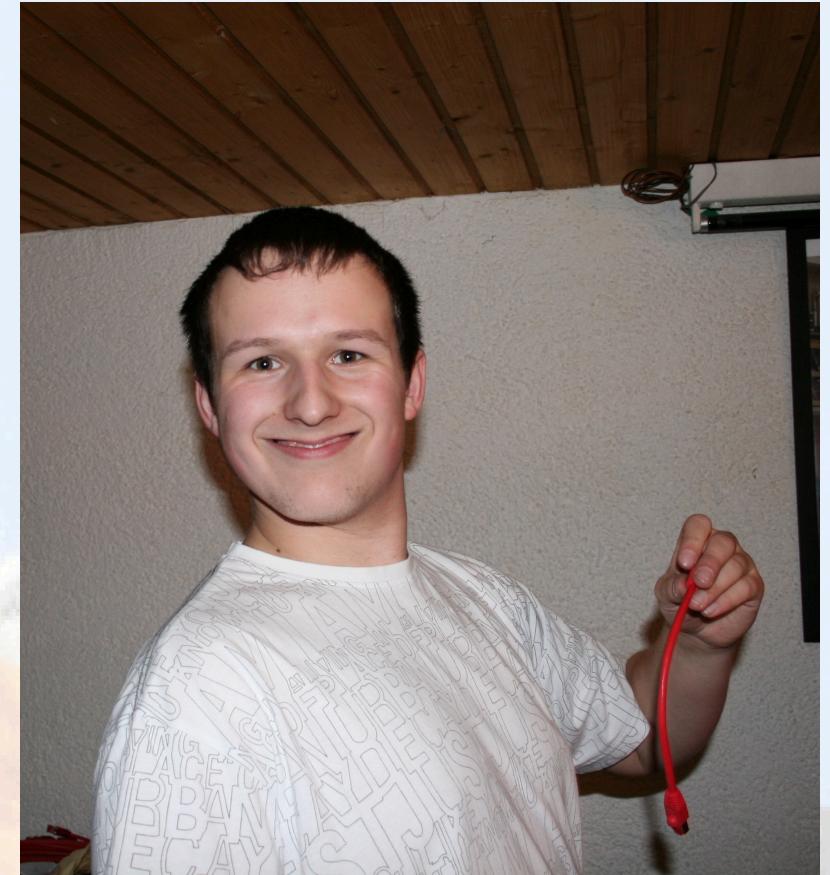


One year OpenVoxProject

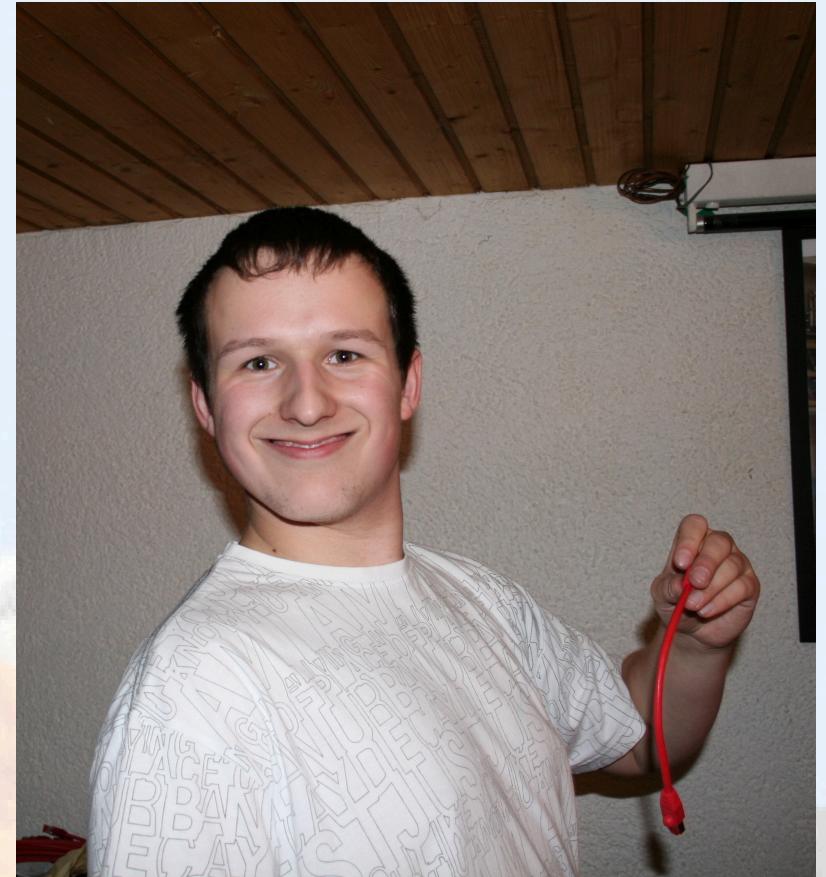
\$ whoami

- Tim 'bastelfreak' Meusel
- Puppet Contributor since 2012
- Merging stuff on [Vox Pupuli](#) (Puppet Community) since 2015
- Vox Pupuli Project Management Committee member
- Senior IT Automation Consultant at [betadots](#)
- Certified Puppet Solution Consultant



\$ whoami

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- Vox Pupuli Project Management Committee member
- Senior IT Automation Consultant at [betadots](#)
- Certified Puppet Solution Consultant
- New: Clojure & [ezbake](#) expert



OpenVoxProject

OpenVoxProject

Where are we?

We continue the open source development for the ecosystem!

- puppet-agent -> [openvox-agent](#)
- puppetserver -> [openvox-server](#)
- puppetdb -> [openvoxdb](#)
- bolt -> [openbolt](#)



OpenVoxProject

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- All repositories have dependabot/renovate to inform us about updates



OpenVoxProject

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- The packaging process is documented! → github.com/OpenVoxProject/planning/wiki/How-OpenVox-builds-work



OpenVoxProject

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OpenVoxProject

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- puppetserver -> [openvox-server](#)
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- All repositories have dependabot/renovate to inform us about updates
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- Ever wanted to add a new OS? → github.com/OpenVoxProject/planning/wiki/Adding-support-for-new-platforms
- All pipelines are public



OpenVoxProject

Where are we?

renovate (bot) added dependencies · renovate labels last week

github-actions (bot) commented last week • edited

The rpm/deb packages and the JAR file for openvox-server are available in a zip archive:
<https://github.com/OpenVoxProject/openvox-server/actions/runs/21272378272/artifacts/5228559803>

renovate (bot) force-pushed the
renovate/com.fasterxml.jackson.core-jackson-annotations-2.x branch 12 times,
most recently from **c530f59** to **5f0224f** 4 days ago

Compare



Who used ezbake?

Who understands ezbake?

OpenVoxProject

Where are we?

ezbake

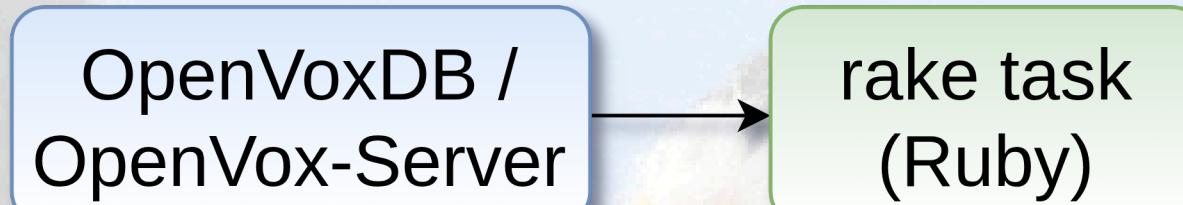
OpenVoxDB /
OpenVox-Server



OpenVoxProject

Where are we?

ezbake



OpenVoxProject

Where are we?

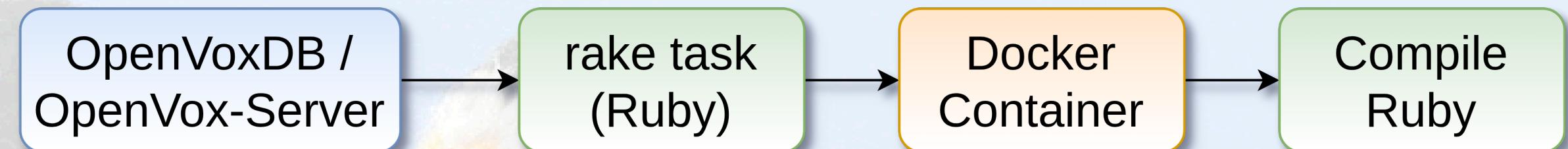
ezbake



OpenVoxProject

Where are we?

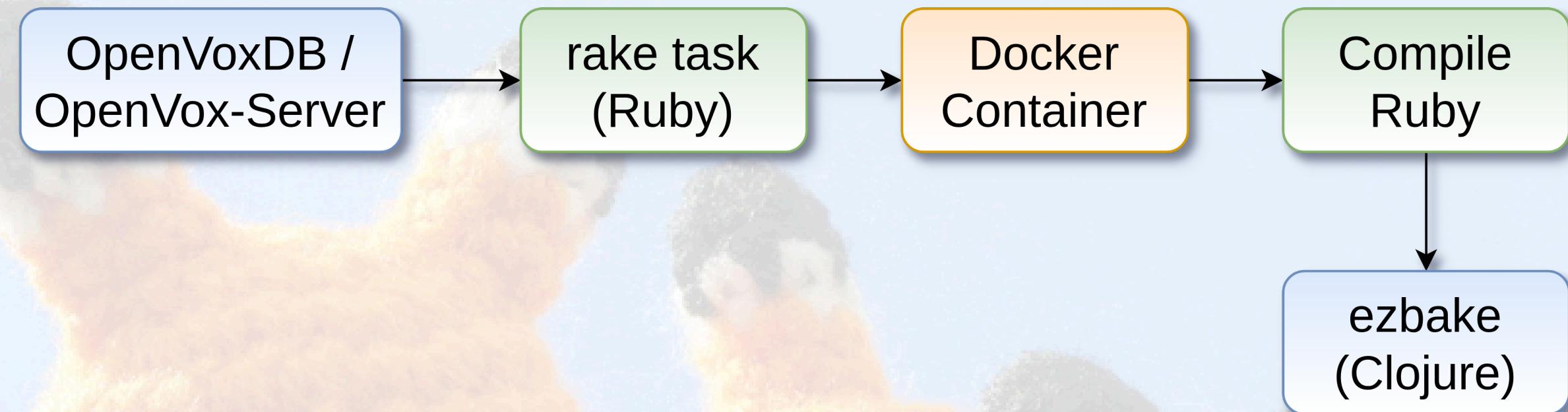
ezbake



OpenVoxProject

Where are we?

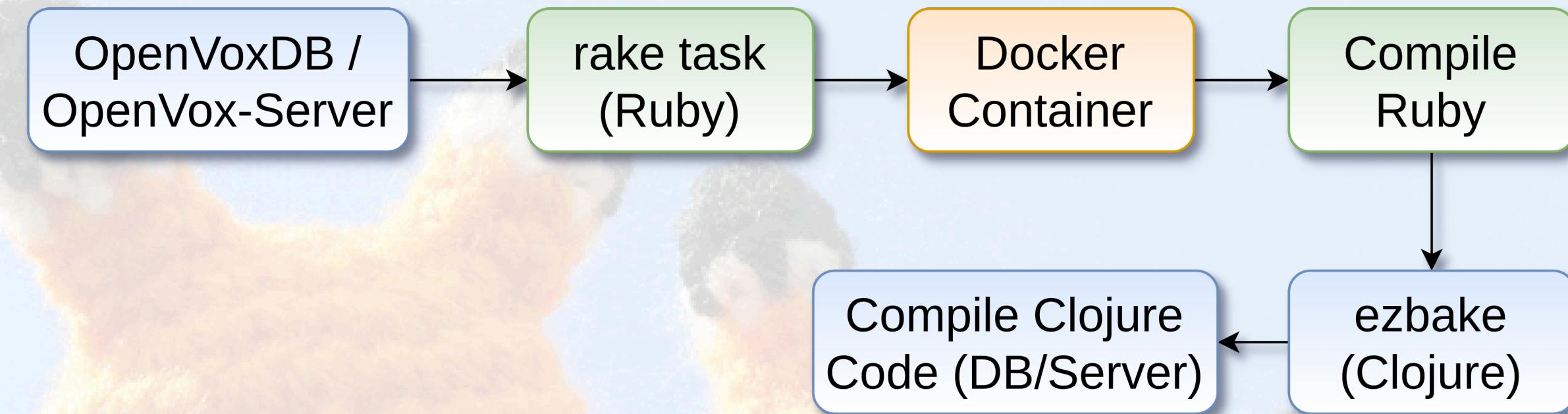
ezbake



OpenVoxProject

Where are we?

