



KubeCon

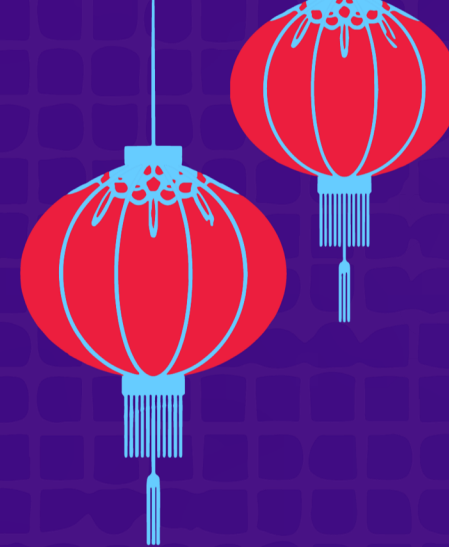


CloudNativeCon

OPEN SOURCE SUMMIT

China 2019





KubeCon



CloudNativeCon



OPEN SOURCE SUMMIT

China 2019

Harbor

Steven Zou (szou@vmware.com) / Core Maintainer
Wenkai Yin (yinw@vmware.com) / Maintainer

2019.06.25



Who we are?



KubeCon



CloudNativeCon



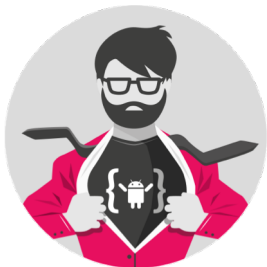
OPEN SOURCE SUMMIT

China 2019



Steven (Jia) Zou

- Core maintainer of open source project Harbor
- Staff engineer @ VMware R&D center
- Github ID: [steven-zou](#)
- DEV & Community



Wenkai Yin

- Maintainer of open source project Harbor
- Senior engineer @ VMware R&D center
- Github ID: [ywk253100](#)



Agenda



KubeCon



CloudNativeCon



OPEN SOURCE SUMMIT

China 2019

2



Highlights: V1.8

3



Next: V1.9

4



Roadmap

1

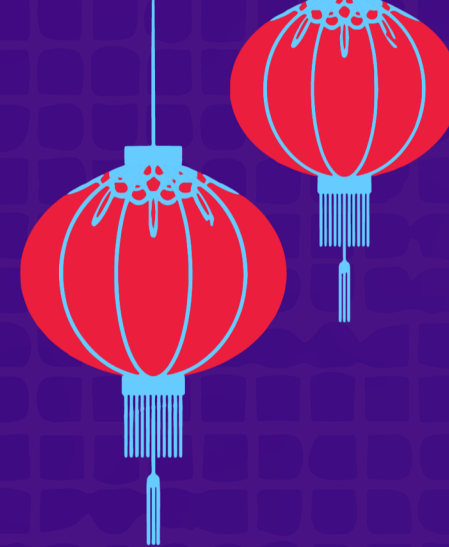
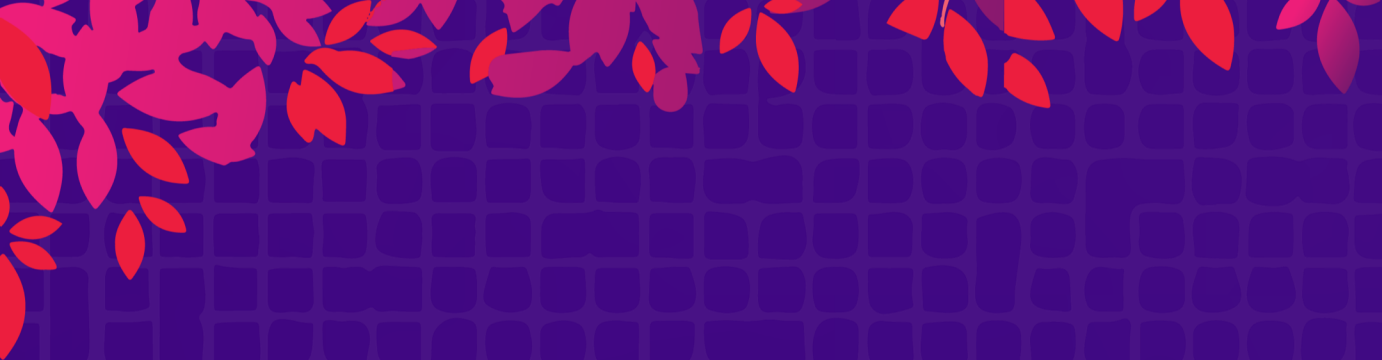


