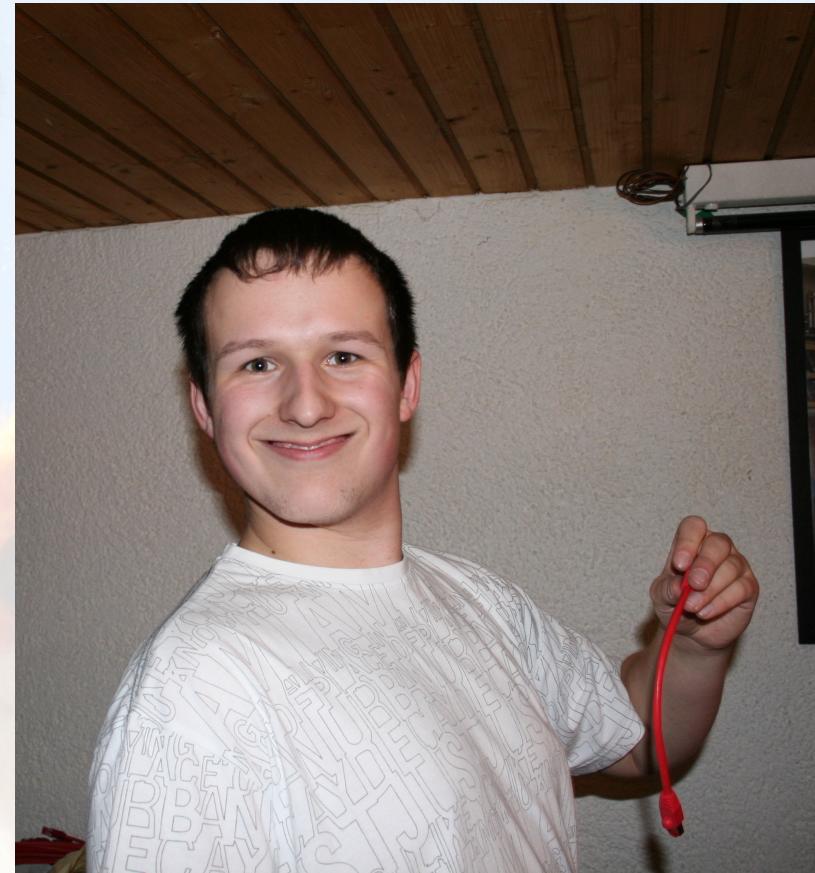


Automating the Vox Pupuli Yak Shaving

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



\$ whoami

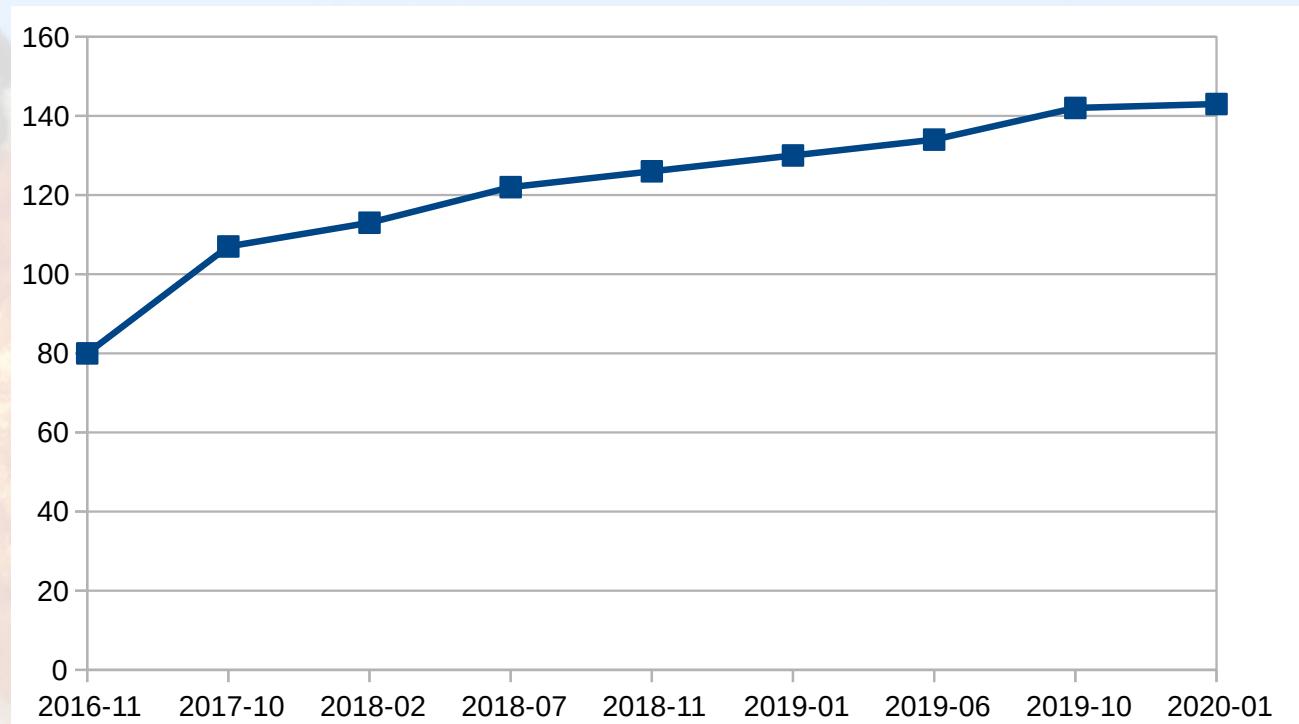
- Robert 'flipez' Müller
- Ruby Developer since 2013
- Builds clouds at Hetzner
- Also builds Rails apps and tunes football tables



What's this Vox Pupuli thingy?

Vox Pupuli

- Amount of Vox Pupuli members with merge permissions



@Was1NicerDude & @bastelsblog for @voxpupuliorg

The path of a Open Source Maintainer...

What do we do?



