Orlin Vasilev

Harbor Community Manager

CNCF Ambassador

Principal OSS Technology Advocate @SUSE

Vadim Bauer

Harbor Maintainer

Founder - 8gears Container Registry

Harbor is a CNCF-graduated open-source container registry to store and manage container images and other OCI artifacts securely with policies, role-based access control, vulnerability analytics and signing.

- Access Control
    - RBAC, Project Isolation
- Artifact Distribution
    - Replication, Proxy Cache, P2P Preheat
- Security & Compliance
    - Vulnerability Scan, Artifact Signature, CVE Export, Security Hub
- Policy & Maintainability
    - Quota, Immutability, Retention, Garbage Collection, Log Rotation
- Extensibility
    - OIDC/LDAP Authentication, Webhook, Pluggable Scanner, Robot Account

1. **Works for small Teams and Enterprises**

    a. RBAC

    b. IDP and SSO - External identity provider for authentication and authorization

2. **Makes CISOs happy**

    a. All your images in one place – Replication, Proxying

    b. Vulnerability overview, audit trails

3. **Ops people's darling**

    a. Automation & IaC – RESTful API, Terraform, Pulumi, CLI

    b. Operational control mechanisms – GC, Quota, Policies

- 🚀🚀🚀🚀**Released November 8th, 2024**🚀🚀🚀🚀

- Bandwidth Limit for Proxy-Cache Limits

- Improving SBOM Capabilities

- Audit Logging for Robot accounts

- Full access Robot Account

- Bug Fixes and Improvements

Harbor Operator

goharbor/harbor-operator

- For deploying and managing the Harbor service stack
- Uncertain Feature for the Harbor Operator
- Currently Outdated
- The Operator is looking for additional Maintainers
- Connect with us if you are using the Operator

Harbor CLI

goharbor/harbor-cli

- Official Harbor CLI

- Interact with Harbor on your terminal and in your CI/CD

- For scripting and piping

- Soon available via your favorite Package Management System

- Build by LFX Mentorship program manatees

Harbor Satellite is a containerized artifact distribution and management solution for the edge, ensuring consistent, available, and integrity-checked artifacts in edge computing environments at scale

Bring container images closer to workloads

- Multiple sites and locations EDGE/IOT/K8s
- Environment without permanent connectivity
  - E.g. Remote Locations, Ships, Satellites, Firewalls
- High availability of artifacts close to workloads
- Highly isolated sites
  - Restricted ingress/egress data flow
- Global image distribution
  - Container Image CDN
- Immediate application updates across all sites

