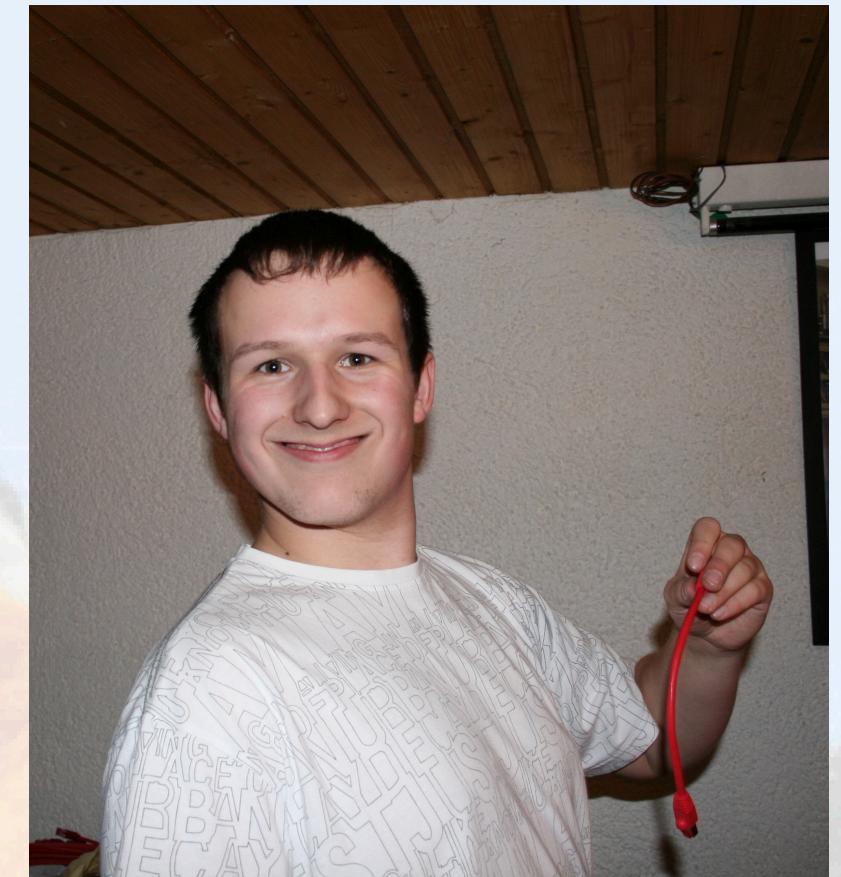


# One year OpenVoxProject

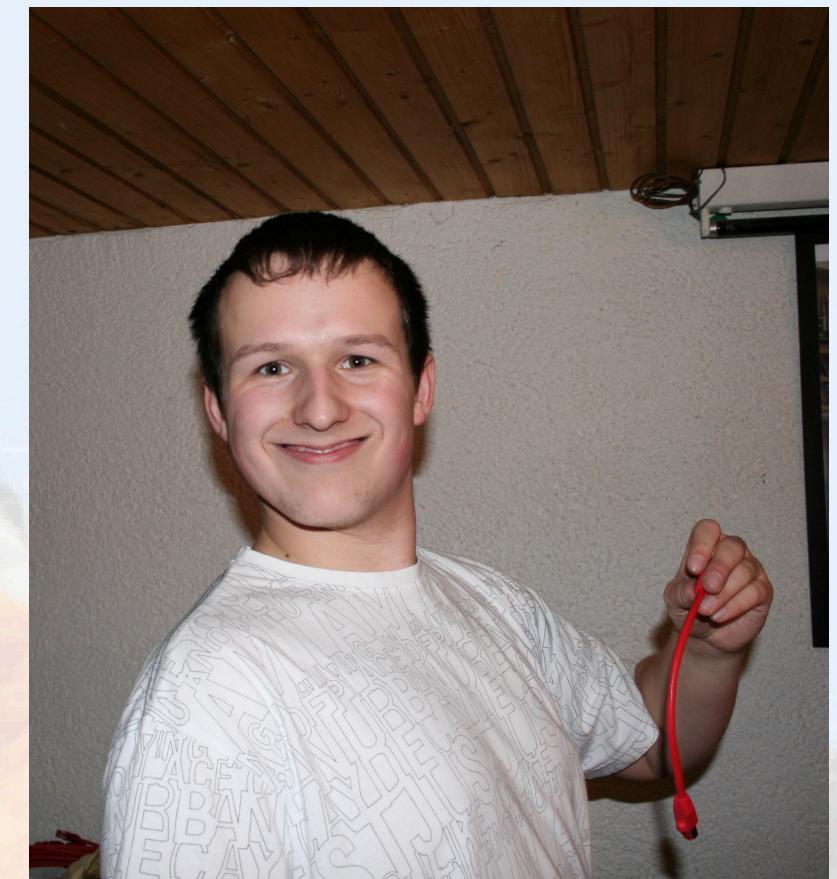
# \$ whoami

- 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

## Where are we?

We continue the open source development for the ecosystem!

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



# OpenVoxProject

## Where are we?

We continue the open source development for the ecosystem!

- All repositories have dependabot/renovate to inform us about updates
- The packaging process is documented! → [github.com/OpenVoxProject/planning/wiki/How-OpenVox-builds-work](https://github.com/OpenVoxProject/planning/wiki/How-OpenVox-builds-work)



# OpenVoxProject

## Where are we?

We continue the open source development for the ecosystem!

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- Ever wanted to add a new OS? → [github.com/OpenVoxProject/planning/wiki/Adding-support-for-new-platforms](https://github.com/OpenVoxProject/planning/wiki/Adding-support-for-new-platforms)



# OpenVoxProject

## Where are we?

We continue the open source development for the ecosystem!

- All repositories have dependabot/renovate to inform us about updates
- The packaging process is documented! → [github.com/OpenVoxProject/planning/wiki/How-OpenVox-builds-work](https://github.com/OpenVoxProject/planning/wiki/How-OpenVox-builds-work)
- Ever wanted to add a new OS? → [github.com/OpenVoxProject/planning/wiki/Adding-support-for-new-platforms](https://github.com/OpenVoxProject/planning/wiki/Adding-support-for-new-platforms)
- All pipelines are public



# OpenVoxProject

Where are we?

The screenshot shows a GitHub repository interface. At the top, there are several status indicators: a tag icon, a wrench icon, and the text "renovate bot added dependencies". Below this, another wrench icon is followed by the text "renovate labels last week". A GitHub icon is present next to the text "github-actions bot commented last week • edited". To the right of this text is a three-dot menu icon. The main content area contains a message from the "github-actions" bot: "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>". Below this message, another wrench icon is followed by the text "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](#)". To the right of this message is a "Compare" link.



Who used  
ezbake?

Who understands  
ezbake?

# OpenVoxProject

Where are we?

ezbake

OpenVoxDB /  
OpenVox-Server



# OpenVoxProject

Where are we?

ezbake

OpenVoxDB /  
OpenVox-Server

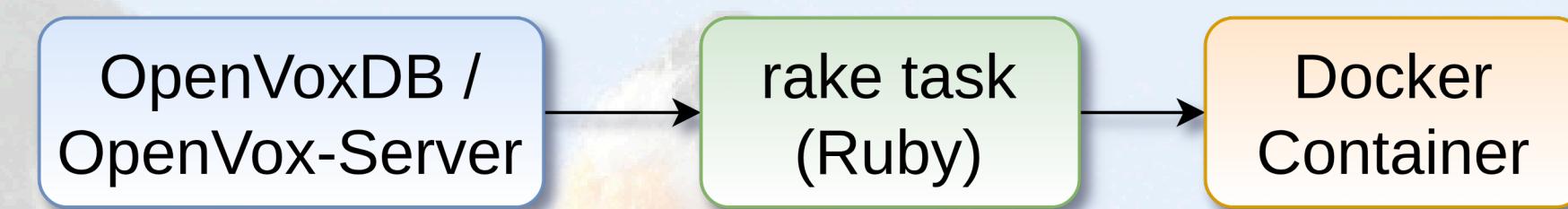
rake task  
(Ruby)



# OpenVoxProject

Where are we?

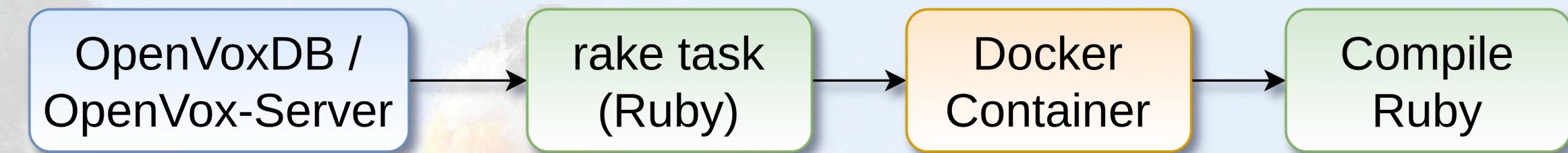
ezbake



# OpenVoxProject

Where are we?

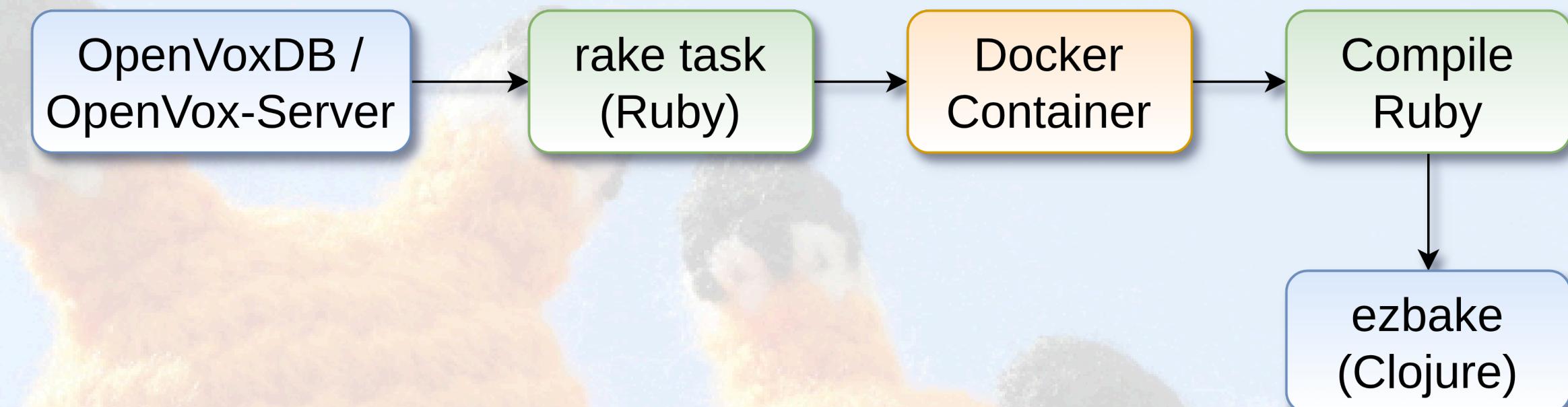
ezbake



# OpenVoxProject

Where are we?

