 **2,678 commits**  **15 branches**  **35 releases**  **54 contributors**  Apache-2.0

Branch: **master**   New pull request  Create new file  Upload files  Find file  Clone or download 

 **endophage** Merge pull request [#1219](#) from cpuguy83/fixup\_docstrings  Latest commit [fab4c67](#) 17 days ago

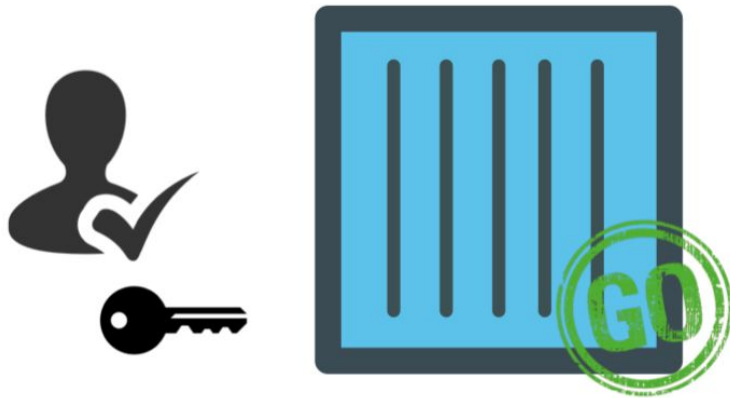
 <a href="#">buildscripts</a>	Enable SSH on the test server for our CI	5 months ago
 <a href="#">client</a>	Merge pull request <a href="#">#1219</a> from cpuguy83/fixup_docstrings	17 days ago
 <a href="#">cmd</a>	Remove `Notary` from Repository constructor functions	a month ago
 <a href="#">cryptoservice</a>	Update vendoring and import for sirupsen/logrus	a month ago
 <a href="#">docs</a>	Fix broken image because center tags	5 months ago
 <a href="#">fixtures</a>	Add PKCS#8 support	3 months ago



