

# Ansible tricks

Anand Buddhdev | 14/3/2016 | Ansible Meetup

#### **Ansible at RIPE NCC**



- Over 500 servers
  - DNS, BGP route collectors, Hadoop, ELK
- Playbooks in git repo
- Pull-mode
  - Distribution servers does "git pull"
  - Clients rsync from distribution server
  - "./playbook.yml -c local -l \$(hostname)"
- Push mode also possible from git repo checkout



# General tricks

# **Executable playbooks**



#!/usr/bin/env ansible-playbook

hosts: myhosts tasks:

- module1: params

- module2: params

\$ chmod +x playbook.yml \$ ./playbook.yml ...

#### Hostnames to IP addresses



```
{% for host in groups['kroot'] %}
{% set addrs = ( lookup('dig',host), lookup('dig',host+'/aaaa') ) %}
{% for addr in addrs | ipaddr %}
{{ addr }};
{% endfor %}
{% endfor %}
```

#### **Assert conditions**



- name: is hash merging set

assert:

that: "'{{ lookup('env','ANSIBLE\_HASH\_BEHAVIOUR') }}' == 'merge'"

tags: always



# Ansible 2 tricks

# **Blocks - grouping conditions**



- name: task 1

module1: params

when: condition

- name: task 2

module2: params

when: condition

#### **Blocks - grouping conditions**



- block:
  - name: task 1 module1: params
  - name: task 2 module2: params

when: condition

# Blocks - graceful recovery



- block:
  - name: vmtoolsd process command: pgrep vmtoolsd

#### rescue:

name: restart vmtoolsd
 service: name=vmtoolsd state=restarted

# Loops with multiple tasks



```
- name: task 1
 module1: param={{ item }}
 with items:
  a
  - b
- name: task 2
 module2: param={{ item }}
 with items:
  a
  - b
```

# Loops with includes



#### role/tasks/block.yml:

```
- name: task 1
module1: param={{ item }}
```

- name: task 2
 module2: param={{ item }}

#### role/tasks/main.yml:

- include: block.ymlwith items:
  - a
  - b