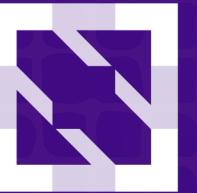




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# Harbor

Steven Zou ([szou@vmware.com](mailto:szou@vmware.com)) / Core Maintainer  
Wenkai Yin ([yinw@vmware.com](mailto:yinw@vmware.com)) / Maintainer

2019.06.25

# Who we are?



## 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



Highlights: V1.8



Next: V1.9



Roadmap



Harbor Overview



Community



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# Overview

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# Features

## Fundamental

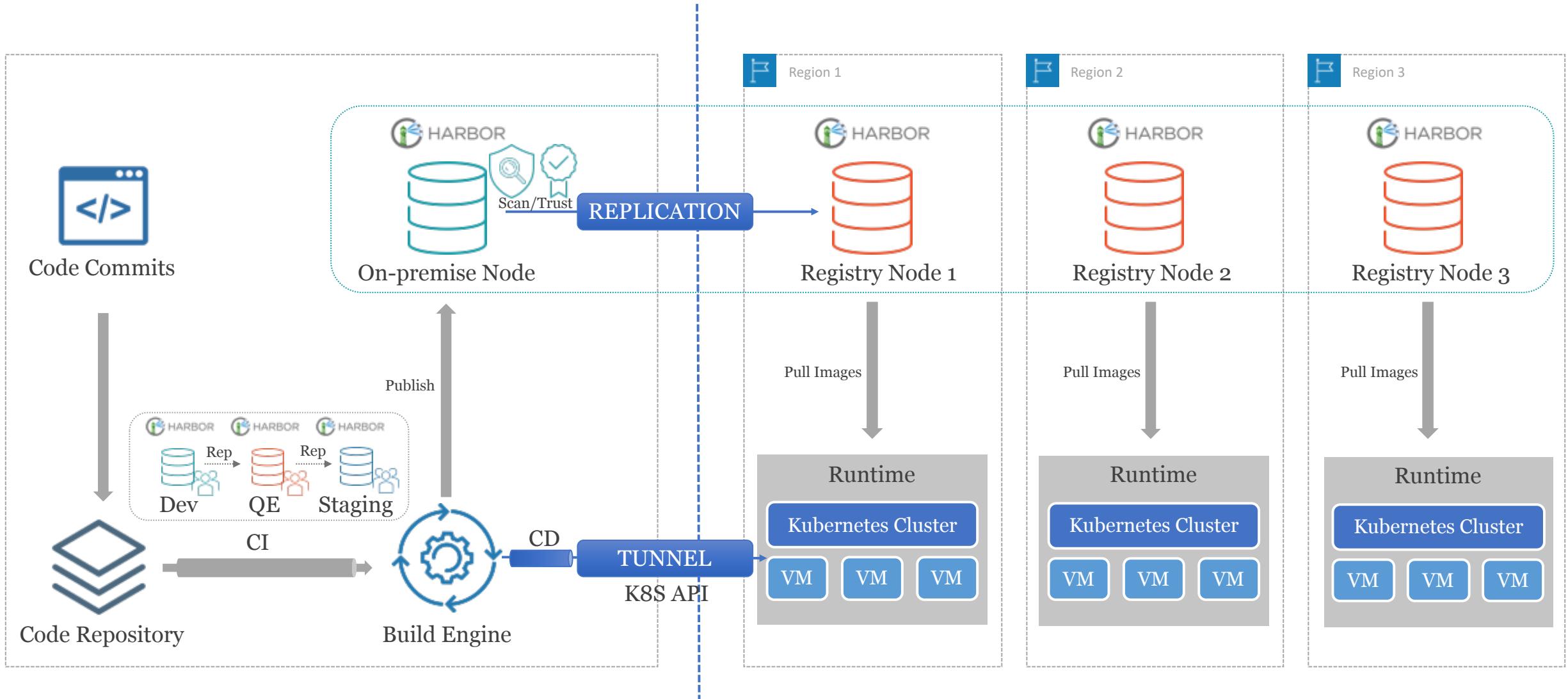
   Multi Backend Storages	   Image Management	   Chart Management						
   Identity Integrations		   REST API						
   Multi Consumers	   Management Portal	   CLI (Community)						
			   Content Replication		   Online GC			
			   Health Check		   Robot Account			
	   Vulnerability Scanning (Clair)	   Content Trust (Notary)						
	   Namespace Isolation	   Distribution Policy						
	   Access Control (RBAC)	   Access Log						
			   Offline/Online Installers		   Harbor Chart			