Yak shaving

Dependencies



@Was1NicerDude & @bastelsblog for @voxpupuliorg

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  ],
```

@Was1NicerDude & @bastelsblog for @voxpupuliorg

Yak shaving

Dependencies

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

@Was1NicerDude & @bastelsblog for @voxpupuliorg

Yak shaving

Dependencies

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

@Was1NicerDude & @bastelsblog for @voxpupuliorg

Yak shaving

Dependencies

Labels

19 labels

backwards-incompatible

beginner-friendly

bug

docs

duplicate

@Was1NicerDude & @bastelsblog for @voxpupuliorg

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

@Was1NicerDude & @bastelsblog for @voxpupuliorg

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

@Was1NicerDude & @bastelsblog for @voxpupuliorg

Yak shaving

Dependencies

Labels

Modulesync

Releases

Found 124 modules by Vox Pupuli

Filter by Puppet version: Sort by:

 **prometheus**
puppet

APPROVED

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

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

 **nginx**
puppet

APPROVED

Puppet NGINX management module
Version 1.1.0

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

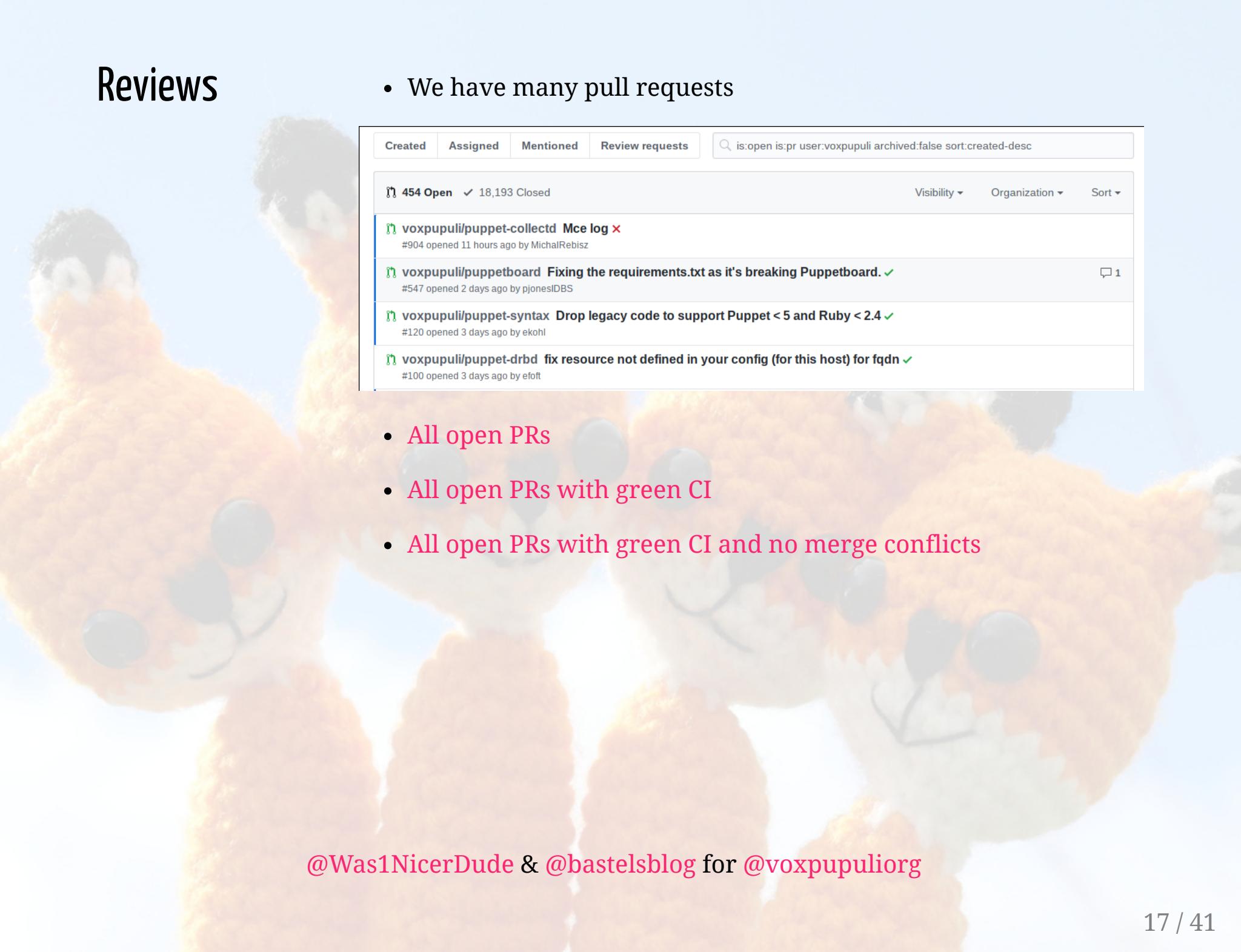
@Was1NicerDude & @bastelsblog for @voxpupuliorg

The path of a Open Source Maintainer...

What do we actually do?

Reviews

- We have many pull requests



A screenshot of a GitHub search results page for the user 'voxpupuli'. The search query is 'is:open is:pr user:voxpupuli archived:false sort:created-desc'. The results show 454 open pull requests. The first four results are listed:

- voxpupuli/puppet-collectd Mce log - #904 opened 11 hours ago by MichalRebisz
- voxpupuli/puppetboard Fixing the requirements.txt as it's breaking Puppetboard. - #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

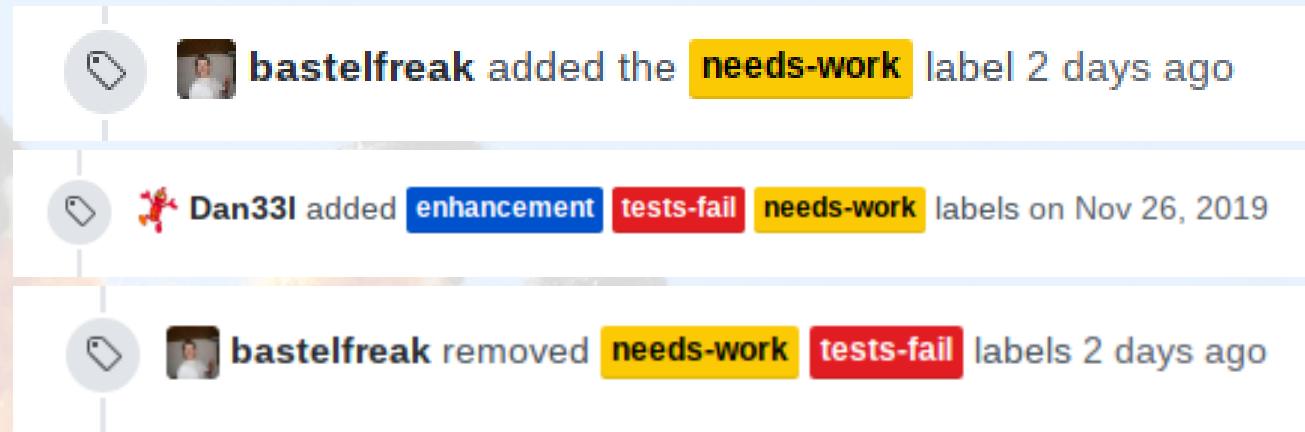
Visibility, Organization, and Sort dropdown menus are visible at the top right.

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

