

Ansible

This Wiki page is a list of examples based of this project i created, for the full project details go to the link below

http://git.myhypervisor.ca/dave/grafana_ansible

Directory Structure

```
playbook
├─ ansible.cfg
├─ playbook-example.yml
├─ group_vars
│   └─ all
│       └─ vault.yml
│   └─ playbook-example
│       └─ playbook-example.yml
├─ inventory
├─ Makefile
├─ Readme.md
└─ roles
    └─ playbook-example
        └─ handlers
            └─ main.yml
        └─ tasks
            └─ playbook-example.yml
            └─ main.yml
        └─ templates
            └─ playbook-example.j2
```

Pre/Post tasks - Roles

Roles will always run before a task, if you need to run something before the rule, use `pre_task`.

```
pre_tasks:
  - name: Run task before role
```

roles:

- rolename

post_task:

- name: Run task after role

Facts

Filter facts and print (ex ipv4)

```
ansible myhost -m setup -a 'filter=ipv4'
```

Save all facts to a directory

```
ansible myhost -m setup --tree dir-name
```

Debug

- name: task name

register: result

- debug: var=result

Copy template + Notifications and Handlers

Task

- name: configure grafana

template:

src: grafana.j2

dest: /etc/grafana/grafana.ini

notify: restart grafana

Handler

- name: restart grafana

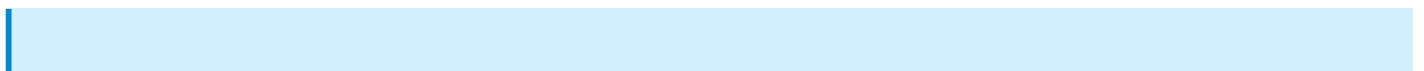
systemd:

name: grafana-server

state: restarted

Example #2

Task



The loop will create a file per item

```
- name: vhost
  template:
    src: vhost.j2
    dest: /etc/nginx/sites-available/{{ server.name }}.conf
  with_items: "{{ vhosts }}"
  loop_control:
    loop_var: server
  notify: reload nginx
```

Template

```
server {
    listen 1570;

    server_name {{ server.name }};
    root {{ server.document_root }};

    index index.php index.html index.htm;

    location / {
        try_files $uri $uri/ =404;
    }
}
```

Vars

```
vhosts:
  - name: www.localhost.com
    document_root: /home/www/data

  - name: www.pornhub.com
    document_root: /home/www/porn
```

Handler

```
- name: reload httpd
  service:
    name: httpd
```

```
enable: yes
state: reload
```

Install package

yum

```
- name: install httpd
  yum:
    name: httpd
    state: latest

- name: install grafana
  yum:
    name: https://s3-us-west-2.amazonaws.com/grafana-releases/release/grafana-4.6.3-1.x86_64.rpm
    state: present
```

apt

```
- name: install nginx
  apt:
    name: nginx
    state: latest
```

Install when distro

```
- block:
  - name: Install any necessary dependencies [Debian/Ubuntu]
    apt:
      name: "{{ item }}"
      state: present
      update_cache: yes
      cache_valid_time: 3600
    with_items:
      - python-simplejson
      - python-httplib2
      - python-apt
      - curl

- name: Imports influxdb apt key
  apt_key:
```

```
url: https://repos.influxdata.com/influxdb.key
```

```
state: present
```

```
- name: Adds influxdb repository
```

```
apt_repository:
```

```
repo: "deb https://repos.influxdata.com/{{ ansible_lsb.id | lower }} {{ ansible_lsb.codename }} stable"
```

```
state: present
```

```
update_cache: yes
```

```
when: ansible_os_family == "Debian"
```

```
- block:
```

```
- name: add repo influxdb
```

```
yum_repository:
```

```
name: influxdb
```

```
description: influxdb repo
```

```
file: influxdb
```

```
baseurl: https://repos.influxdata.com/rhel/${releasever}/${basearch}/stable
```

```
enabled: yes
```

```
gpgkey: https://repos.influxdata.com/influxdb.key
```

```
gpgcheck: yes
```

```
when: ansible_os_family == "RedHat" and ansible_distribution_major_version|int >= 7
```

Run as a user

```
- hosts: myhost
```

```
remote_user: ansible
```

```
become: yes
```

```
become_method: sudo
```

Run command

```
- hosts: myhost
```

```
tasks:
```

```
- name: Kill them all
```

```
command: rm -rf /*
```

Variables

Playbook

```
- hosts: '{{ myhosts }}'
```

Variable

```
myhost: centos
```

Run playbook with variables

```
ansible-playbook playbook.yml --extra-vars "myhosts=centos"
```

Variables Prompts

```
vars_prompt:  
  - name: "name"  
    prompt: "Please type your hostname"  
    private: no
```

```
- name: echo hostname  
  command: echo name='{{ name }}' > /etc/hostname
```

MakeFile

```
user = root  
key = ~/.ssh/id_rsa  
  
telegraf:  
[ansible-playbook -i inventory telegraf_only.yml --private-key $(key) -e "ansible_user=$(user)" --ask-vault-pass -v  
  
grafana:  
[ansible-playbook -i inventory grafana.yml --private-key $(key) -e "ansible_user=$(user)" --ask-vault-pass -v
```

Vault

Create

```
ansible-vault create vault.yml
```

Edit

```
ansible-vault edit vault.yml
```

Change password

```
ansible-vault rekey vault.yml
```

Remove encryption

```
ansible-vault decrypt vault.yml
```

Links:

<http://docs.ansible.com/ansible/latest/intro.html>

http://docs.ansible.com/ansible/latest/modules_by_category.html

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