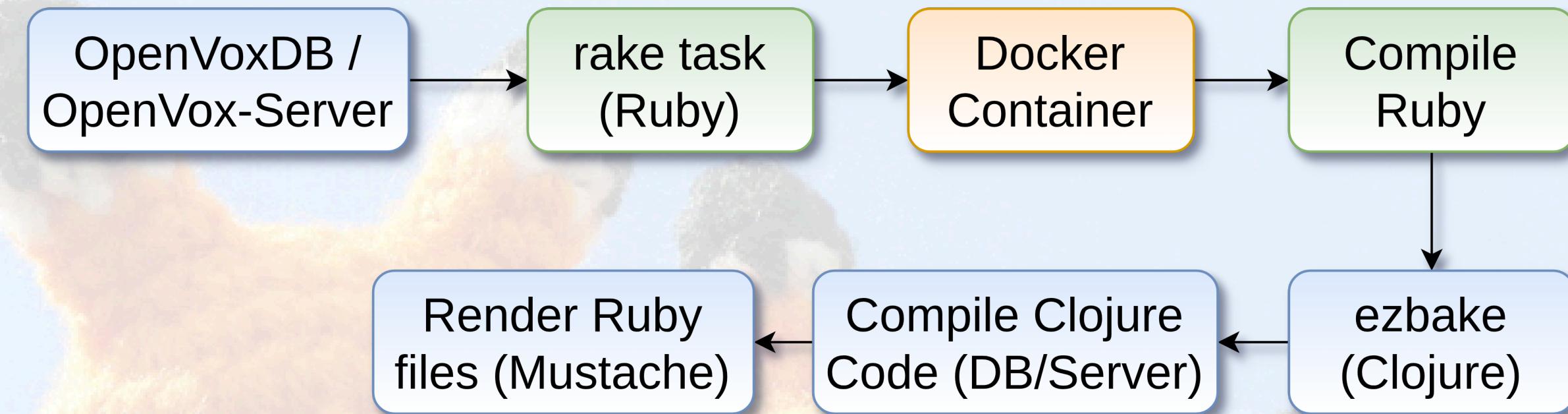
ezbake



OpenVoxProject

Where are we?

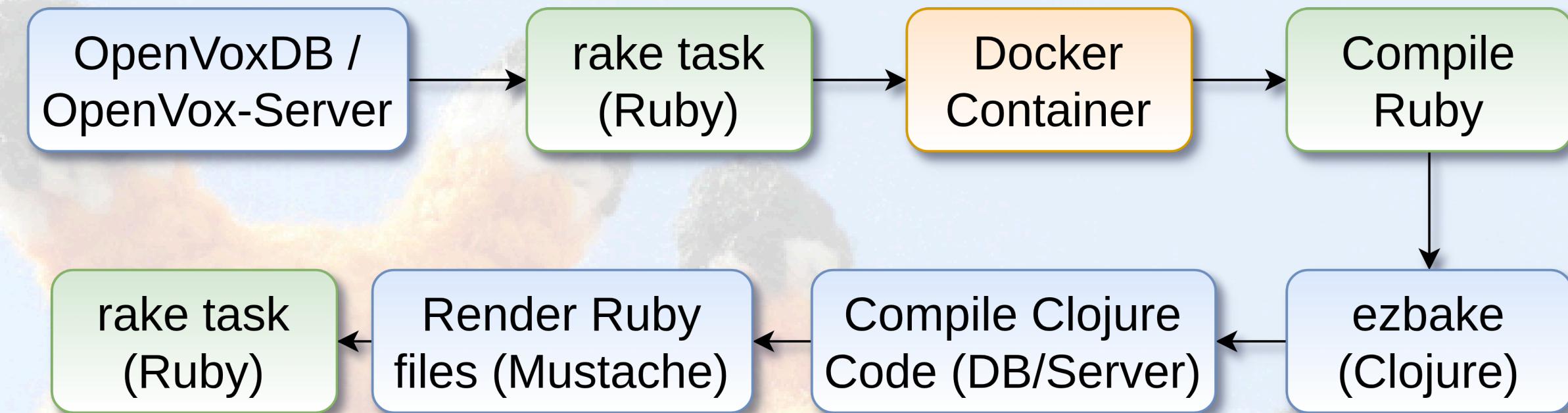
ezbake



OpenVoxProject

Where are we?

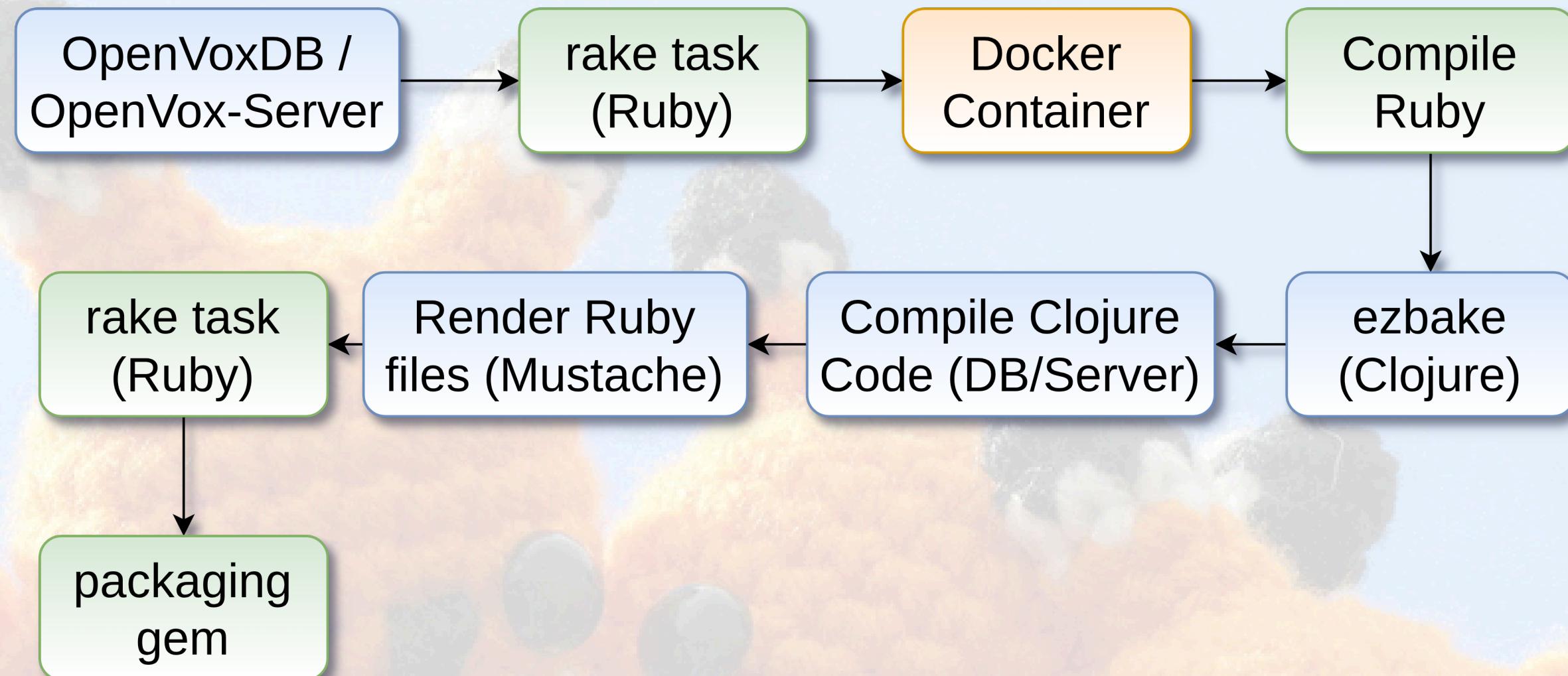
ezbake



OpenVoxProject

Where are we?

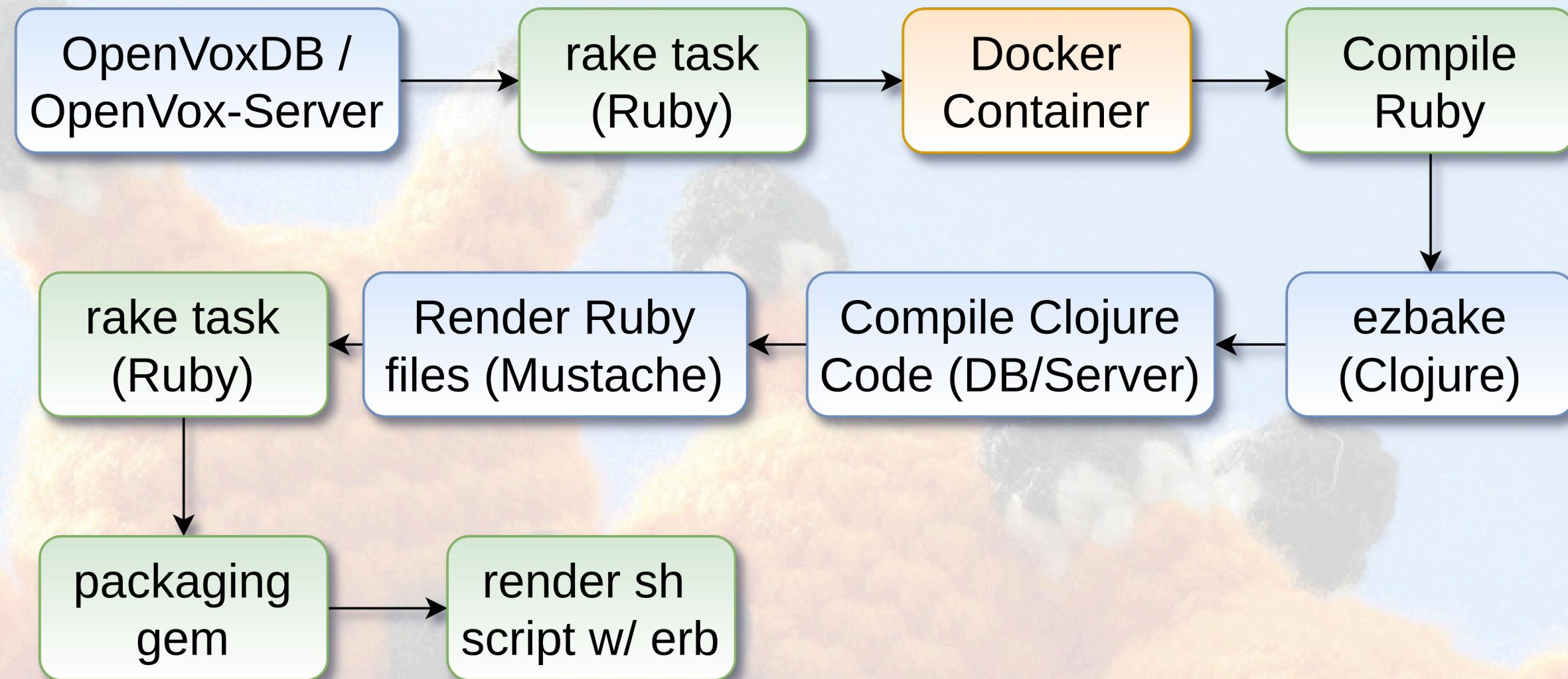
ezbake



OpenVoxProject

Where are we?