Harbor Satellite

Harbor Satellite - How it Works
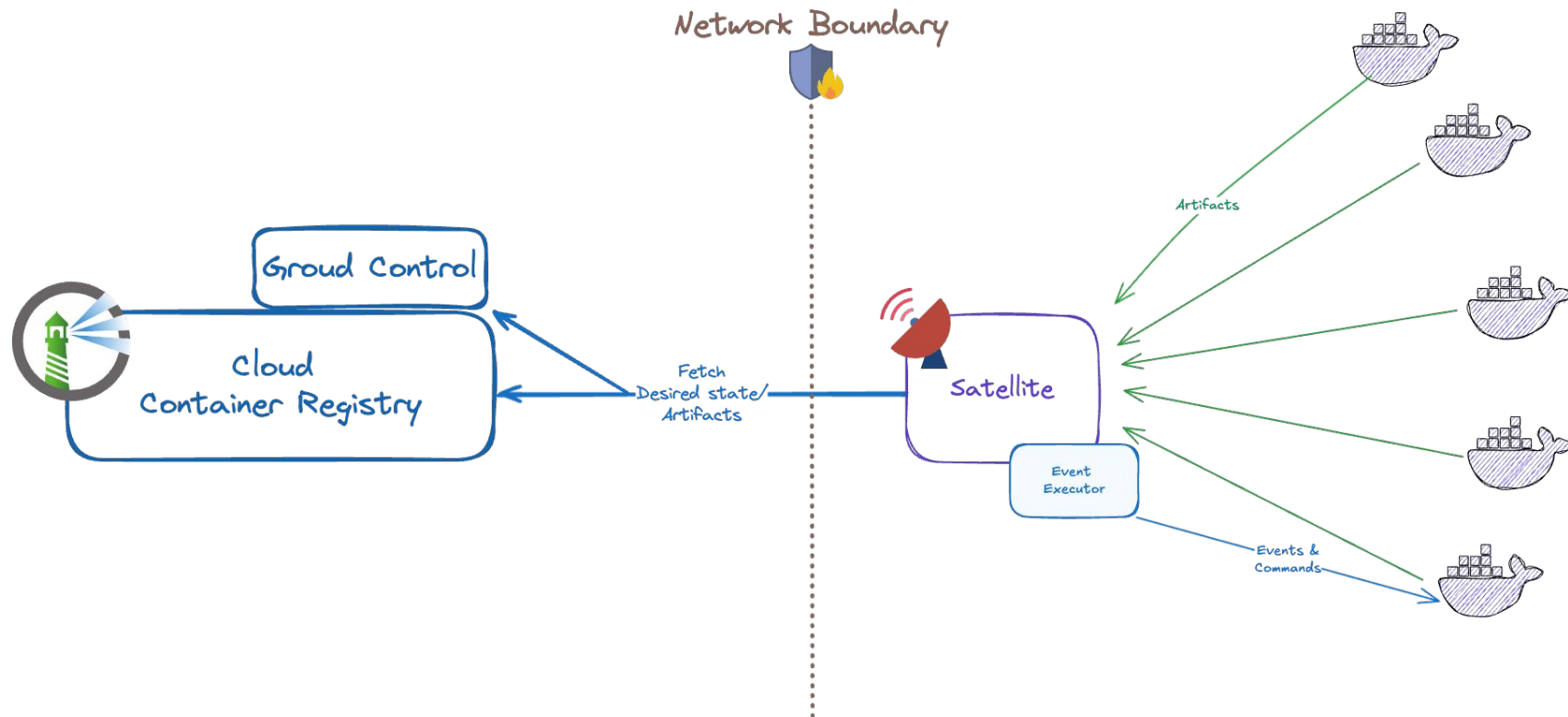
Satellite acts as Gateway or Proxy for containerized software per site

- Software for site is orchestrated remotely with policies and rules
- Desired artifacts are synced to site to match desired state
- Satellite event system can initiate downstream actions e.g. deployments
- Designed to run on edge devices.(e.g. single process, unattended mode)
- Head over to container-registry/harbor-satellite (temp)

Harbor for AI Models

- People are already using OCI and Harbor to store and distribute AI models
- OCI is "almost" perfect for AI in Cloud Native
  - Mount OCI Images as volumes (k8s 1.31)
  - Large size
  - Standardization
- The Harbor team with other organizations are working on making AI Model first class citizens for Cloud native environments