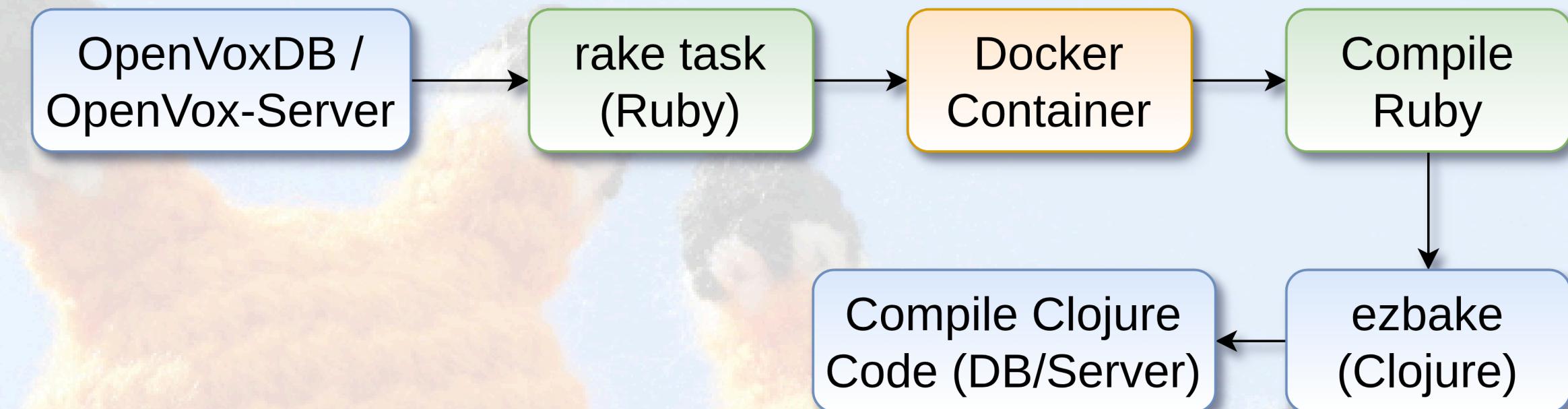
ezbake



# OpenVoxProject

Where are we?

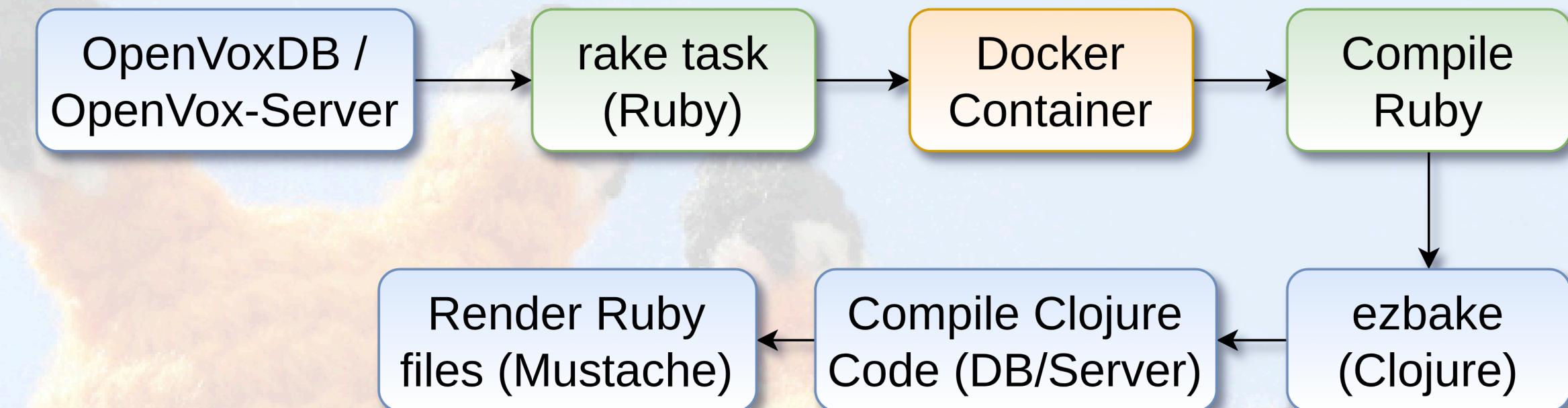
ezbake



# OpenVoxProject

Where are we?

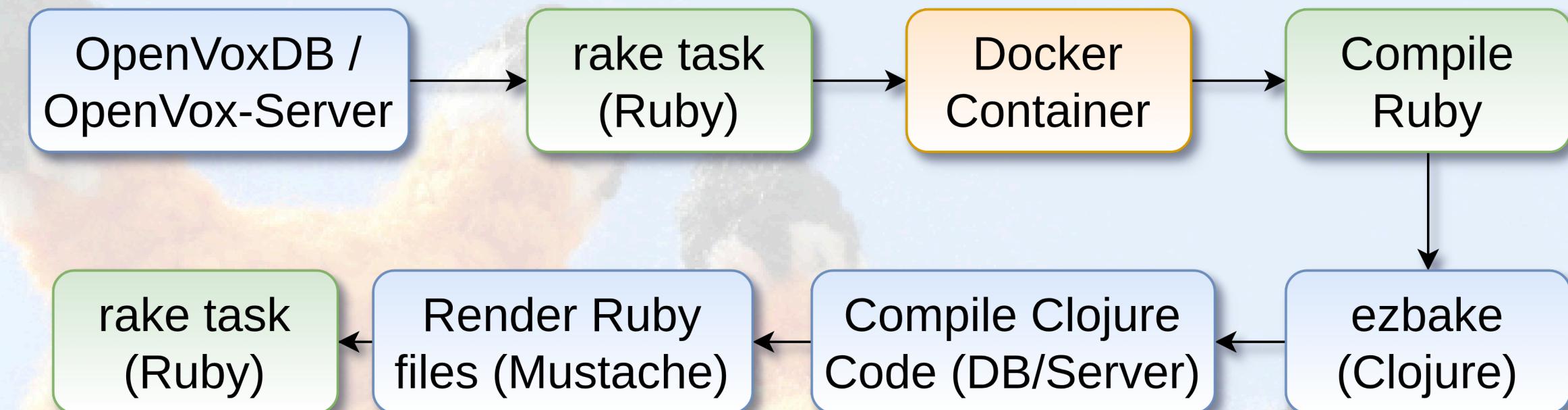
ezbake



# OpenVoxProject

Where are we?

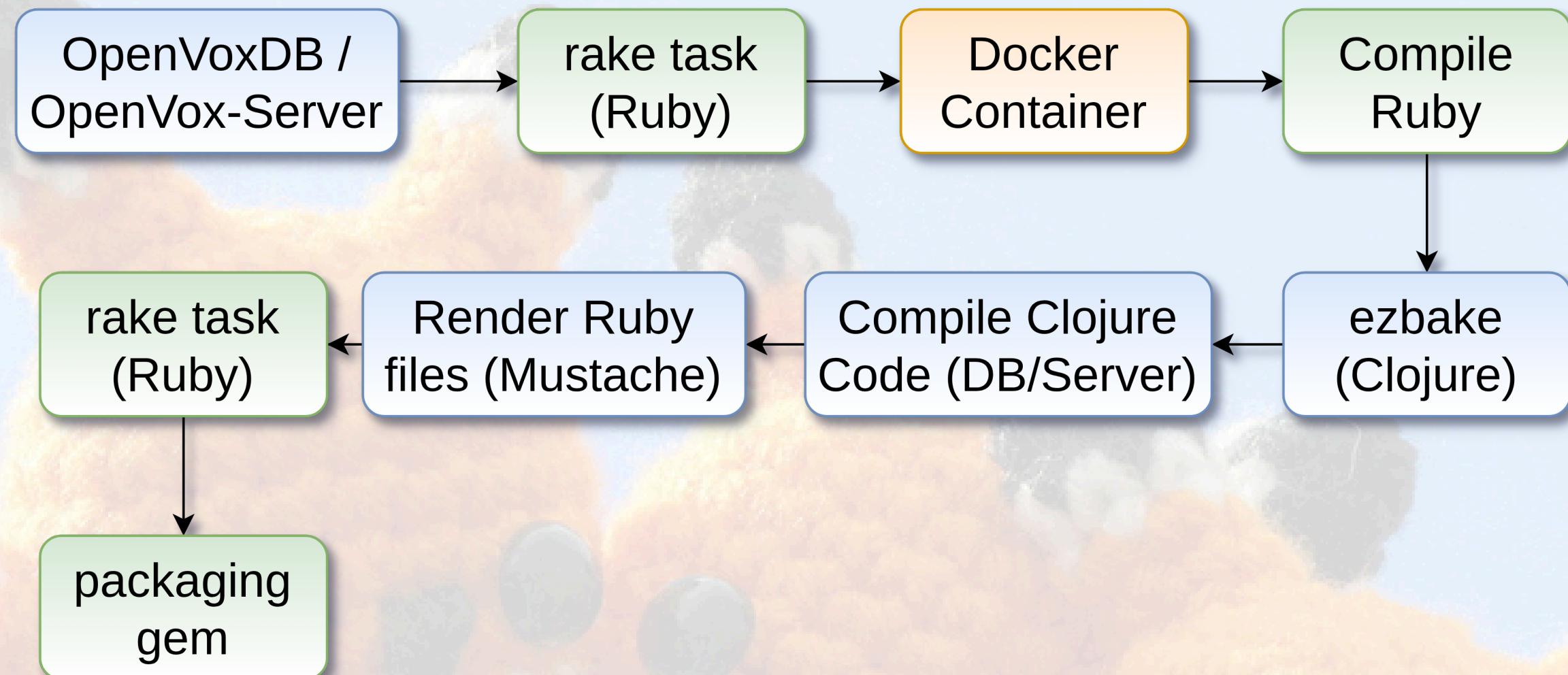
ezbake



# OpenVoxProject

Where are we?