## Security

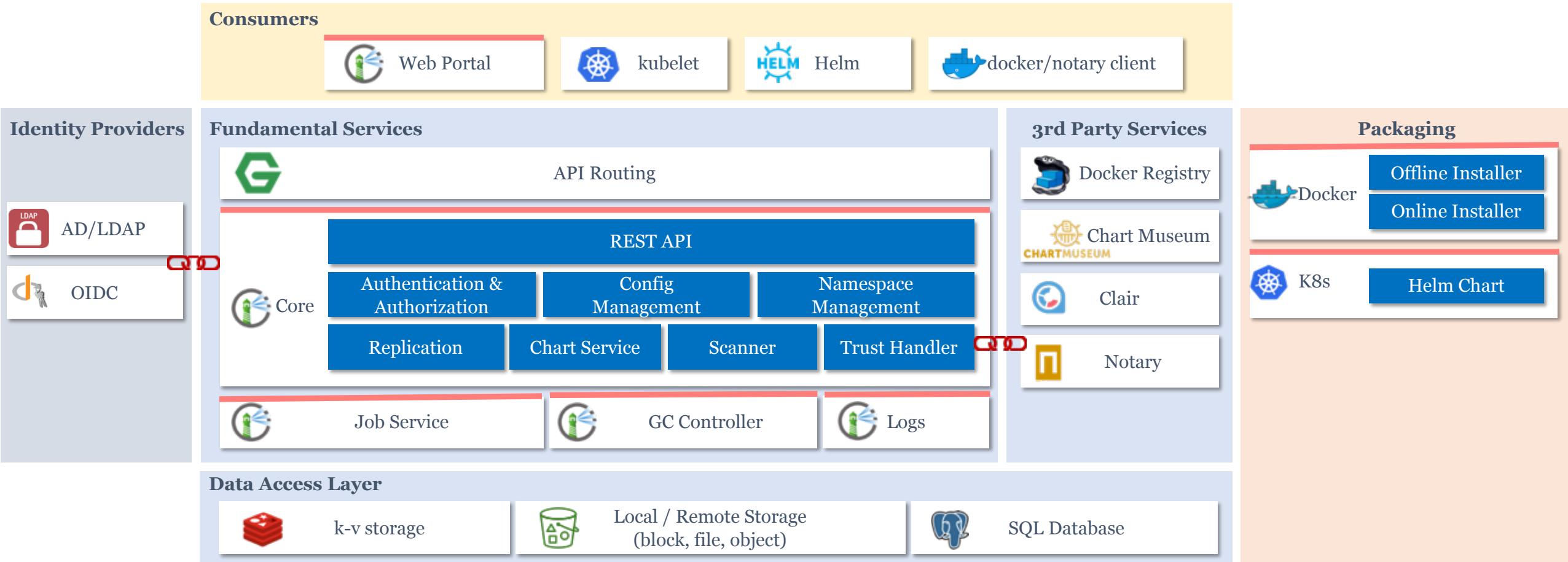
## Operation

## Deployment

# Typical Serving Scenario



# Overall Architecture





# Highlights in V1.8



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**Harbor V1.8.0 is GAed on May 21<sup>st</sup>**  
Announced at KubeCon Barcelona

# Replication NG

## Feature Enhancements



Policy Based



Harbor<->Non-Harbor

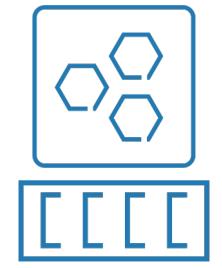
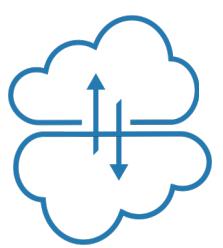
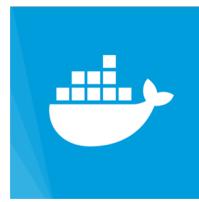


Image + Chart

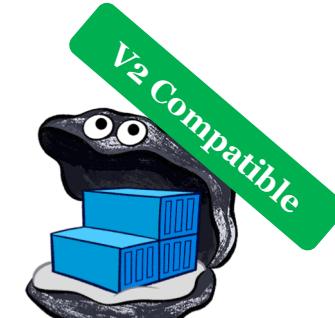


Pull/Push Mode

## Drivers Supported



Docker Hub



Docker Distribution



Huawei Container Registry (SWR)

