

Basic - Playbooks

Monday, 8 January 2018

23:18

```
cat ansible_httpd.yaml
--- # This is structural YAML exmple to install HTTPD on CentOS7
servers
- hosts: centos
  remote_user: ansible
  become: yes
  become_method: sudo
  connection: ssh
  gather_facts: yes
  vars:
    username: myuser
  tasks:
    - name: Install HTTPD server on CentOS7 servers
      yum:
        name: httpd
        state: latest
      notify:
        - startservice
  handlers:
    - name: startservice
      service:
        name: httpd
        state: restarted
```

```
cat ansible_variable_tests.yaml
--- # This is to test the variables substitution vars section
- hosts: '{{ myhosts }}'
  remote_user: ansible
  become: yes
  become_method: sudo
  connection: ssh
  gather_facts: '{{ gather }}'
  vars:
    myhosts: centos
    gather: yes
    pkg: telnet
  tasks:
    - name: Install telnet package
      yum:
        name: '{{ pkg }}'
        state: latest
```

This will install ansible under hosts present - centos group

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```
>> ansible-playbook ansible_variable_tests.yaml
```

-- Uninstall packages using ansible ??

```
>> ansible centos -s -m yum -a "name=telnet state=absent"
```

```
cat ansible_variable_tests.yaml
--- # This is to test the variables substitution vars section
- hosts: '{{ myhosts }}'
  remote_user: ansible
  become: yes
  become_method: sudo
  connection: ssh
  gather_facts: '{{ gather }}'
  tasks:
    - name: Install telnet package
      yum:
        name: '{{ pkg }}'
        state: latest
```

Can you substitute variables by using command ??

```
ansible-playbook ansible_variable_tests.yaml --extra-vars
"myhosts=centos gather=yes pkg=telnet"
```

How to do debug ??

```
cat ansible_debug.yaml
--- # Playbook demo of debug and register statement
- hosts: centos
  remote_user: ansible
  become: yes
  become_method: sudo
  connection: ssh
  gather_facts: no
  tasks:
    - name: Installing telnet debug test for package telnet
      yum:
        name: telnet
        state: latest
        register: result
    - debug: var=result
```

How nginx module works ?

```
at ansible_nginx.yaml
--- # Notification and Handling events
- hosts: centos
  remote_user: ansible
  become: yes
```

```

become: yes
become_method: sudo
gather_facts: yes
connection: ssh
tasks:
- name: Install nginx web server
  yum:
    name: nginx
    state: latest
- name: enable nginx-start service
  service:
    name: nginx
    enabled: yes
    state: restarted

```

- What is the issue with this nginx service?

- It will restart for every nginx service arun -> "ansible-playbook ansible_notification_handler.yaml"
- This purpose you need 'notify handler' so that if you run multiple times, it will not restart.

```

cat ansible_nginx_notify_handler.yaml
--- # Notification and Handling events
- hosts: centos
  remote_user: ansible
  become: yes
  become_method: sudo
  gather_facts: yes
  connection: ssh
  tasks:
- name: Install nginx web server
  yum:
    name: nginx
    state: latest
  notify:
    - enable nginx-start service
handlers:
- name: enable nginx-start service
  service:
    name: nginx
    enabled: yes
    state: restarted

```