Inhaltsverzeichnis

3-Teiler

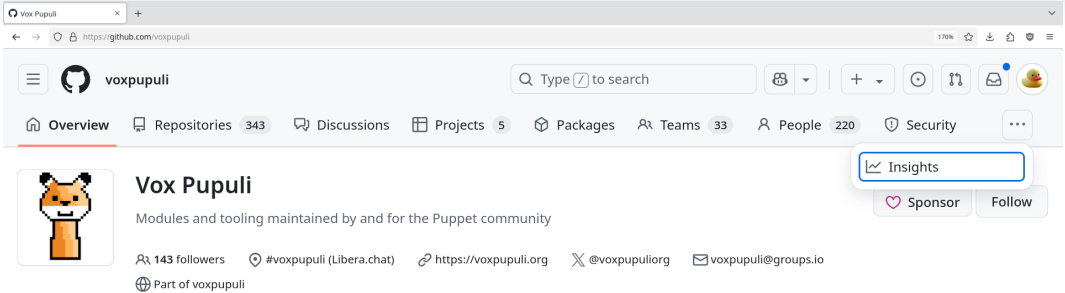
- 3 Vorträge
- Komplexität: Henne-Ei-Problem Verständnis

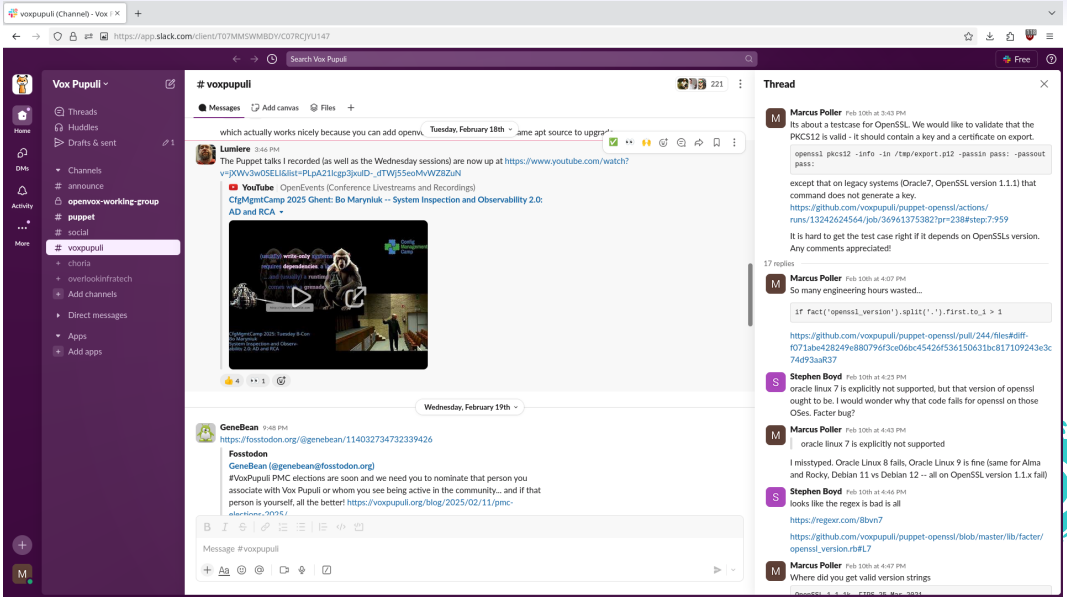
Interessenskonflikt

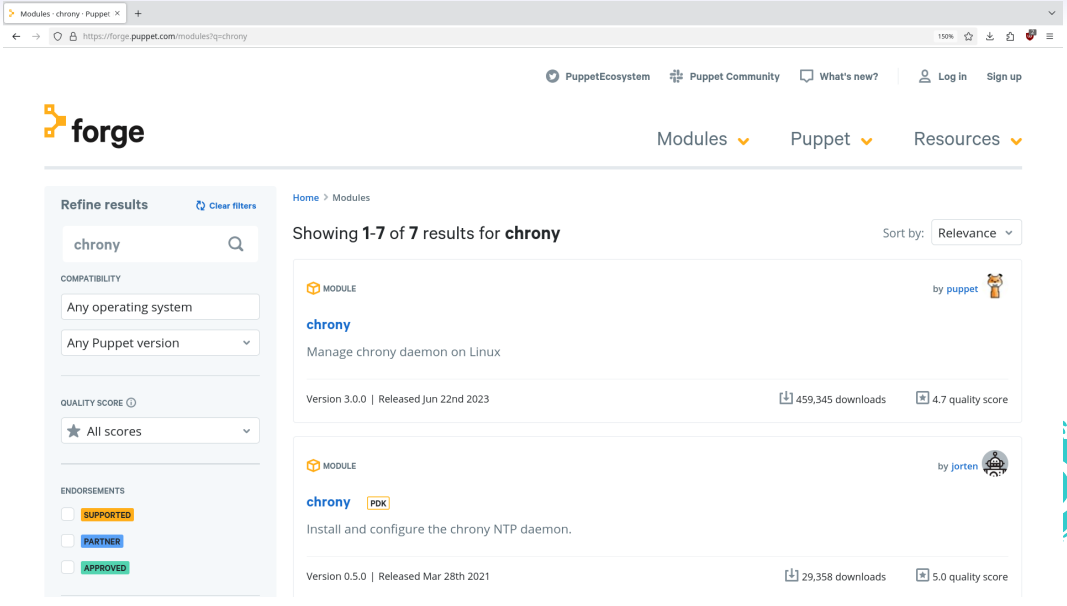
- OpenSource Kollektiv
- hauptberuflich

Gründung

- Admins + Klein-Teams
- Code-Entwicklung garantieren


Vox Pupuli
https://github.com/voxpupuli
voxpupuli
Type / to search
Overview
Repositories 343
Discussions
Projects 5
Packages
Teams 33
People 220
Security
Insights
Vox Pupuli
Modules and tooling maintained by and for the Puppet community
Sponsor
Follow
143 followers
#voxpupuli (Libera.chat)
https://voxpupuli.org
@voxpupuliorg
voxpupuli@groups.io
Part of voxpupuli
Pinned
puppetboard Public
Web frontend for PuppetDB
Python 716 240
voxpupuli.github.io Public
What this is all about.
HTML 7 51
puppet-nginx Public
Puppet Module to manage NGINX on various UNIXes
Ruby 474 878
modulesync_config Public
configuration for our module sync
Ruby 10 71
View as: Public
You are viewing the README and pinned repositories as a public user.
Top discussions this past month
Discussions are for sharing announcements, creating conversation in your community, answering questions, and more.
Start a new discussion


voxpupuli (Channel) - Vox
https://app.slack.com/client/T07MMSWMBDY/C078CJYU147
Search Vox Pupuli
Free
Vox Pupuli
Threads
Huddles
Drafts & sent
Channels
announce
openvox-working-group
puppet
social
voxpupuli
choria
overlookinfratech
Add channels
Direct messages
Apps
Add apps
voxpupuli
221
Messages
Add canvas
Files
Tuesday, February 18th
Lumiere 3:46 PM
The Puppet talks I recorded (as well as the Wednesday sessions) are now up at https://www.youtube.com/watch?v=jXWv3w0SELI&list=PLpA21Icgp3jxulD-_dTWj55eoMvWZ8ZuN
YouTube OpenEvents (Conference Livestreams and Recordings)
CfgMgmtCamp 2025 Ghent: Bo Maryniuk -- System Inspection and Observability 2.0: AD and RCA
