

Automating the Vox Pupuli Yak Shaving

Automate all the yak shaving!

\$ whoami

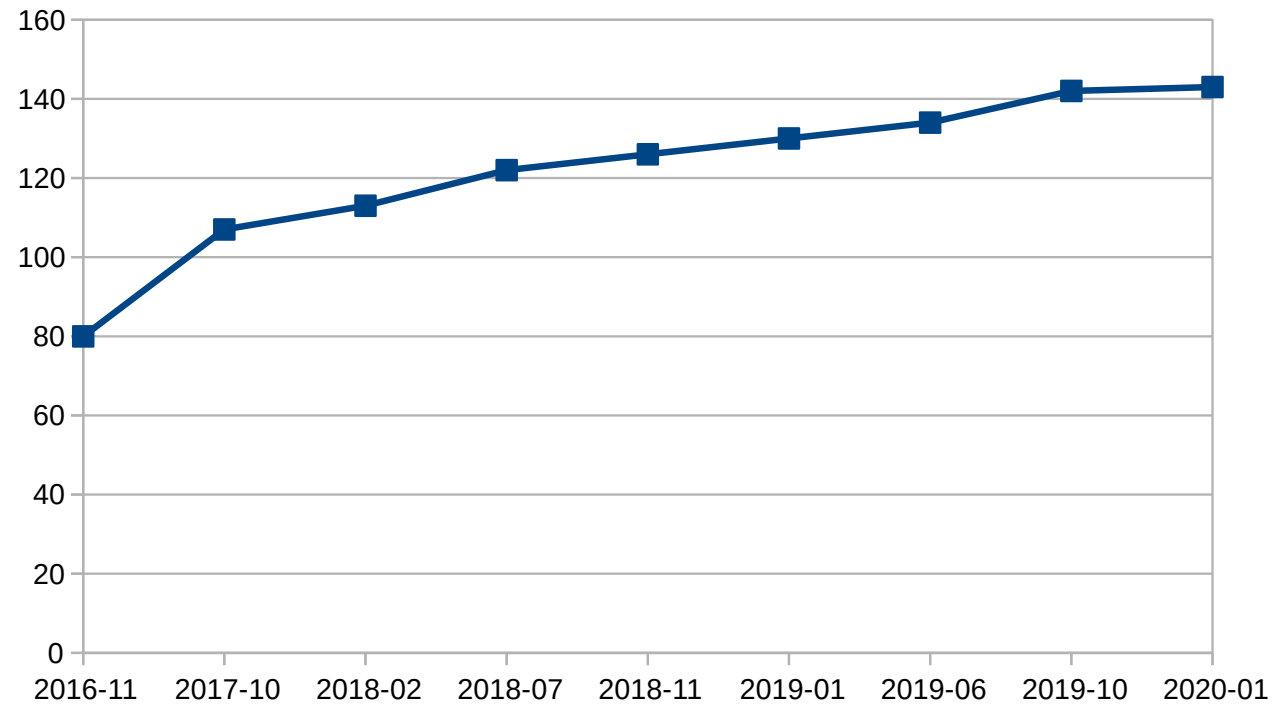
- Tim 'bastelfreak' Meusel
- Puppet Contributor since 2012
- Merging stuff on **Vox Pupuli** (Puppet Community) since 2015
- Vox Pupuli Project Management Committee member



What's this Vox Pupuli thingy?

Vox Pupuli

- Amount of Vox Pupuli members with merge permissions



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The path of a Open Source Maintainer...

What do we do?

Yak shaving

Dependencies



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Yak shaving

Dependencies

```
10     "dependencies": [  
11         {  
12             "name": "puppetlabs/concat",  
13             "version_requirement": ">= 4.1.0 < 7.0.0"  
14         },  
15         {  
16             "name": "puppetlabs/stdlib",  
17             "version_requirement": ">= 4.25.0 < 7.0.0"  
18         }  
19     ],
```

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Yak shaving

Dependencies

```
59     "requirements": [  
60         {  
61             "name": "puppet",  
62             "version_requirement": ">= 5.5.8 < 7.0.0"  
63         }  
64     ]
```

Yak shaving

Dependencies

```
29         "operatingsystem": "RedHat",
30         "operatingsystemrelease": [
31             "6",
32             "7"
33         ]
34     },
```

Yak shaving

Dependencies

Labels

	19 labels
	backwards-incompatible
	beginner-friendly
	bug
	docs
	duplicate

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Yak shaving

Dependencies

Labels

Modulesync

- Many files are identical across our modules
 - CONTRIBUTING.md, rspec configuration
- Many files are very similar
 - .travis.yml, Gemfile, Rakefile

