

FOSDEM '22 Orlin Vasilev



# whoami

- Orlin Vasilev aka Orlix
- Father of two
- CNCF Ambassador
- SysAdmin/Developer/DevOps/SRE
- DIY person
- Community Manager for Harbor (@VMware)





# **Agenda**

Intro to Harbor 101

Demo - install and configure

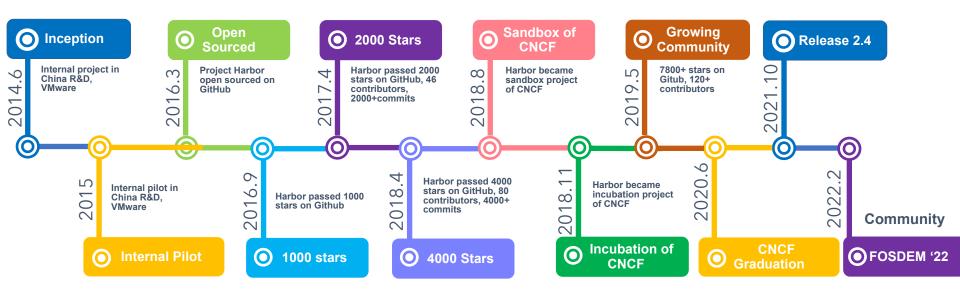
Community



## Harbor 101

- Harbor is an open source registry, currently the only CNCF Graduated project in the Container Registry category!
- Mission: to be the trusted cloud native registry that stores, signs, and scans content. The mission is to provide cloud native environments the ability to confidently manage and serve container images and related artefacts.
- Started as VMware internal project back in 2014, open sourced in 2016, donated to CNCF in 2018, and Graduated in 2020

## **Harbor Timeline**

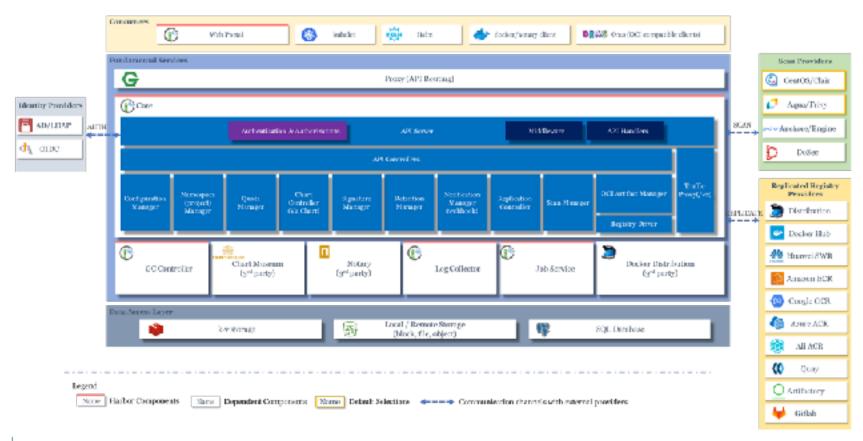




# So why Harbor?

- Community and community support
- Free and OpenSource supported by CNCF
- CNCF Graduated well adopted and great maturity level
- Self Hosted! (many are providing it as a Service)
- Self deployment can bring great benefits for corporations and compliance(SOC/SOC2/FedRamp etc...)

## **Architecture**



# **Key features**



#### **Access Control**

- RBAC
- AD/LDAP integration
- OIDC
- Robot account



#### Replication

- Multiple filters
- Flexible scheduling
- Heterogeneous registries
- Helm Chart replication



#### **Vulnerability Scanning**

- Flexible scanning policies
- Elaborated scanning



#### **Content Trust**

- Digital signature
- Provenance of images



#### **Helm Chart Mgmt**

- Helm Chart repository
- Same user experiences as image management



#### **Web Portal**

- Ease of use
- Batch operations



#### **Restful API**

- API for integration
- Nested Swagger UI



#### **Multi Deployments**

- **Docker Compose**
- Helm Chart
- BOSH

# <u>DEMO</u>

Local Install - create project and user
Push image
Scan image and inspect image

Setup Replication



## What's new in 2.4

### Distributed tracing

Add tracing capabilities to Harbor for enhanced troubleshooting, identifying performance bottlenecks etc.

#### Additional Features

- Support Harbor instances replication with Robot Account, more details see the guide.
- Support Stop All and single scan job.
- Support exclusions and rate limit to Replication Rules.
- Enable OIDC auth based user deletion.
- Schedule synchronise from DB to Redis.
- Harbor is now built using Golang v1.17.2 as of this release.
- Bump up Trivy 0.20 which adds support for go.sum scanning.



# COMMUNITY JOIN US!



# Community



Stars

16K+



**Forks** 

4000+



Commits

11K



Contributors

200+



Members

**2500** 



**Maintainers** 

14



# Contributors & Maintainers

















China





India



Singapore





**200+** Contributors **65+** Companies

**14** Maintainers

**36+** Countries

## **Users of Harbor**







































## **Partners of Harbor**

























**vm**ware



# JOIN US!

Web: goharbor.io

Github: github.com/goharbor

Slack: slack.cncf.io (#harbor and #harbor-dev)

Twitter: <a>@project\_harbor</a>

By-weekly Community Meetings: https://zoom.us/j/734959521

Email groups:

<u>lists.cncf.io/g/harbor-users</u> <u>lists.cncf.io/g/harbor-dev</u>



# Really Join us!:) Tech Docs Working Group on it's way!

Harbor Technical Documentation Working Group

Great way to start your open source and CNCF Journey

Full support of the team to get you set up and ready to create your first PR

MAKE SHURE YOU SIGN UP: <u>lists.cncf.io/g/harbor-users</u>



## Get in touch

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Slack(CNCF, Kubernetes): Orlix

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