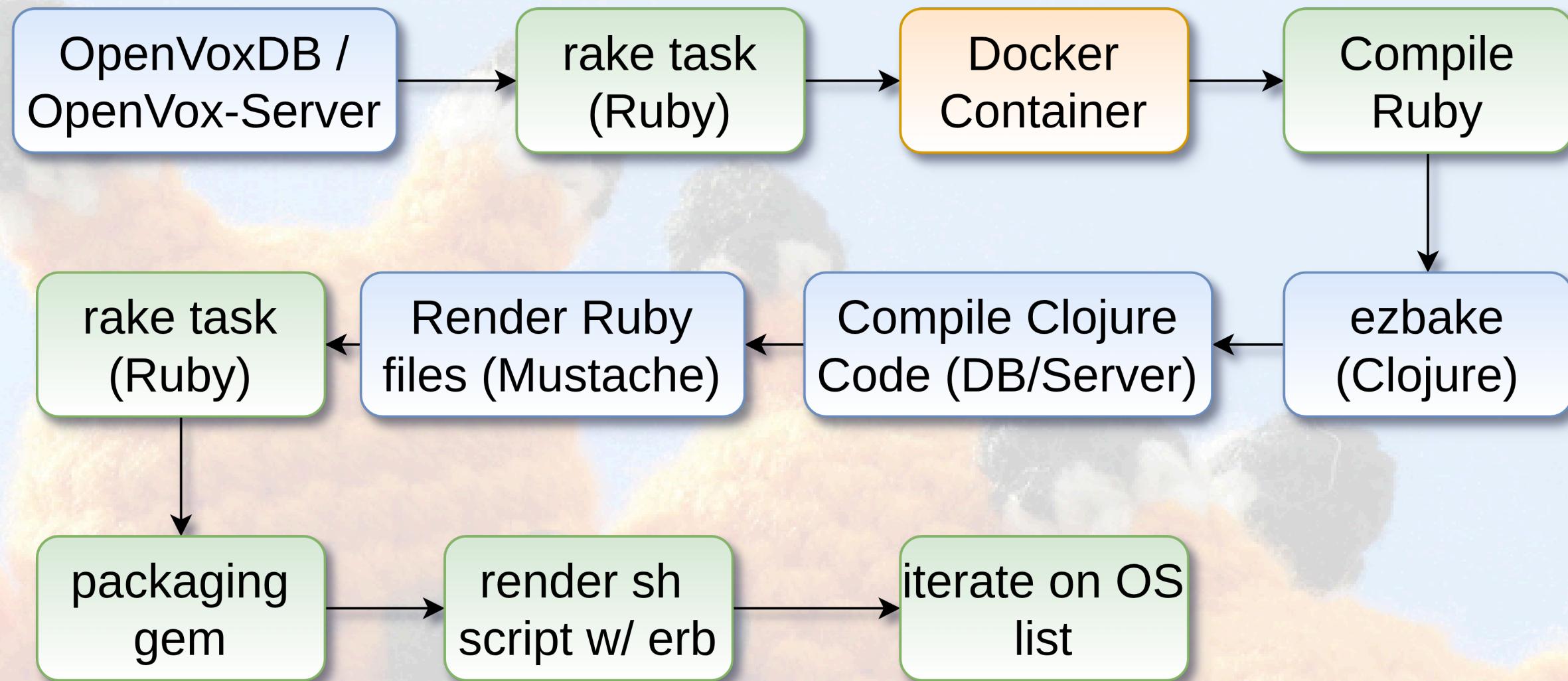
ezbake



OpenVoxProject

Where are we?

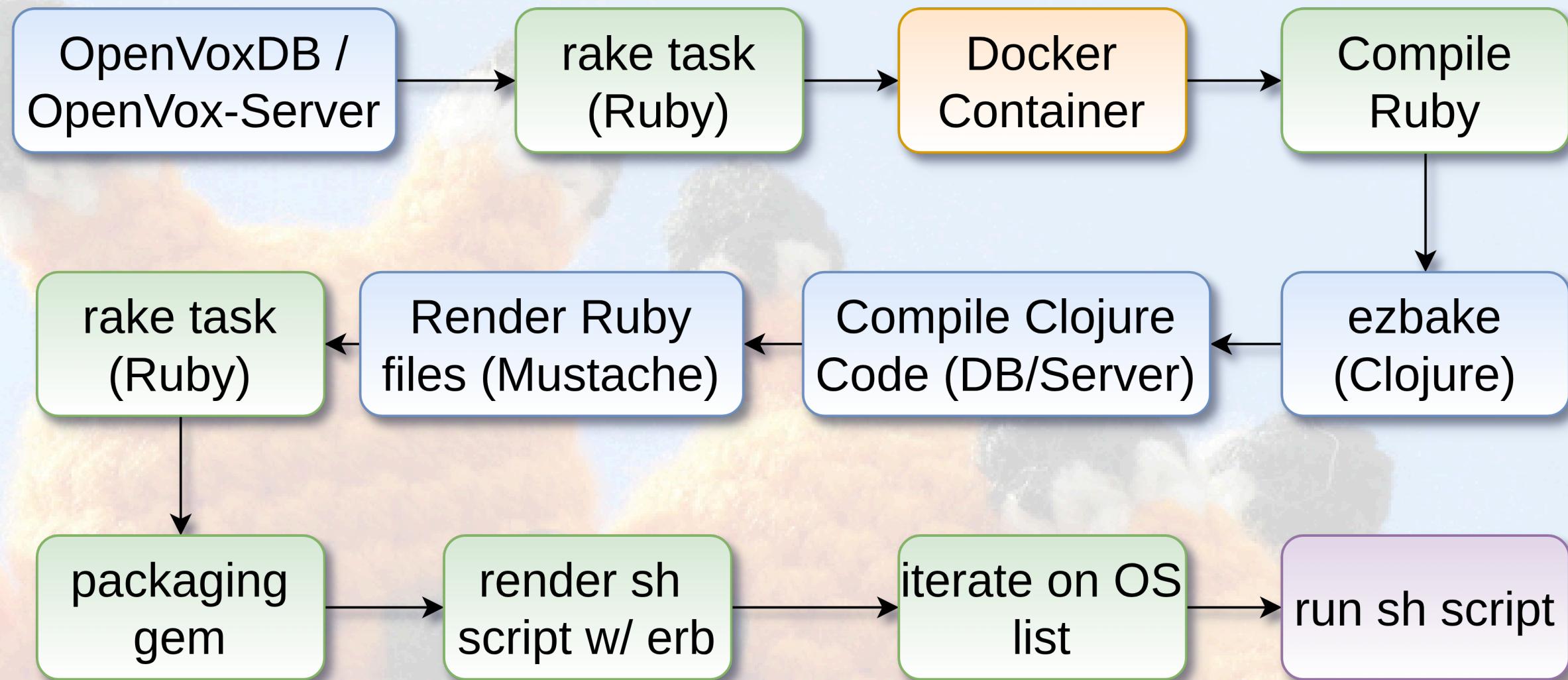
ezbake



OpenVoxProject

Where are we?

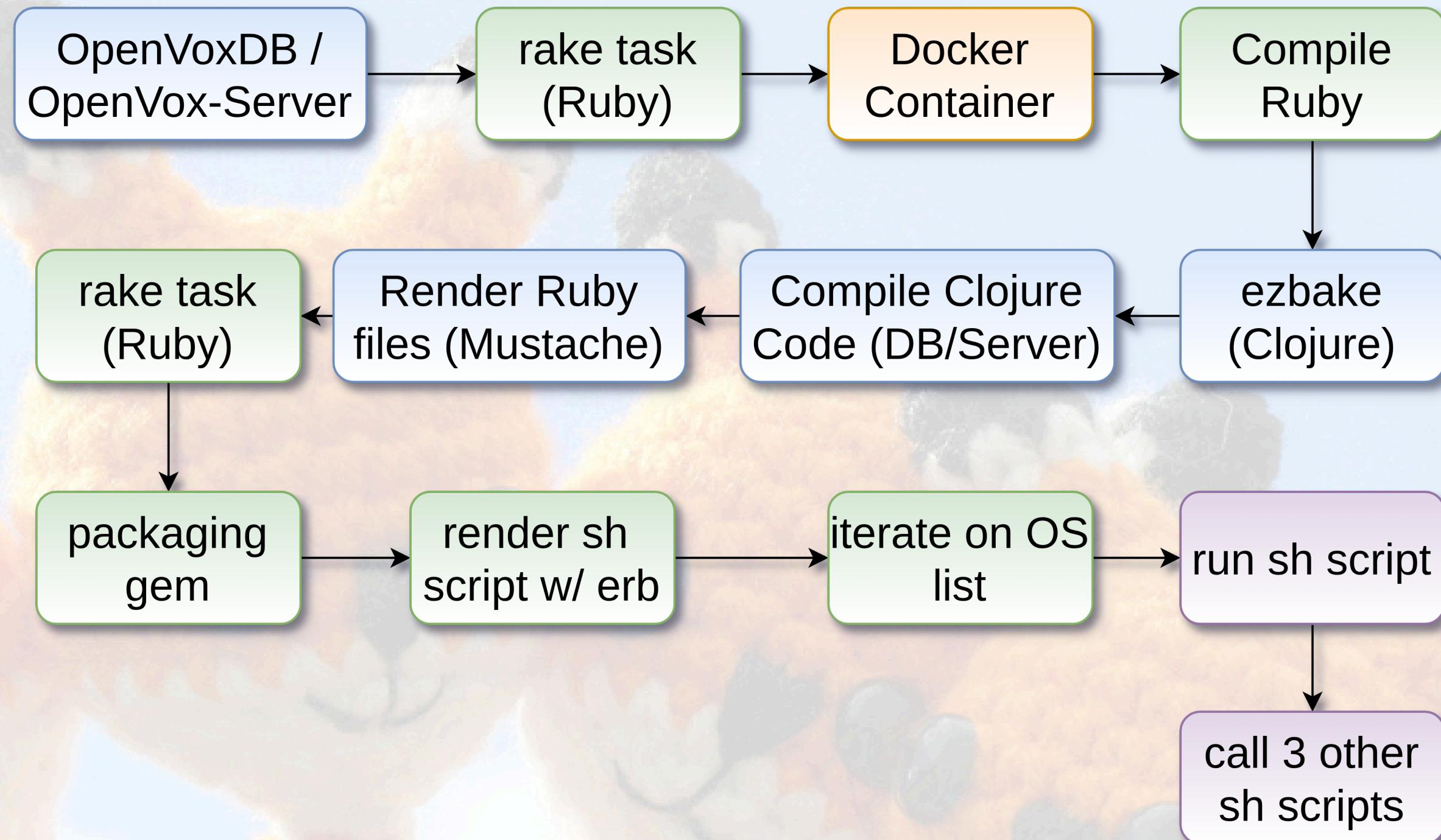
ezbake



OpenVoxProject

Where are we?