Harbor for AI Models

Managing and Distributing AI Models Using OCI Standards and Harbor - Steven Zou & Steven Ren, VMware by Broadcom
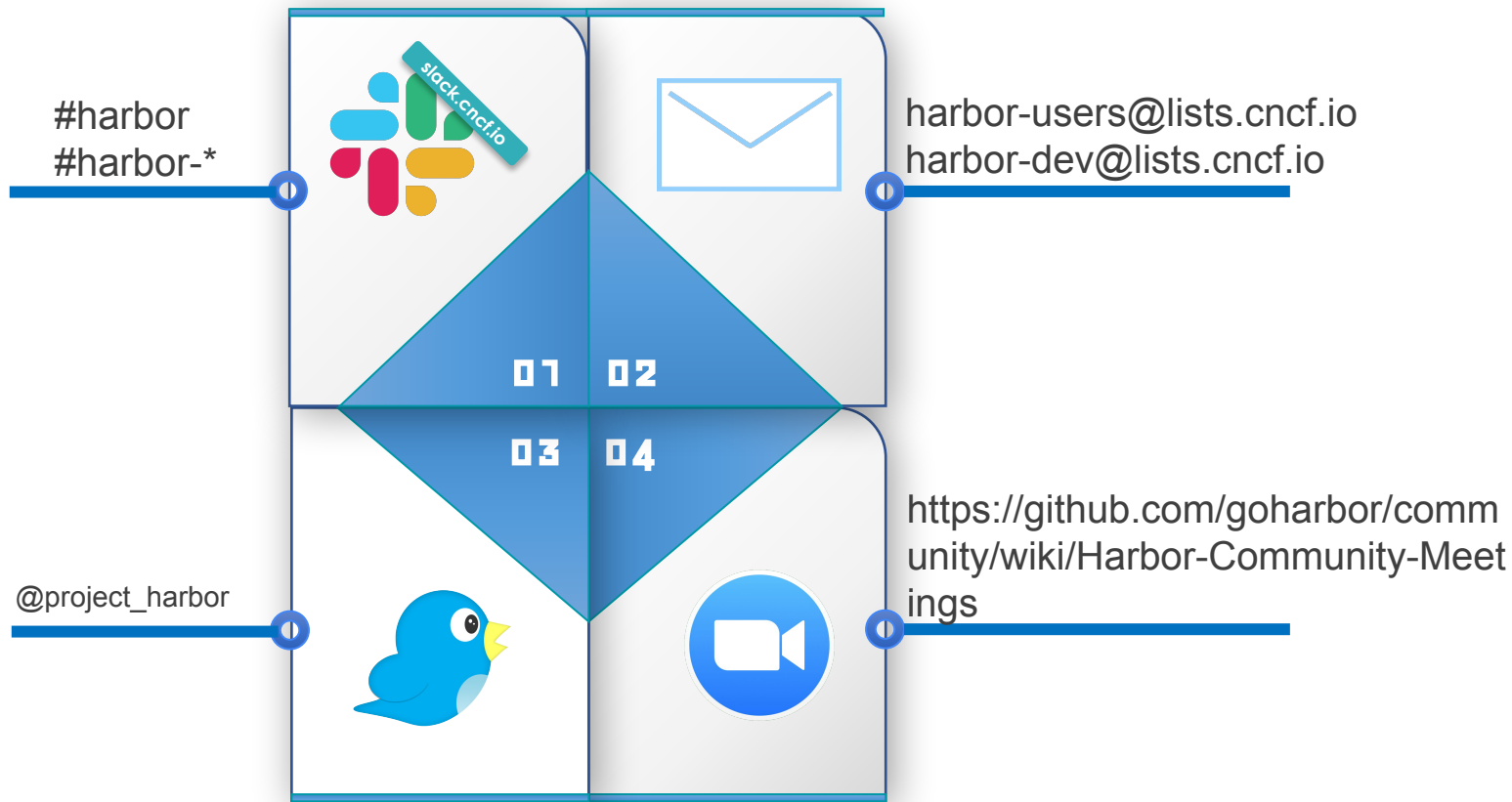
Click here to add to My Schedule.

