Create a playbook httpd.yml under ~/playbooks/ to install httpd package on web1 node using Ansible's yum module.

[thor@ansible-controller playbooks]\$ cat httpd.yml

---

- name: 'Install httpd package'

hosts: web1 tasks:

- name: 'Install httpd package'

yum:

name: httpd state: installed

[thor@ansible-controller playbooks]\$ ansible-playbook -i inventory httpd.yml

We have an rpm available for wget package on URL

http://mirror.centos.org/centos/7/os/x86\_64/Packages/wget-1.14-18.el7\_6.1.x86\_64.rpm. Create a playbook with name wget.yml under ~/playbooks to install that rpm on web1 node using yum module.

[thor@ansible-controller playbooks]\$ cat wget.yml

---

- name: 'Install rpm using url'

hosts: all tasks:

- name: 'Install rpm'

yum:

name: http://mirror.centos.org/centos/7/os/x86\_64/Packages/wget-1.14-18.el7\_6.1.x86\_64.rpm

state: installed

[thor@ansible-controller playbooks]\$ ansible-playbook -i inventory wget.yml

There is a playbook under ~/playbooks named as unzip.yml to install unzip package on web1 node. We want to install unzip-5.52 version of this package so before running the playbook make the required changes.

[thor@ansible-controller playbooks]\$ cat unzip.yml

---

hosts: all tasks:

- name: Install unzip package

yum:

name: unzip-5.52 state: present

[thor@ansible-controller playbooks]\$ ansible-playbook -i inventory unzip.yml

Our playbook - iotop.yml - to install the latest version of iotop package keeps failing. Please fix the issue so that playbook can work.

The playbook is located under ~/playbooks directory. And the inventory file is inventory

[thor@ansible-controller playbooks]\$ cat iotop.yml
--- hosts: all
 tasks:
 - name: Install iotop package
 yum:
 name: iotop
 state: latest

[thor@ansible-controller playbooks]\$ ansible-playbook -i inventory iotop.yml

We want to install some more packages on web1 node. Create a playbook ~/playbooks/multi-pkgs.yml to install the latest version of sudo package, moreover we already have vsftpd v3.0.2 installed but due to some compatibility issues we want to install vsftpd v2.2.2 so add a task in same playbook to do so.

[thor@ansible-controller playbooks]\$ cat multi-pkgs.yml

---

name: 'Install' hosts: web1 tasks:

- name: 'Install' yum:

name: sudo state: latest - name: 'Install' yum:

name: vsftpd-2.2.2 state: present

allow\_downgrade: yes

[thor@ansible-controller playbooks]\$ ansible-playbook -i inventory multi-pkgs.yml

We would like the httpd service on web1 node to always start automatically after the system reboots. Update the httpd.yml playbook you created earlier with the required changes.

[thor@ansible-controller playbooks]\$ cat httpd.yml

---

- name: 'Service status'

hosts: all tasks:

- name: 'Service status'

service: name: httpd state: started enabled: true

[thor@ansible-controller playbooks]\$ ansible-playbook -i inventory httpd.yml

Create a playbook httpd.yml under ~/playbooks directory to make sure httpd service is started on web1 node. You can use ~/playbooks/inventory

[thor@ansible-controller playbooks]\$ cat httpd.yml

---

- name: 'Service status'

hosts: all tasks:

- name: 'Service status'

service: name: httpd state: started

[thor@ansible-controller playbooks]\$ ansible-playbook -i inventory httpd.yml

We have a playbook ~/playbooks/file.yml to copy a file with a welcome message under httpd server's document root on web1 node. Make changes in the playbook so that httpd server reloads after copying the file, make sure it does not restart the httpd server.

[thor@ansible-controller playbooks]\$ cat file.yml

---

hosts: all gather\_facts: no

tasks:

- name: Copy Apache welcome file

copy:

src: index.html

dest: /var/www/html/index.html

- name: Reload server

service: name: httpd state: reloaded

[thor@ansible-controller playbooks]\$ ansible-playbook -i inventory file.yml

We would like the httpd service on web1 node to always start automatically after the system reboots. Update the httpd.yml playbook you created earlier with the required changes.

[thor@ansible-controller playbooks]\$ cat httpd.yml

---

- name: 'Service status'

hosts: all tasks:

- name: 'Service status'

service: name: httpd state: started enabled: true

[thor@ansible-controller playbooks]\$ ansible-playbook -i inventory httpd.yml

We created a playbook ~/playbooks/config.yml to enable port 443 for httpd on web1 node as we want to run nginx on the default port 80 so port 80 needs to be free. Make changes in the playbook so that httpd service restarts after making these change.

[thor@ansible-controller playbooks]\$ cat config.yml

---

hosts: all gather\_facts: no tasks:

- name: Make changes in Apache config

replace:

path: /etc/httpd/conf/httpd.conf

regexp: "^Listen 80" replace: "Listen 443" - name: Restart httpd

service: name: httpd state: restarted

[thor@ansible-controller playbooks]\$ ansible-playbook -i inventory config.yml

Create a playbook ~/playbooks/nginx.yml to install nginx on web1 node and make sure nginx service is started and should always start even after the system reboots.

[thor@ansible-controller playbooks]\$ cat nginx.yml

---

- name: Nginx service

hosts: all tasks:

- name: Nginx

yum:

name: nginx state: installed - name: Nginx service: name: nginx state: started enabled: true

[thor@ansible-controller playbooks]\$ ansible-playbook -i inventory nginx.yml