## Drivers Supporting



ECR



GCR



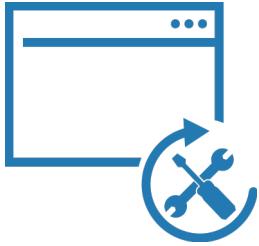
ACR



Ali-ACR



Open ID Spec



Configurable Providers



Web SSO



Docker CLI Secret



Google Identity



Dexidp/dex



Ping Fedrate

## Verified Providers



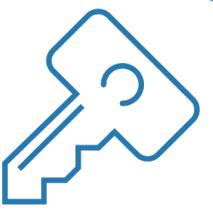
Keycloak



Other OpenID Compatible Providers

## More Providers In Future

# More New Features



## 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



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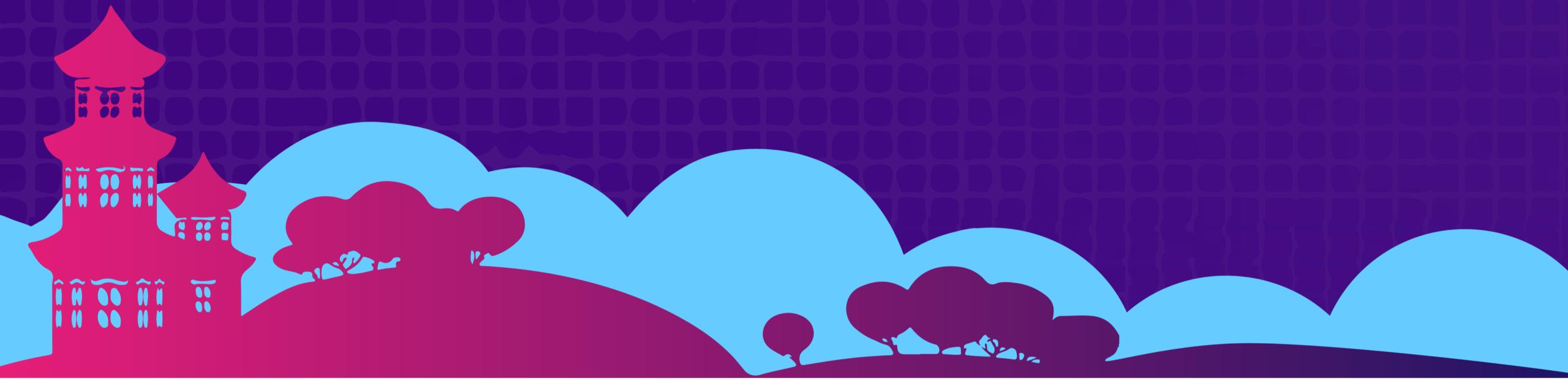
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# Next: V1.9

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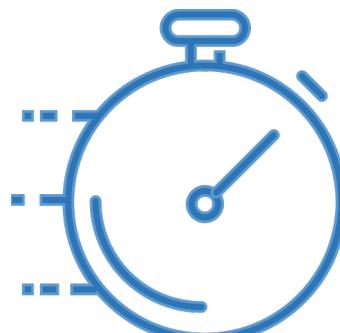
# V1.9 Release Plan



Quota Per Project



Webhook



Retention Policy (TTL)