Wednesday, February 19th
GeneBean 9:48 PM
https://fosstodon.org/@genebean/114032734732339426
Fosstodon
GeneBean (@genebean@fosstodon.org)
#VoxPupuli PMC elections are soon and we need you to nominate that person you associate with Vox Pupuli or whom you see being active in the community... and if that person is yourself, all the better! https://voxpupuli.org/blog/2025/02/11/pmc-elections-2025/
Message #voxpupuli
Thread
Marcus Poller Feb 10th at 3:43 PM
Its about a testcase for OpenSSL. We would like to validate that the PKCS12 is valid - it should contain a key and a certificate on export.
openssl pkcs12 -info -in /tmp/export.p12 -passin pass: -passout pass:
except that on legacy systems (Oracle7, OpenSSL version 1.1.1) that command does not generate a key.
https://github.com/voxpupuli/puppet-openssl/actions/runs/13242624564/job/36961375382?pr=238#step:7:959
It is hard to get the test case right if it depends on OpenSSLs version. Any comments appreciated!
17 replies
Marcus Poller Feb 10th at 4:07 PM
So many engineering hours wasted...
if fact('openssl_version').split('.').first.to_i > 1
https://github.com/voxpupuli/puppet-openssl/pull/244/files#diff-f071abe428249e880796f3ce06bc45426f536150631bc817109243e3c74d93aaR37
Stephen Boyd Feb 10th at 4:25 PM
oracle linux 7 is explicitly not supported, but that version of openssl ought to be. I would wonder why that code fails for openssl on those OSes. Facter bug?
Marcus Poller Feb 10th at 4:43 PM
oracle linux 7 is explicitly not supported
I misstyped. Oracle Linux 8 fails, Oracle Linux 9 is fine (same for Alma and Rocky, Debian 11 vs Debian 12 -- all on OpenSSL version 1.1.x fail)
Stephen Boyd Feb 10th at 4:44 PM
looks like the regex is bad is all
https://regexr.com/8bvn7
https://github.com/voxpupuli/puppet-openssl/blob/master/lib/facter/openssl_version.rb#L7
Marcus Poller Feb 10th at 4:47 PM
Where did you get valid version strings