Harbor Overview

5



Community



KubeCon



CloudNativeCon



OPEN SOURCE SUMMIT

China 2019

Overview



Features



KubeCon



CloudNativeCon



OPEN SOURCE SUMMIT

China 2019

Fundamental



Image
Management



Chart
Management



Multi
Backend
Storages



Identity
Integrations



REST API



Multi
Consumers



Management
Portal



CLI
(Community)

Operation



Content
Replication



Online GC



Health Check



Robot
Account

Security



Vulnerability
Scanning
(Clair)



Content Trust
(Notary)



Namespace
Isolation



Distribution
Policy



Access
Control
(RBAC)



Access Log



Offline/Online
Installers



Harbor Chart

Deployment

Typical Serving Scenario



KubeCon

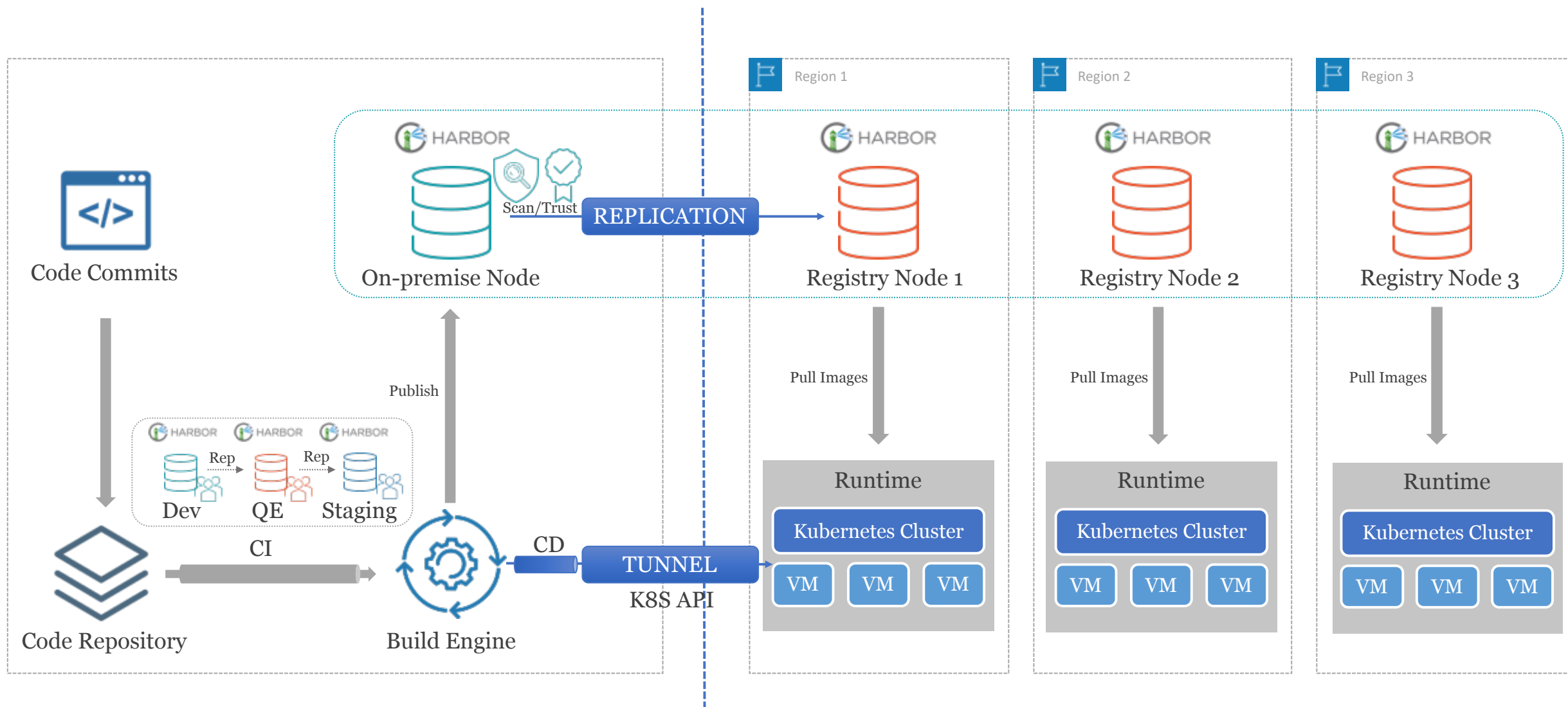