CVE Whitelist



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# Roadmap

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# Roadmap

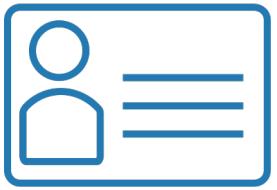
## Management



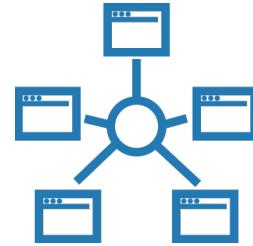
Kubernetes Operator



Quotas



Advanced Access Control



Logging Endpoint



Perf & Scale

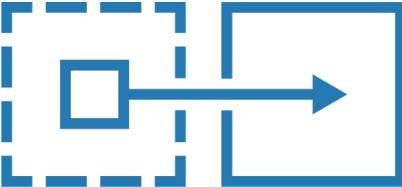
## Extensibility



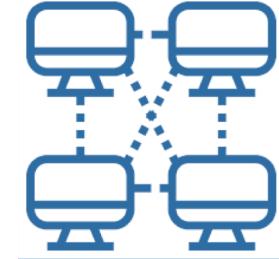
High Availability



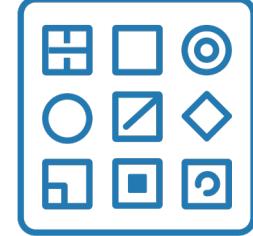
Interrogation Service



Proxy Cache



P2P Distribution



Repository Beyond image/Helm



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# Community



HARBOR



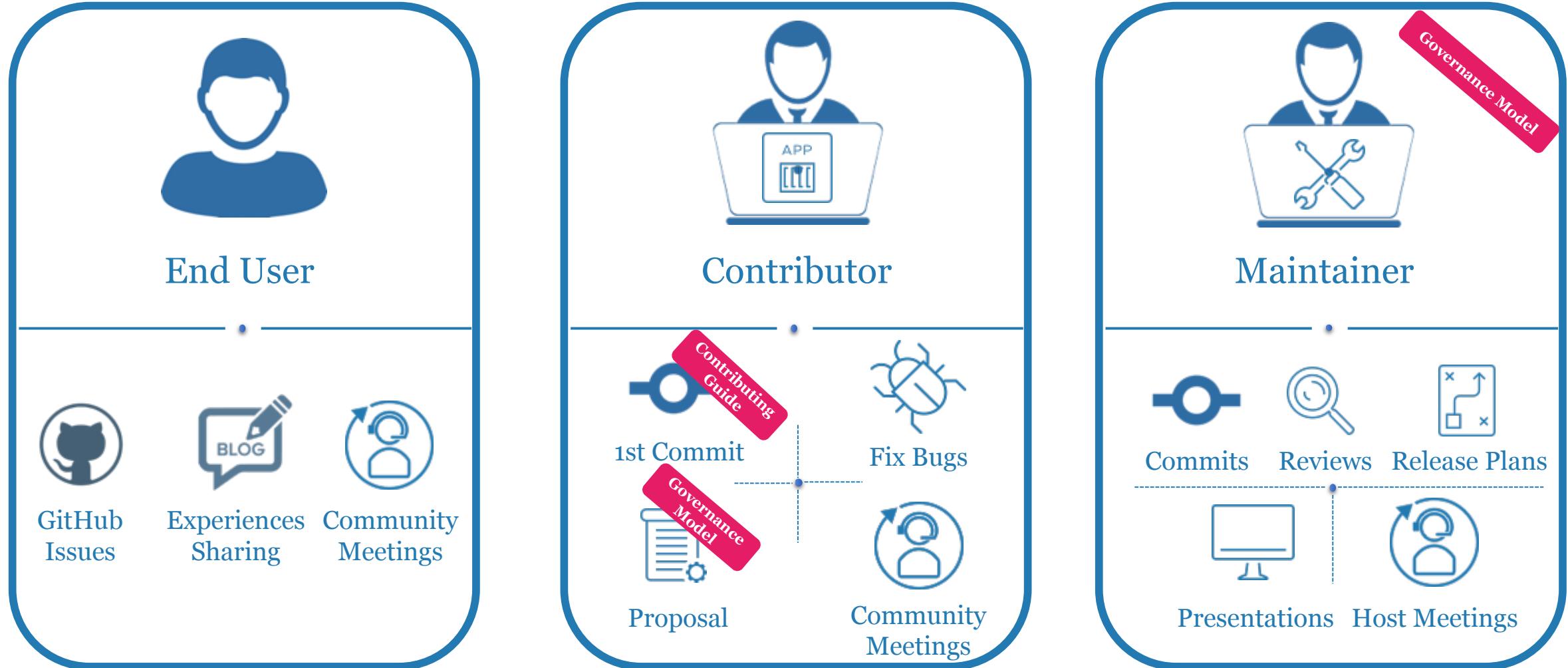
8100+

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

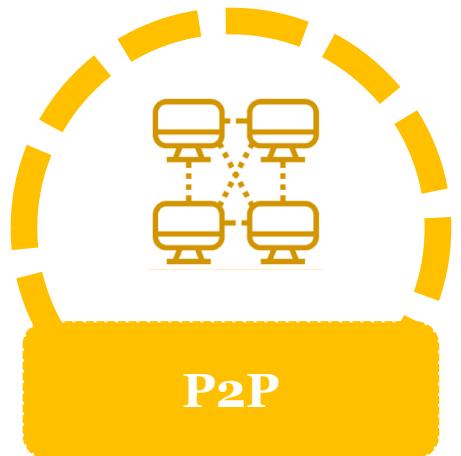
# Global Contributions



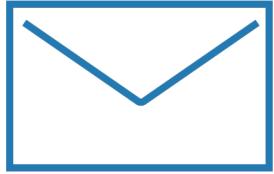
# Levels of Participation



# Workgroups



# More ways to get involved



- [harbor-users@lists.cncf.io](mailto:harbor-users@lists.cncf.io)
- [harbor-dev@lists.cncf.io](mailto:harbor-dev@lists.cncf.io)



- [slack.cncf.io](https://slack.cncf.io)
- [#harbor](#)
- [#harbor-dev](#)



[@project\\_harbor](#)



<https://demo.goharbor.io>



[https://github.com/goharbor/community/blob/master/MEETING\\_SCHEDULE.md](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!



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