@Was1NicerDude & @bastelsblog for @voxpupuliorg

Reviews

More labels



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

@Was1NicerDude & @bastelsblog for @voxpupuliorg

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

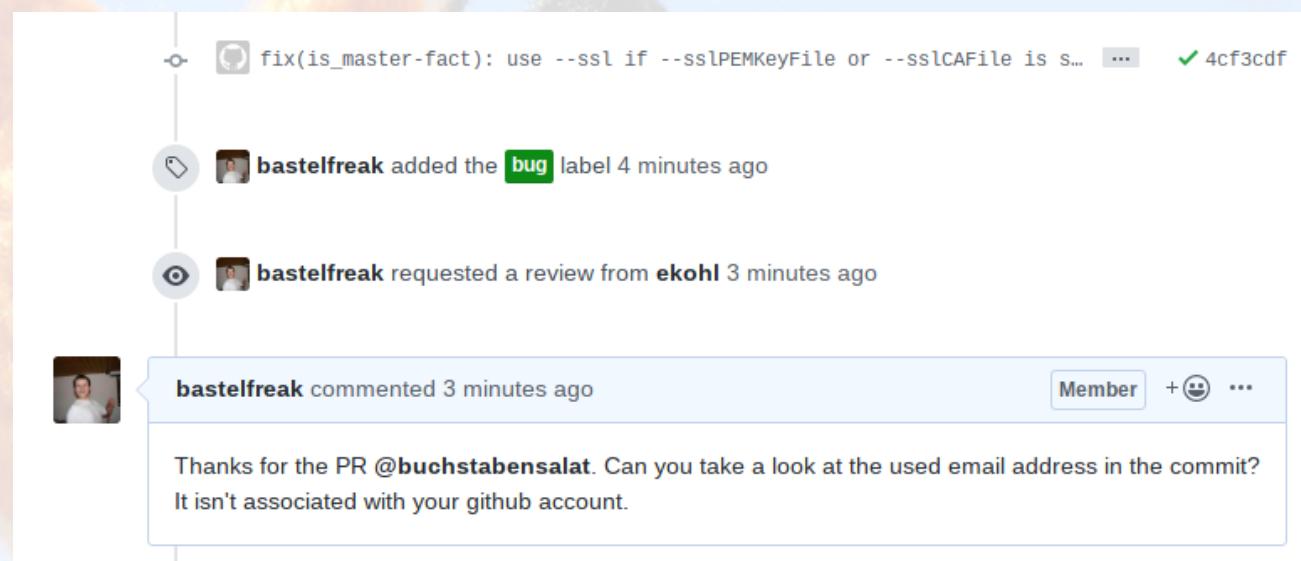
@Was1NicerDude & @bastelsblog for @voxpupuliorg

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



@Was1NicerDude & @bastelsblog for @voxpupuliorg

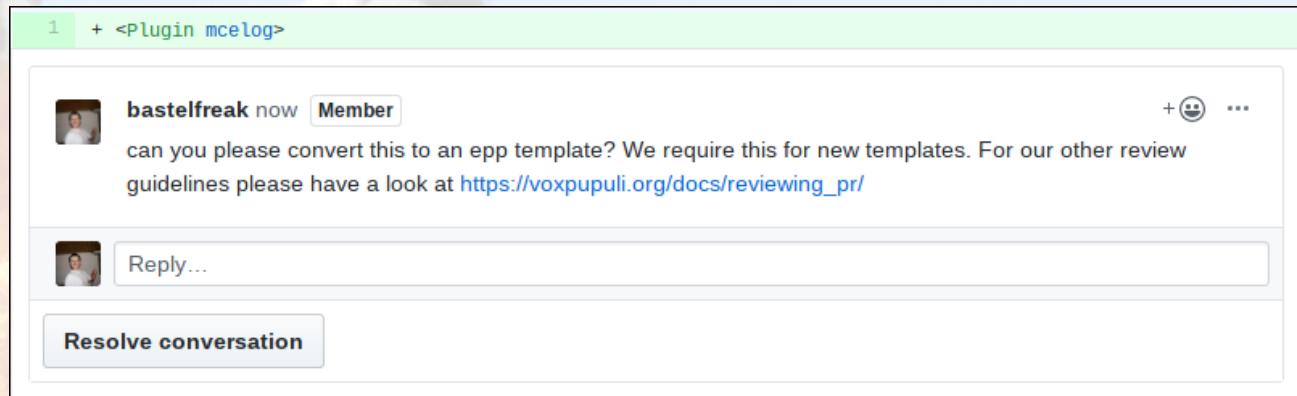
Reviews

More labels

Email Addresses

Templates

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



@Was1NicerDude & @bastelsblog for @voxpupuliorg

Let us solve all our problems!

VPT

AUTOMATE



@Was1NicerDude & @bastelsblog for @voxpupuliorg

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

@Was1NiceDude & @bastelsblog for @voxpupuliorg

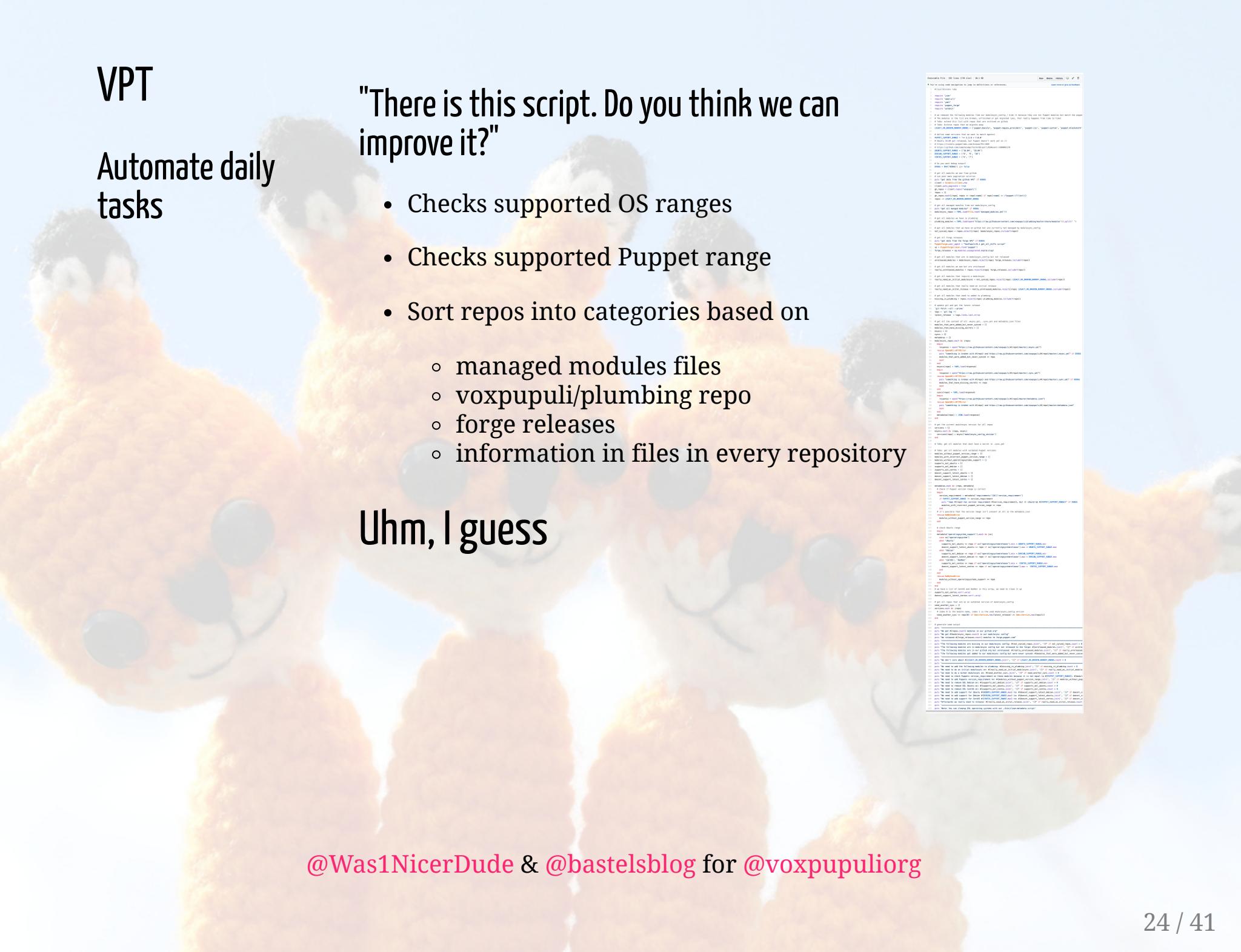
VPT

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

Uhm, I guess

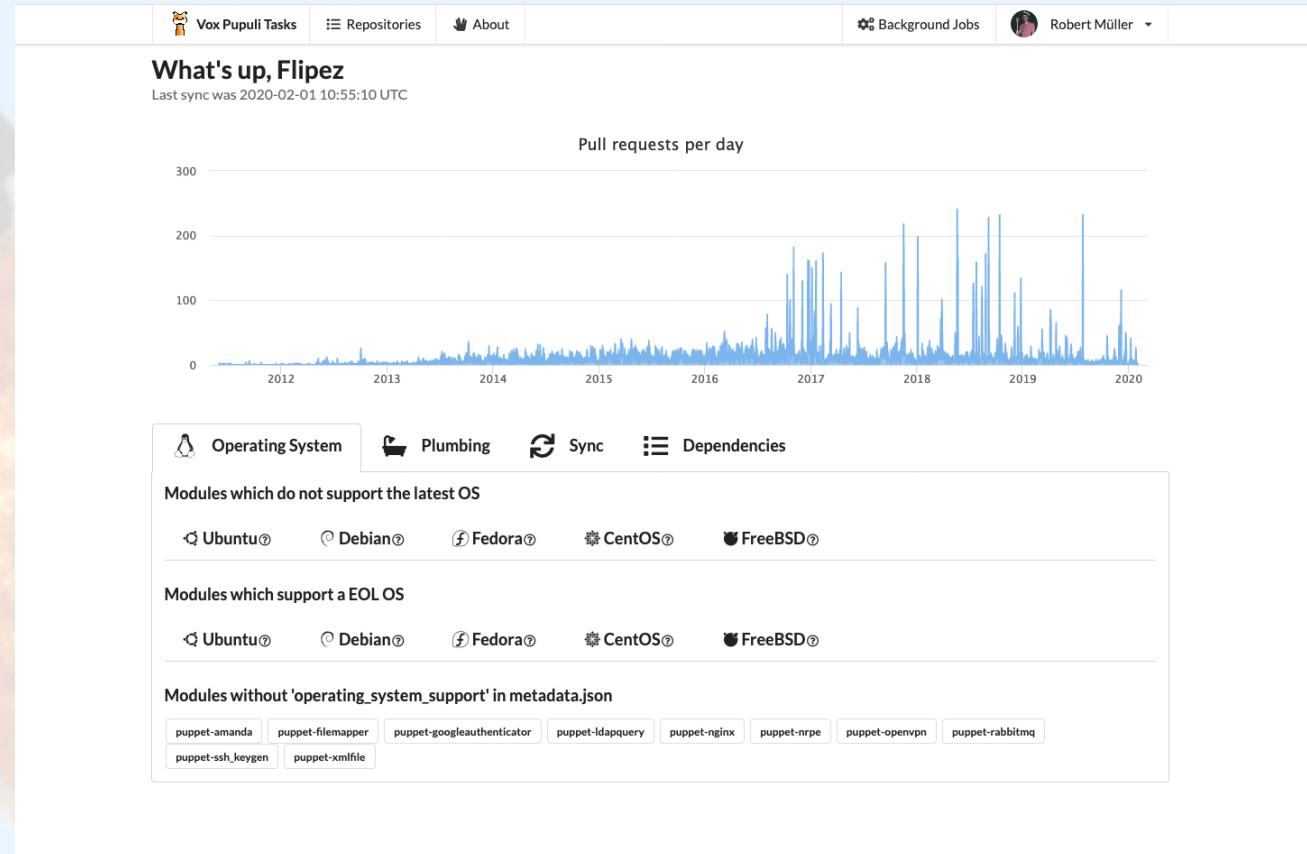