CloudNativeCon

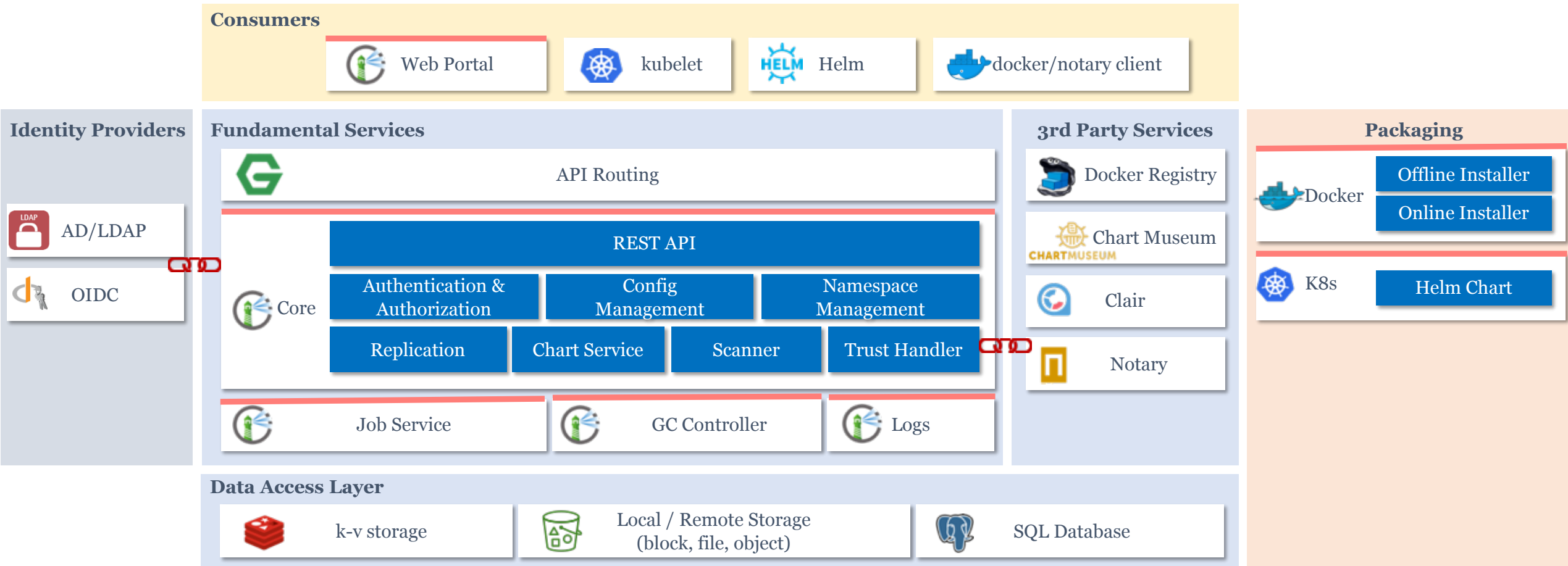


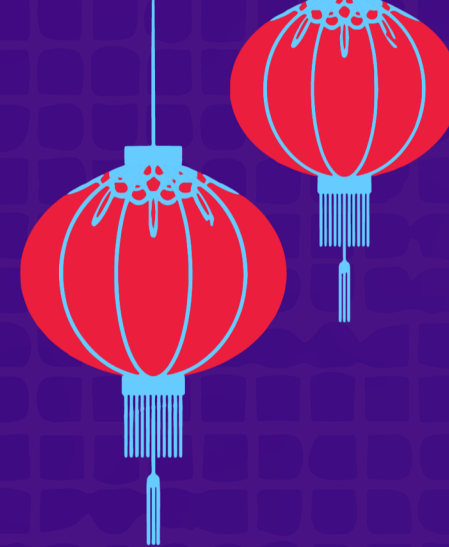
OPEN SOURCE SUMMIT

China 2019



Overall Architecture





KubeCon



CloudNativeCon



OPEN SOURCE SUMMIT

China 2019

Highlights in V1.8





Harbor V1.8.0 is GAed on May 21st
Announced at KubeCon Barcelona

Replication NG



KubeCon



CloudNativeCon



OPEN SOURCE SUMMIT

China 2019

Feature Enhancements

Design Refactor

>85% code rewrite



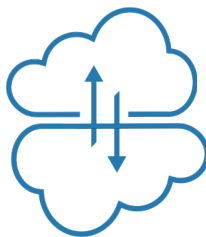
Policy Based



Image + Chart



Harbor<->Non-Harbor

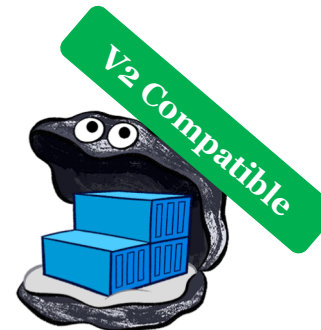


Pull/Push Mode

Drivers Supported



Docker Hub



Docker Distribution



Huawei Container Registry (SWR)