Modules · chrony · Puppet
https://forge.puppet.com/modules?q=chrony
150%
PuppetEcosystem
Puppet Community
What's new?
Log in
Sign up
forge
Modules
Puppet
Resources
Refine results
Clear filters
chrony
COMPATIBILITY
Any operating system
Any Puppet version
QUALITY SCORE
All scores
ENDORSEMENTS
SUPPORTED
PARTNER
APPROVED
Home › Modules
Showing 1-7 of 7 results for chrony
Sort by: Relevance
MODULE
by puppet
chrony
Manage chrony daemon on Linux
Version 3.0.0 | Released Jun 22nd 2023
459,345 downloads
4.7 quality score
MODULE
by jorten
chrony PDK
Install and configure the chrony NTP daemon.
Version 0.5.0 | Released Mar 28th 2021
29,358 downloads
5.0 quality score

OpenVox

- Fork Puppet-Opensource

Es war einmal...

- Puppet-Conf – Entwickler treffen
- Zugriff Bugtracker
- Puppetlabs-Entwickler jeden Freitag Zeit

dann hat dreimal der CEO gewechselt und Puppetlabs wurde aufgekauft
... und ein Blogpost und ein Community-Telefonat

- keine Debian-Pakete mehr
- keine Namensrechte
- kein Puppet-Open-Source mehr
- eine EULA

Weg vorwärts

- ✓ Debianpakete `https://apt.overlookinfratech.com/`
- ✓ Container `https://github.com/OpenVoxProject/container-openvoxserver`
- ❑ Dokumentation → Onboarding
- ❑ Openvox-Conf Berlin
- ❑ Openvox-Conf Boston
- ❑ NL-Funding

Zielstellung

- Rechenzentrumsbetrieb / Hyperscaler
- Anwendungsfall 20.000 VMs - Selbstbedieninterface
- Infrastructure as Code
- Auditierfähig

Domain Specific Language

- Ressourcen (Klassen und Module)
- Ruby-Abstraktion

DSL-Einführung: Resourcen

- `puppet resource user`
- `puppet describe user`

Idempotenz

Zielzustandsbeschreibung

- `puppet apply`

vgl. RedHat Kickstart

mehr Ressourcen

- `package`
- `file` - source: fileserver, modul, dateisystem, array, refresh-events, templating Embedded Puppet Templates, Embedded Ruby Templates
- `service`

Module 1 - VoxPupuli Chrony Code

`https://github.com/voxpupuli/puppet-chrony`

Module 2 - VoxPupuli Chrony benutzen

- `dnf erase chrony`
- `puppet module install puppetlabs-chrony`
- `puppet apply chrony.pp --show_diff`

Wiederholung 1

Ressourcen

- `package`
- `file`
- `service`

werden gebündelt zu

- `class`
- Module

Es ist klar, was wir auf die SSD schreiben wollen. Jetzt fehlen noch die Daten.

Anpassungen - Daten

- `facter` / `puppet facts`
- trusted CSR-Attributes `https://www.puppet.com/docs/puppet/7/ssl_attributes_extensions#ssl_attributes_extensions`
- External Node Classifier (ENC)

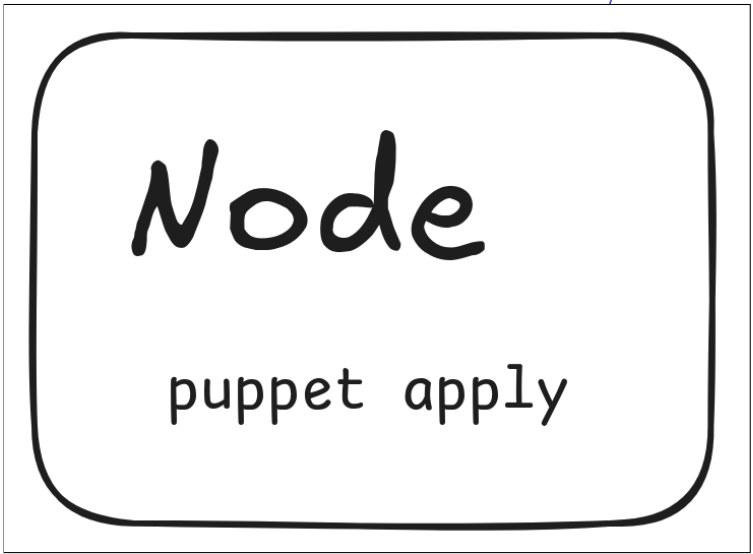
Endzustand BigCorp

- Hosts Inventardatenbank
- Inventardatenbank mit Zielzustand (ENC)
- eingebundene Module an Firmenstandards angepasst
- Bsp. Zugriffsmanagement - LDAP, oder SSH-Keyverteilung
- Bsp. Lizenzzähler - Port-Scanner Oracledatenbanken
- Bsp. ComplianceFramework - Linux Kernel IPv4 Routing
- Bsp. ComplianceFramework - /tmp hat noxec
- Bsp. DNS pro Rechenzentrum
- Bsp. NTP mit Stratum pro Rechenzentrum