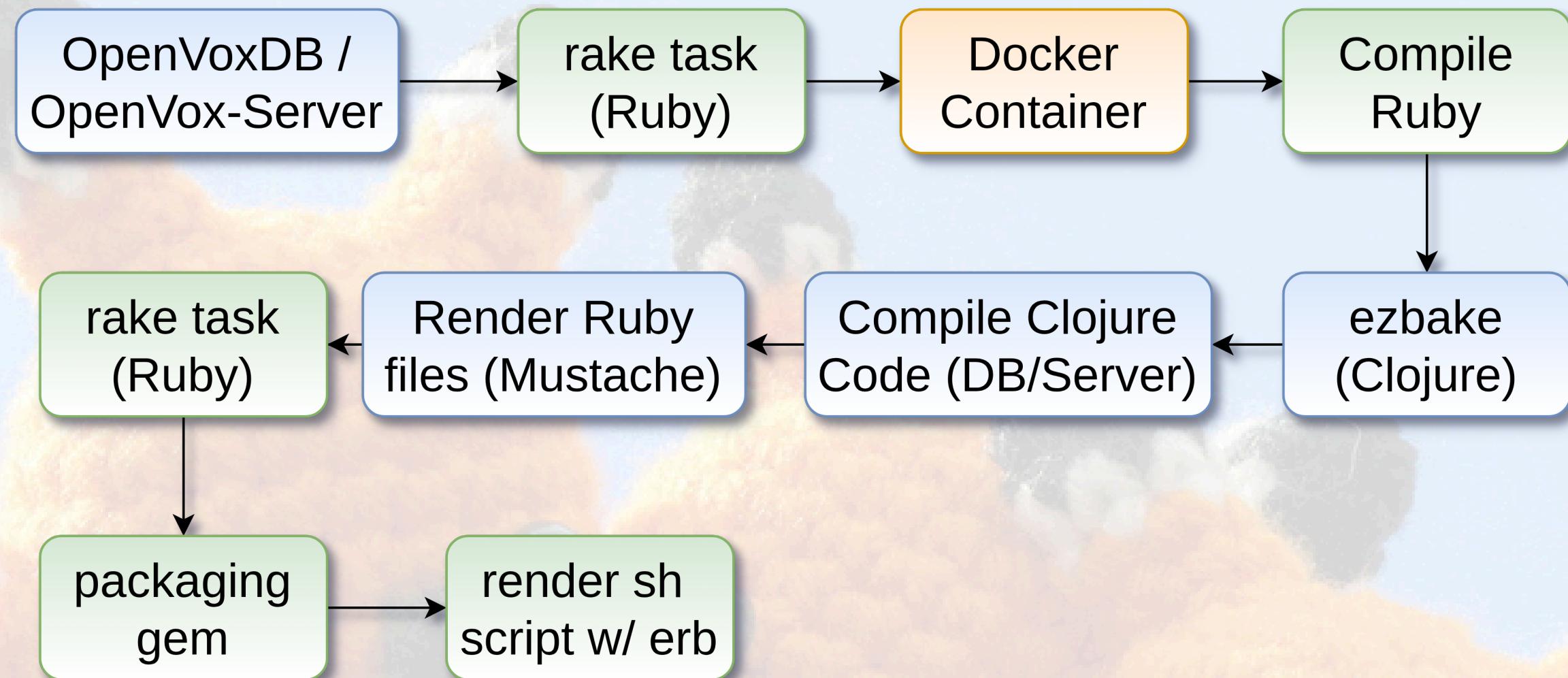
ezbake



# OpenVoxProject

Where are we?

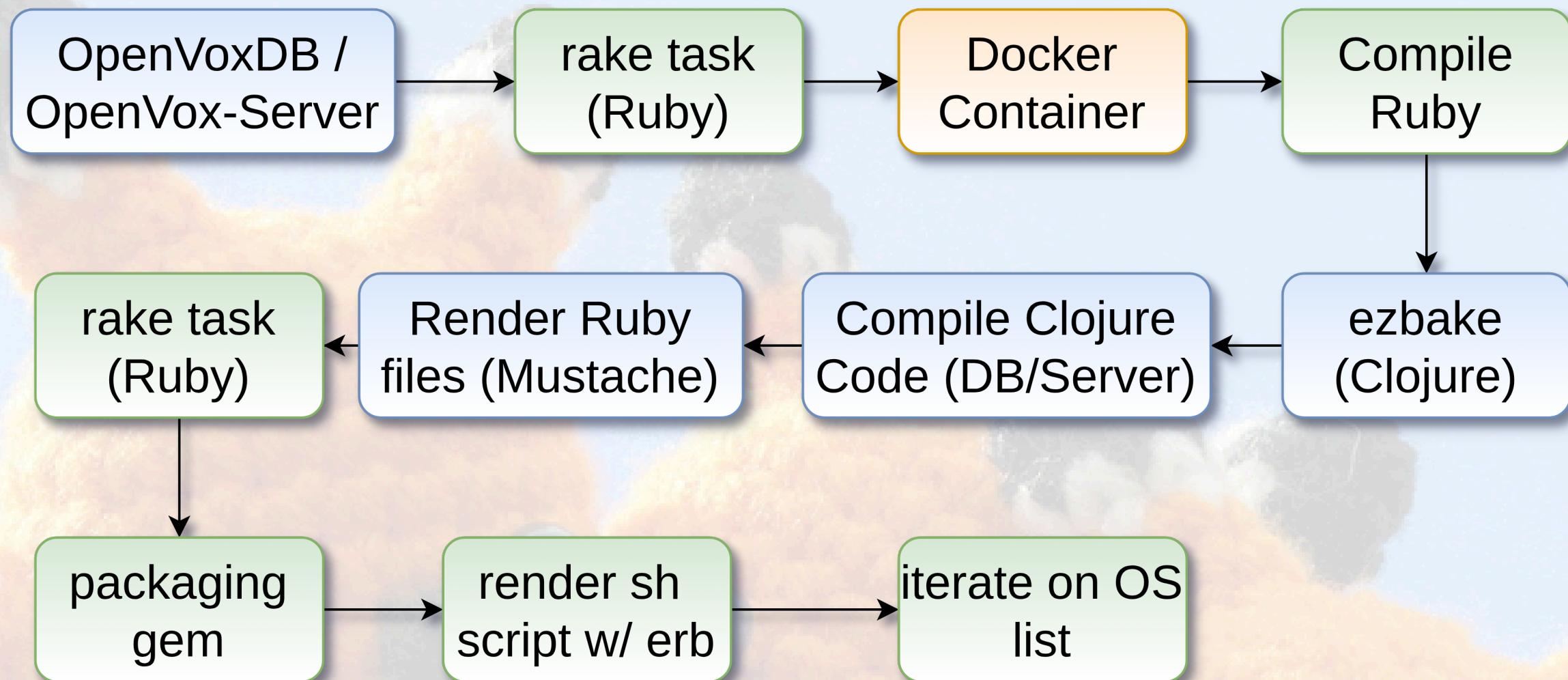
ezbake



# OpenVoxProject

Where are we?

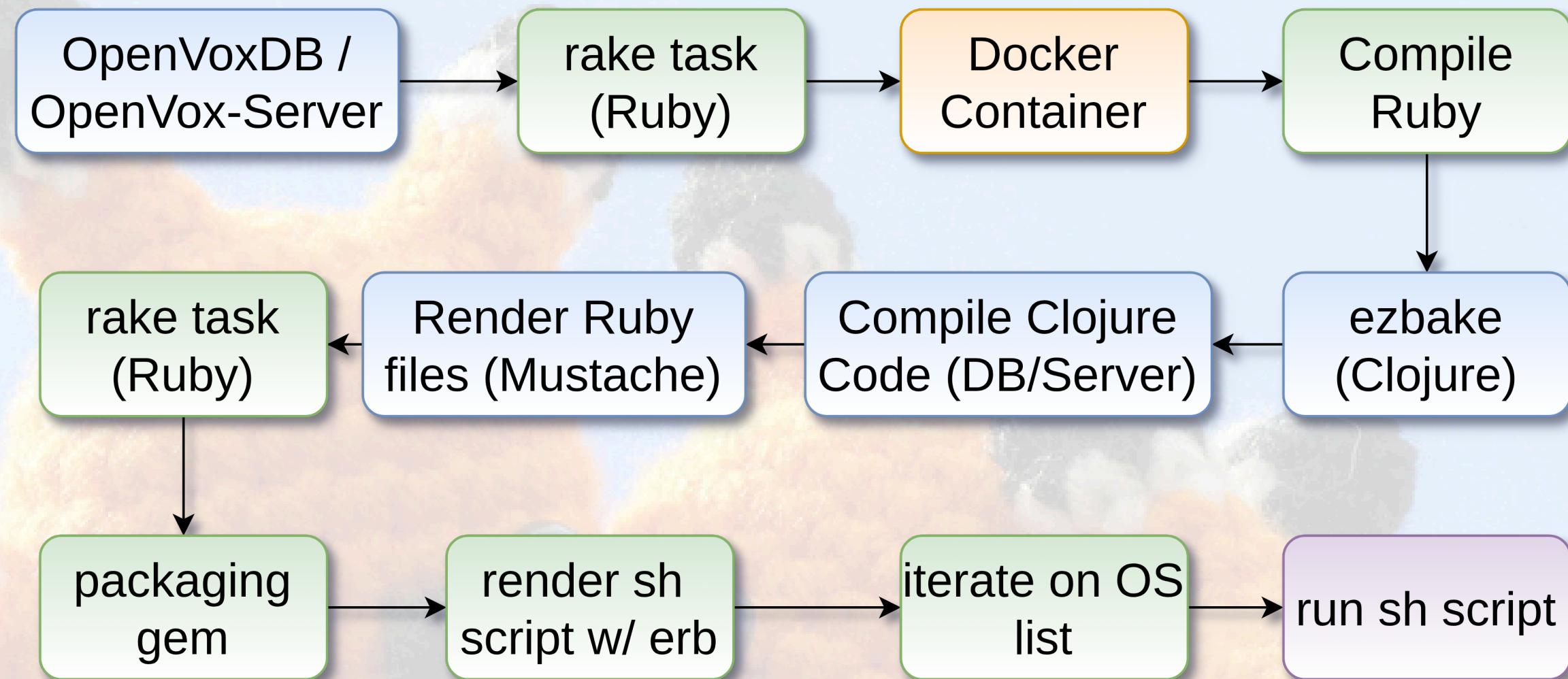
ezbake



# OpenVoxProject

Where are we?