📅 Thursday November 14, 2024 5:25pm - 6:00pm MST

📍 Salt Palace | Level 2 | 255 E

- General Feature discussion -

  https://github.com/goharbor/harbor/discussions/21054

- Improving Audit logs

  - More granularity

  - Performance

- AI Model Spec Collaboration

Features 2.13

Community

#harbor
#harbor-*

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

@project_harbor

https://github.com/goharbor/community/wiki/Harbor-Community-Meetings

9 years and counting

Star History

goharbor/harbor

Nov 06, 2024
goharbor/harbor: 24088

Oct 27, 2023
goharbor/harbor: 20820

GitHub Stars

20.0k
15.0k
10.0k
5.0k

Date

2018   2020   2022   2024

star-history.com
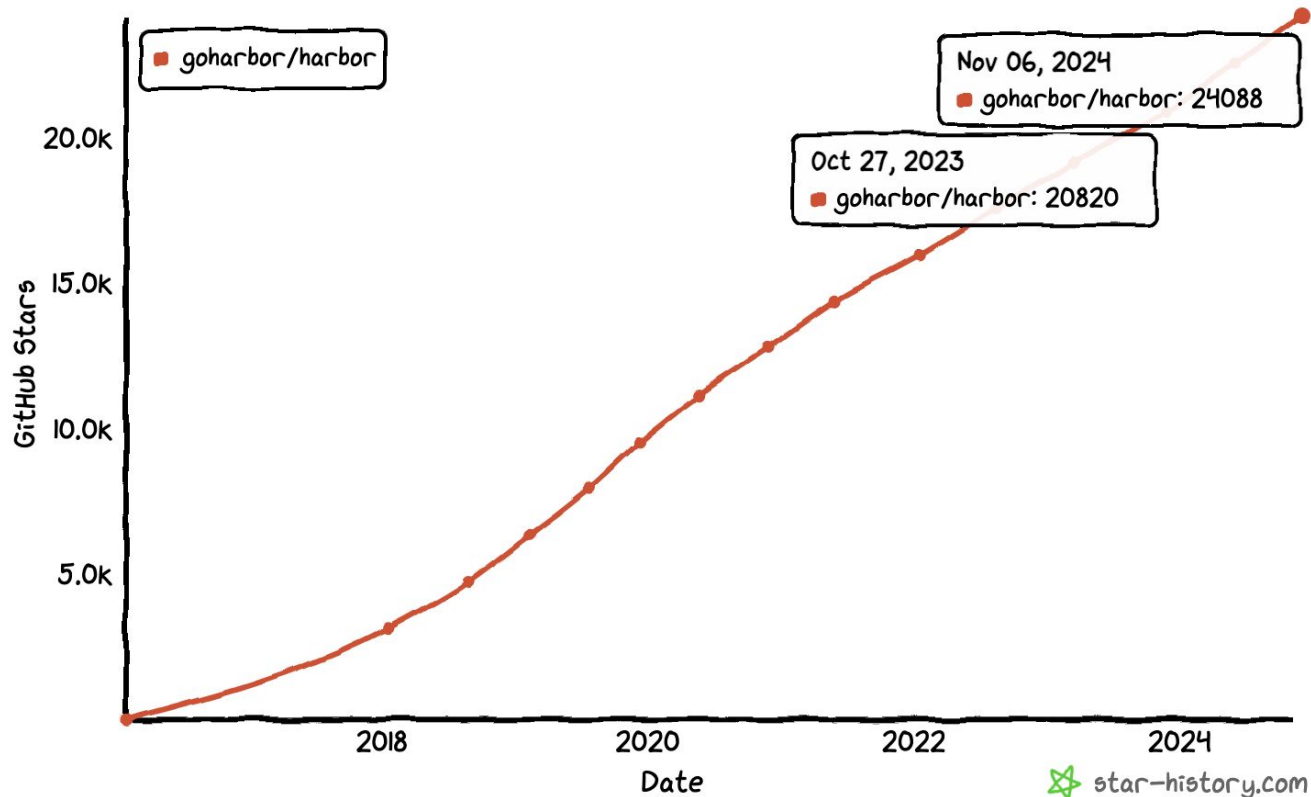
Contribute

UI/UX engineers - Angular/NodeJS

Project Management/Release Managers

Harbor Operator contributors/maintainers

Ask questions, get help!

- Slack
- Mailing list
- Community Meetings

Chat with us at KubeCon:

- Maintainers track
- Project Pavilion

9A - PM shift

JOIN US