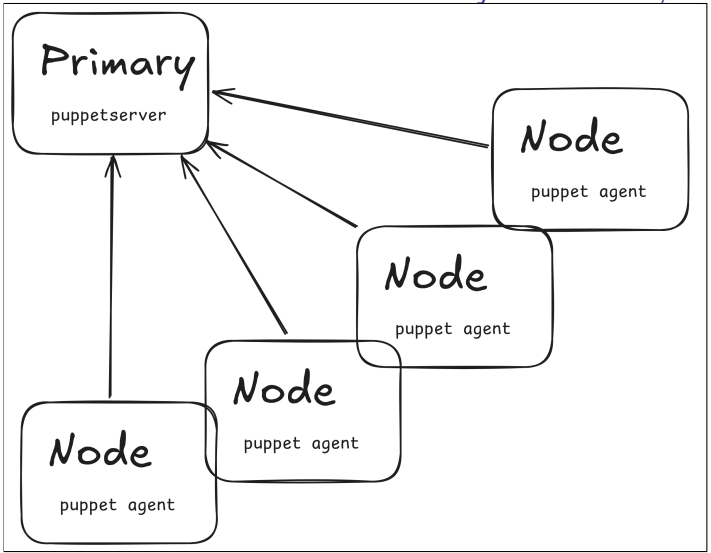
Ende des Software-Teiles

Architektur der Umgebungen

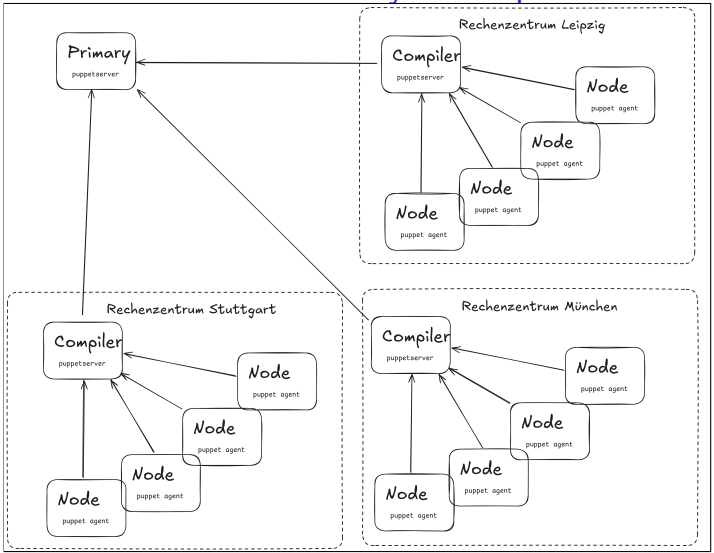
Serverless 1/3



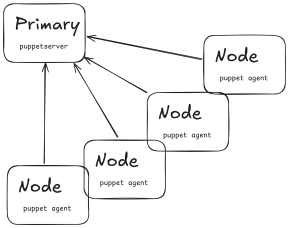
Primary - Nodes 2/3



Primary - Compiler - Nodes 3/3



Vorstellung der Umgebung



- Architektur
- `puppet query` + facts
- `puppet agent --environment`

1001 ways

of assigning

a class

to

a node

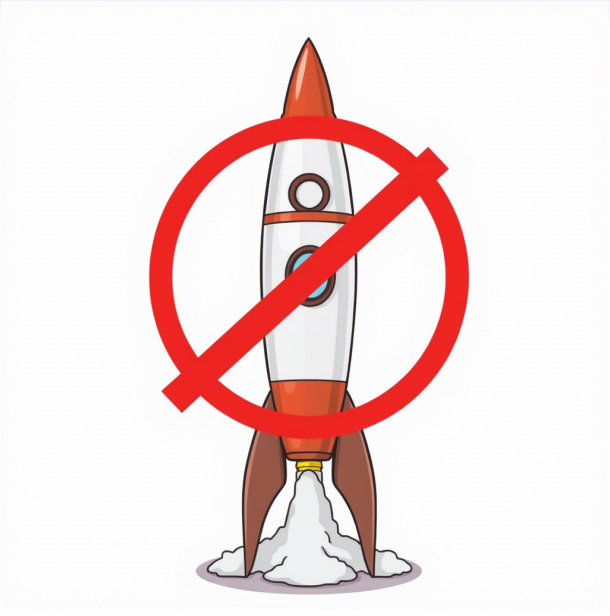
table of contents

`manifests/site.pp`

- `node{}`
- `lookup()`

External Node Classifiers

- Puppet Enterprise Web Console
- Foreman External Node Classifier



negative table of contents

- hiera intro Martin Alfke: Why does that node have that config,

  `https://dev.to/betadots/modern-puppet-node-classification-3ngk`
- puppet intro
- eyaml
- setup many teams
- setup many repositories
- setup access permissions

pattern

- present a piece of code
- articulate my experience with it

site.pp Puppet Doc style

```
node foo.bar.de {
  include bar
}
node baz.bar.de {
  include baz
}
node foo {
  inlude bar
}
node /./ {
  include companydefault
}
node /webserver/ {
  include webserer
}
```

hiera crash course 1/2 – automatic data binding

'hiera.yaml'

```
- name: "what's in a name?"
  paths:
    - common.yaml
```

'data/common.yaml'

```
---
profile::foo::bar: 1337
```

'modules/profile/manifests/foo.pp'

```
class profile::foo (
  $bar
){}
```

site.pp chain loading

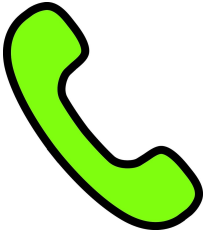
'site.pp'

```
include chainloader