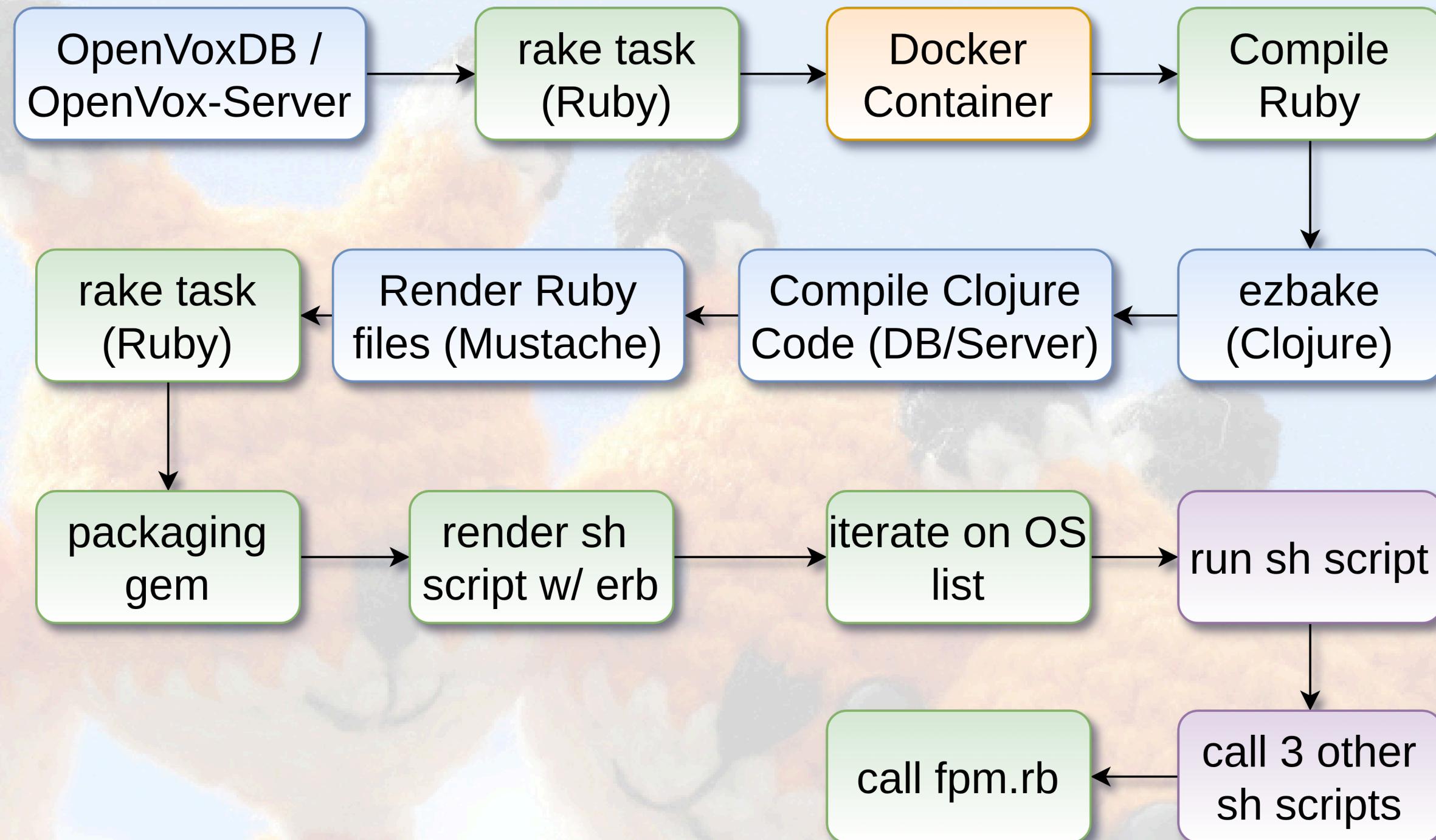
ezbake



OpenVoxProject

Where are we?

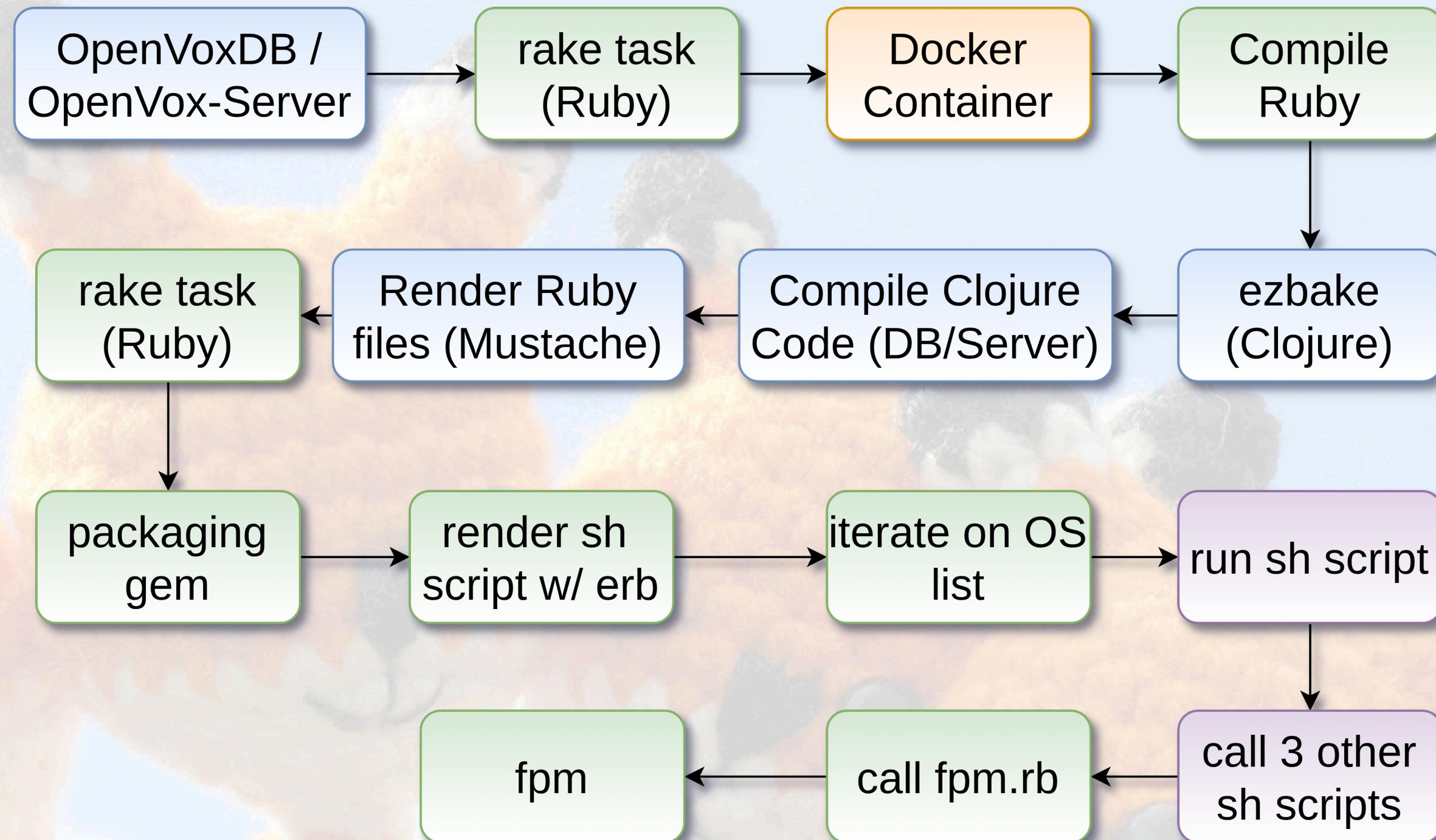
ezbake



OpenVoxProject

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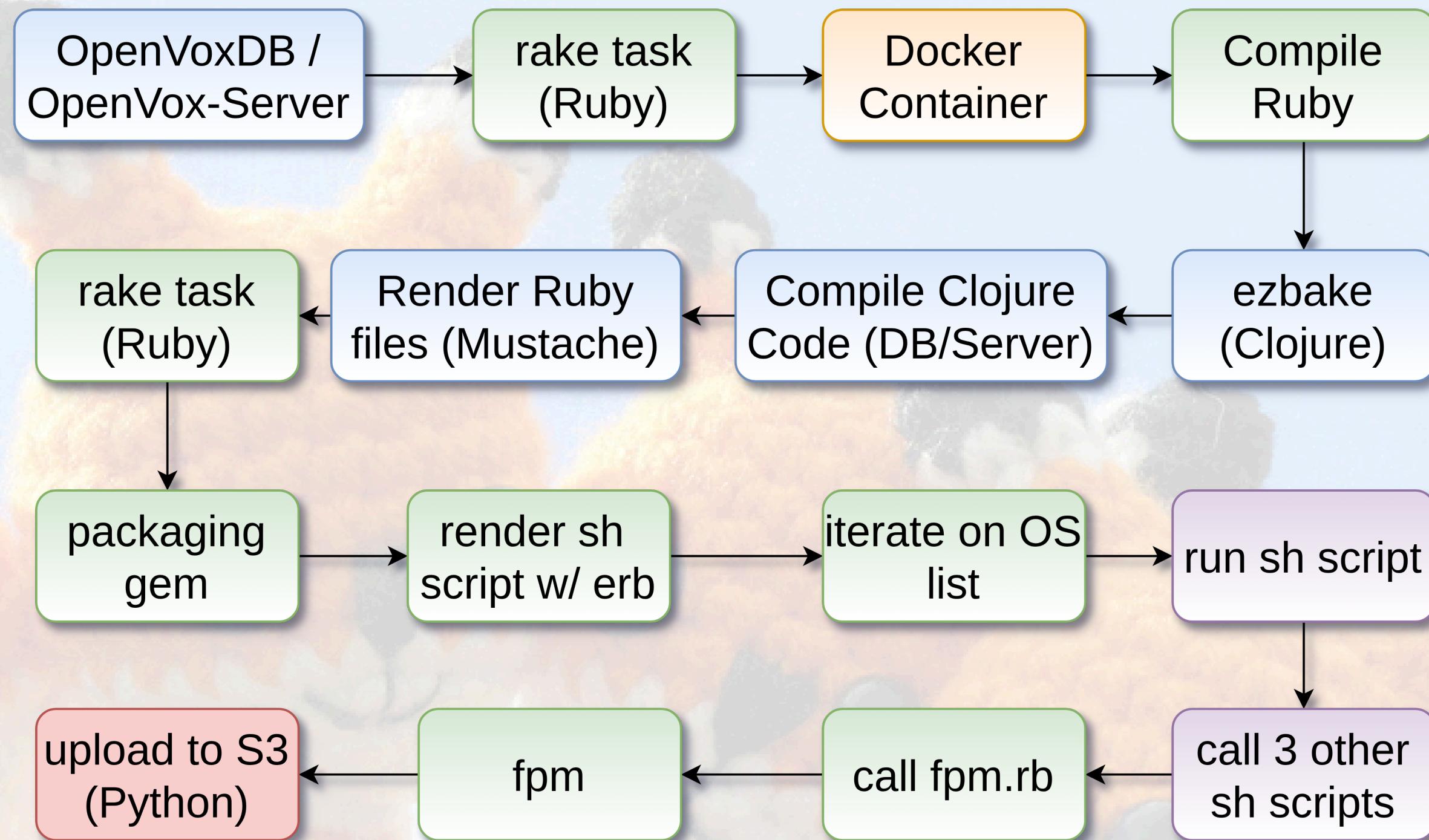
ezbake



OpenVoxProject

Where are we?