Drivers Supporting



ECR



GCR



ACR



Ali-ACR

OIDC



KubeCon



CloudNativeCon

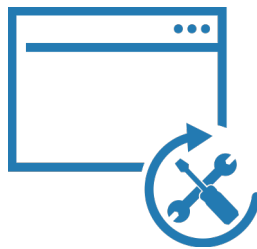


OPEN SOURCE SUMMIT

China 2019



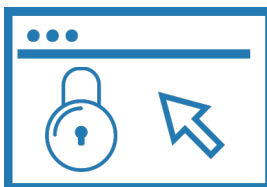
Open ID Spec



Configurable Providers



Web SSO



Docker CLI Secret

Verified Providers



Google Identity



Dexidp/dex



Ping Federate



More Providers In Future



Keycloak



Other OpenID
Compatible Providers

More New Features



KubeCon



CloudNativeCon



OPEN SOURCE SUMMIT

China 2019



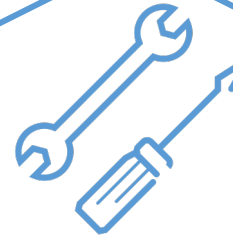
Robot Account

- Pull/Push perms
- Benefit for CI/CD



Health Check

- Health API provided
- Benefit for monitoring



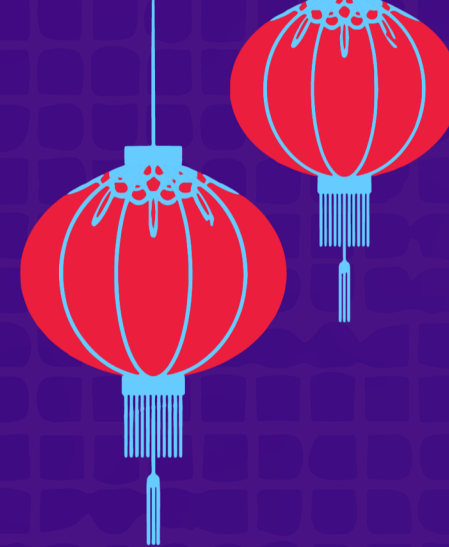
Deployment

- Refactor scripts
- Refactor config management



API Explorer

- Check API via portal
- Easy for debugging



KubeCon



CloudNativeCon



OPEN SOURCE SUMMIT

China 2019

Next: V1.9



V1.9 Release Plan



KubeCon



CloudNativeCon



OPEN SOURCE SUMMIT

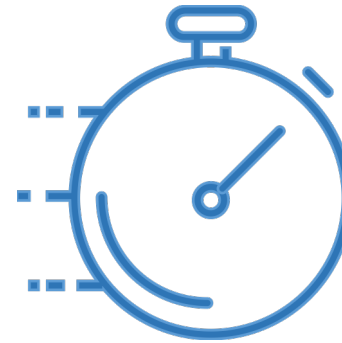
China 2019



Quota Per Project



Webhook

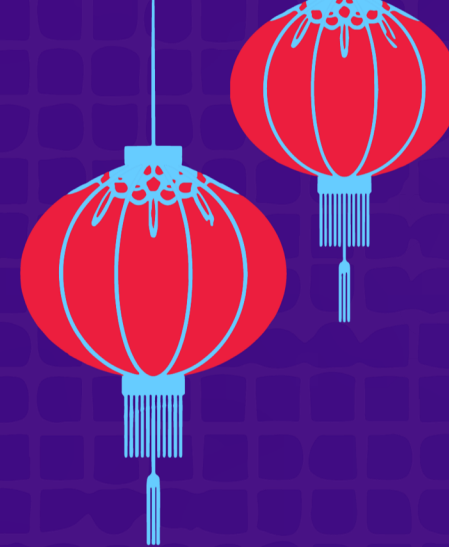


Retention Policy (TTL)



CVE Whitelist

V1.9 | FC: August 5th GA: August 28th | <https://github.com/orgs/goharbor/projects/1#column-5411972>