```
#!/usr/bin/python
# This script is designed to parse the GitHub API to find repositories that have a specific file structure. It will then categorize them into different groups based on their content. The script uses the GitHub API to search for repositories that contain certain files (e.g., .pp, .pl, .rb) and then filters them based on their contents. The script also checks for specific strings in the files to further refine the results. The script then outputs the results to a CSV file.
```

@Was1NicerDude & @bastelsblog for @voxpupuliorg

VPT

Automate daily tasks

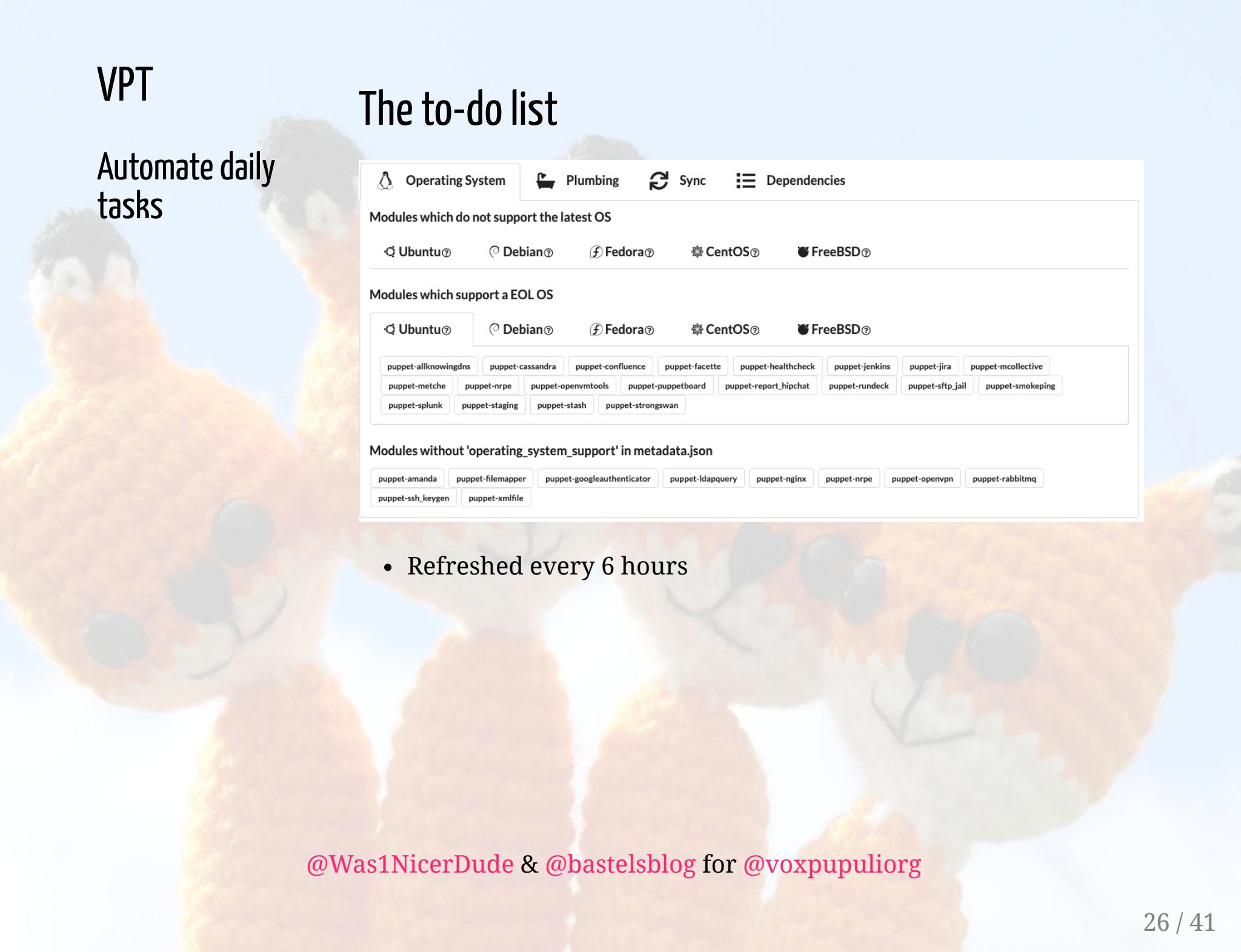


@Was1NicerDude & @bastelsblog for @voxpupuliorg

VPT

Automate daily tasks

The to-do list



The screenshot shows a web-based interface for managing Puppet modules. At the top, there are tabs for 'Operating System', 'Plumbing', 'Sync', and 'Dependencies'. Below these are sections for 'Modules which do not support the latest OS' and 'Modules which support a EOL OS'. Under each section, there are tabs for 'Ubuntu', 'Debian', 'Fedora', 'CentOS', and 'FreeBSD'. The 'Ubuntu' tab is selected in the first section, showing a list of modules: puppet-allknowingdns, 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, and puppet-smokeping. In the second section, the 'Ubuntu' tab is also selected, showing a list of modules: puppet-amanda, puppet-filemaker, puppet-googleauthenticator, puppet-ldapquery, puppet-nginx, puppet-nrpe, puppet-openvpn, puppet-rabbitmq, puppet-ssh_keygen, and puppet-xmlfile.

