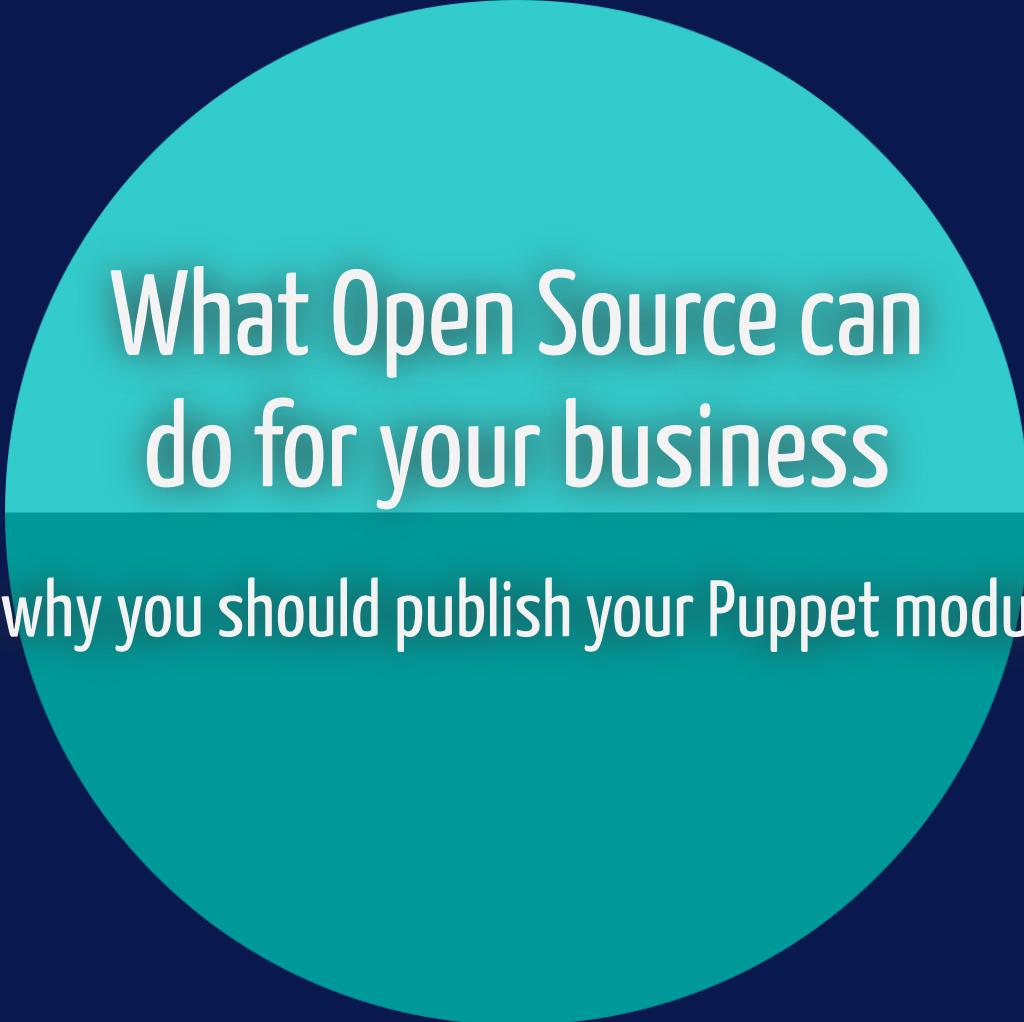


What Open Source can do for your business

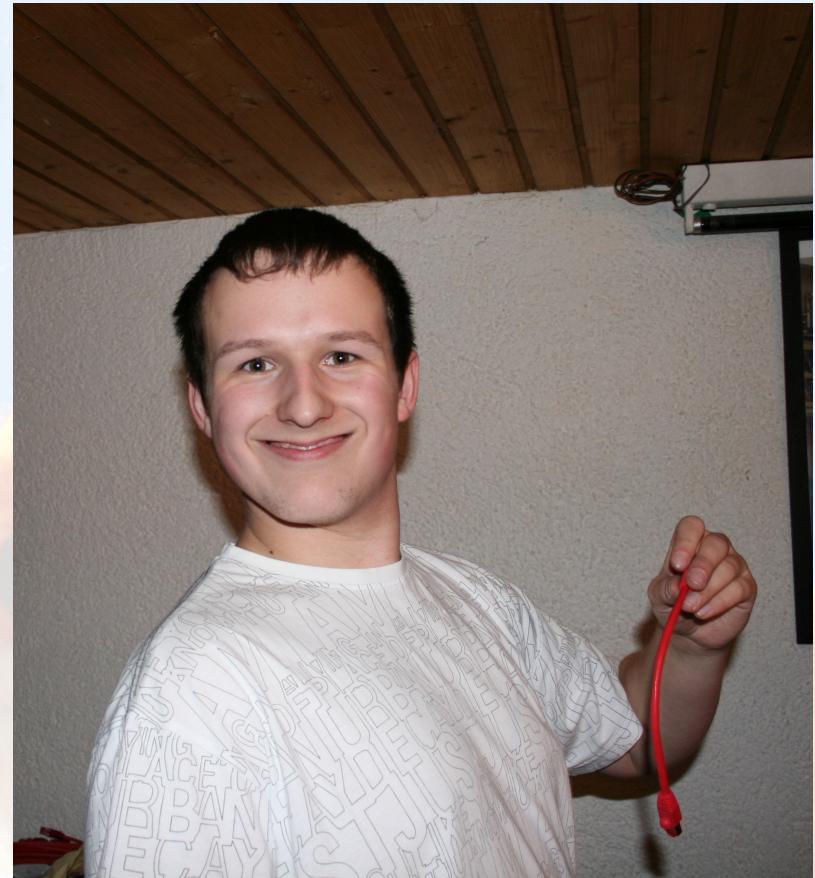


What Open Source can
do for your business

Or why you should publish your Puppet modules

\$ 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](#)



What's this
Vox Pupuli thingy?

Vox Pupuli

What?

- Maintain many many Puppet modules



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Vox Pupuli

What?

- Maintain many many Puppet modules
 - And Rubygems!



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- Ensure continued development for our code

