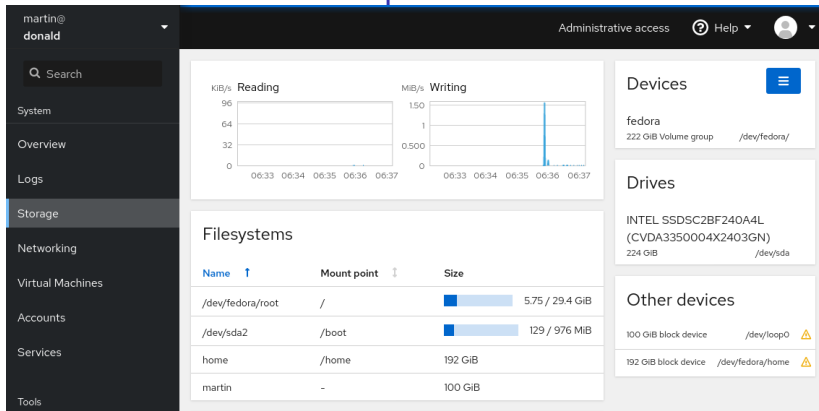


# Cockpit Infrastructure

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# Cockpit Team



- Interactive Server admin web interface
- Included in all major distros, uses over 100 OS APIs
- 7 team members
- Automated tests, releases, npm/translation updates, VM/container image refreshes

# Our Automation Principles



Containerize everything → simple and safe to run locally

No magic infrastructure → reproducible, cloud portability

Automated deployment → scalable, recoverable, ~~bus factor 1~~

## Which infrastructure exactly?

- GitHub workflows for all non-KVM tasks
- CentOS CI: Kubernetes ReplicationController
- bos.e2e: systemd-controlled docker
- AWS: on-demand c5.metal instance, \$\$\$, systemd podman

## Event flow for releases

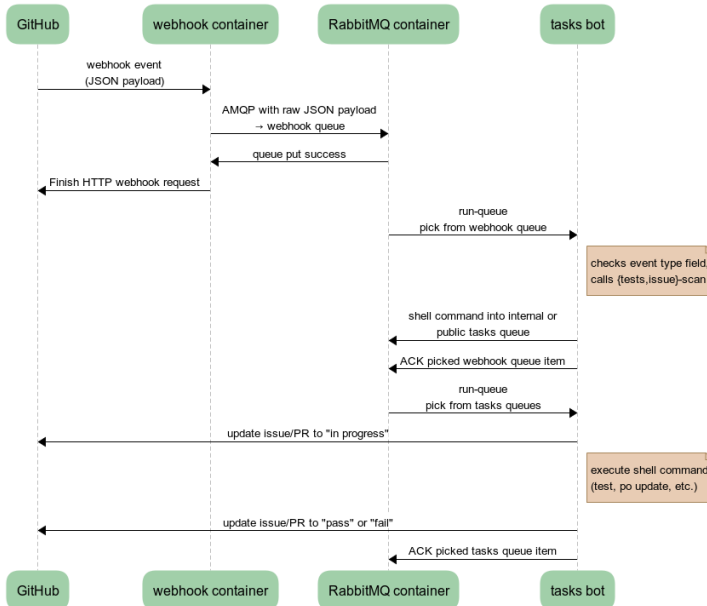
```
$ git tag -s -m '123
```

```
- cool new feature A  
- fix heisenberg compensator on Fedora (rhbz#1234)  
,
```

→ [.github/workflows/release.yml](#) runs release container

→ GitHub release, Fedora dist-git+koji+bodhi, COPR, DockerHub, docs on cockpit home page

# Event flow for tests



## Strong aspects of our CI

- reproducible, portable
- platform agnostic work queue
- deployment only through Ansible
- fully automated releases
- separate changes in our code from changes in OSes

## Weak aspects/challenges of our CI

- arcane test logging and artifacts
- precarious e2e machines
- no monitoring/alerts
- hard to find public infra with /dev/kvm



## Links/Documentation

- [source.redhat.com/groups/public/cockpit/cockpit\\_wiki/cockpit\\_ci\\_resources](https://source.redhat.com/groups/public/cockpit/cockpit_wiki/cockpit_ci_resources)
- [github.com/cockpit-project/cockpituous/](https://github.com/cockpit-project/cockpituous/)
- secrets in internal CEE GitLab repo, only accessible to a few team members
- [github.com/cockpit-project/bots](https://github.com/cockpit-project/bots)
- #cockpit on Freenode, [cockpit-devel@lists.fedorahosted.org](mailto:cockpit-devel@lists.fedorahosted.org)