Yak shaving

Dependencies

Labels

Modulesync

- modulesync was initially developed by Puppet Inc.
- Now maintained by Vox Pupuli
- a template directory + configuration file for every module

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Yak shaving

Dependencies

Labels

Modulesync

Releases

Found 124 modules by Vox Pupuli

Filter by Puppet version:

Sort by:



prometheus
puppet

This module installs, configures and manages the Prometheus service.
Version 8.2.1

APPROVED

Updated **4 days ago**
Total downloads **772,957**
Quality score **4.9** ⓘ



nginx
puppet

Puppet NGINX management module
Version 1.1.0

APPROVED

Updated **4 days ago**
Total downloads **47,012,744**
Quality score **4.2** ⓘ

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The path of a Open Source Maintainer...

What do we actually do?

Reviews

- We have many pull requests

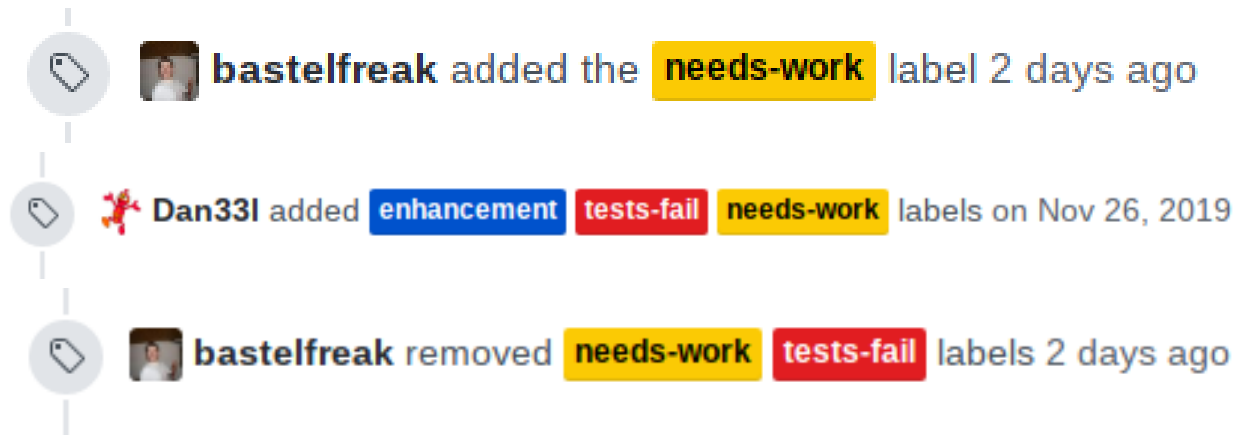
Created	Assigned	Mentioned	Review requests	is:open is:pr user:voxpupuli archived:false sort:created-desc
🔔 454 Open ✓ 18,193 Closed				Visibility ▾ Organization ▾ Sort ▾
🔔 voxpupuli/puppet-collectd Mce log ✖				
#904 opened 11 hours ago by MichalRebisz				
🔔 voxpupuli/puppetboard Fixing the requirements.txt as it's breaking Puppetboard. ✓				💬 1
#547 opened 2 days ago by pjonesIDBS				
🔔 voxpupuli/puppet-syntax Drop legacy code to support Puppet < 5 and Ruby < 2.4 ✓				
#120 opened 3 days ago by ekohl				
🔔 voxpupuli/puppet-drbd fix resource not defined in your config (for this host) for fqdn ✓				
#100 opened 3 days ago by efoft				

- All open PRs
- All open PRs with green CI
- All open PRs with green CI and no merge conflicts

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Reviews

More labels



- New feature? enhancement label
- Bug / Bugfix? bug label
- Breaking change? backwards-incompatible label
- Additional work required? needs-work label

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Reviews

More labels

Filtering:

- labels like needs-feedback, needs-work, tests-fail, needs-docs, beginner-friendly, needs-rebase help us to sort pull requests and issues by grouping them

Changelog:

- labels like bug, enhancement, backwards-incompatible help us to generate a CHANGELOG.md