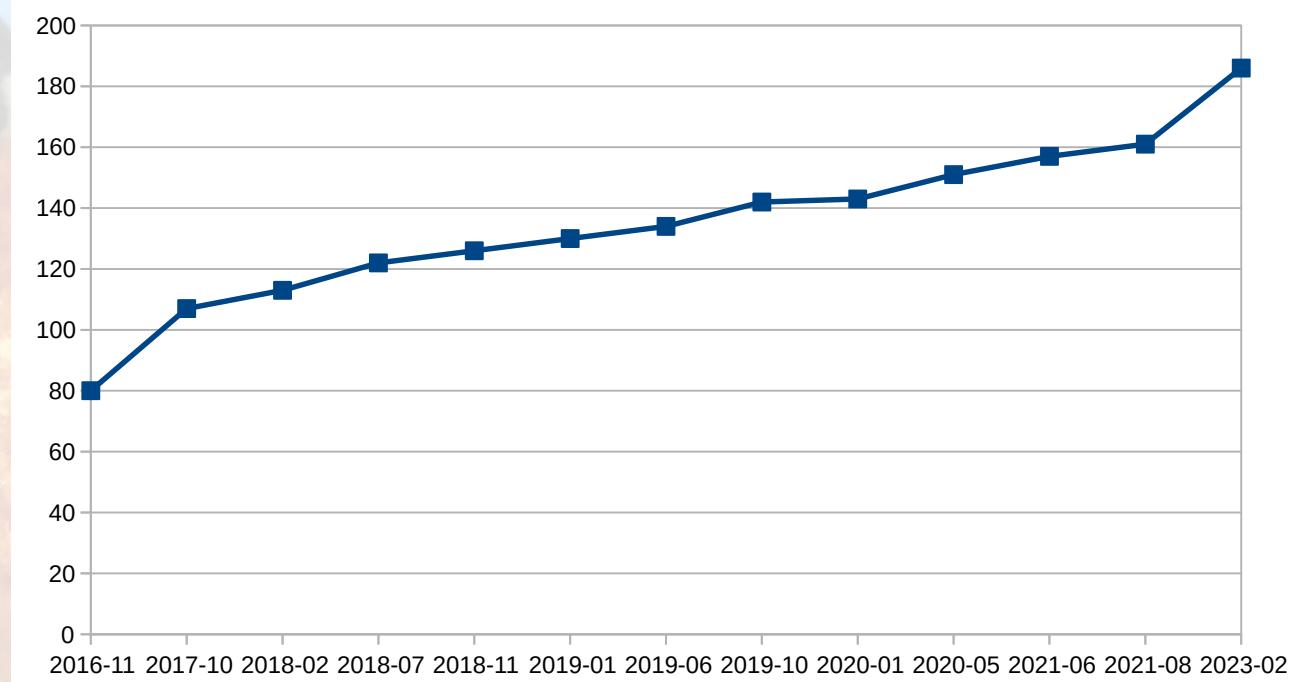


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Vox Pupuli

Who?

- Amount of Vox Pupuli members with merge permissions



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Vox Pupuli

Who?

- Many git newbies
 - Rebasing a feature branch against upstream master is hard



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Vox Pupuli

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 - Interested in learning RuboCop/puppet-lint/rspec-puppet/serverspec



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- Consultants that contribute to one/a few modules for a period of time



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How to design a good Puppet module?

Module Design

Status Quo

- You write your own component Puppet modules
 - A module that manages a single component (Apache *or* nginx)



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Module Design

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- You write your own component Puppet modules
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- You also want to reuse Open Source component modules from others
 - Because there are already awesome modules for nginx



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- Many of your servers are very similar, but not identical
- Design requirement 1: Use internal and external component modules in parallel
- Design requirement 2: Assign those component modules to groups of servers

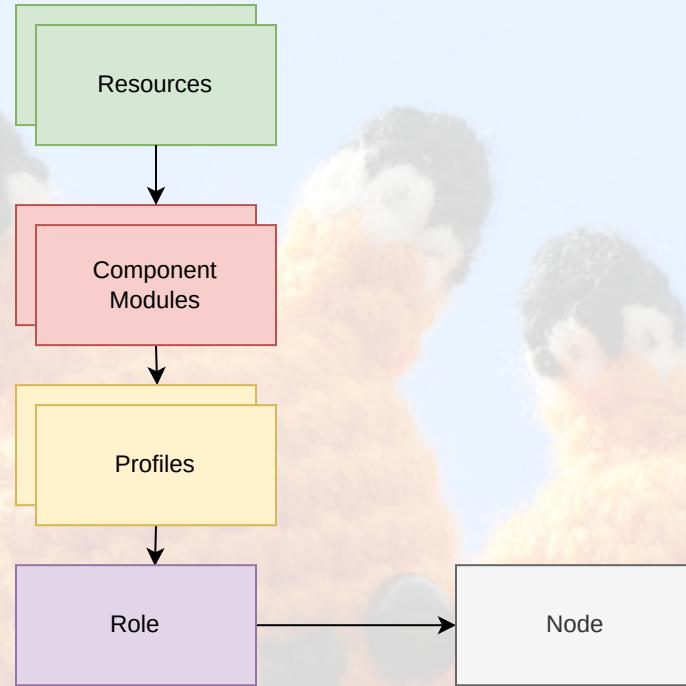


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Module Design

Status Quo

Roles & Profiles



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Data vs Code

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Module Design

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- People that write Puppet Code might not provide the data
- DevOps people want to use an external component module
- platform engineers write Puppet code
- network engineers provide ip addresses and firewall rules
- Product owner provides version numbers for deployments



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- Design requirement 3: Separate data and code