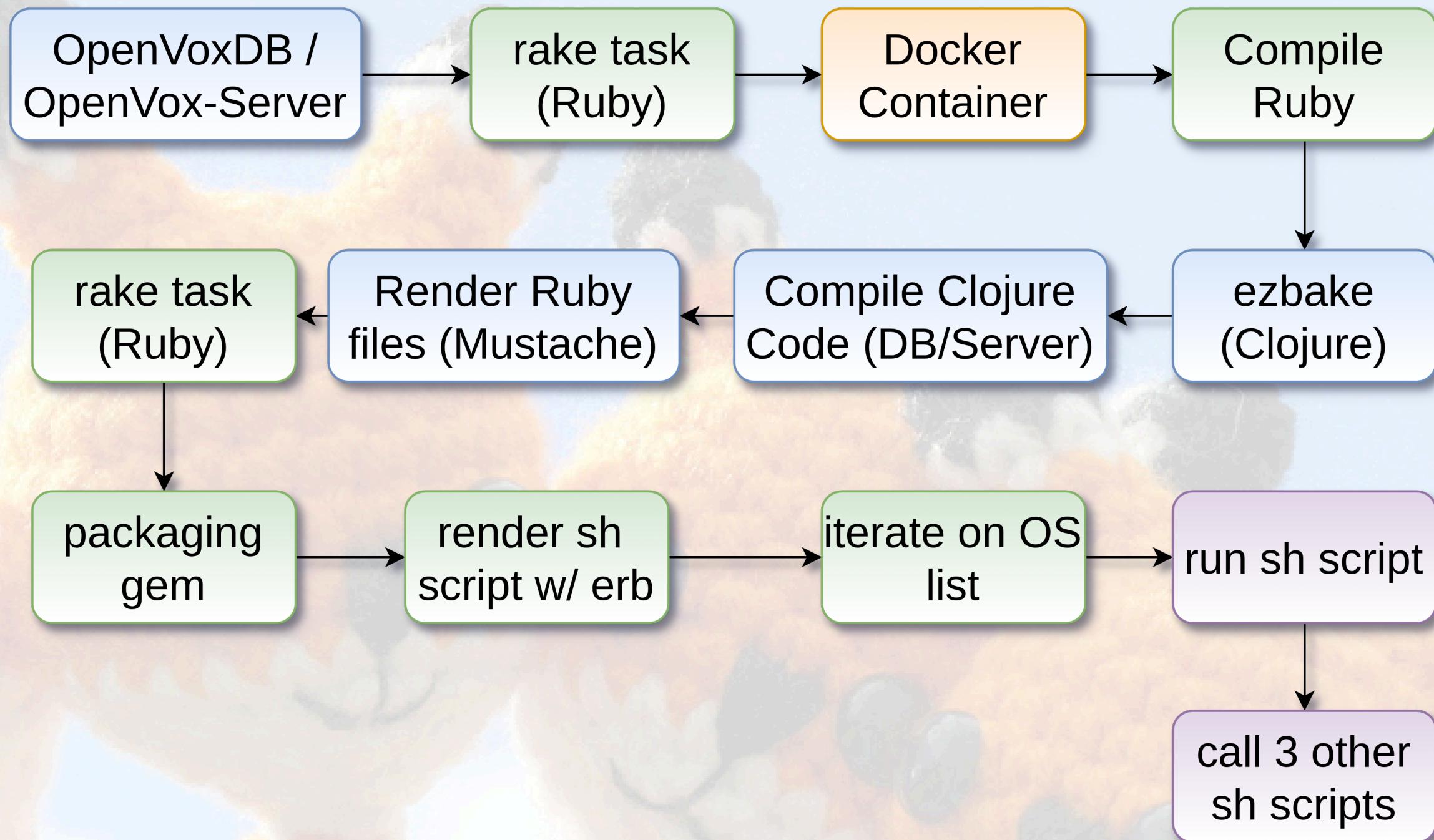
ezbake



# OpenVoxProject

Where are we?

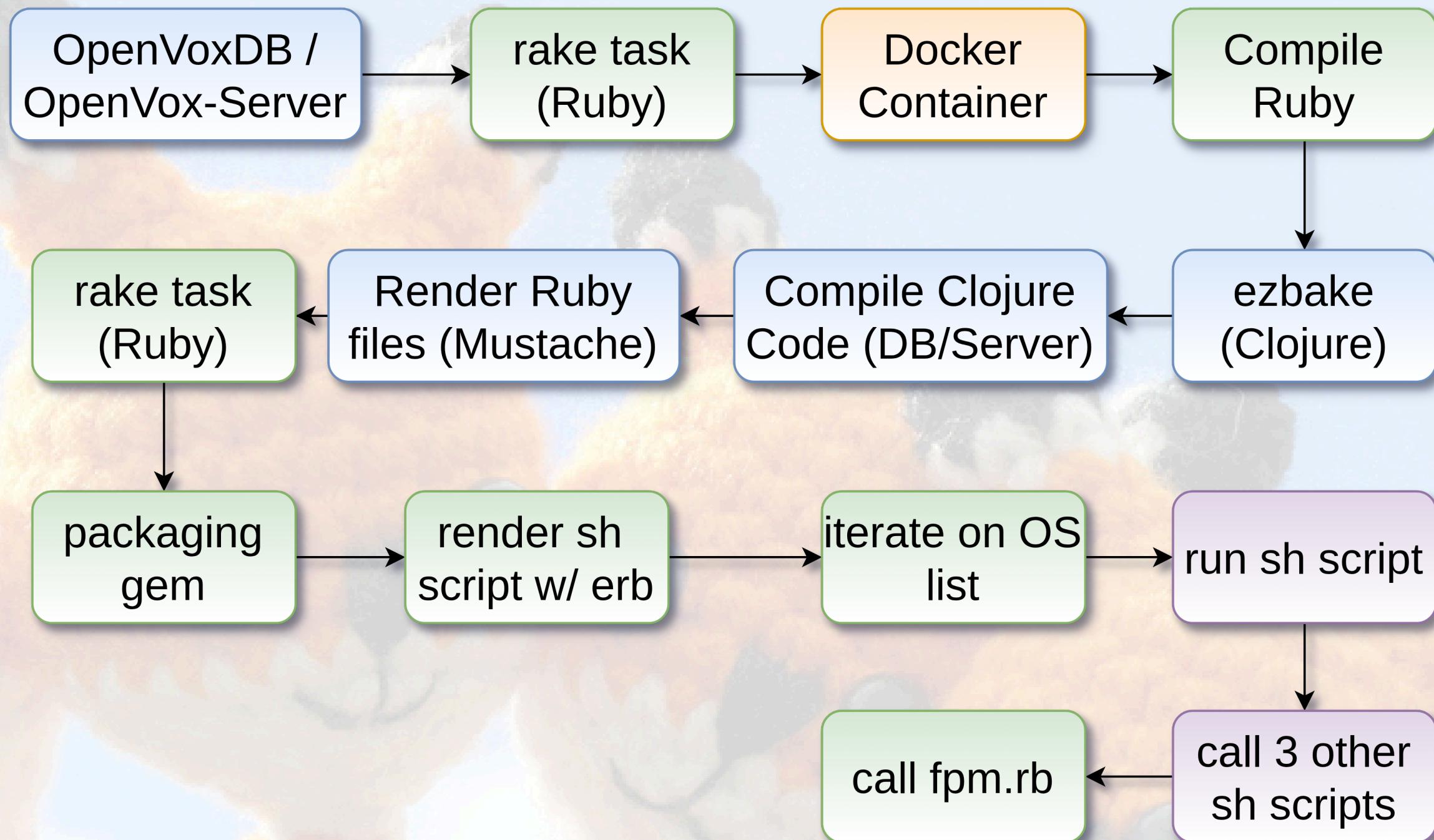
ezbake



# OpenVoxProject

Where are we?

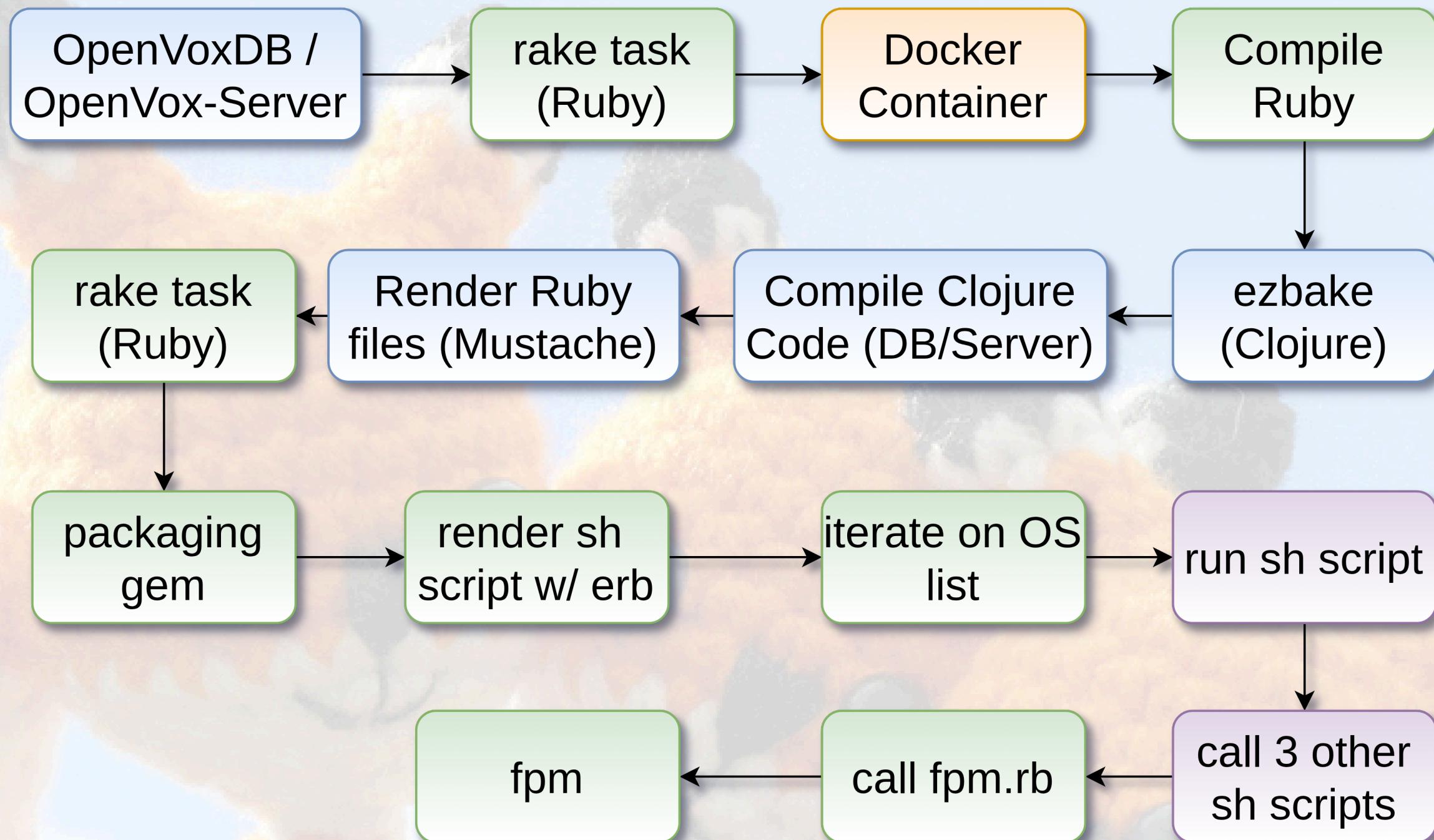
ezbake



# OpenVoxProject

Where are we?