```

'manifests/chainloader.pp'

```
class chainloader(
  $network_class = 'companystd::network'
){
  if $network_class && $network_class != 'disabled' {
    include $network_class
  }
}
```

Story of Peter



`site.pp` crash course

where the magic begins

- `node` only for educational purposes
- any puppet code
- each node
- at beginning of puppet run

'/etc/puppetlabs/puppet/ssl/csr_attributes.yaml'

```
---
extension_requests:
    pp_role: webserver
```

'manifests/site.pp'

```
contain  "role::${trusted.extensions.pp_role}"
```

- OID mapping `https://www.puppet.com/docs/puppet/8/config_file_csr_attributes.html`
- roles+profiles pattern

hiera crash course 2/2 – lookup()

- poors mans automatic data binding
- harder to mentally follow

'manifests/site.pp'

```
class_list=lookup('classes', Array[String], 'unique', '[]')
class_list.each |$c| {
  contain $c
}
```

`lookup()` in context – recap

```
nodes/foo.domain.yaml
  classes:
    - profile::dns
    - profile::ntp
datacenter/munich.yaml
  profile::ntp::server: '10.0.0.1'
  classes:
    - profile::backup
common.yaml
  classes:
    - profile::companystd
```

`knockout_prefix` does not work

`site.pp` recap

- `node`
- chainloader with default classes
- chainloader by `trusted::extenions::pp_role`
- `lookup().include`

`lookup()` reloaded

- What if `classes:` was a nested data structure instead of an array?
- What if we would do class ordering?

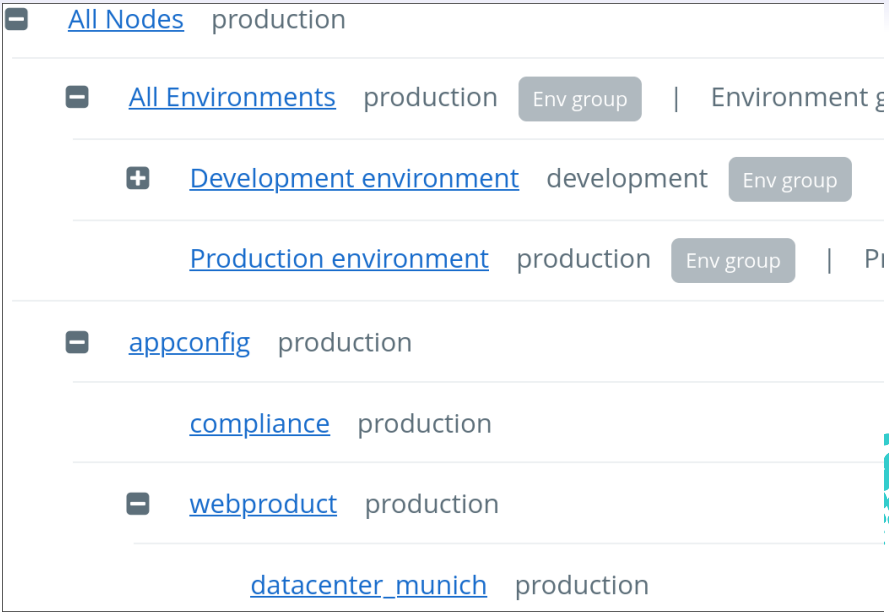
'common.yaml'