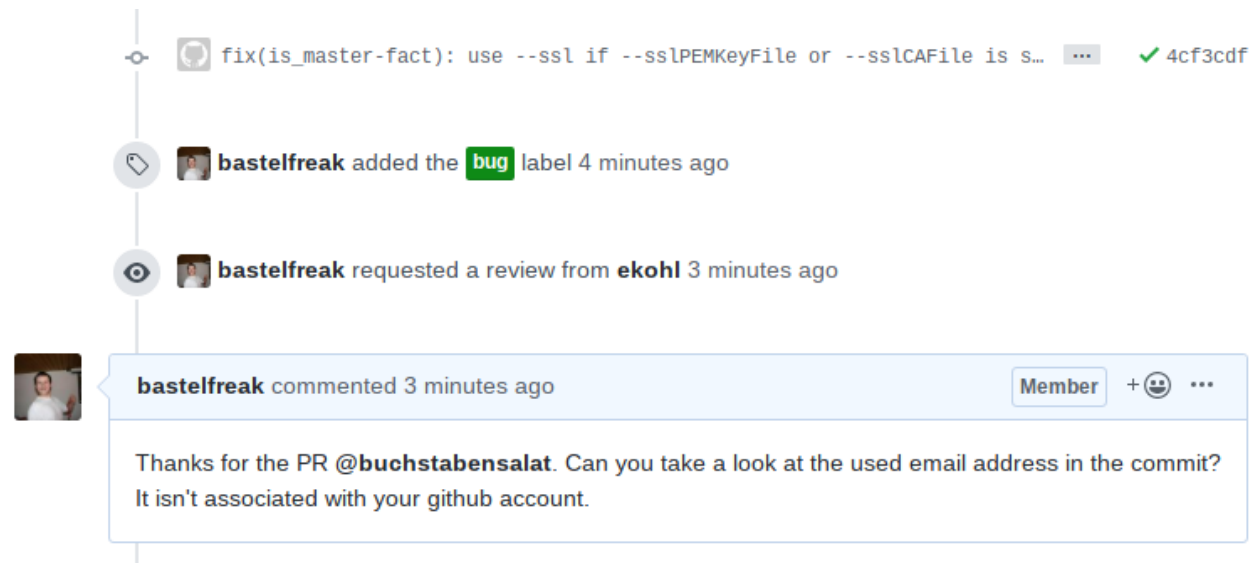
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Reviews

More labels

Email Addresses

- Ensure that an author has their email address in Git and github.com in sync
 - Otherwise GitHub fails to account the contribution properly



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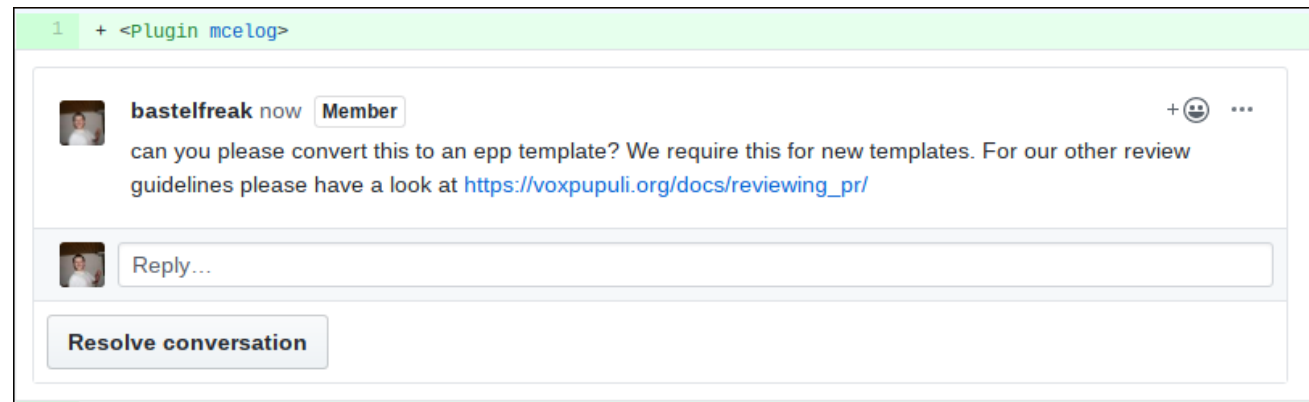
Reviews

More labels

Email Addresses

Templates

- Ensure that new templates are always **epp**, not **erb**
 - Epp templates have proper scopes and datatypes



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Let us solve all our problems!

VPT



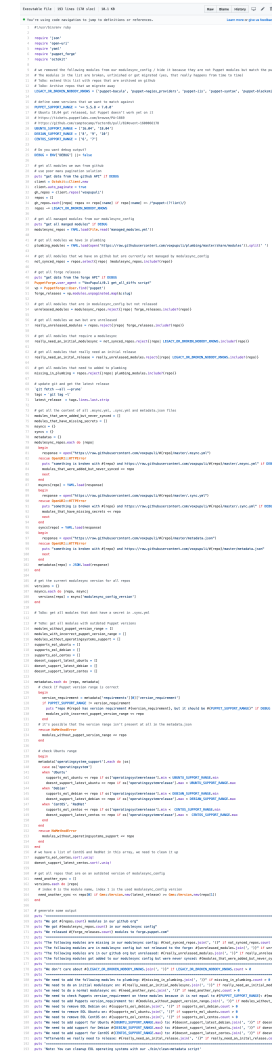
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VPT

Automate daily tasks

"There is this script. Do you think we can improve it?"