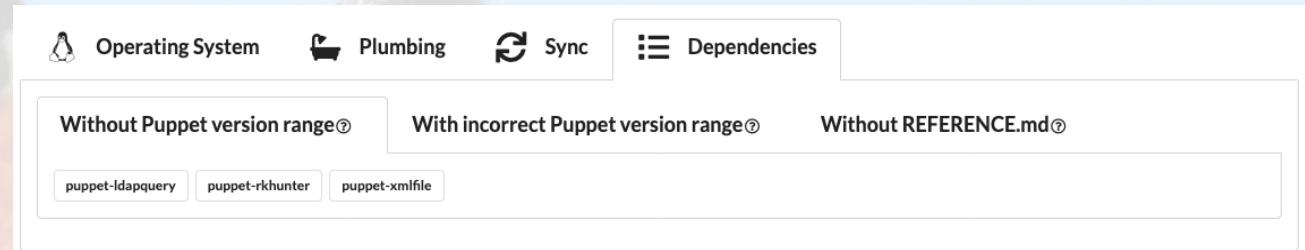
- Refreshed every 6 hours

@Was1NicerDude & @bastelsblog for @voxpupuliorg

VPT

Automate daily
tasks

The to-do list



- Refreshed every 6 hours

@Was1NicerDude & @bastelsblog for @voxpupuliorg

VPT

Automate daily
tasks

The repository view

A screenshot of a web interface for managing Debian alternatives links. The top navigation bar includes links for 'Vox Pupuli Tasks', 'Repositories', 'About', 'Background Jobs', and a user profile for 'Robert Müller'. The main content area shows a repository named 'puppet-alternatives' with a star icon (23), a file icon (23), and a bug icon (3). It also displays three error icons: 'Missing REFERENCE.md', 'Does not support latest CentOS', and 'Need another sync'. A 'GitHub' button is located in the top right corner. Below the repository name, the description 'Manage Debian alternatives links' is visible. A section titled 'Open Pull Requests' contains one entry: 'renamed providers to fit current status of alternative usage in distributions / Add SLES12/15 support' with labels 'enhancement' and 'merge conflicts'.

@Was1NicerDude & @bastelsblog for @voxpupuliorg

What else did we do?

How to actually learn any new programming concept



Essential

Changing Stuff and
Seeing What Happens

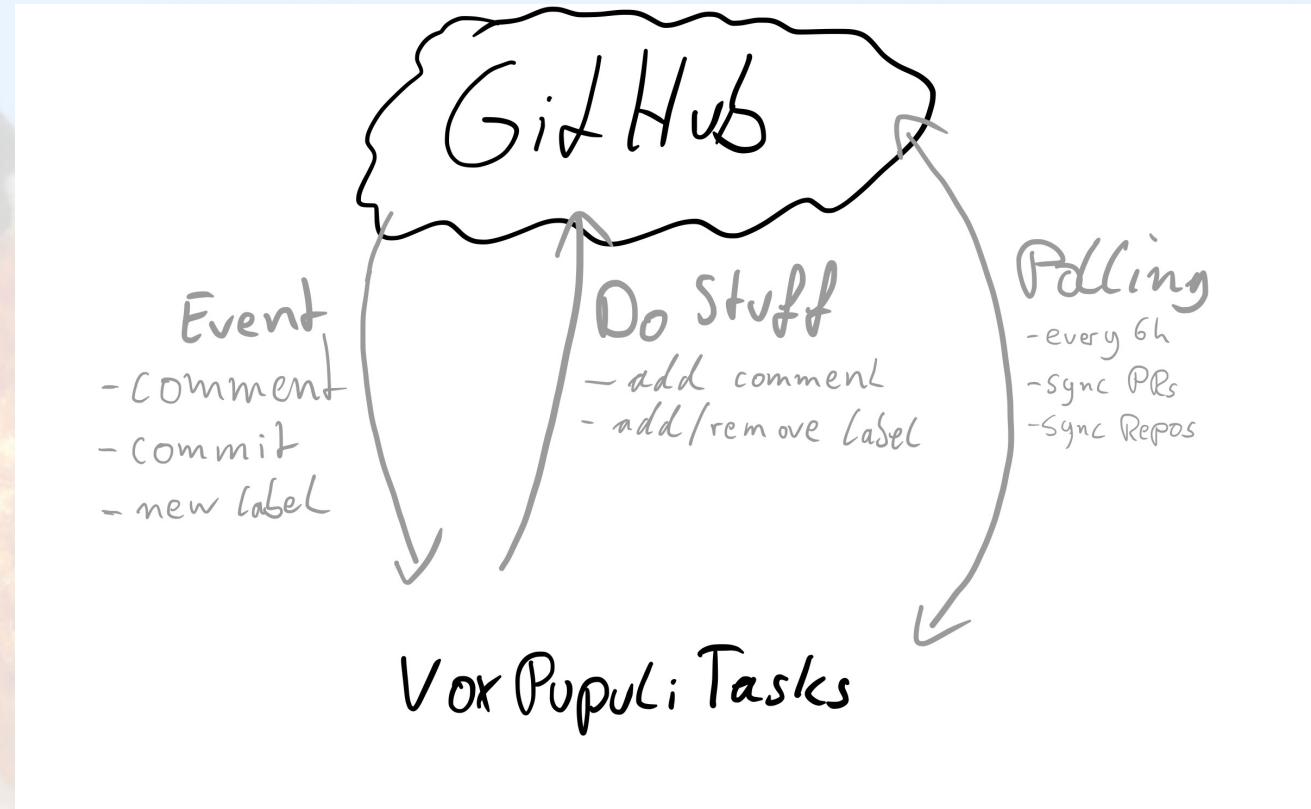
O RLY?

@ThePracticalDev

VPT

Automate daily tasks

Architecture



@Was1NicerDude & @bastelsblog for @voxpupuliorg

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
```

