



#### Governance process

- Linux Foundation's charter
  - https://wiki.lfedge.org/display/EVE/Community
- We answer to the LF Edge board of directors
- Down on the ground, "The Apache Way" principles apply
  - Technical Steering Committee (TSC) does day-to-day governance
  - Code gets merged by maintainers
  - https://github.com/lf-edge/eve/blob/master/CONTRIBUTING.md
- Community dashboards
  - <a href="https://insights.lfx.linuxfoundation.org/projects/lfedge%2Fproject-eve/dashboard">https://insights.lfx.linuxfoundation.org/projects/lfedge%2Fproject-eve/dashboard</a>





#### Where are the bits?

- Development/collaboration is on GitHub under LF Edge: <a href="mailto:github.com/lf-edge">github.com/lf-edge</a>
  - Project EVE main codebase is at <a href="https://github.com/lf-edge/eve">https://github.com/lf-edge/eve</a>
  - Adam reference implementation of a controller https://github.com/lf-edge/adam
  - Eden developer tooling, tests <a href="https://github.com/lf-edge/eden">https://github.com/lf-edge/eden</a>
- Binary artifacts (including user-facing) are on DockerHub under LF Edge
  - The final user-facing container image at <a href="https://hub.docker.com/r/lfedge/eve">https://hub.docker.com/r/lfedge/eve</a>
- Collaboration
  - https://projecteve.dev
  - Mailing lists, slack channels, LF Edge wiki





### Development process

- Remember LF Edge wiki at <a href="https://wiki.lfedge.org/display/EVE/EVE">https://wiki.lfedge.org/display/EVE/EVE</a>
  - Significant architecture proposals. E.g.
    <a href="https://wiki.lfedge.org/display/EVE/Next+generation+storage+architecture">https://wiki.lfedge.org/display/EVE/Next+generation+storage+architecture</a>
  - EVE hardware compatibility list https://wiki.lfedge.org/display/EVE/EVE+in+the+Market
- Mailing list
  - eve-tsc@lists.lfedge.org
- Slack channels (channel names start with #eve-)
  - https://lfedge.slack.com/
- GitHub PRs
  - https://github.com/lf-edge/eve/pulls





# CI/CD pipeline

- Almost exclusively built around GitHub Actions
  - https://github.com/lf-edge/eve/actions
- Every PR has a number of "checks" run against it (on both ARM and x86)
  - This is where Eden tests kick-in
- Test infrastructure
  - GitHub Actions VMs
  - Google Compute Platform (GCP) VMs with support for nested virtualization
  - 22 hardware configurations on Packet.net (nowadays Equinix Metal)
    - Dell, HP, Supermicro
    - Huawei, Foxcon
  - ZEDEDA's own hardware lab





# Major upstream dependencies

- Alpine Linux
  - currently 3.13.2, bespoke Linux distribution bits
- linuxkit
  - basis for Linux distro assembly, init system
- Linux kernel
- Xen
- Qemu





#### Project Structure

- api/ EVE <-> controller API specs (proto) and implementations (Go, python)
- build-tools/ linuxkit &co
- docs/ pretty extensive documentation
- images/ linuxkit-based, .yml image definitions
- conf/ initial configuration that is baked into an installer image
- pkg/ where all the code lives
- boards/ BSP bits (mostly for ARM)
- .folders/ mostly for CI/CD systems
  - .github,.circleci,.yetus