ezbake



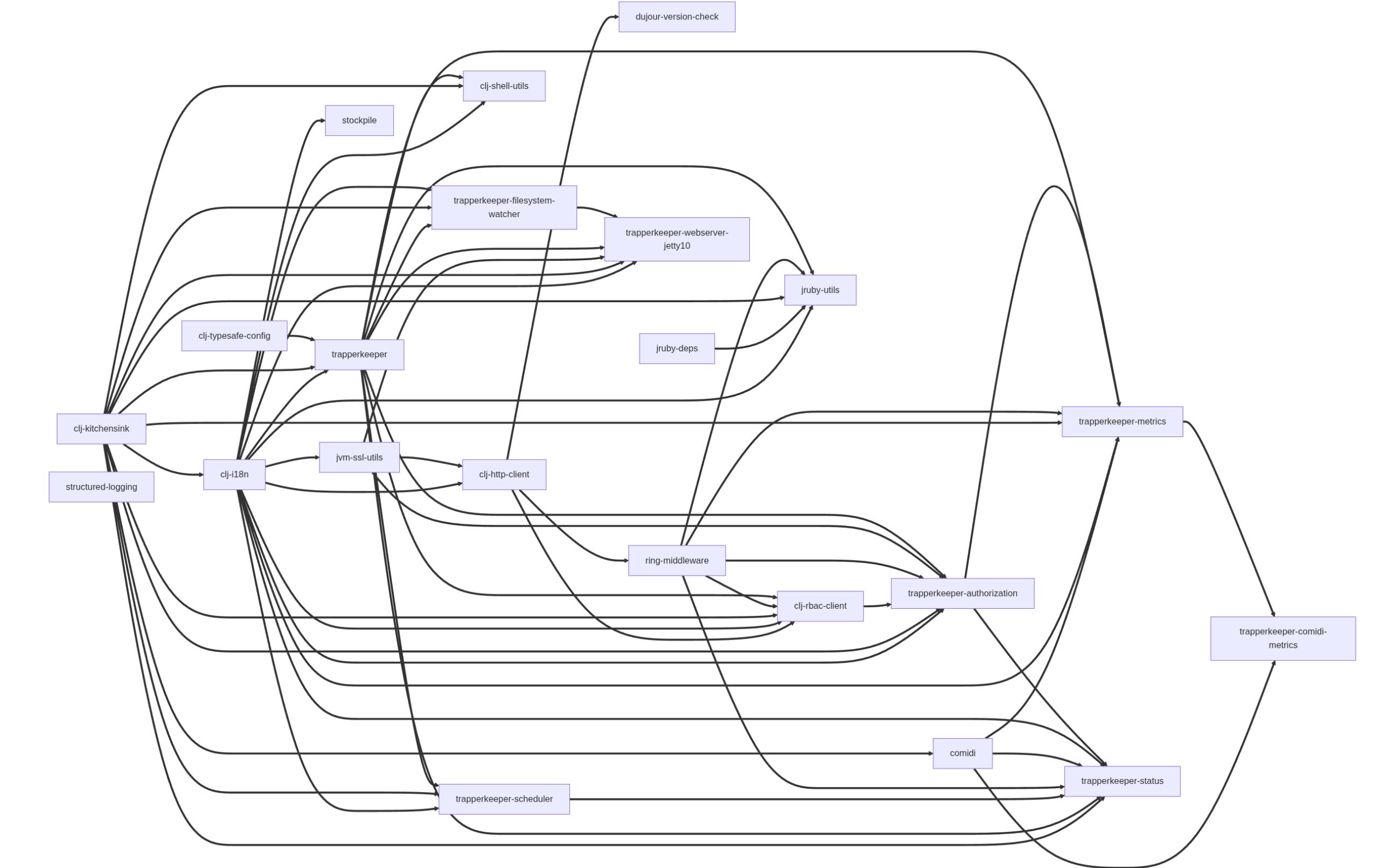
OpenVoxProject

Where are we?

ezbake

Dependencies

List of all Clojure libs, we had to fork from Perforce, and their relationships

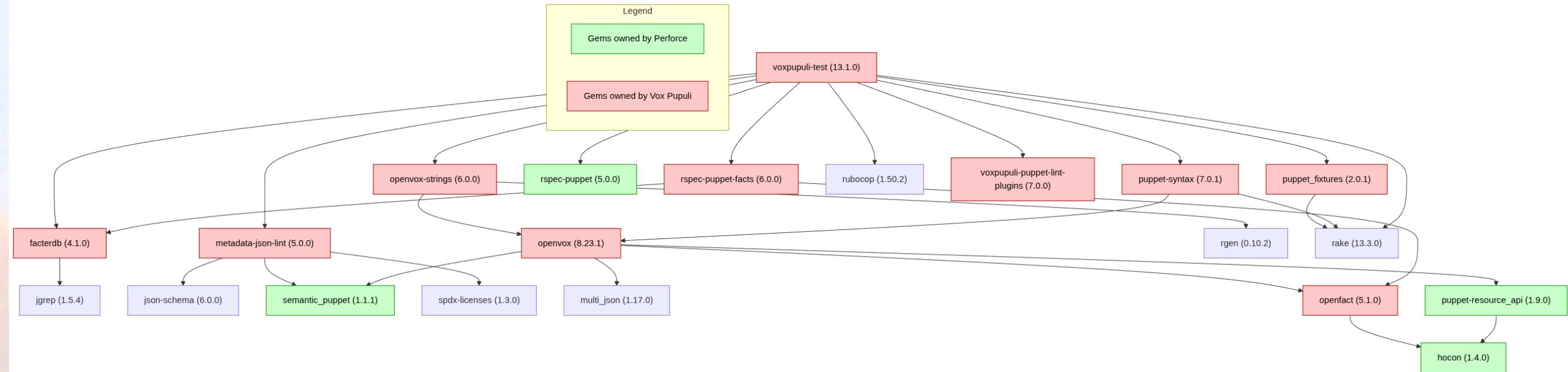


OpenVoxProject

Where are we?

ezbake

Dependencies



OpenVoxProject

Where are we?

ezbake

Dependencies

- Graph of all Ruby dependencies for openvox: github.com/voxpupuli/voxpupuli.github.io/pull/565
- We had to fork puppet-strings → [openvox-strings](#)
 - puppet-strings had a dependency to puppet, but that's gone now
- We had to fork Facter → [OpenFact](#)



OpenVoxProject

Where are we?

ezbake

Dependencies

- Graph of all Ruby dependencies for openvox: github.com/voxpupuli/voxpupuli.github.io/pull/565
- We had to fork puppet-strings → [openvox-strings](#)
 - puppet-strings had a dependency to puppet, but that's gone now
- We had to fork Facter → [OpenFact](#)
- We removed puppetlabs_spec_helper from our module testing pipeline



Community Update

Community Update

Drop Puppet

- We discussed dropping support for Perforce package → github.com/voxpupuli/community-triage/issues/59
 - Packages are EoL / have dependencies with open CVEs
 - Perforce won't publish updates
 - We removed puppet from metadata.json as a supported implementation



Community Update

Drop Puppet

Drop OpenVox 7

- We discussed dropping OpenVox 7 support → <https://github.com/voxpupuli/community-triage/issues/60>
- Back when we started the OpenVoxProject, we still supported Puppet 7, so we offered OpenVox 7 & 8 packages
- OpenVox 7 only exists to make it easier for people to migrate



Community Update

Drop Puppet

Drop OpenVox 7

- We discussed dropping OpenVox 7 support → <https://github.com/voxpupuli/community-triage/issues/60>
- Back when we started the OpenVoxProject, we still supported Puppet 7, so we offered OpenVox 7 & 8 packages
- OpenVox 7 only exists to make it easier for people to migrate
- A big thank you to [Christoph Maser \(TheMeier\)](#) for doing most of those changes!



Community Update

For OpenVox-Server/DB/Agent & OpenBolt

- EL8, EL9, EL10, Amazon 2, Amazon 2023, Fedora, SLES 15

Drop Puppet

Drop OpenVox 7

Supported platforms



Community Update

For OpenVox-Server/DB/Agent & OpenBolt

- EL8, EL9, EL10, Amazon 2, Amazon 2023, Fedora, SLES 15
 - X86, PowerPC64le (openbolt will be added), AARCH64

Drop Puppet

Drop OpenVox 7

Supported platforms



Community Update

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Drop OpenVox 7

Supported platforms

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 - [FIPS X86 for EL8 & EL9 \(EL10 soon\)](#)



Community Update

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Drop OpenVox 7

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- EL8, EL9, EL10, Amazon 2, Amazon 2023, Fedora, SLES 15
 - X86, PowerPC64le (openbolt will be added), AARCH64
 - FIPS X86 for EL8 & EL9 (EL10 soon)
 - SLES 16 in the making!



Community Update

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Drop OpenVox 7

Supported platforms

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- EL8, EL9, EL10, Amazon 2, Amazon 2023, Fedora, SLES 15
 - X86, PowerPC64le (openbolt will be added), AARCH64
 - [FIPS X86 for EL8 & EL9 \(EL10 soon\)](#)
 - SLES 16 in the making!
- Debian 11, 12, 13
 - X86, AARCH64



Community Update

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Drop OpenVox 7

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For OpenVox-Server/DB/Agent & OpenBolt

- EL8, EL9, EL10, Amazon 2, Amazon 2023, Fedora, SLES 15
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 - [FIPS X86 for EL8 & EL9 \(EL10 soon\)](#)
 - SLES 16 in the making!
- Debian 11, 12, 13
 - X86, AARCH64
 - ARMHF in the making!



Community Update

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- EL8, EL9, EL10, Amazon 2, Amazon 2023, Fedora, SLES 15
 - X86, PowerPC64le (openbolt will be added), AARCH64
 - [FIPS X86 for EL8 & EL9 \(EL10 soon\)](#)
 - SLES 16 in the making!
- Debian 11, 12, 13
 - X86, AARCH64
 - ARMHF in the making!
- Ubuntu 20.04, 22.04, 24.04, 25.04
 - X86, AARCH64
 - ARMHF in the making!



Community Update

Drop Puppet

Drop OpenVox 7

Supported platforms

For OpenVox-Server/DB/Agent & OpenBolt

- EL8, EL9, EL10, Amazon 2, Amazon 2023, Fedora, SLES 15
 - X86, PowerPC64le (openbolt will be added), AARCH64
 - FIPS X86 for EL8 & EL9 (EL10 soon)
 - SLES 16 in the making!
- Debian 11, 12, 13
 - X86, AARCH64
 - ARMHF in the making!
- Ubuntu 20.04, 22.04, 24.04, 25.04
 - X86, AARCH64
 - ARMHF in the making!
 - Do people care about Ubuntu 24.10, 25.10..?



Community Update

Drop Puppet

Drop OpenVox 7

Supported platforms

Release train!

Continuous Delivery Pipeline



(from [linkedin.com/pulse/art-agile-release-train-dummies-puneet-relan](https://www.linkedin.com/pulse/art-agile-release-train-dummies-puneet-relan))



Community Update

Drop Puppet

Drop OpenVox 7

Supported platforms

Release train!

- Rocky Linux 10 Release: 2025-06-11
- openvox-agent EL10 Release: 2025-02-21
- OpenVox Time to market: -110 days!



Community Update

Drop Puppet

Drop OpenVox 7

Supported platforms

Release train!

- openvox-server EL10 release: 2025-06-03
- PE 2023.8.6 with EL10 support: 2025-12-18



Community Update

Drop Puppet

Drop OpenVox 7

Supported platforms

Release train!