@Was1NicerDude & @bastelsblog for @voxpupuliorg

VPT

Automate daily tasks

Architecture

```
def validate(saved_changes)
  # Don't run through the validateen, if only the eligible_for_comment attribu
  return if saved_changes.keys.sort == %w[eligible_for_comment].sort && !merg

  # 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 pre
  # 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_
  elsif mergeable.nil?
    UpdateMergeableWorker.perform_in(1.minute.from_now,
      repository.name,
      number,
      id,
      saved_changes)

  end
end
```

@Was1NiceDude & @bastelsblog for @voxpupuliorg

VPT

Automate daily
tasks

Architecture

voxpupuli / puppet-caddy

Watch ▾

Code Issues Pull requests 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

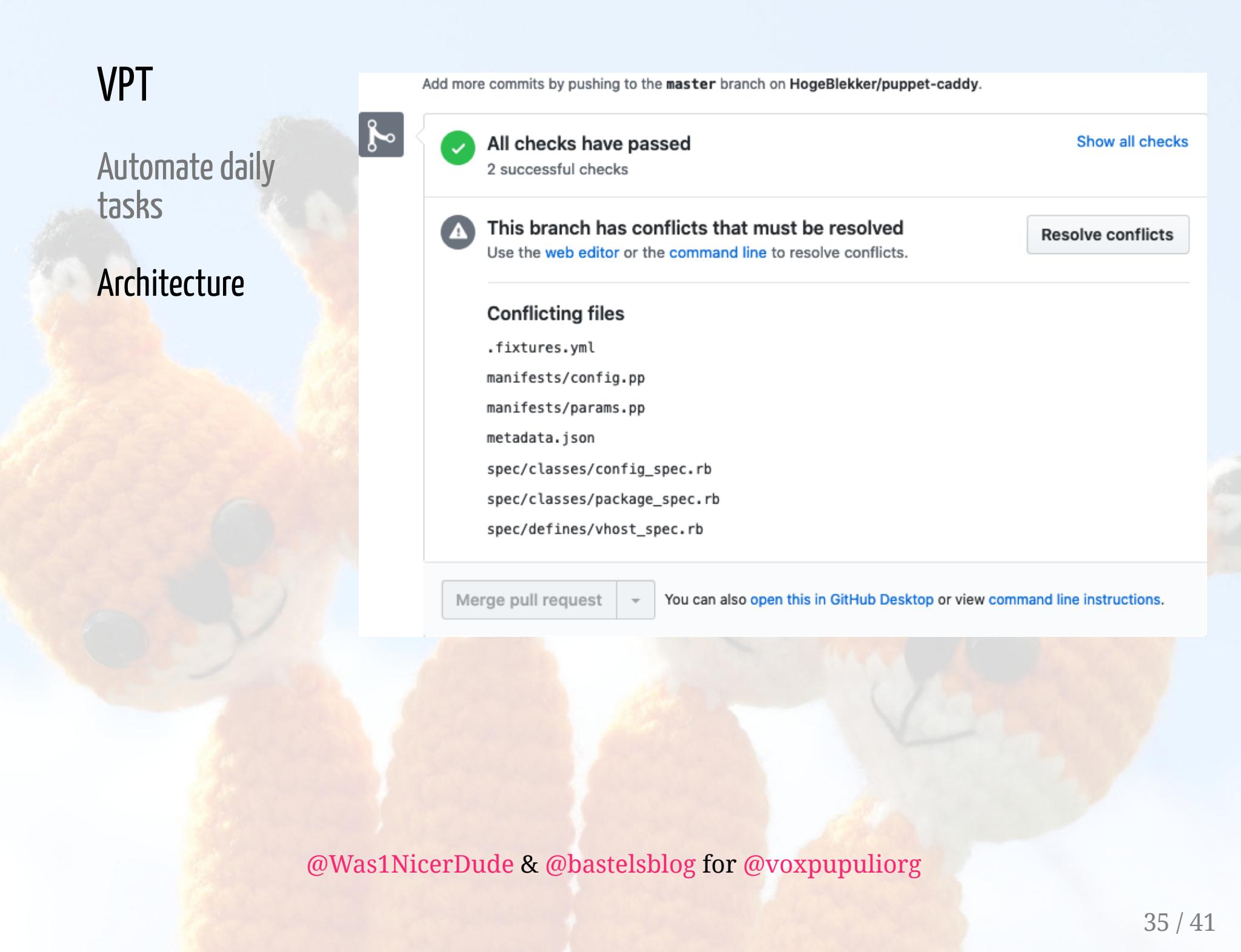
HogeBlekker and others added 10 commits on 27 Jun 2019

@Was1NicerDude & @bastelsblog for @voxpupuliorg

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

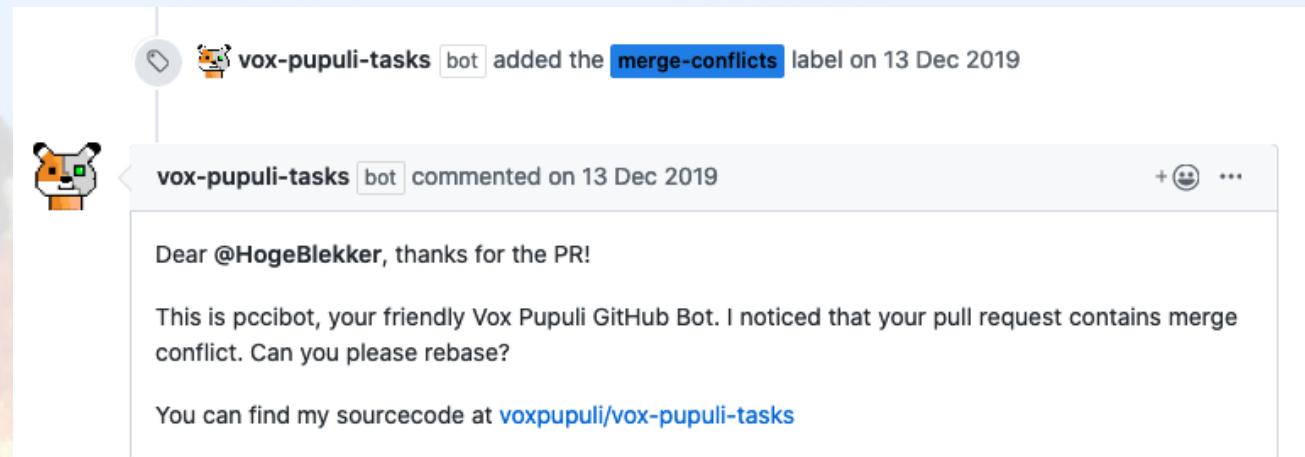
[Merge pull request](#) ▾ You can also [open this in GitHub Desktop](#) or view [command line instructions](#).

