

Foreman as a Ansible fact caching tool

Toshaan Bharvani - VanTosh bvba

<toshaan@vantosh.com>



CfgMgmtCamp 2017



6 February 2016

\$ whoami

Toshaan Bharvani - VanTosh

- From Antwerp, Belgium
- Self-employed engineer/trainer (available for hire)
<http://www.vantosh.com>
- Involved with Enterprise OS : RHEL, CentOS, IBM AIX, OpenBSD, SLES, ...
- Likes to keep everything secure : SELinux, WebSec, ...
- Lives in a virtual world : KVM, Xen, LXC, PowerVM, z/VM, ...
- Likes automation : Ansible, Foreman, Puppet
- Works on both hardware and software side
- Wants to take over the world
- Twitter : [@toshywoshy](https://twitter.com/toshywoshy)
- Blog : <http://www.toshaan.com>

Table of contents

What is ... ?

The End

1 What is ... ?

What is ... ?

The End

1

What is ... ?

Introducing



“Ansible is a fictional machine capable of instantaneous or superluminal communication. Typically it is depicted as a lunch-box-sized object with some combination of microphone, speaker, keyboard and display. It can send and receive messages to and from a corresponding device over any distance whatsoever with no delay.”¹

- Configuration Management Tool
- System Orchestration Tool
- Remote Execution/Deployment Tool
- ...

¹Rocannon's World - Ursula K. Le Guin

Ansible internals

What is ... ?

The End

- Python2 based
- Server based, agentless²
- uses SSH (can use accelerated mode uses a daemon and port)
- host information in flat files, CMDB, scripts, ...
- executes a task on the host side
- Playbook : combination of tasks with meta information
 - YAML
 - JSON
- Templates : Jinja2
- works where Python2 works³

² Abstraction of SSH and in certain setup an agent might be required, but by default it is not necessary

³ Ansible can actually run without Python on the remote host, however it is not fully supported



Foreman is a complete lifecycle management tool for physical and virtual servers. We give system administrators the power to easily automate repetitive tasks, quickly deploy applications, and proactively manage servers, on-premise or in the cloud.

- Automate, discover, provision and upgrade infrastructure
- Ruby on Rails
- Can integrate with Puppet, Chef, Salt, Ansible, ...

Installing Foreman with Ansible

What is ... ?

The End

foreman-installer

–enable-foreman

–enable-foreman-cli

–enable-foreman-plugin-ansible

–enable-foreman-proxy-plugin-ansible

Installing Ansible with Foreman

What is ... ?

The End

```
/.ansible/plugins/callback/foreman.py
```

- Set FOREMAN_URL to the url of your foreman installation
- Set FOREMAN_SSL_CERT to the cert and key for your foreman installation

More information

What is ... ?

The End

- Ansible homepage : <http://www.ansible.com/>
- Ansible Github : <https://github.com/ansible/ansible>
- Foreman home : <http://www.theforeman.org/>
- Foreman Github : <https://github.com/foreman/foreman>

The End



Thank You



Toshaan Bharvani - VanTosh bvba <toshaan@vantosh.com>

<http://www.vantosh.com/>

Made with Beamer L^AT_EX
a T_EXbased Presentation program