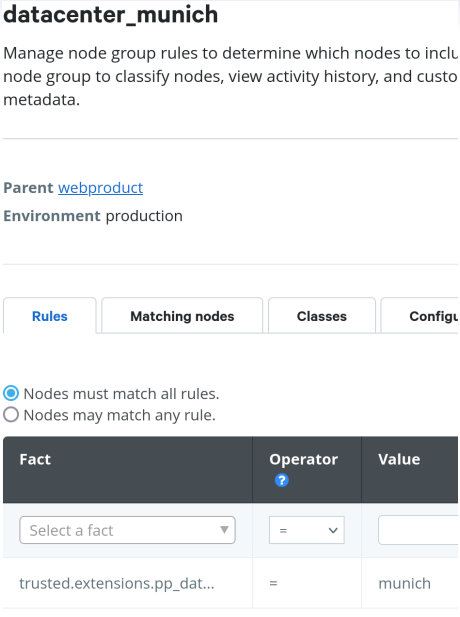
```
---
classes:
  - 10_dns
  - 10_ntp
  - 99_app
  - 50_firewall
```

External Node Classifier – ENC

scope as `site.pp`

- top scope variables
- classes
- automatic data binding
- node to environments


All Nodes production
All Environments production Env group | Environment g
Development environment development Env group
Production environment production Env group | Pr
appconfig production
compliance production
webproduct production
datacenter_munich production


datacenter_munich
Manage node group rules to determine which nodes to inclu
node group to classify nodes, view activity history, and custo
metadata.
Parent webproduct
Environment production
Rules
Matching nodes
Classes
Configu
Nodes must match all rules.
Nodes may match any rule.
Fact
Operator
Value
Select a fact
=
trusted.extensions.pp_dat...
=
munich

datacenter_munich

Manage node group rules to determine which nodes to include, configure the node group to classify nodes, view activity history, and customize node group metadata.

Parent webproduct

Environment production

Edit nod

Rules | Matching nodes | Classes | Configuration data

Set parameters, without declaring classes, for nodes in this group. Data is applied or

Class	Parameter		Value
Enter a class name	Enter a parameter n...	=	
pe_databases::pg_rep...	reports_tables_repack...	=	"debug"

datacenter_munich

Manage node group rules to determine which nodes to include, configure the node group to classify nodes, view activity history, and customize node group metadata.

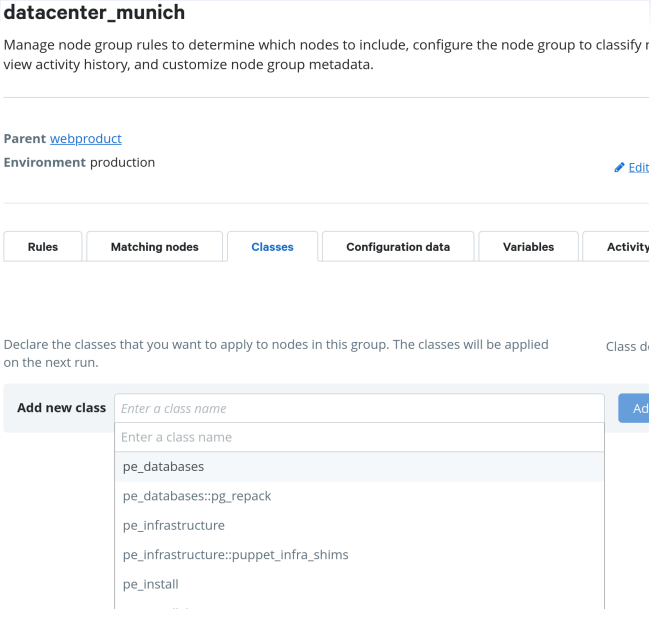
Parent webproduct

Environment production

Edit node group metac

Rules | Matching nodes | Classes | Configuration data | Variables

Key		Value
	=	
foo	=	"bar"


datacenter_munich
Manage node group rules to determine which nodes to include, configure the node group to classify n
view activity history, and customize node group metadata.
Parent webproduct
Environment production
Edit
Rules
Matching nodes
Classes
Configuration data
Variables
Activity
Declare the classes that you want to apply to nodes in this group. The classes will be applied
on the next run.
Class d
Add new class
Enter a class name
Ad
Enter a class name
pe_databases
pe_databases::pg_repack
pe_infrastructure
pe_infrastructure::puppet_infra_shims
pe_install