@Was1NicerDude & @bastelsblog for @voxpupuliorg

VPT

Automate daily tasks

Architecture

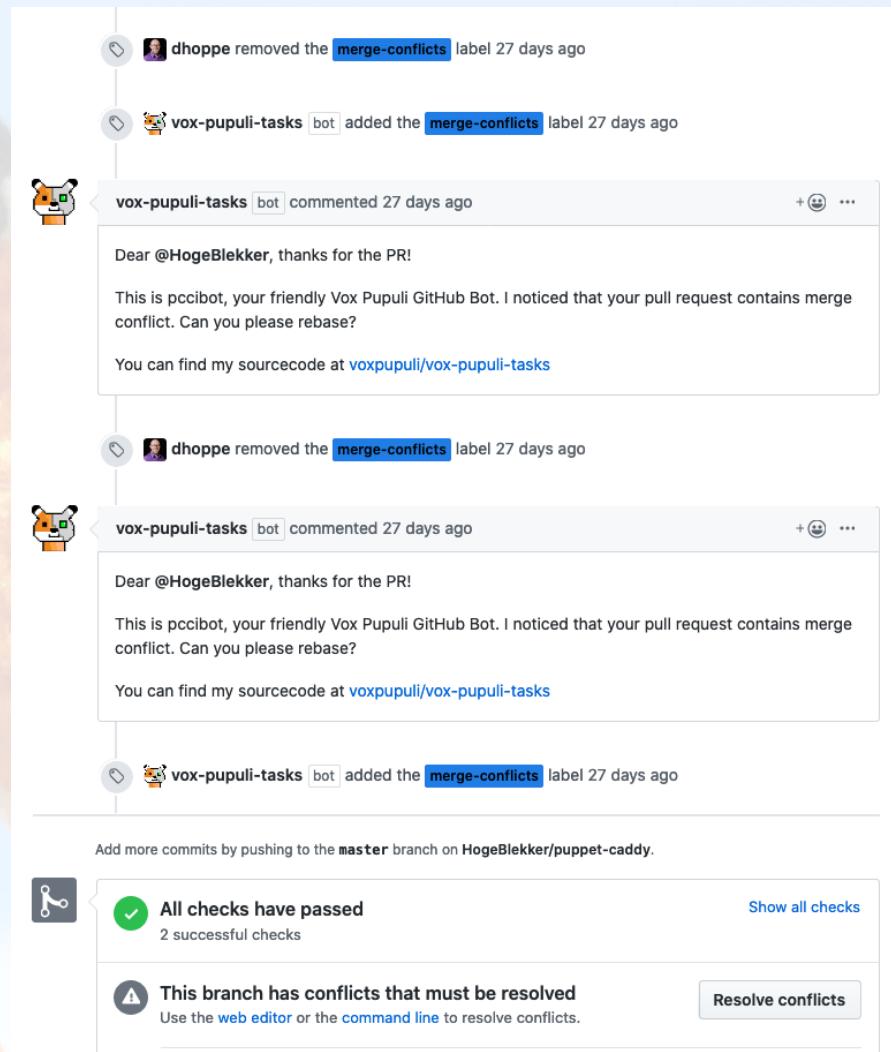


@Was1NicerDude & @bastelsblog for @voxpupuliorg

VPT

Automate daily tasks

Architecture

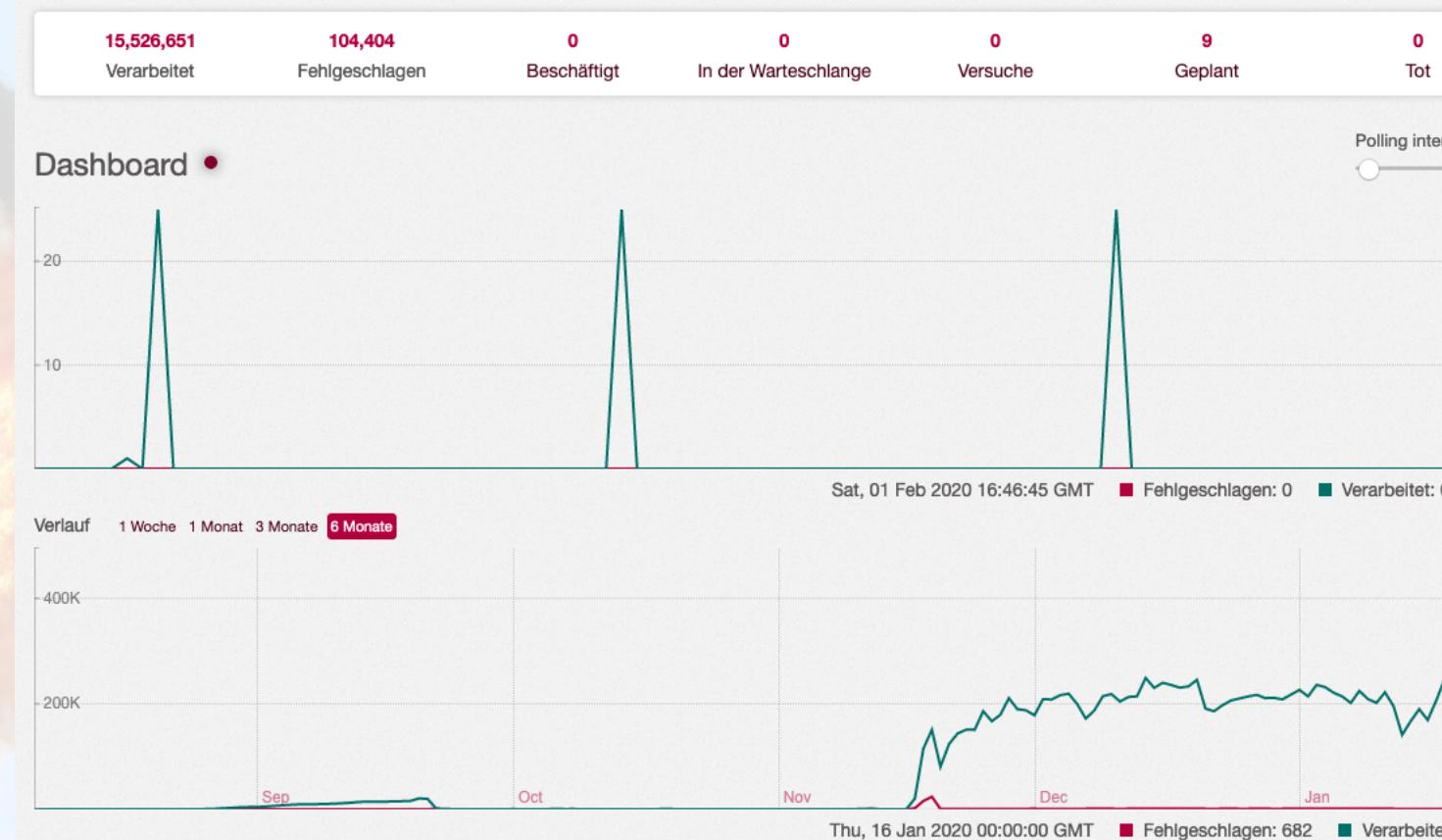


@Was1NicerDude & @bastelsblog for @voxpupuliorg

VPT

Automate daily
tasks

Architecture



@Was1NicerDude & @bastelsblog for @voxpupuliorg

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

@Was1NicerDude & @bastelsblog for @voxpupuliorg

VPT

Automate daily
tasks

Architecture

Lookout

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

@Was1NicerDude & @bastelsblog for @voxpupuliorg

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

@Was1NicerDude & @bastelsblog for @voxpupuliorg

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