- Checks supported OS ranges
- Checks supported Puppet range
- Sort repos into categories based on
 - managed modules files
 - voxpupuli/plumbing repo
 - forge releases
 - information in files in every repository



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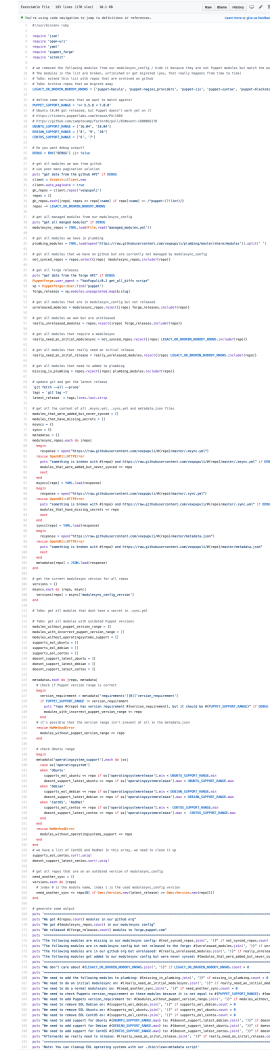
VPT

Automate daily tasks

"There is this script. Do you think we can improve it?"

- Checks supported OS ranges
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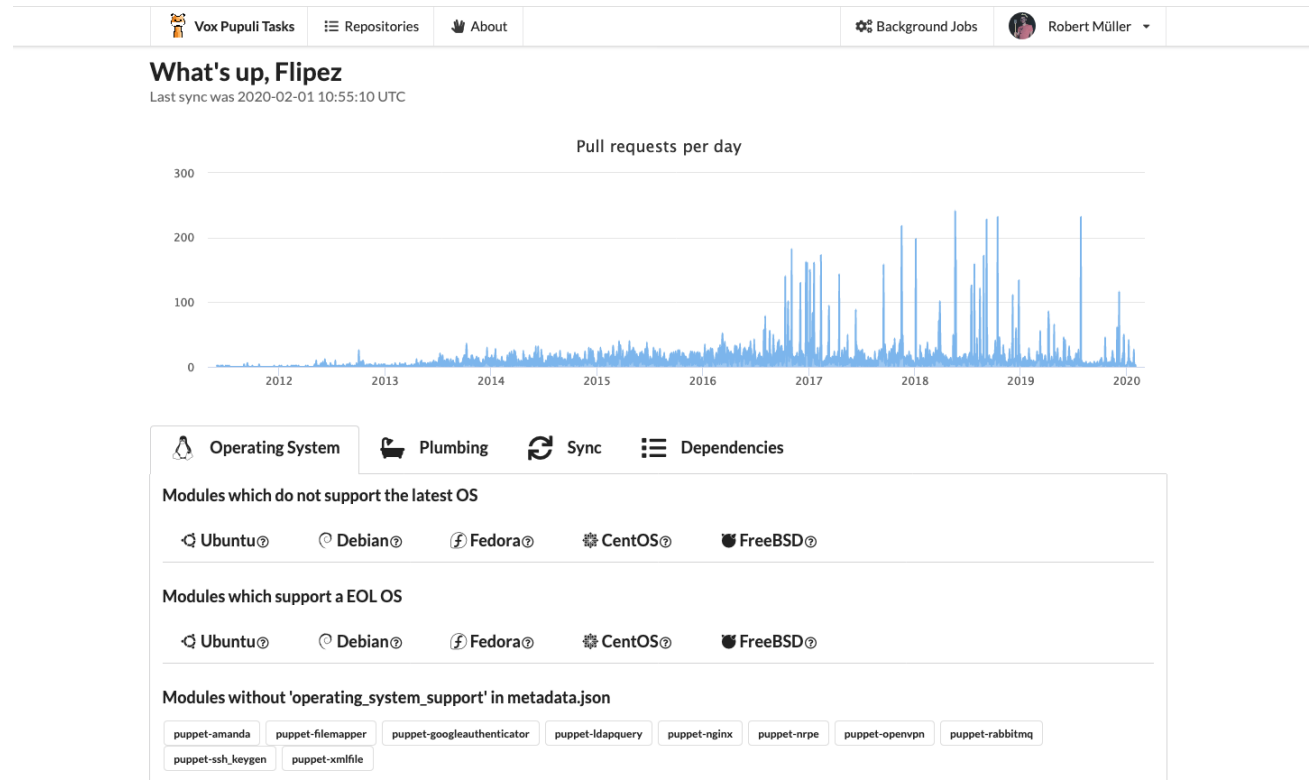
Uhm, I guess