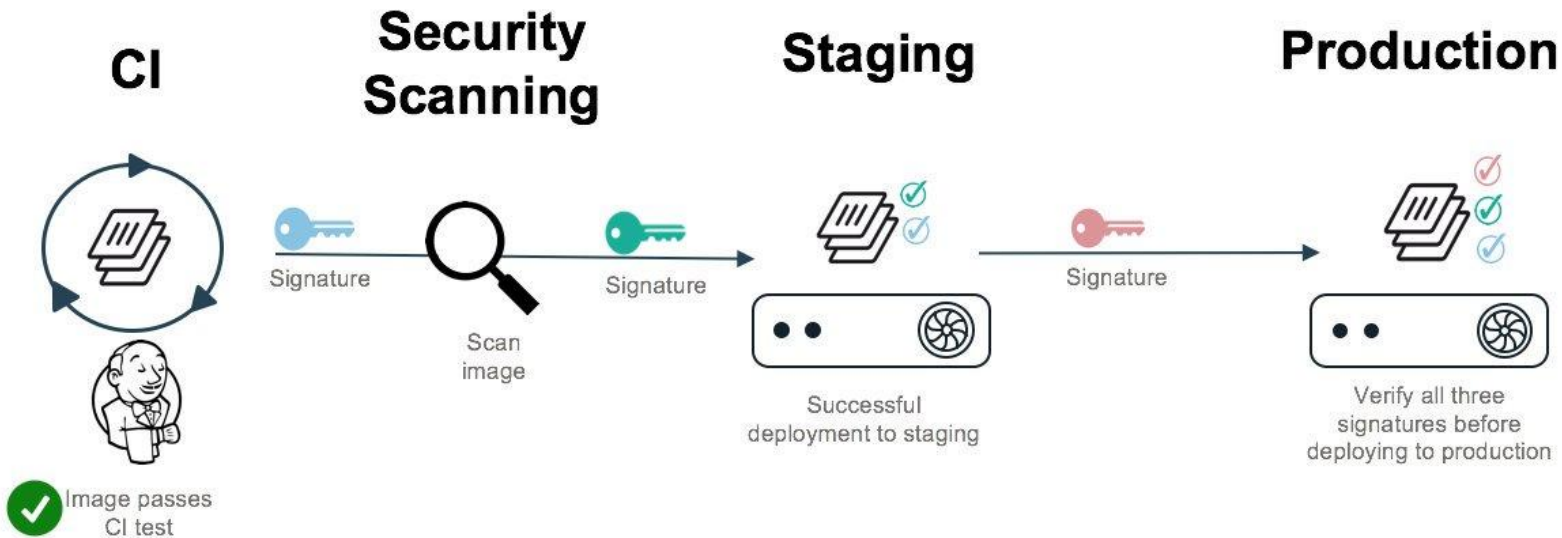




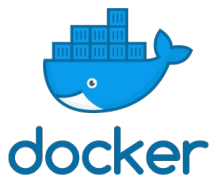
# Notary: Image Provenance



# Notary: Cryptographic Chain



# Notary Adopters



# Join us: TUF & Notary

- TUF Augmentation Proposals (TAPs)
- Notary: approaching 1.0

tuf



Watch

32



Star

620



Fork

80

notary



Watch

101



Star

941



Fork

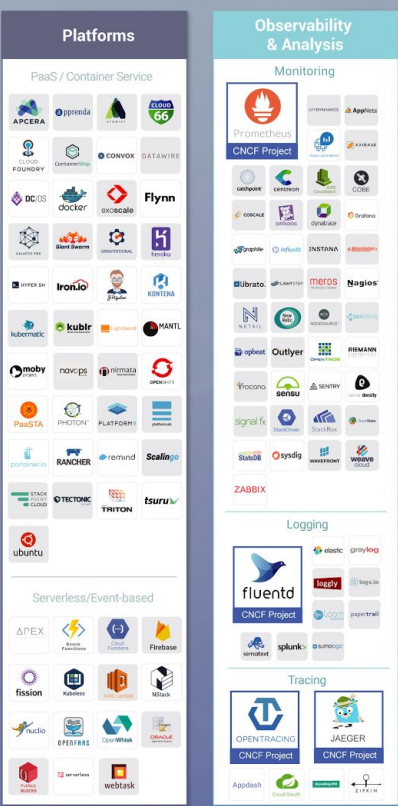
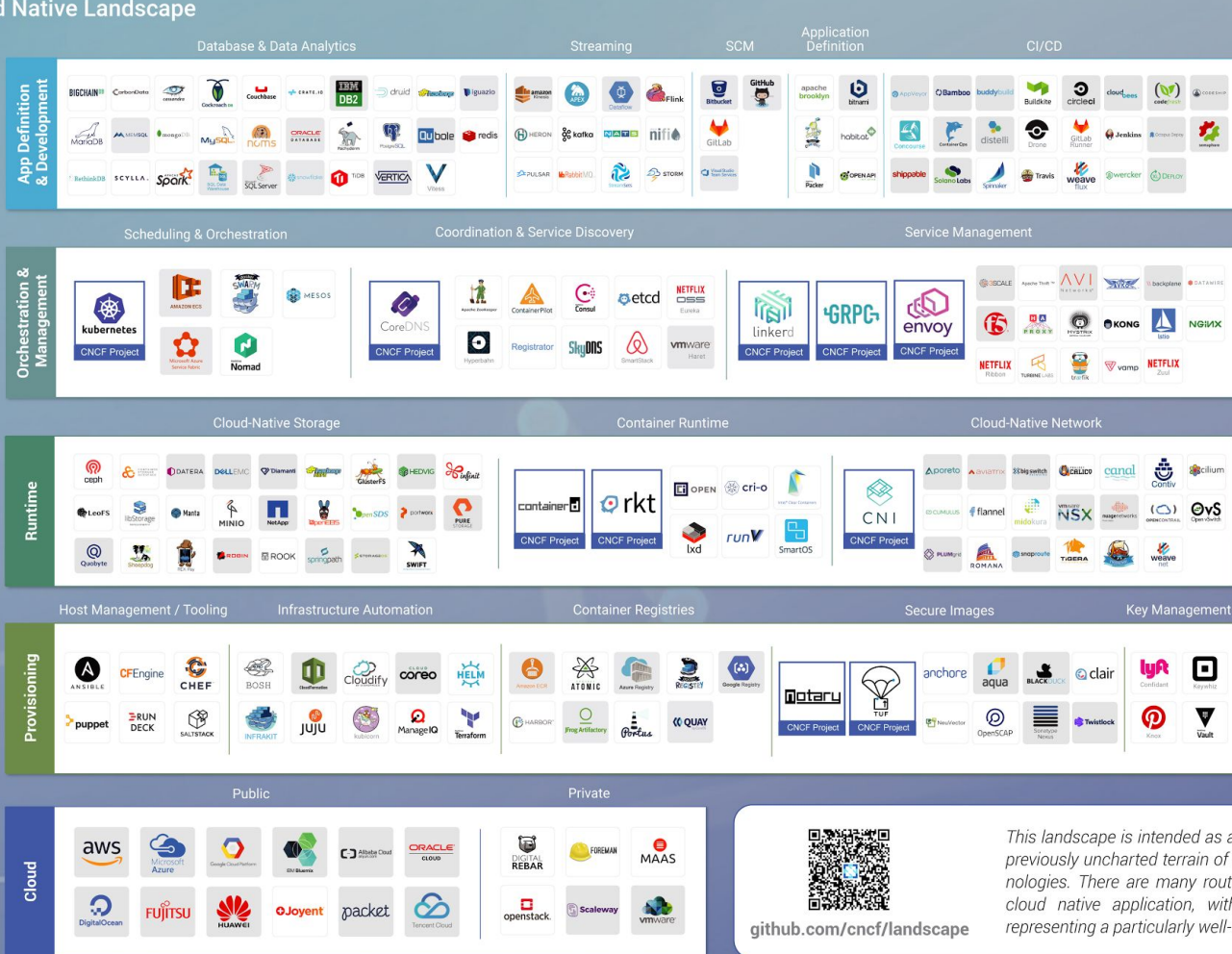
179

<https://github.com/theupdateframework>

<https://github.com/docker/notary>

# Cloud Native Landscape

v0.9.9



[github.com/cncf/landscape](https://github.com/cncf/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.

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COMPUTING FOUNDATION

**Redpoint** **Amplify**  
PARTNERS

Greyed logos are not open source

# Thank You and See You in Austin!

- **See you in Austin and Copenhagen!**
- KubeCon + CloudNativeCon North America 2017
  - Austin, Texas (December 6 - 8, 2017)
  - Registration & Sponsorships now open: [kubernetes.io](https://kubernetes.io/conference/na2017/)
- KubeCon + CloudNativeCon Europe 2018
  - Copenhagen, Denmark (May 2 - 4, 2018)
  - <http://events.linuxfoundation.org/events/kubecon-and-cloudnativecon-europe>