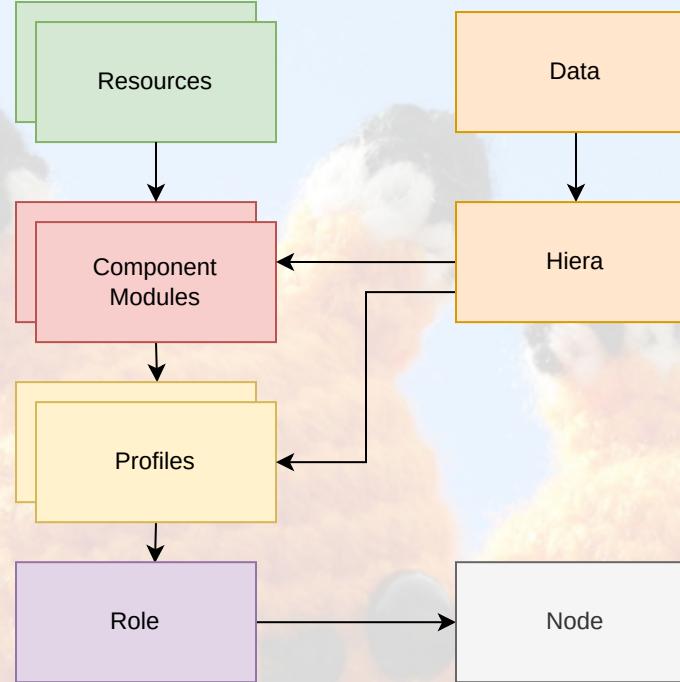
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Module Design

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Data vs Code



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Module Design

Status Quo

Roles & Profiles

Data vs Code

- It's hard for enforce code design/architecture with CI jobs
- You might leak private information if you publish an existing internal module



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Why Open Sourcing?

- Publish a module from the beginning
 - This enforces a proper structure in your code

Technical aspects



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 - There are free CI services for open source software!



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 - New users require documentation



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Why Open Sourcing?

Technical aspects

Vox Pupuli

Vox Pupuli sales pitch:

- Vox Pupuli has proper tooling to handle many modules



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 - https://voxpupuli.org/docs/reviewing_pr/



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Vox Pupuli sales pitch:

- Vox Pupuli has proper tooling to handle many modules
- Vox Pupuli maintains community guidelines and best practices
 - https://voxpupuli.org/docs/reviewing_pr/
- Working in a collective enforces proper documentation and git commits



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Why Open Sourcing?

- Our CI Setup
- Validate code -> Lint Code -> Generate CI Matrix

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- `jq .requirements[0] metadata.json`

```
{  
  "name": "puppet",  
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}
```

- `jq .operatingsystem_support metadata.json`

```
{  
  "operatingsystem": "RedHat",  
  "operatingsystemrelease": [  
    "6",  
    "7"  
  ]  
}
```

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Why Open Sourcing?

Technical aspects

Vox Pupuli

- Our CI Setup Documentation
- CI Matrix generation: github.com/voxpupuli/puppet_metadata
- unit testing with rspec-puppet: github.com/voxpupuli/voxpupuli-test
- acceptance testing with beaker: github.com/voxpupuli/voxpupuli-acceptance
- Shard GitHub Action: github.com/voxpupuli/gha-puppet



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Why Open Sourcing?

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Company advantages

- Companies that do open source work are recognized in the community
 - Attract new hires through open source work
 - That's how I got to betadots!

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- Benefit from the tooling within the community

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The Conclusion

Conclusion

- You should publish your internal puppet modules
- Vox Pupuli is awesome, please contribute!
- We've great tooling to scale module handling



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Conclusion

- You should publish your internal puppet modules
- Vox Pupuli is awesome, please contribute!
- We've great tooling to scale module handling
- For feedback: `bastelfreak` on slack.puppet.com/Libera.Chat IRC or tim@bastelfreak.de
- This talk and previous ones: github.com/bastelfreak/talks

Thanks for your attention!



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