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VPT

Automate daily tasks



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VPT

Automate daily tasks

The to-do list

The screenshot displays the VPT interface with a navigation bar at the top containing icons and labels for 'Operating System', 'Plumbing', 'Sync', and 'Dependencies'. The main content area is divided into three sections:

- Modules which do not support the latest OS**: This section lists five operating systems with their respective icons: Ubuntu, Debian, Fedora, CentOS, and FreeBSD.
- Modules which support a EOL OS**: This section lists the same five operating systems. Below them, a grid of 18 Puppet module names is displayed: puppet-allknowindns, puppet-cassandra, puppet-confluence, puppet-facette, puppet-healthcheck, puppet-jenkins, puppet-jira, puppet-mcollective, puppet-metche, puppet-nrpe, puppet-openvmtools, puppet-puppetboard, puppet-report_hipchat, puppet-rundeck, puppet-sftp_jail, puppet-smokeping, puppet-splunk, puppet-staging, puppet-stash, and puppet-strongswan.
- Modules without 'operating_system_support' in metadata.json**: This section lists 8 Puppet module names: puppet-amanda, puppet-filemapper, puppet-googleauthenticator, puppet-ldapquery, puppet-nginx, puppet-nrpe, puppet-openvpn, puppet-rabbitmq, puppet-ssh_keygen, and puppet-xmlfile.

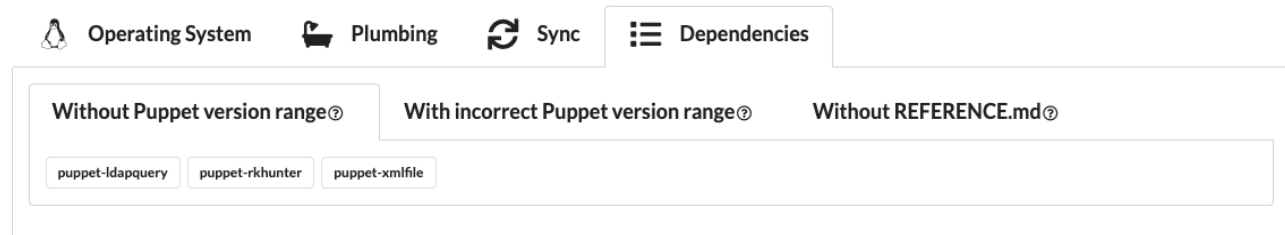
- Refreshed every 6 hours

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VPT

Automate daily tasks

The to-do list



- Refreshed every 6 hours

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VPT

Automate daily tasks

The repository view

The screenshot shows the repository view for 'puppet-alternatives' on the VPT website. The top navigation bar includes 'Vox Pupuli Tasks', 'Repositories', 'About', 'Background Jobs', and a user profile for 'Robert Müller'. The repository name 'puppet-alternatives' is displayed with 23 stars, 23 forks, and 3 issues. Below the repository name is the description 'Manage Debian alternatives links'. A row of status indicators shows 'Missing REFERENCE.md', 'Does not support latest CentOS', and 'Need another sync'. A 'GitHub' button is also present. Under the 'Open Pull Requests' section, a pull request is listed with the title 'renamed providers to fit current status of alternative usage in distributions / Add SLES12/15 support', marked as 'enhancement' and 'merge-conflicts'.

Vox Pupuli Tasks Repositories About Background Jobs Robert Müller

puppet-alternatives ★ 23 👁 23 ! 3 ⚠ Missing REFERENCE.md ⚠ Does not support latest CentOS ⚠ Need another sync GitHub

Manage Debian alternatives links

Open Pull Requests

▸ renamed providers to fit current status of alternative usage in distributions / Add SLES12/15 support enhancement merge-conflicts

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What else did we do?