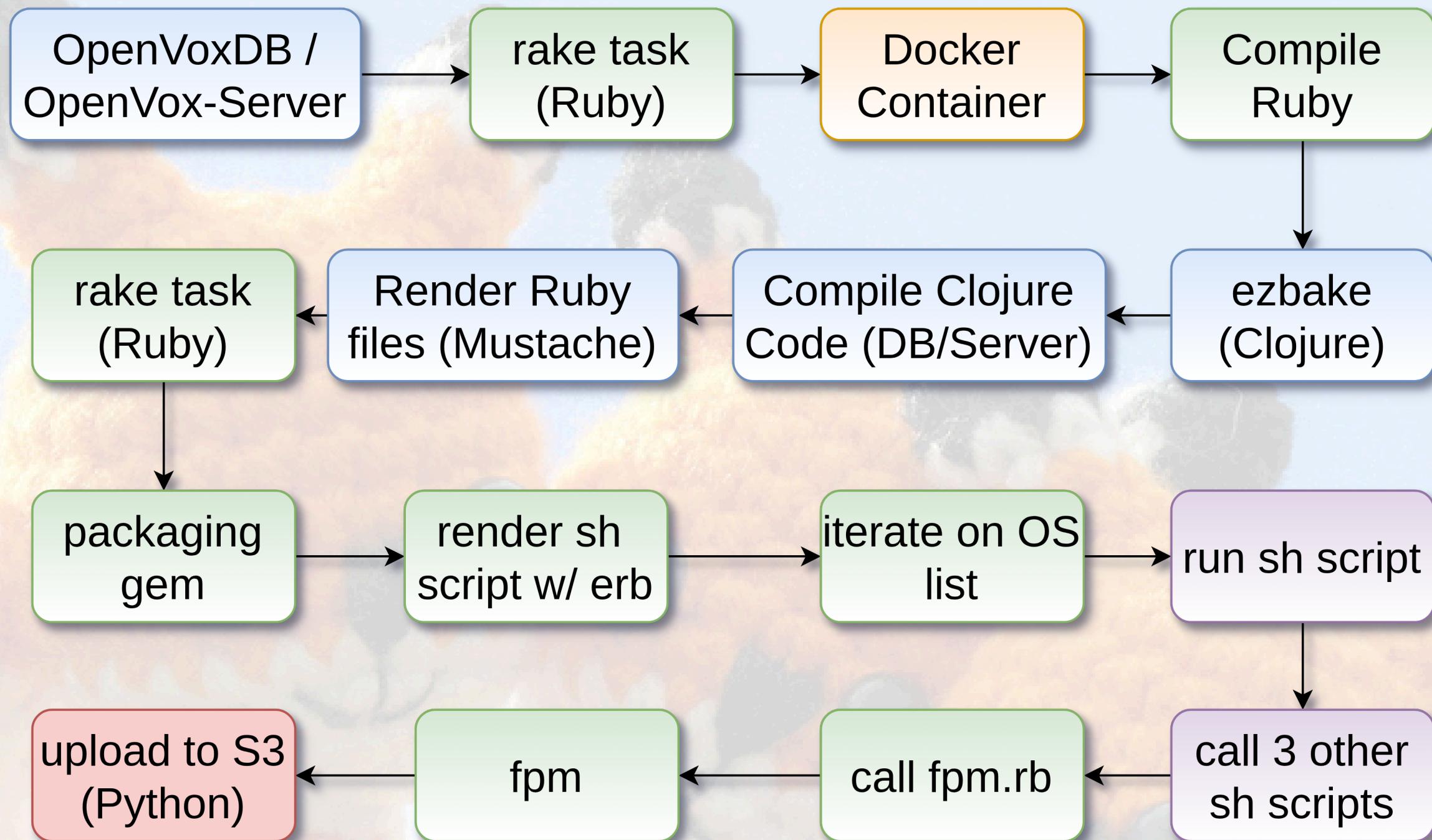
ezbake



# OpenVoxProject

Where are we?

ezbake



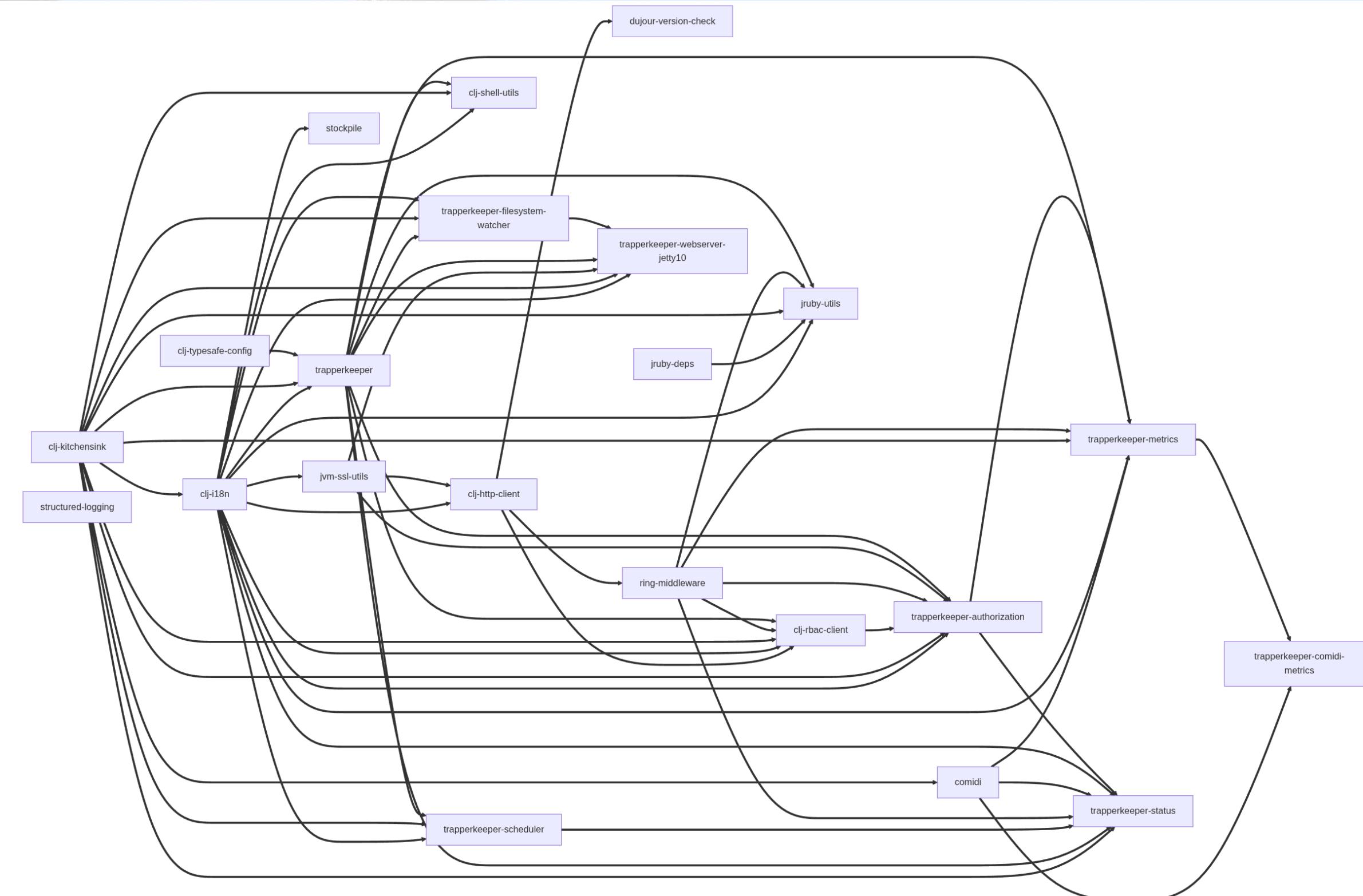
# OpenVoxProject

Where are we?

ezbake

Dependencies

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

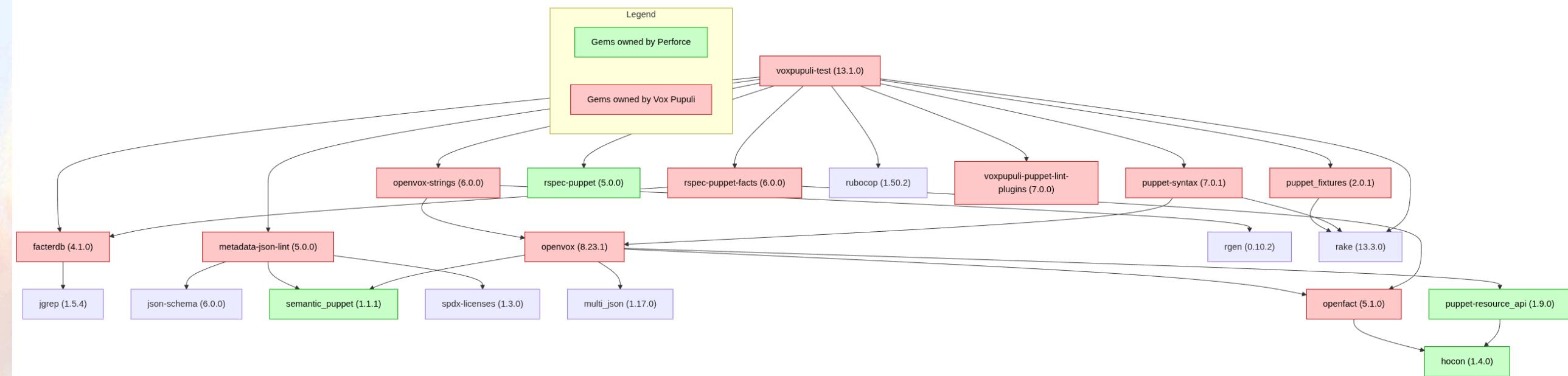


# OpenVoxProject

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](https://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](https://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](https://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 OpenVox7

- 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 OpenVox7

- 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

Drop Puppet

Drop OpenVox7

Supported platforms

For OpenVox-Server/DB/Agent & OpenBolt

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



# Community Update

Drop Puppet

Drop OpenVox7

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For OpenVox-Server/DB/Agent & OpenBolt

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



# Community Update

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Drop OpenVox7

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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)



# Community Update

Drop Puppet

Drop OpenVox7

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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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- 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

Drop Puppet

Drop OpenVox7

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!



# Community Update

Drop Puppet

Drop OpenVox7

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
  - ARMHF in the making!
- Ubuntu 20.04, 22.04, 24.04, 25.04
  - X86, AARCH64
  - ARMHF in the making!



# Community Update

Drop Puppet

Drop OpenVox7

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 OpenVox7

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 OpenVox7

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 OpenVox7

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 OpenVox7

Supported platforms

Release train!