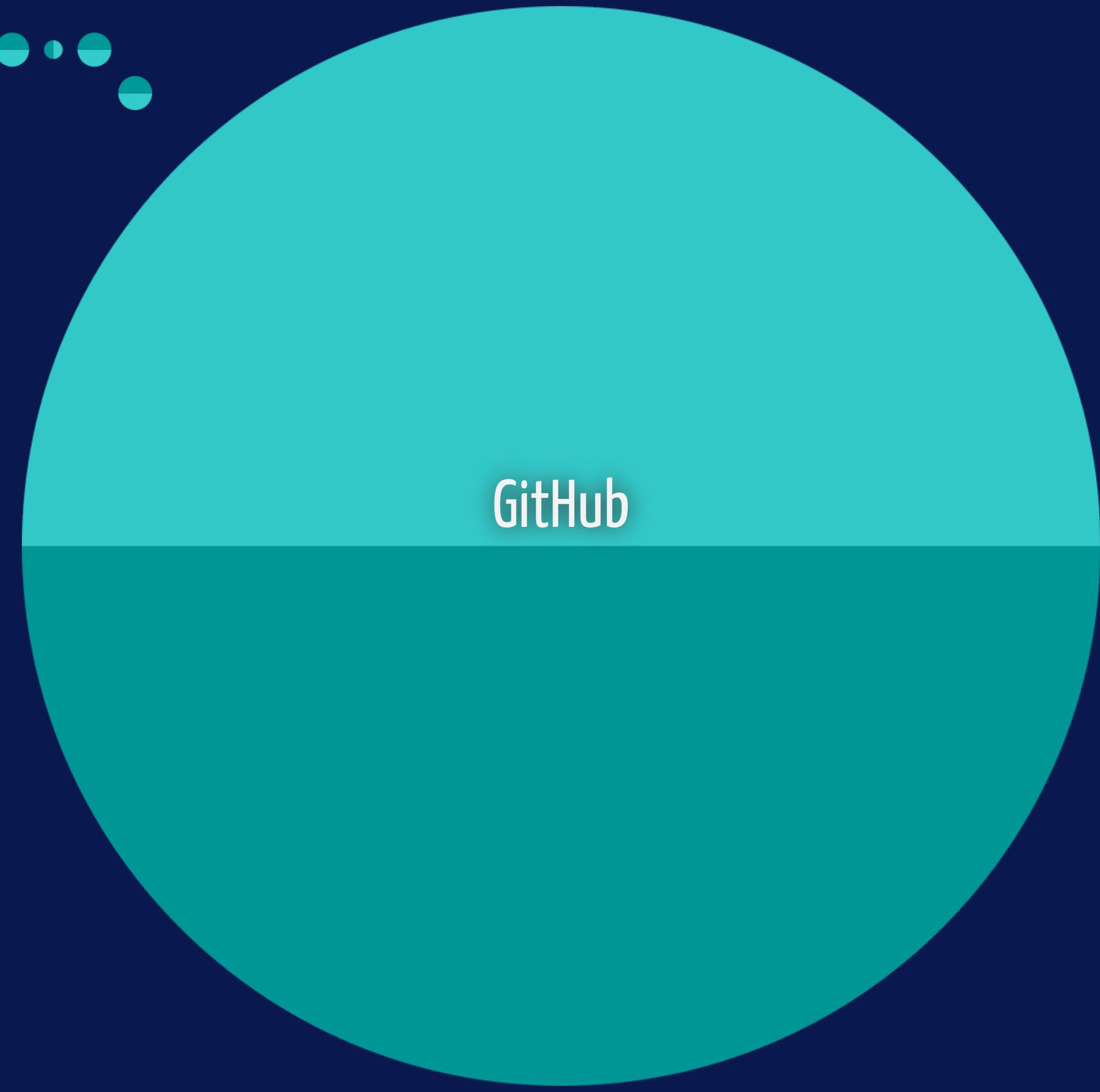
New logo!

OpenVox



- Available in our repo: github.com/voxpupuli/logos

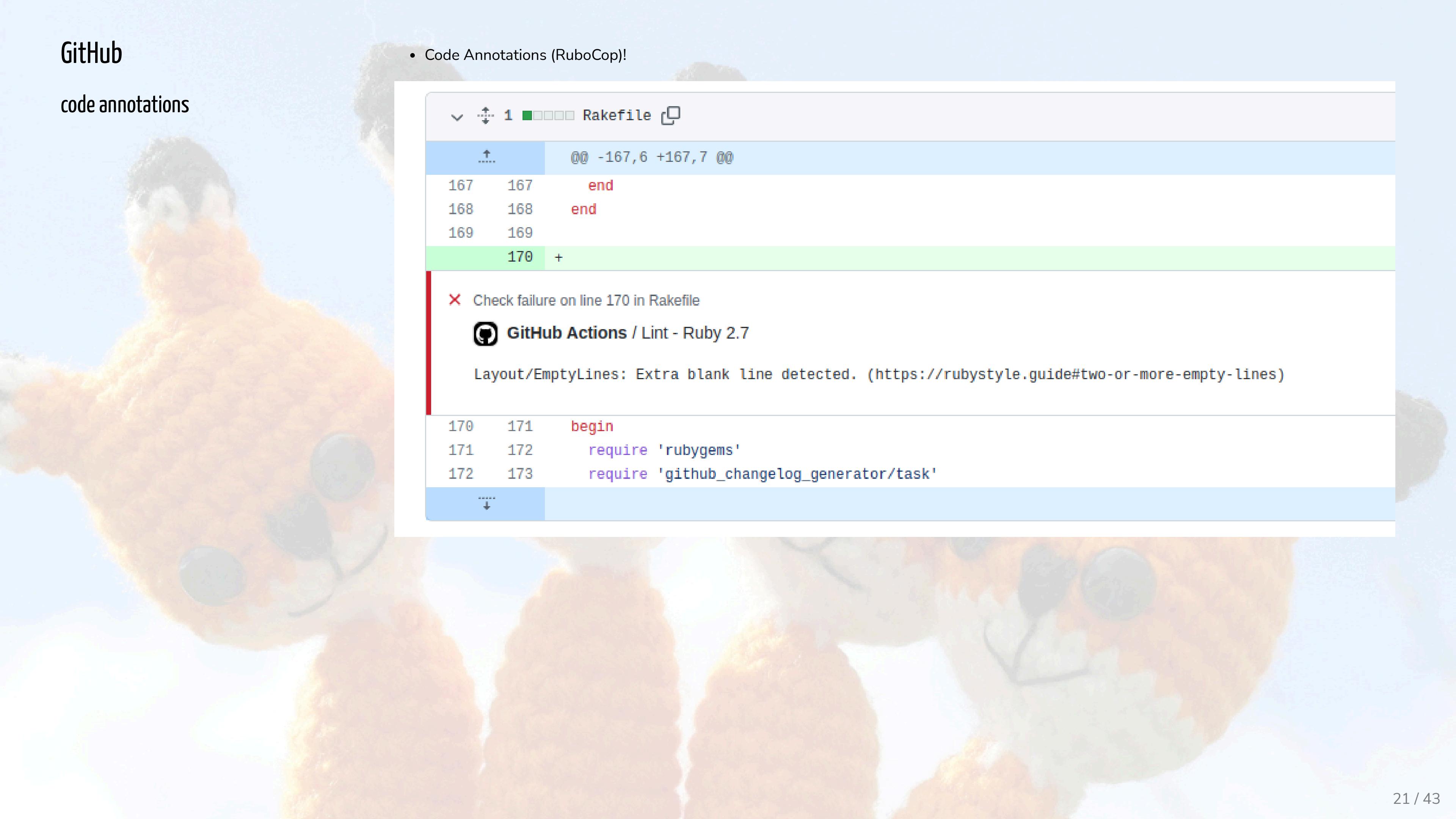




GitHub

code annotations

- Code Annotations (RuboCop)!



```
1 Rakefile
```

	..	00 -167,6 +167,7 00
167	167	end
168	168	end
169	169	
170	+ 	

✗ Check failure on line 170 in Rakefile

GitHub Actions / Lint - Ruby 2.7

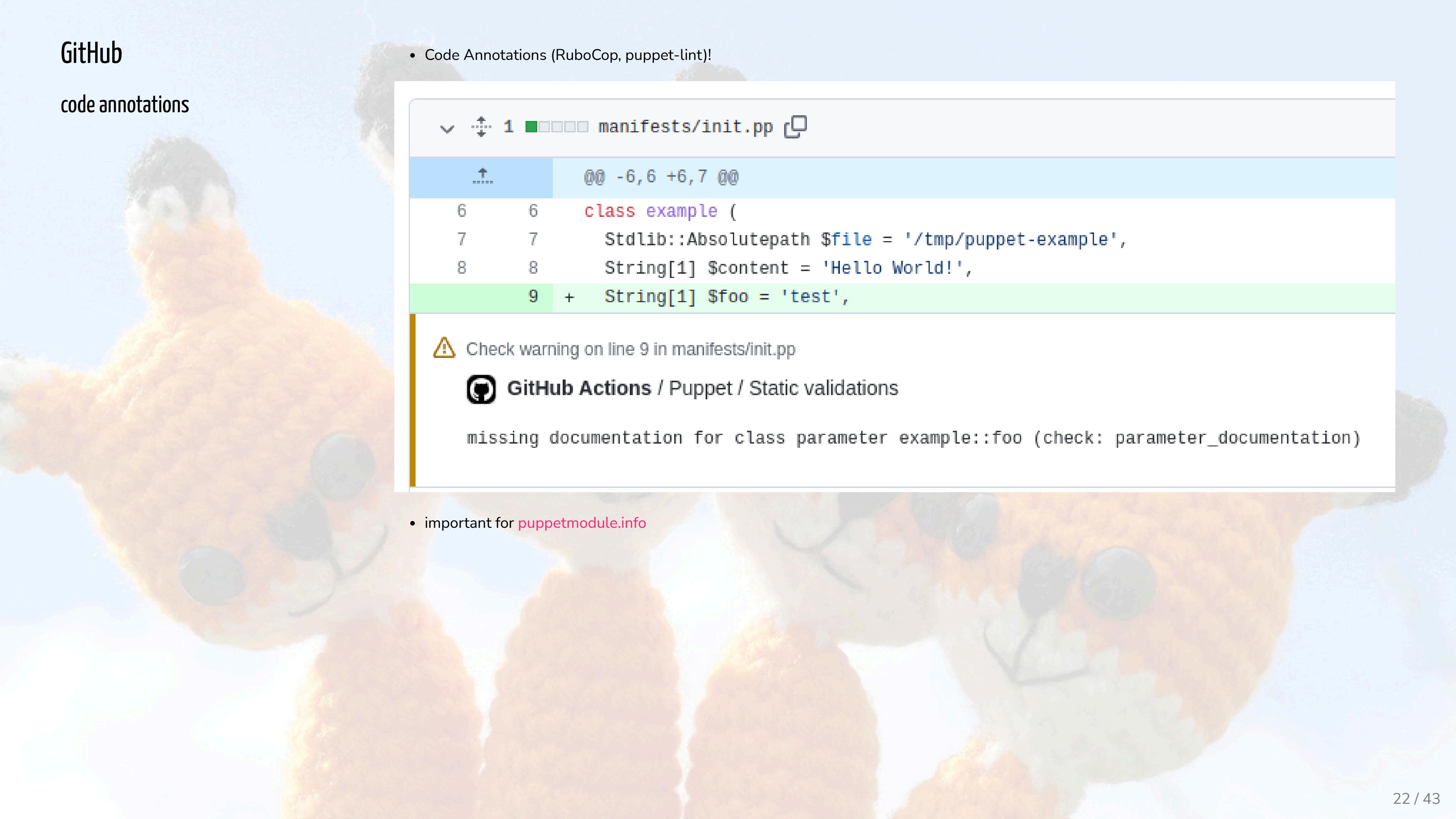
Layout/EmptyLines: Extra blank line detected. (<https://rubystyle.guide#two-or-more-empty-lines>)

```
170 171 begin
171 172 require 'rubygems'
172 173 require 'github_changelog_generator/task'
```

GitHub

code annotations

- Code Annotations (RuboCop, puppet-lint)!



```
✓ ✨ 1 manifests/init.pp □
  ↑ @@ -6,6 +6,7 @@
  6   6 class example (
  7   7     Stdlib::AbsolutePath $file = '/tmp/puppet-example',
  8   8     String[1] $content = 'Hello World!',
  9 + 9     String[1] $foo = 'test',
```