How to actually learn any new programming concept



Essential

Changing Stuff and Seeing What Happens

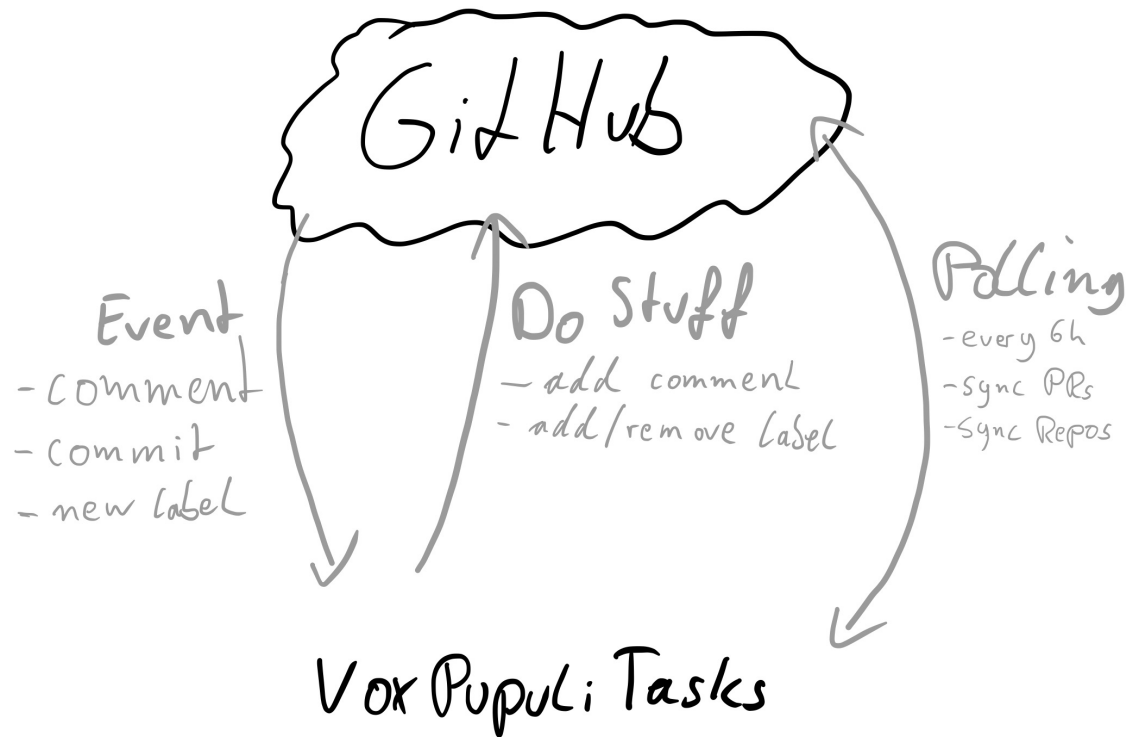
O RLY?

@ThePracticalDev

VPT

Automate daily
tasks

Architecture



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VPT

Automate daily tasks

Architecture

```
case type
  when 'pull_request'
    # Ignore events which are triggered by the bot
    return if payload.dig('sender', 'id').to_i == 53_702_691

    if Repository.notably? payload['repository']['name']
      @processor = GithubEvent::PullRequest.new(payload)
    end
  when *known_but_ignoreable_events
    true
  else
    Raven.capture_message("Unknown Hook Received: #{type}", extra: payload)
  end
end
```

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VPT

Automate daily tasks

Architecture

```
def validate(saved_changes)
  # Don't run through the validate, if only the eligible_for_comment attribute got updated
  return if saved_changes.keys.sort == %w[eligible_for_comment].sort && !mergeable.nil?

  # if the pull request is now closed, dont attach/remove labels/comments
  return if closed?

  label = Label.needs_rebase
  if mergeable == true
    ensure_label_is_detached(label)
  elsif mergeable == false
    repository.ensure_label_exists(label)

    ##
    # We only add a comment if we added a label. If the label already is present
    # we also already added the comment. So no need for a new one.
    add_comment(I18n.t('c.needs_rebase', author: author)) if ensure_label_is_attached(label)
  elsif mergeable.nil?
    UpdateMergeableWorker.perform_in(1.minute.from_now,
                                     repository.name,
                                     number,
                                     id,
                                     saved_changes)

  end
end
```

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VPT

Automate daily
tasks

Architecture

The screenshot shows a GitHub pull request for the repository 'voxpupuli / puppet-caddy'. The pull request is titled 'Ubuntu 18.04 support #18' and is currently open. It shows 12 commits from 'HogeBlekker:master' to 'voxpupuli:master'. The interface includes tabs for Code, Issues (0), Pull requests (2), Actions, Wiki, Security, and Insights. Below the title, there are statistics for Conversation (16), Commits (12), Checks (1), and Files changed (18). A comment from HogeBlekker, dated 1 Jul 2019, provides a detailed description of the pull request. The comment includes a 'Pull Request (PR) description' section stating that the PR adds support for Ubuntu 18.04 and Systemd v234, allowing for binding to low ports in the '.service' file. It also mentions that the PR fixes the following issues, with 'n/a' listed. At the bottom, a commit history entry shows that HogeBlekker and others added 10 commits on 27 Jun 2019.

voxpupuli / puppet-caddy Watch

<> Code ! Issues 0 Pull requests 2 Actions Wiki Security Insights

Ubuntu 18.04 support #18

Open HogeBlekker wants to merge 12 commits into voxpupuli:master from HogeBlekker:master

Conversation 16 Commits 12 Checks 1 Files changed 18

HogeBlekker commented on 1 Jul 2019 First-time contributor + 😊 ...