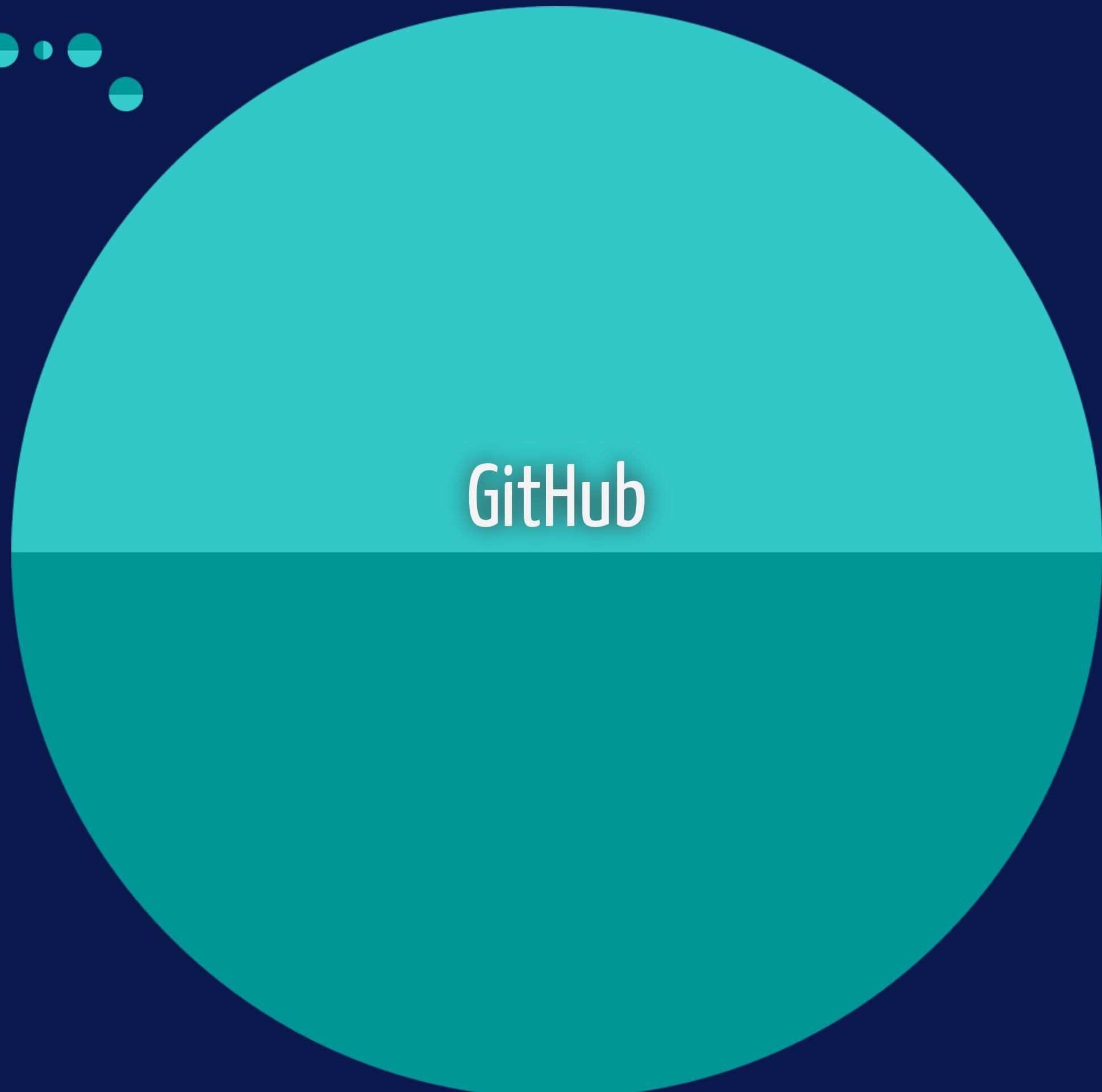
New logo!

# OpenVox



- Available in our repo: [github.com/voxpupuli/logos](https://github.com/voxpupuli/logos)

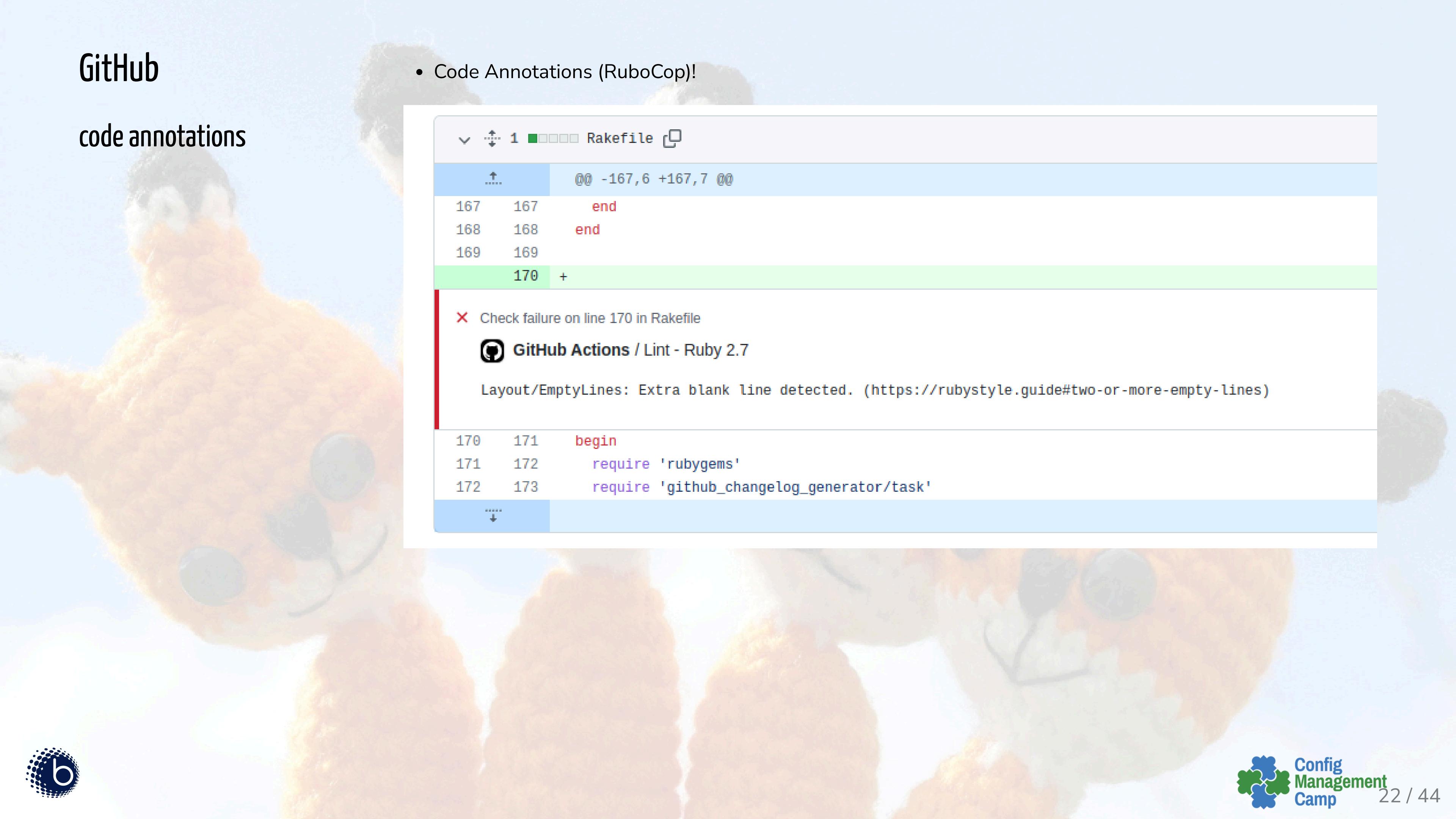




GitHub

## code annotations

- Code Annotations (RuboCop)!



```
1  Rakefile
```

	167	168	169	170	171	172	173
...	167	168	169	170	171	172	173
	end	end		+	begin	require 'rubygems'	require 'github_changelog_generator/task'
				....			

Check failure on line 170 in Rakefile

GitHub Actions / Lint - Ruby 2.7

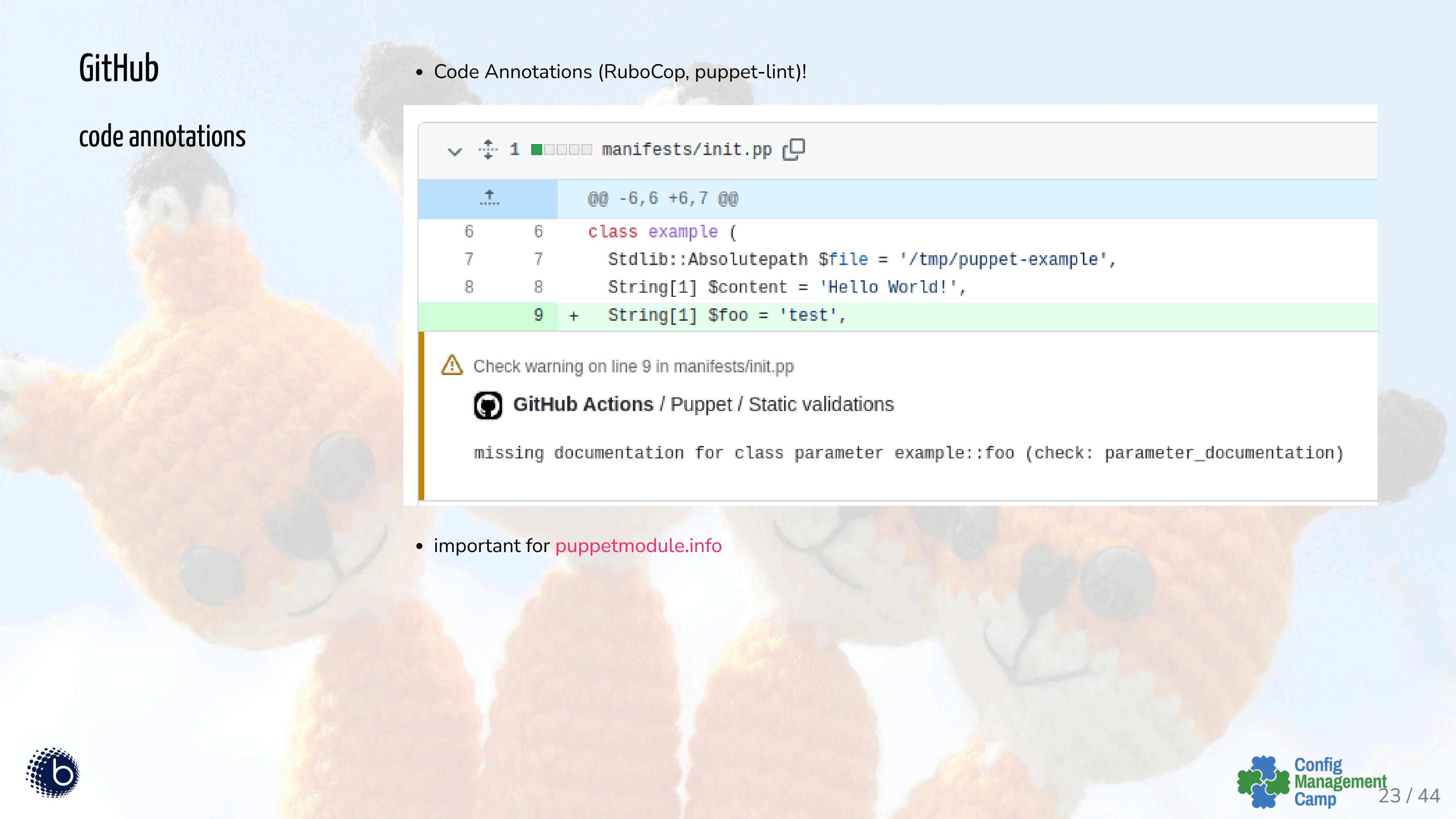
Layout/EmptyLines: Extra blank line detected. (<https://rubystyle.guide#two-or-more-empty-lines>)

```
167 168 169 170 171 172 173
```

```
end end + begin require 'rubygems' require 'github_changelog_generator/task'
```

## code annotations

- Code Annotations (RuboCop, puppet-lint)!