⚠ Check warning on line 9 in manifests/init.pp

⌚ GitHub Actions / Puppet / Static validations

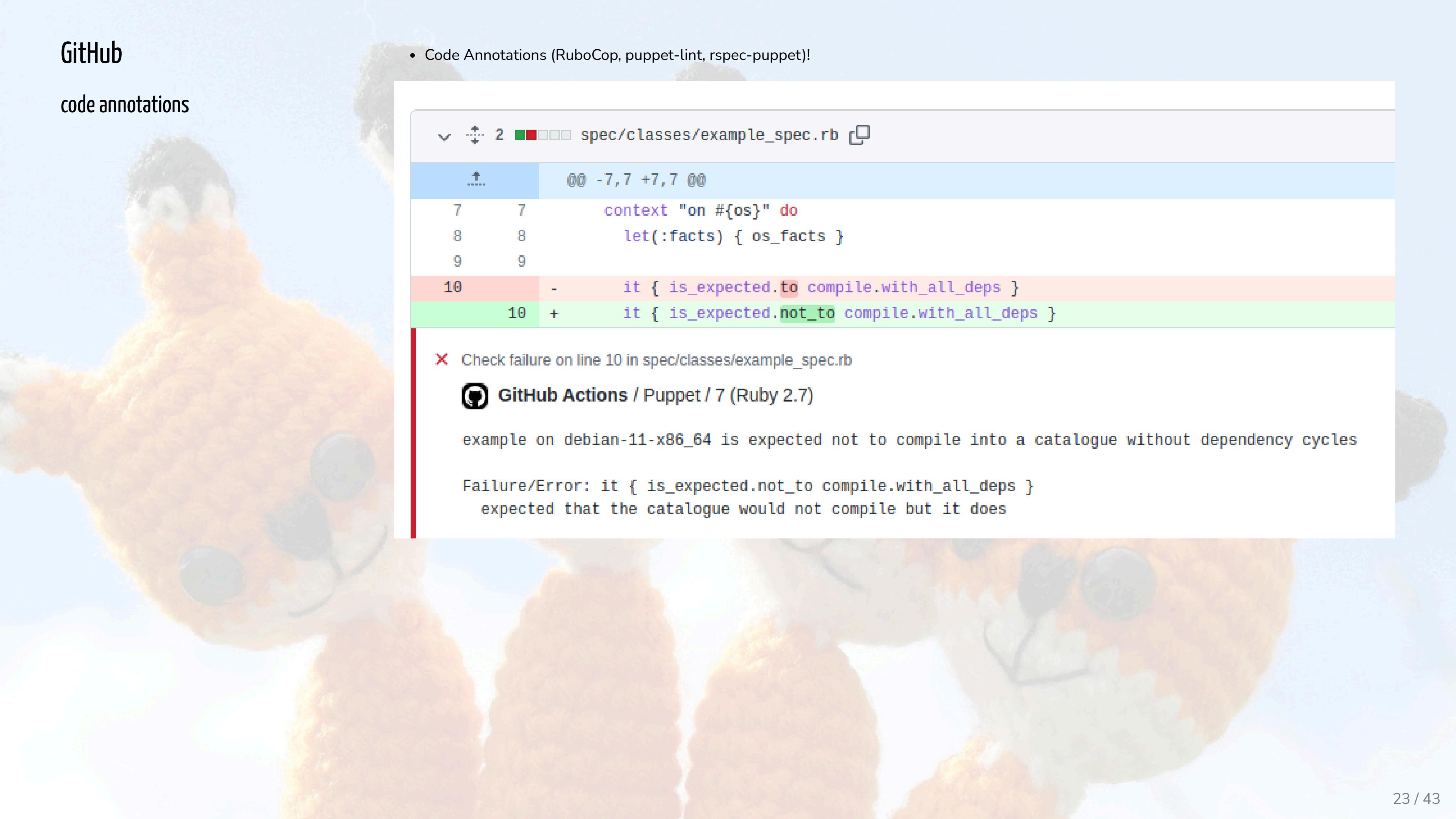
missing documentation for class parameter example::foo (check: parameter_documentation)

- important for [puppetmodule.info](#)

GitHub

- Code Annotations (RuboCop, puppet-lint, rspec-puppet)!

code annotations



✓ ⌂ 2 spec/classes/example_spec.rb

	↑	00 -7,7 +7,7 00
7	7	context "on #{os}" do
8	8	let(:facts) { os_facts }
9	9	
10	-	it { is_expected.to compile.with_all_deps }
	10	+ it { is_expected.not_to compile.with_all_deps }

✖ Check failure on line 10 in spec/classes/example_spec.rb

⌚ GitHub Actions / Puppet / 7 (Ruby 2.7)

example on debian-11-x86_64 is expected not to compile into a catalogue without dependency cycles

Failure/Error: it { is_expected.not_to compile.with_all_deps }
expected that the catalogue would not compile but it does

GitHub

code annotations

- Code Annotations (RuboCop, puppet-lint, rspec-puppet, Beaker)!

```
31  30      describe package('zabbix-server-pgsql') do
32  31          it { is_expected.to be_installed }
```

✗ Check failure on line 31 in spec/acceptance/server_spec.rb

 GitHub Actions / Puppet / Puppet 8 - OracleLinux 7 - Zabbix 6.0

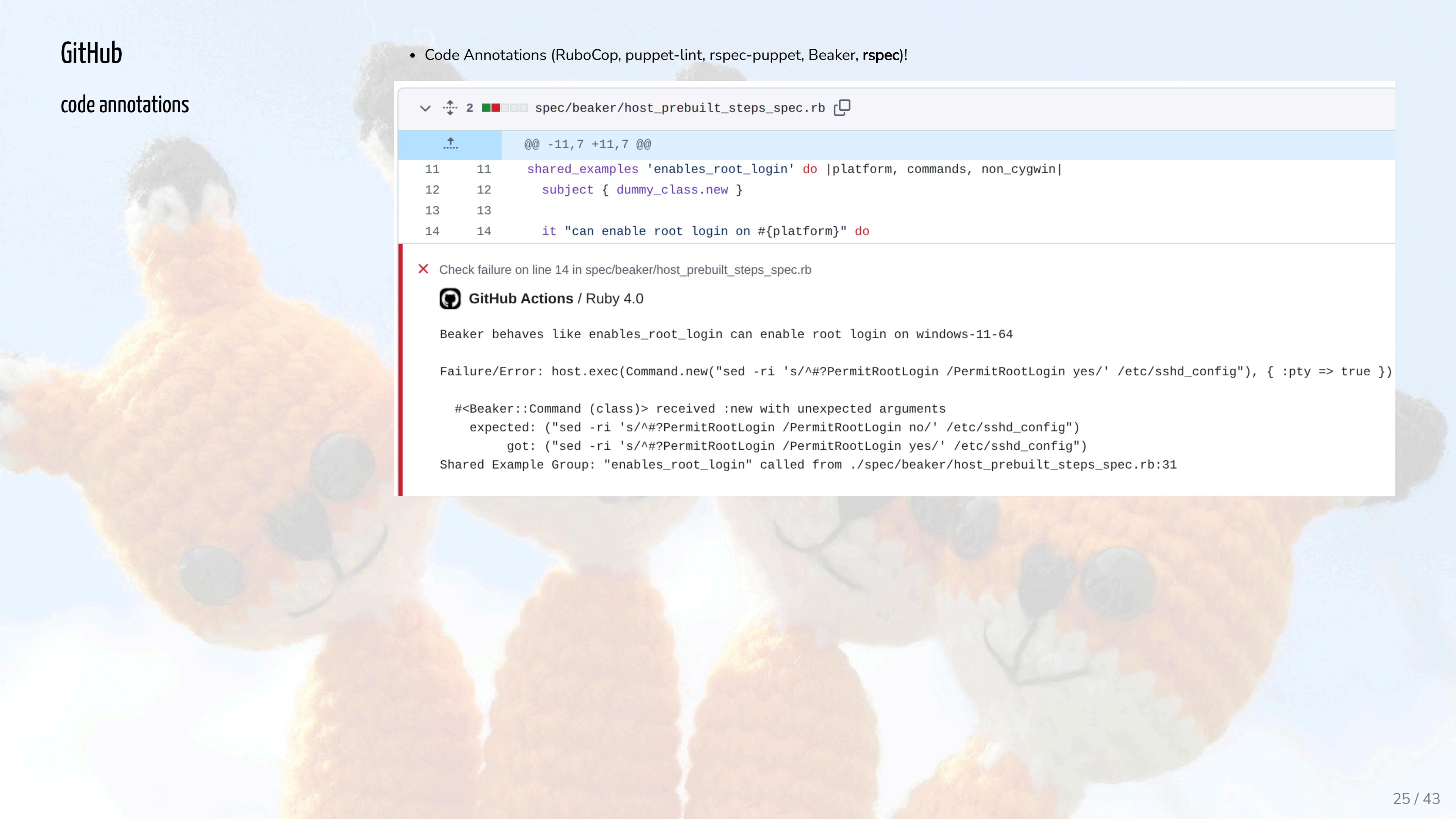
zabbix::server class default parameters Package "zabbix-server-pgsql" is expected to be installed

Failure/Error: it { is_expected.to be_installed }
expected Package "zabbix-server-pgsql" to be installed

GitHub

- Code Annotations (RuboCop, puppet-lint, rspec-puppet, Beaker, **rspec**)!

code annotations



```
✓ ⏷ 2 spec/beaker/host_prebuilt_steps_spec.rb
```

↑	@@ -11,7 +11,7 @@
11	11 shared_examples 'enables_root_login' do platform, commands, non_cygwin
12	12 subject { dummy_class.new }
13	13
14	14 it "can enable root login on #{platform}" do

✗ Check failure on line 14 in spec/beaker/host_prebuilt_steps_spec.rb

 GitHub Actions / Ruby 4.0

```
Beaker behaves like enables_root_login can enable root login on windows-11-64

Failure/Error: host.exec(Command.new("sed -ri 's/^#?PermitRootLogin /PermitRootLogin yes/' /etc/sshd_config"), { :pty => true })

#<Beaker::Command (class)> received :new with unexpected arguments
expected: ("sed -ri 's/^#?PermitRootLogin /PermitRootLogin no/' /etc/sshd_config")
got:   ("sed -ri 's/^#?PermitRootLogin /PermitRootLogin yes/' /etc/sshd_config")
Shared Example Group: "enables_root_login" called from ./spec/beaker/host_prebuilt_steps_spec.rb:31
```

- Code Annotations (RuboCop, puppet-lint, rspec-puppet, Beaker, **rspec**, Clojure)!

Unchanged files with check annotations Beta

▼ test/puppetlabs/puppetdb/http/reports_test.clj ⚖

```
219  (let [{:keys [status body]} (query-response :get "/v4/reports" "[\"=\"]")]
220    (testing "malformed json queries don't return status 500 responses"
221      (is (= 400 status))
222      (is (= (str "Json parse error at line 1, column 5:\n\n"
```

✗ Check failure on line 222 in test/puppetlabs/puppetdb/http/reports_test.clj



GitHub Actions / core+ext/openjdk21/pg-16 - Ruby 3.4

```
fail: puppetlabs.puppetdb.http.reports-test/query-report-with-malformed-json
expected: (= (str "Json parse error at line 1, column 5:\n\n" "[\"=\"]\n" "^\n\n" "Unexpected end-of-input:
actual: (not (= "Json parse error at line 1, column 5:\n\n[\"=\"]\n" "^\n\nUnexpected end-of-input: expected
```

- Thank you to Nick Burgan for contributing this!

code annotations

- Code Annotations (RuboCop, puppet-lint, rspec-puppet, Beaker, **rspec**, Clojure, minitest)!

Unchanged files with check annotations Beta

▼ test/puppetlabs/puppetdb/http/reports_test.clj ⚖

```
219  (let [{:keys [status body]} (query-response :get "/v4/reports" "[\"=\"]")]
220    (testing "malformed json queries don't return status 500 responses"
221      (is (= 400 status))
222      (is (= (str "Json parse error at line 1, column 5:\n\n"
```

✗ Check failure on line 222 in test/puppetlabs/puppetdb/http/reports_test.clj



GitHub Actions / core+ext/openjdk21/pg-16 - Ruby 3.4

```
fail: puppetlabs.puppetdb.http.reports-test/query-report-with-malformed-json
expected: (= (str "Json parse error at line 1, column 5:\n\n" "[\"=\"]\n" "^\n\n" "Unexpected end-of-input:
actual: (not (= "Json parse error at line 1, column 5:\n\n[\"=\"]\n" "^\n\n"Unexpected end-of-input: expected
```

- Thank you to Ewoud and Evgeni for contributing this!