KubeCon



CloudNativeCon



OPEN SOURCE SUMMIT

China 2019

Roadmap



Roadmap



KubeCon



CloudNativeCon



OPEN SOURCE SUMMIT

China 2019

Management



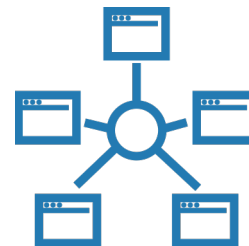
Kubernetes Operator



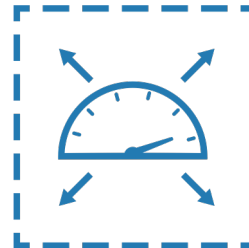
Quotas



Advanced
Access Control



Logging Endpoint



Perf & Scale

Extensibility



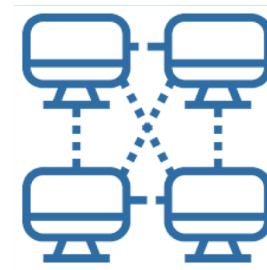
High Availability



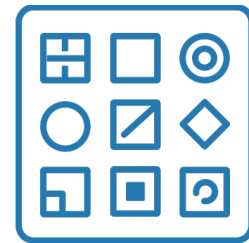
Interrogation Service



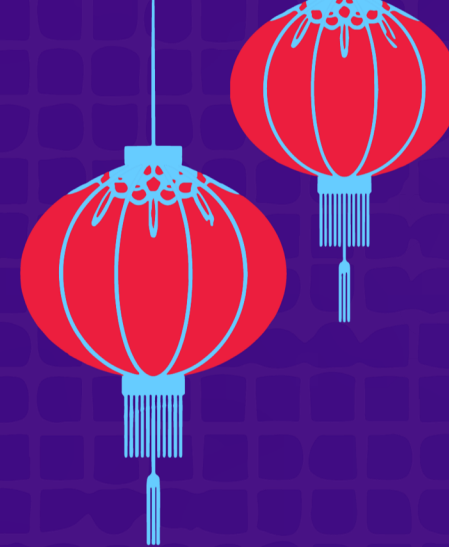
Proxy Cache



P2P Distribution



Repository Beyond
image/Helm



KubeCon



CloudNativeCon



OPEN SOURCE SUMMIT

China 2019

Community





8100+

We're trying to build an **open, fair, transparent** and **self-government** community

Global Contributions



14 Maintainers

5 Companies



126 Contributors

65+ Companies

36+ Countries



Canada



USA



Nicaragua



Brazil



UK



France



Spain



Sweden



Germany



Italy



Belarus



Ukraine



South Africa



Russia



China



India



Vietnam



Singapore



Korea



Japan



Australia



New Zealand

Levels of Participation



KubeCon



CloudNativeCon



OPEN SOURCE SUMMIT

China 2019



End User



GitHub
Issues



Experiences
Sharing



Community
Meetings



Contributor



1st Commit



Proposal



Fix Bugs



Community
Meetings



Maintainer

Governance Model



Commits



Reviews



Release Plans



Presentations



Host Meetings

Workgroups



KubeCon



CloudNativeCon



OPEN SOURCE SUMMIT

China 2019



Replication



Scanning



Notification



LCM



P2P

More ways to get involved



KubeCon



CloudNativeCon



OPEN SOURCE SUMMIT

China 2019



- harbor-users@lists.cncf.io
- harbor-dev@lists.cncf.io



- slack.cncf.io
- #harbor
- #harbor-dev



@project_harbor



<https://demo.goharbor.io>

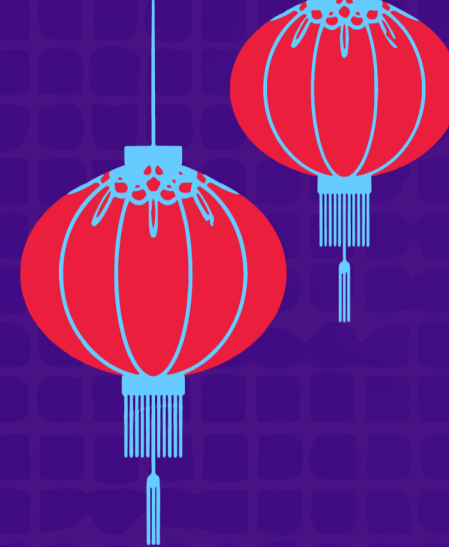


https://github.com/goharbor/community/blob/master/MEETING_SCHEDULE.md

- *Bi-weekly*
- *APAC+EU zone: 9pm UTC+8 time zone*
- *America+EU zone: 1pm Pacific time zone*



Thank you very much!



KubeCon



CloudNativeCon



OPEN SOURCE SUMMIT

China 2019



Q&A