ENC story – Alex

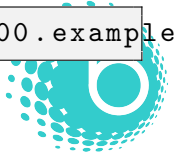
- could you update `monitoring.conf` on my machines?
- sure. How do I find them?
- by datacenter. Munich, Berlin, Frankfurt
- there are 4.000 hosts. Are you sure?
- Noooo!
- Can you provide me a list of FQDNs?
- here you are

```
host1.example.com
host2.example.com
...
host2000.example.com
```

ENC story – Alex

```
host1.example.com
host2.example.com
...
host2000.example.com
```

- how to input?
- RegEx!
- `(host1.example.com|host2.example.com|...|host2000.example.c`
- it is called *certificate pinning*



ENC story – Alex

- problem solved!
- database down

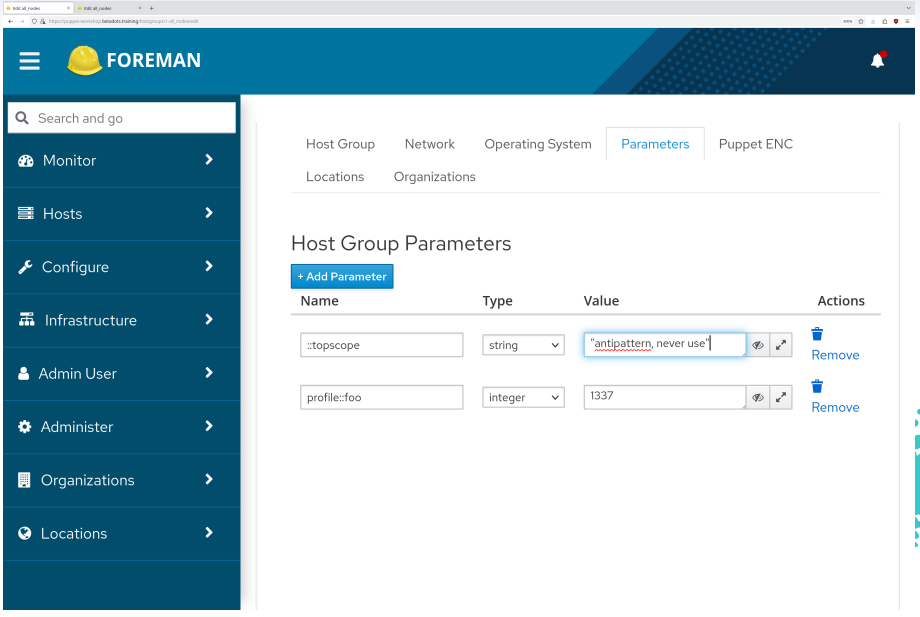
We use postgres.

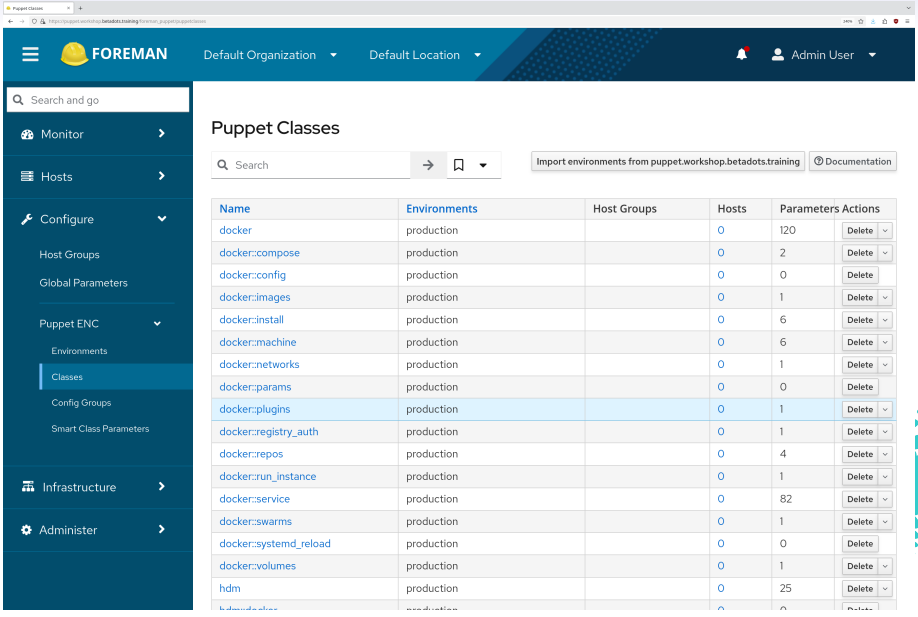
We transform PQL.
We do not optimize.
Expect the spinner.