Pull Request (PR) description

This pull request includes codes that makes this module support:

- Ubuntu 18.04 with
- Systemd v234, which allows [setting permissions](#) for binding to low ports in the `.service` file.

This Pull Request (PR) fixes the following issues

n/a

HogeBlekker and others added 10 commits on 27 Jun 2019


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VPT

Automate daily
tasks

Architecture


Add more commits by pushing to the **master** branch on HogeBlekker/puppet-caddy.





All checks have passed
2 successful checks

[Show all checks](#)



This branch has conflicts that must be resolved
Use the [web editor](#) or the [command line](#) to resolve conflicts.

[Resolve conflicts](#)

Conflicting files

- .fixtures.yml
- manifests/config.pp
- manifests/params.pp
- metadata.json
- spec/classes/config_spec.rb
- spec/classes/package_spec.rb
- spec/defines/vhost_spec.rb

[Merge pull request](#) ▼

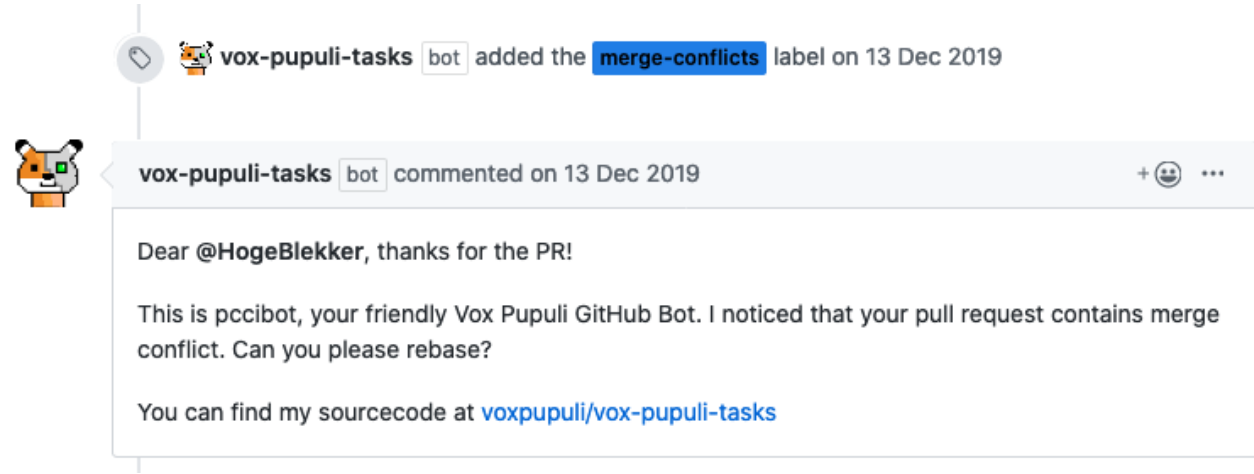
You can also [open this in GitHub Desktop](#) or view [command line instructions](#).