A screenshot of a GitHub pull request interface showing code annotations. The file being reviewed is `manifests/init.pp`. A specific line of code is highlighted with a green background:

```
 6   6  class example (
 7   7    Stdlib::Absolutepath $file = '/tmp/puppet-example',
 8   8    String[1] $content = 'Hello World!',
 9 +  String[1] $foo = 'test',
```

An annotation for line 9 is shown with a warning icon:

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

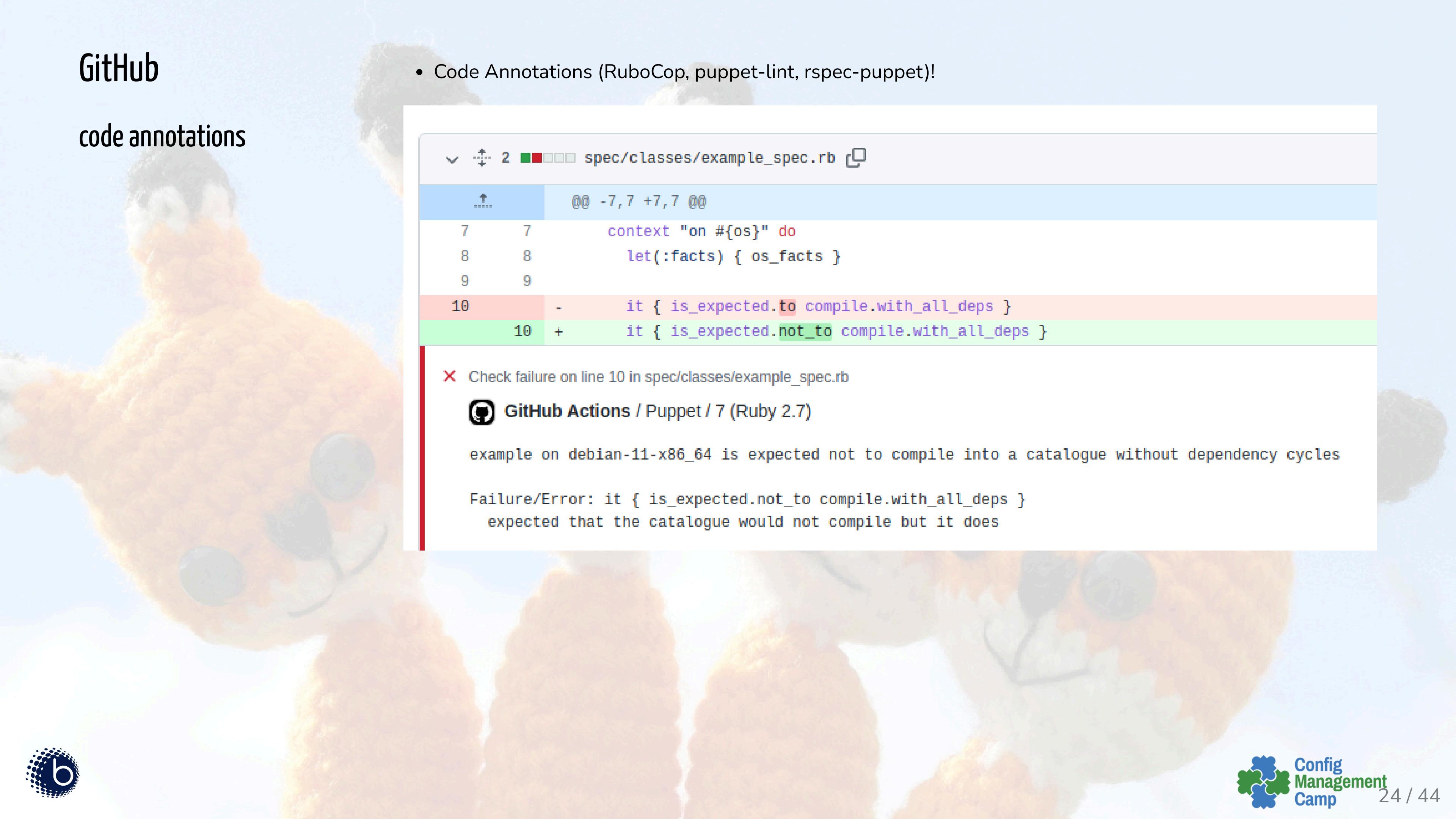
**GitHub Actions / Puppet / Static validations**

missing documentation for class parameter example::foo (check: parameter\_documentation)

- important for `puppetmodule.info`

## code annotations

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



```
✓ ✨ 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

## 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



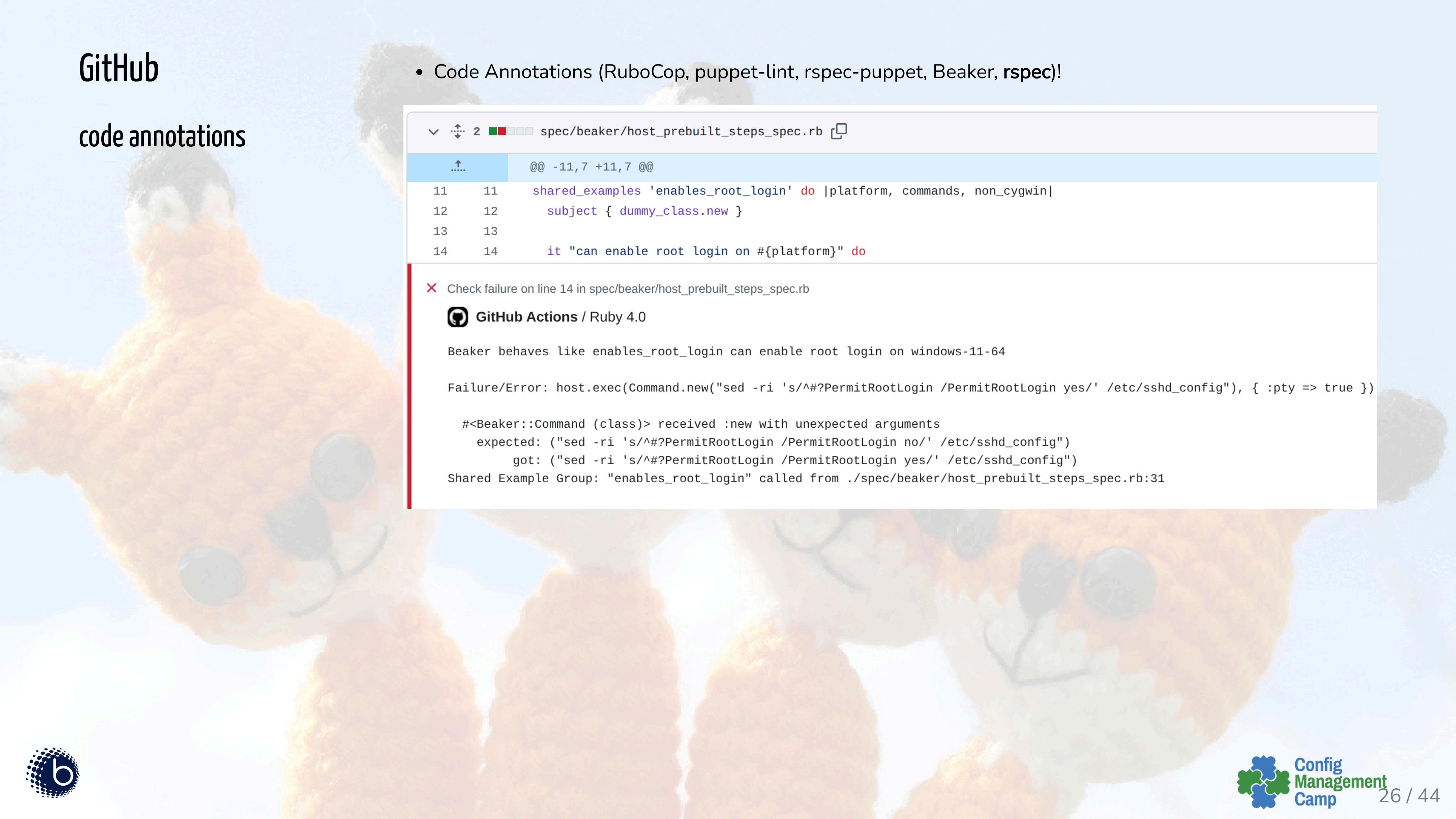
**GitHub Actions** / Puppet / Puppet 8 - OracleLinux 7 - Zabbix 6.0

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

## code annotations

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



```
✓ ⏷ 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

- 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" "\n"Unexpected 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: \$3,872.42 consumed usage