GitHub

code annotations

CI costs

- GitHub Actions 2025: \$11,993.91 consumed usage
- GitHub Actions 2025: \$5.49 billable usage



GitHub

code annotations

CI costs

- GitHub Actions 2025: \$11,993.91 consumed usage
- GitHub Actions 2025: \$5.49 billable usage
- GitHub Action January 2026: \$3,640.05 consumed usage



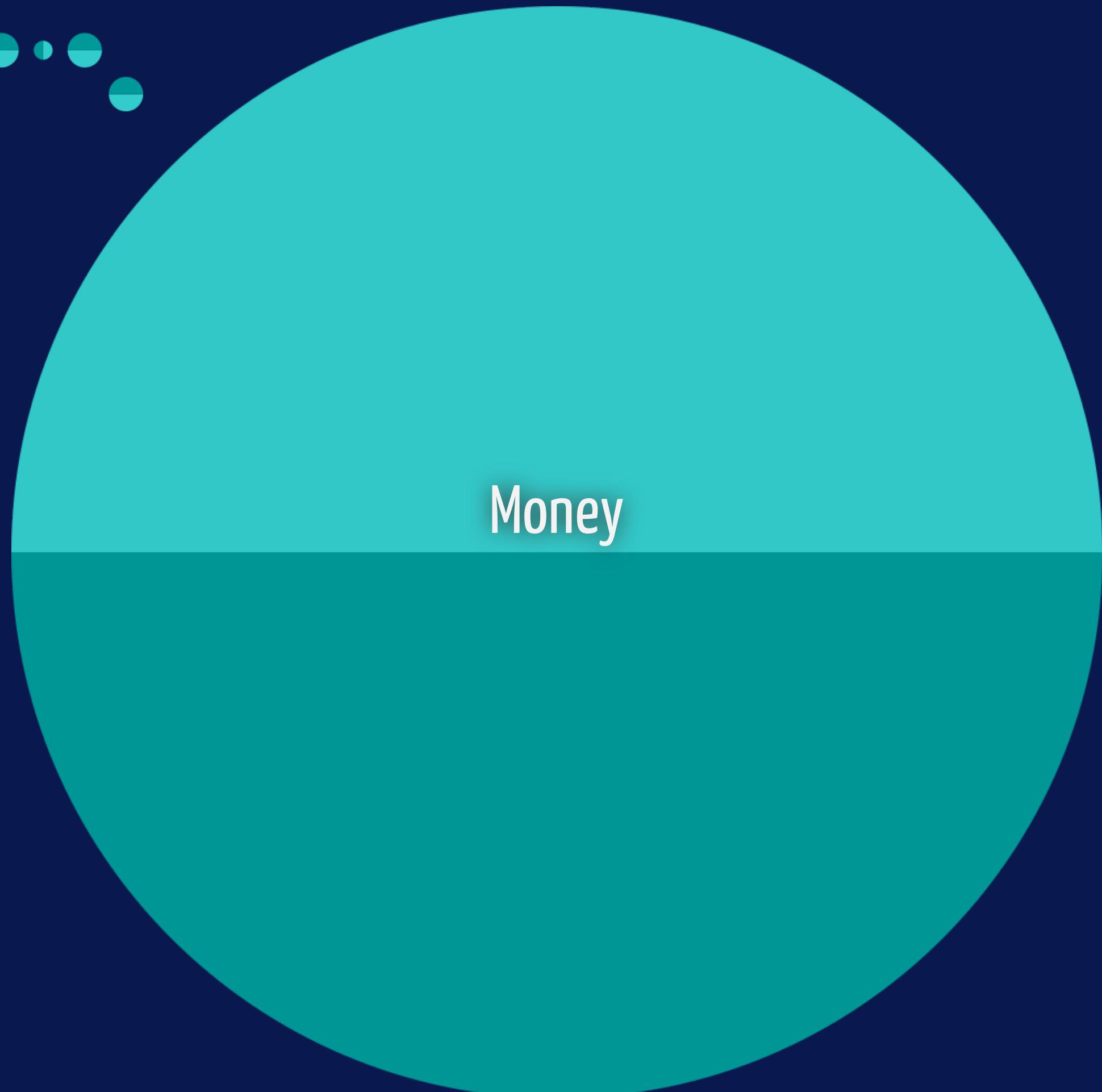
GitHub

code annotations

CI costs

- GitHub Actions 2025: \$11,993.91 consumed usage
- GitHub Actions 2025: \$5.49 billable usage
- GitHub Action January 2026: \$3,640.05 consumed usage
- GitHub enterprise is billed per user per month: \$6.300/month, sponsored by GitHub





Money

Money

Income

- 20-30 monthly sponsors
- Current balance: \$21.700
- Total raised: \$32.000
- \$18.000 raised via GitHub, \$14.000 via open-collective



Money

Income

- 20-30 monthly sponsors
- Current balance: \$21.700
- Total raised: \$32.000
- \$18.000 raised via GitHub, \$14.000 via open-collective
- Biggest donation: \$10.000 from Microsoft



Money

Income

Travel Budget

- Config Management Camp 2025: \$8.000
- VoxConf 2025: \$5.000
- Config Management Camp 2026: \$8.000



Money

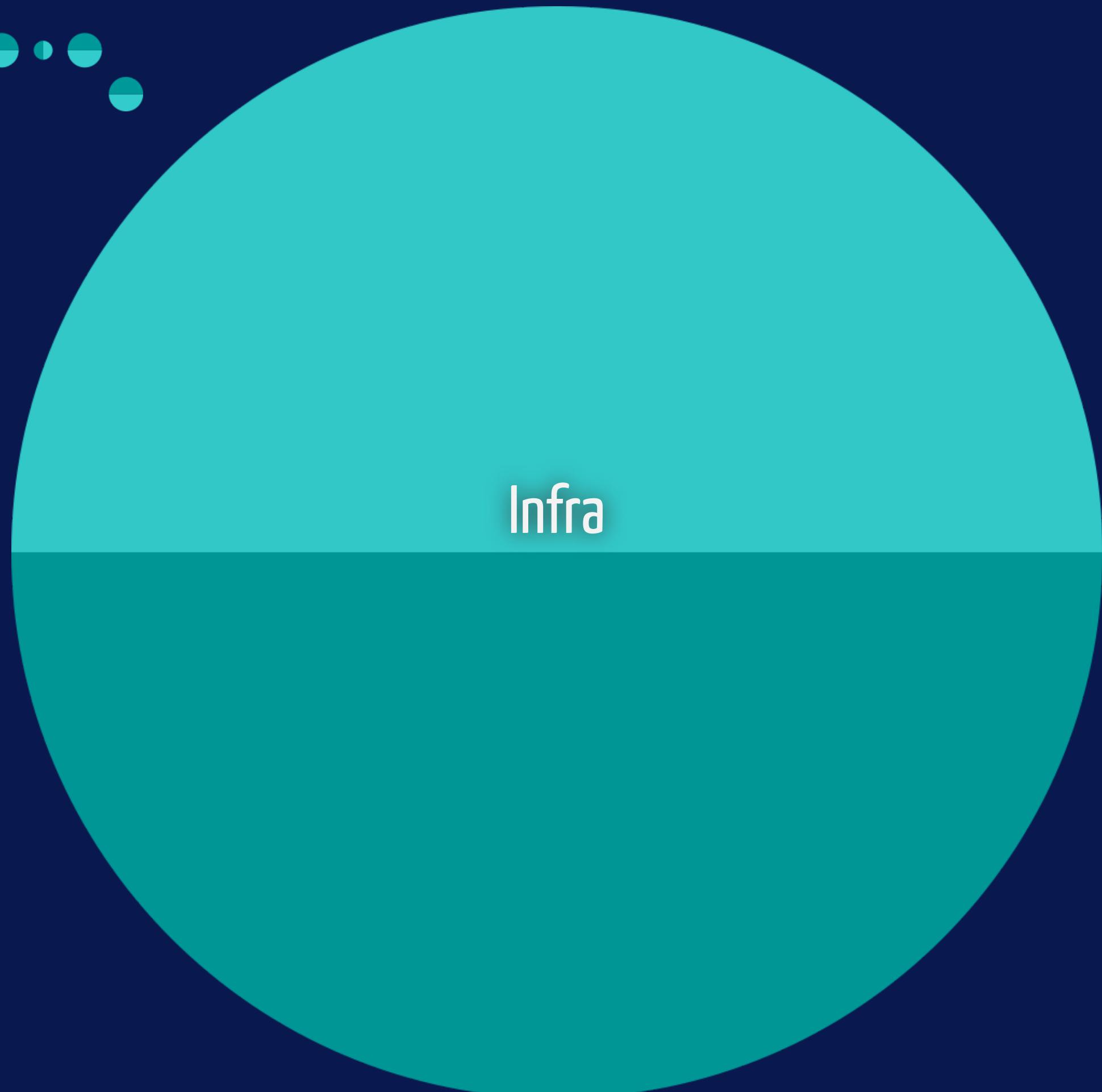
Income

Travel Budget

Paying Contributors

- We could reimburse contributors for... contributions
- The PMC defined a process in github.com/voxpupuli/community-triage/wiki/Vox-Pupuli-Bounty-Program
- Discussion on Wednesday: github.com/voxpupuli/community-triage/issues/85





Infra

Host	Operating System	Owner	Created	Installed
mirror.voxpupu.li	Ubuntu 24.04.3...	Vox Pupuli	28 days ...	N/A
ci03.voxpupu.li	Ubuntu 24.04.3...	Vox Pupuli	1 month ...	N/A
ci04.voxpupu.li	Ubuntu 24.04.3...	Vox Pupuli	1 month ...	N/A
voxpupu.li	Ubuntu 22.04.5 ...	Vox Pupuli	1 month ...	N/A
forge.voxpupu.li	Ubuntu 24.04.3...	Vox Pupuli	1 month ...	N/A
puppetserver.voxpupu.li	Ubuntu 22.04.5 ...	Vox Pupuli	11 month...	N/A

- Join our DevSecOps-Team in #sig-infrastructure if you want to help
- We run our own foreman instance and want to make that publicly available
- We use the OpenBolt Foreman Integration: github.com/overlookinfra/foreman_openbolt
 - dedicated talk tomorrow: cfp.cfgmgmtcamp.org/ghent2026/talk/DVS97G/

Infra

- We have a sponsored kubernetes cluster :happyface:

Foreman

Kubernetes



Infra

Foreman

Kubernetes

- We have a sponsored kubernetes cluster :happyface:
- We don't use it yet :sadface:



Infra

Foreman

Kubernetes

- We have a sponsored kubernetes cluster :happyface:
- We don't use it yet :sadface:
- We would like to use it as GitHub runners. Interested? Join [#sig-infrastructure](#) on IRC/Slack



Infra

- [jpartlow/kvm_automation_tooling](#) puppet module to spin up libvirt virtual machines with OpenBolt and Terraform
- Used in [github.com/OpenVoxProject/acceptance-pipelines](#) for OpenVox acceptance testing
 - Installs Agent/DB/Server packages on multiple VMs and runs beaker

Foreman

Kubernetes

Best practices



Infra

- [jpartlow/kvm_automation_tooling](#) puppet module to spin up libvirt virtual machines with OpenBolt and Terraform

Foreman

- Used in [github.com/OpenVoxProject/acceptance-pipelines](#) for OpenVox acceptance testing
 - Installs Agent/DB/Server packages on multiple VMs and runs beaker

Kubernetes

- [voxpupuli.org/docs/arch_single_server](#) documents an OpenVox reference implementation

Best practices

- [github.com/voxpupuli/reference-architecture](#) potential demo controlrepo *with multinode beaker acceptance tests*

- Interested? Join [#sig-infrastructure](#) on IRC/Slack



VoxConf

VoxConf

2025



- voxpupuli.org/voxconf



- half day conference
- 5 talks
- shared with the Foreman Birthday Party
- Vox Pupuli sponsored dinner + travel costs





- VoxConf + Foreman Birthday Party
- 16th of July (Thursday), 2026
- Atix Office, Munich
- Atix & Netways have alternately sponsored locations



2025

2026

2027

- VoxConf + Foreman Birthday Party
- Berlin



2025

- VoxConf + Foreman Birthday Party
- Berlin
- Sponsors: Atix in 2026 -> Betadots in 207 -> Netways in 2028 -> repeat

2026

2027



Conclusion

- Please join our [IRC/Slack](#) to provide feedback



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- [Foreman OpenBolt Integration Demo 17:15 in the foreman dev room](#)
- For feedback: `bastelfreak` on voxpupuli.slack.com / Libera.Chat IRC or tim@bastelfreak.de
- This talk and previous ones: github.com/bastelfreak/talks

Thanks for your attention!

