

Ansible & DebOps

My experience on managing our
Debian servers from scratch

Infrastructure Overview

26 VMs @ ~okeanos

- 23/26 web-server
- 1/26 Ansible ctrler
- 1/26 VPN manager
- 1/26 LDAP server

3 VMs @ ViMa

- 2/3 web-servers
- 1/3 email-server

Infrastructure Overview

Application Server

- PHP (php-fpm)
- Ruby (Thin)
- Django (gUnicorn)

Database Server

- MariaDB
- PostgreSQL

Mail Server

- Postfix

Web Server

- NginX

VPN

- OpenVPN

All servers proudly run
Debian

Tackling the problem

- Need for easy server replication
 - host failure
 - development environment
- Easy understanding of server setup
- Server setup template (server are alike)
- Up to date service configuration
 - DebOps project's default settings

Infrastructure Management

Ansible

<https://docs.ansible.com>

- Minimal in nature
- Secure
- Developing roles/playbooks is easy and fast
- Highly configurable based on variables

DebOps

<https://debops.org/>

- 100+ highly extensible roles with sane defaults
- Built for modularity so extending it is simple
- Great documentation

Both software is licensed under GPL v3.0

Infrastructure Management

Ansible Controller VM

- Gitified ansible dir
- Fast network
- Highly available
- Good Specs

DebOps

- Set variable as
 - Host specific
 - Group specific
 - Universal
- Extend role with tasks
- Many services/
configurations
available
- Easily updatable
- Can support many
projects
 - Production
 - Development
- Custom playbooks
can reuse roles

Some of the roles/playbooks available

- NginX
- Apache
- MariaDB
- Postfix
- Php
- LibVirt
- LetsEncrypt
- User management
 - Groups
 - Files
 - ssh/sftp
- LVM
- Ferm (firewall)
- Swap

Demo???

Helpful Links

- <https://docs.ansible.com>
- <https://debops.org>