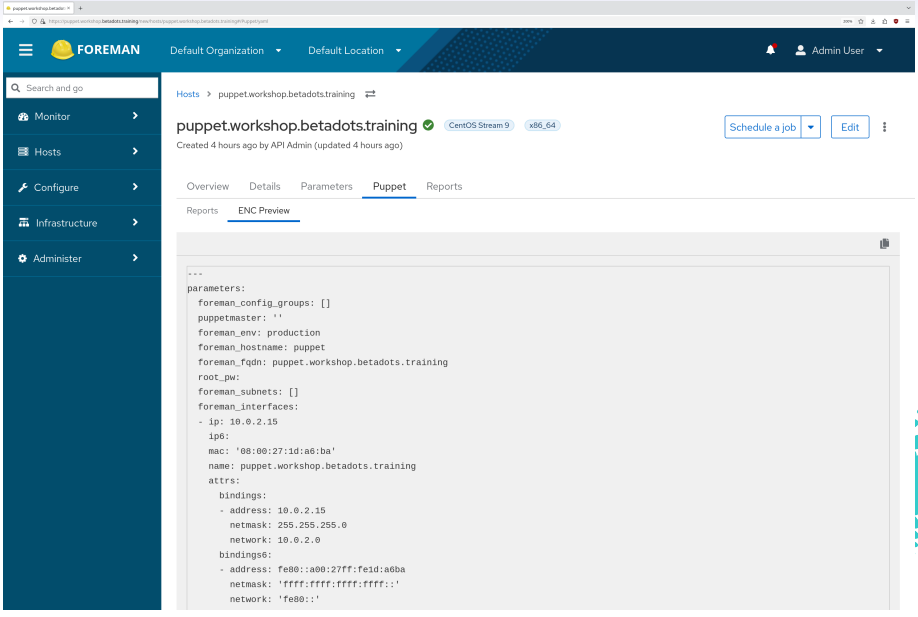
ENC RegEx story - Bernd

- special snowflake
- oncall 20:00
- *it is your automation system that broke our production service, all SSH-keys are gone, machine to machine communication destroyed, now you tell us why!*
- ...
- What if somebody had renamed those machines?
- Why are those called `ip` ?
-

```
for myhost in foo{00..40}; do ssh $myhost 'hostname -f ip -4 a s'; don
```


FOREMAN
Search and go
Monitor
Hosts
Configure
Infrastructure
Admin User
Administer
Organizations
Locations
Host Group
Network
Operating System
Parameters
Puppet ENC
Locations
Organizations
Host Group Parameters
+ Add Parameter
Name
Type
Value
Actions
::topscope
string
"antipattern, never use"
Remove
profile::foo
integer
1337
Remove


FOREMAN
Default Organization
Default Location
Admin User
Search and go
Monitor
Hosts
Configure
Host Groups
Global Parameters
Puppet ENC
Environments
Classes
Config Groups
Smart Class Parameters
Infrastructure
Administer
Puppet Classes
Search
Import environments from puppet.workshop.betadots.training
Documentation
Name
Environments
Host Groups
Hosts
Parameters
Actions
docker production 0 120 Delete
docker::compose production 0 2 Delete
docker::config production 0 0 Delete
docker::images production 0 1 Delete
docker::install production 0 6 Delete
docker::machine production 0 6 Delete
docker::networks production 0 1 Delete
docker::params production 0 0 Delete
docker::plugins production 0 1 Delete
docker::registry_auth production 0 1 Delete
docker::repos production 0 4 Delete
docker::run_instance production 0 1 Delete
docker::service production 0 82 Delete
docker::swarms production 0 1 Delete
docker::systemd_reload production 0 0 Delete
docker::volumes production 0 1 Delete
hdm production 0 25 Delete


FOREMAN
Default Organization
Default Location
Admin User
Search and go
Monitor
Hosts
Configure
Infrastructure
Administer
Hosts > puppet.workshop.betadots.training
puppet.workshop.betadots.training
CentOS Stream 9
x86_64
Created 4 hours ago by API Admin (updated 4 hours ago)
Schedule a job
Edit
Overview
Details
Parameters
Puppet
Reports
Reports
ENC Preview
---
parameters:
foreman_config_groups: []
puppetmaster: ''
foreman_env: production
foreman_hostname: puppet
foreman_fqdn: puppet.workshop.betadots.training
root_pw:
foreman_subnets: []
foreman_interfaces:
- ip: 10.0.2.15
ip6:
mac: '08:00:27:1d:a6:ba'
name: puppet.workshop.betadots.training
attrs:
bindings:
- address: 10.0.2.15
netmask: 255.255.255.0
network: 10.0.2.0
bindings6:
- address: fe80::a00:27ff:fe1d:a6ba
netmask: 'ffff:ffff:ffff:ffff::'
network: 'fe80::'

Foreman Hostsgroups - one host, one group

https://github.com/betadots/foreman-training/tree/main/03_configmanagement#variante-2-default-host-group-plugin

Fragen