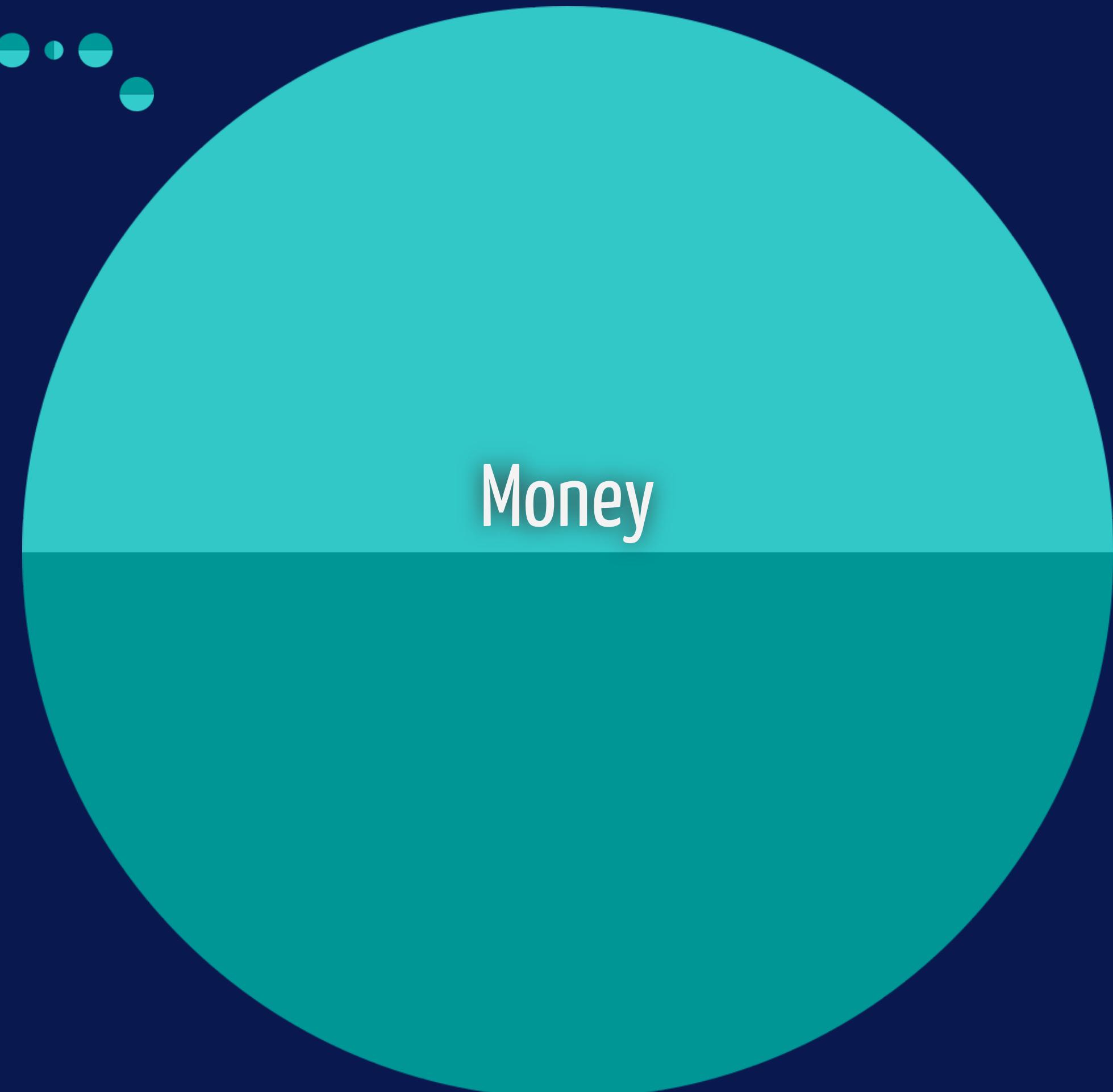
GitHub

code annotations

CI costs

- GitHub Actions 2025: \$11,993.91 consumed usage
- GitHub Actions 2025: \$5.49 billable usage
- GitHub Action January 2026: \$3,872.42 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

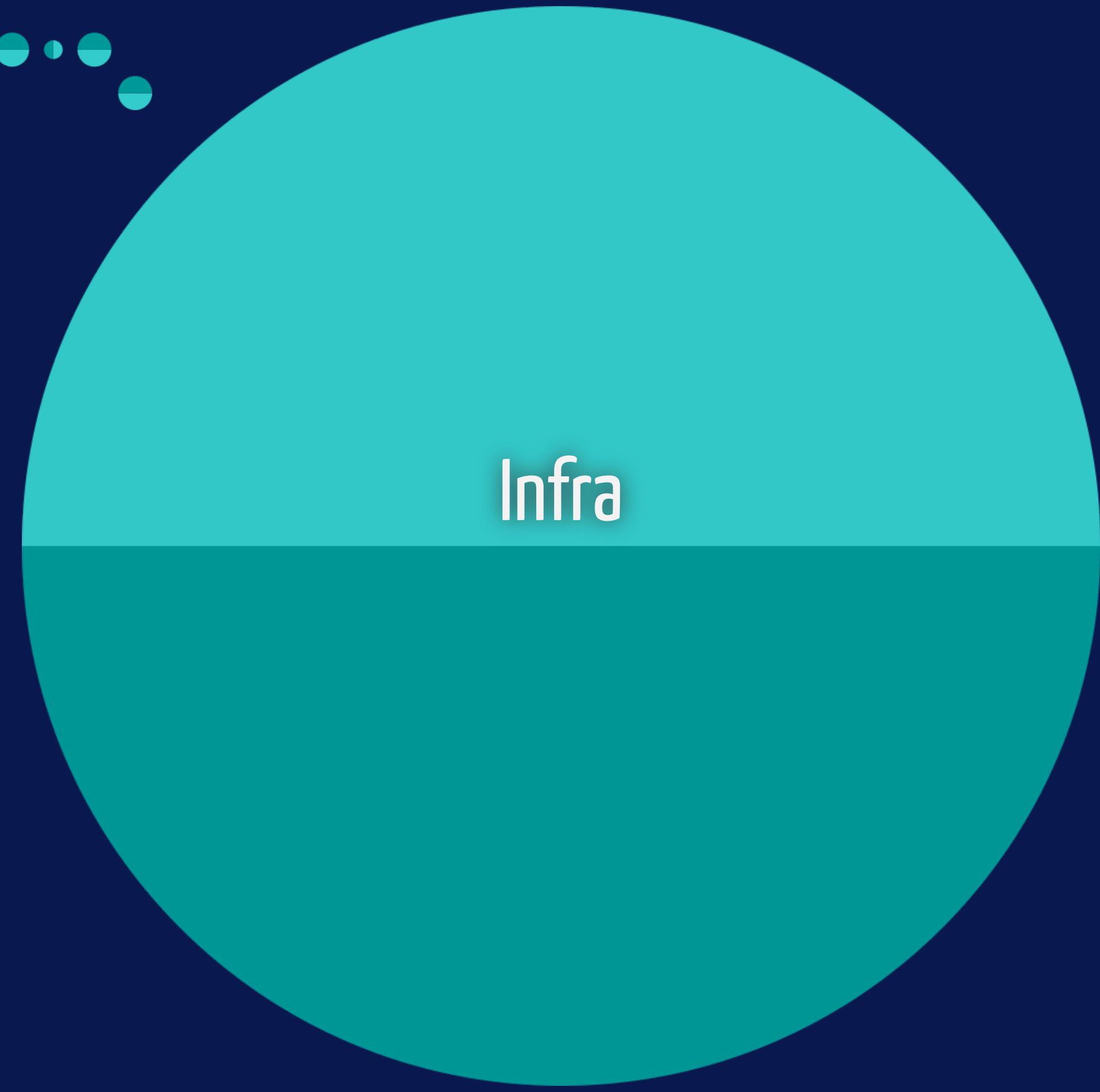
## Income

## 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](https://github.com/voxpupuli/community-triage/wiki/Vox-Pupuli-Bounty-Program)
- Discussion on Wednesday: [github.com/voxpupuli/community-triage/issues/85](https://github.com/voxpupuli/community-triage/issues/85)





Infra

# Infra

## Foreman

Host	Operating System	Owner	Created	Installed
<a href="#">mirror.voxpupu.li</a>	Ubuntu 24.04.3...	Vox Pupuli	28 days ...	N/A
<a href="#">ci03.voxpupu.li</a>	Ubuntu 24.04.3...	Vox Pupuli	1 month ...	N/A
<a href="#">ci04.voxpupu.li</a>	Ubuntu 24.04.3...	Vox Pupuli	1 month ...	N/A
<a href="#">voxpupu.li</a>	Ubuntu 22.04.5 ...	Vox Pupuli	1 month ...	N/A
<a href="#">forge.voxpupu.li</a>	Ubuntu 24.04.3...	Vox Pupuli	1 month ...	N/A
<a href="#">puppetserver.voxpupu.li</a>	Ubuntu 22.04.5 ...	Vox Pupuli	11 month...	N/A

- Join our DevSecOps-Team in #sig-infrastructure to help
- We run our own public foreman instance
- We use the OpenBolt Foreman Integration: [github.com/overlookinfra/foreman\\_openbolt](https://github.com/overlookinfra/foreman_openbolt)
  - [dedicated talk 17:15-17:40, B.1.031](#)





Infra

- We have a sponsored kubernetes cluster :happyface:

Foreman

Kubernetes



Infra

Foreman

Kubernetes

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- 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

Foreman

Kubernetes

Best practices

- [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



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Best practices

- [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
- [voxpupuli.org/docs/arch\\_single\\_server](#) documents an OpenVox reference implementation
- [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](http://voxpupuli.org/voxconf)



# VoxConf

2025

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





# VoxConf

2025

2026

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



# VoxConf

2025

2026

2027

- VoxConf + Foreman Birthday Party
- Berlin



# VoxConf

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



# Conclusion

- Please join our [IRC/Slack](#) to provide feedback
- Review and comment our topics for Wednesday: [github.com/orgs/voxpupuli/projects/14](https://github.com/orgs/voxpupuli/projects/14)



# Conclusion

- Please join our [IRC/Slack](#) to provide feedback
- Review and comment our topics for Wednesday: [github.com/orgs/voxpupuli/projects/14](https://github.com/orgs/voxpupuli/projects/14)
- Come to VoxConf 2026 and submit talks!
  - There will be a travel budget again



# Conclusion

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- Review and comment our topics for Wednesday: [github.com/orgs/voxpupuli/projects/14](https://github.com/orgs/voxpupuli/projects/14)
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- [Foreman OpenBolt Integration Demo 17:15 in the foreman dev room](#)



# Conclusion

- Please join our [IRC/Slack](#) to provide feedback
- Review and comment our topics for Wednesday: [github.com/orgs/voxpupuli/projects/14](https://github.com/orgs/voxpupuli/projects/14)
- Come to VoxConf 2026 and submit talks!
  - There will be a travel budget again
- [Foreman OpenBolt Integration Demo 17:15](#) *in the foreman dev room*
- For feedback: [bastelfreak](#) on [voxpupuli.slack.com](https://voxpupuli.slack.com) / Libera.Chat IRC or [tim@bastelfreak.de](mailto:tim@bastelfreak.de)
- This talk and previous ones: [github.com/bastelfreak/talks](https://github.com/bastelfreak/talks)

Thanks for your attention!