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VPT

Automate daily
tasks

Architecture



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VPT

Automate daily tasks

Architecture

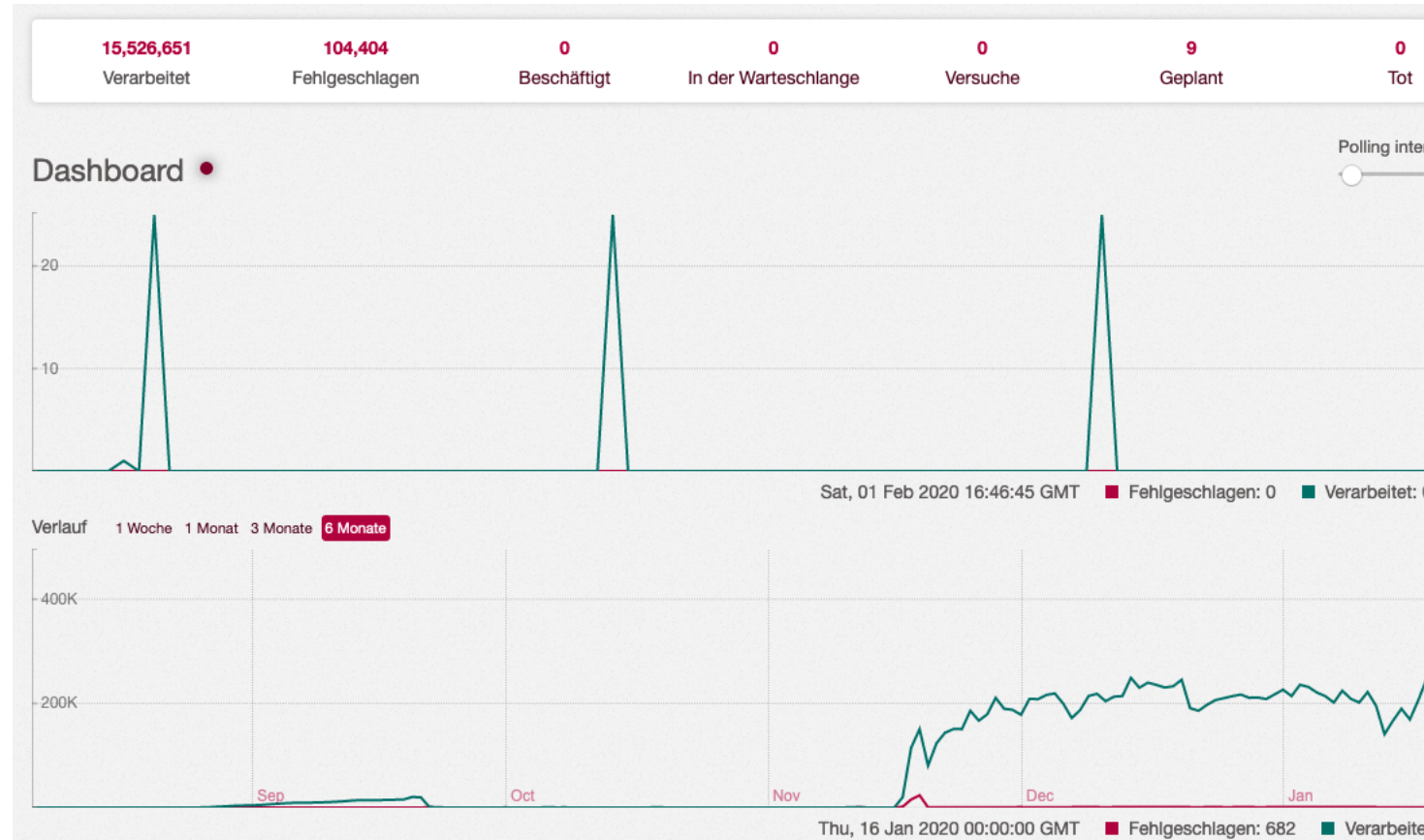
The screenshot displays a GitHub pull request interface. At the top, a commit by **dhoppe** is shown with the label **merge-conflicts** added 27 days ago. Below this, a comment from the **vox-pupuli-tasks** bot is visible, dated 27 days ago. The comment text reads: "Dear @HogeBlekker, thanks for the PR! This is pccibot, your friendly Vox Pupuli GitHub Bot. I noticed that your pull request contains merge conflict. Can you please rebase? You can find my sourcecode at [voxpupuli/vox-pupuli-tasks](#)". This comment is repeated twice in the screenshot. Below the comments, a message states: "Add more commits by pushing to the **master** branch on **HogeBlekker/puppet-caddy**." At the bottom, a status bar shows "All checks have passed" with a green checkmark and "2 successful checks". Below this, a warning message states: "This branch has conflicts that must be resolved" and provides instructions: "Use the [web editor](#) or the [command line](#) to resolve conflicts." A "Resolve conflicts" button is also present.

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VPT

Automate daily
tasks

Architecture



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What else can we do?

What do you want us to do? What are your usecases?

VPT

- Automate more labeling on issues and pull requests

Automate daily
tasks

Architecture

Lookout

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VPT

Automate daily
tasks

Architecture

Lookout

- Automate more labeling on issues and pull requests
- Implement GitLab API support

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VPT

Automate daily
tasks

Architecture

Lookout

- Automate more labeling on issues and pull requests
- Implement GitLab API support
- Help companies that want to host this on premise for internal repositories

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VPT

Automate daily tasks

Architecture

Lookout

Conclusion

- Vox Pupuli is awesome, please contribute!
- We've great tooling to scale module handling
- GitHub/GitLab API enables us to automate even more and to focus on code reviewing
- Let us know which parts in the communities you would like to see automated
- Checkout the current dashboard at voxpupu.li or our docs at github.com/voxpupuli/vox-pupuli-tasks

Thanks for your attention!

[@Was1NicerDude](#) & [@bastelsblog](#) for [@voxpupuliorg](#)