

Ansible Facts Gathering

TASK

The Nautilus DevOps team is trying to setup a simple Apache web server on all app servers in Stratos DC using Ansible. They also want to create a sample html page for now with some app specific data on it. Below you can find more details about the task.

You will find a valid inventory file `/home/thor/playbooks/inventory` on jump host (which we are using as an Ansible controller).

Create a playbook `index.yml` under `/home/thor/playbooks` directory on jump host. Using `blockinfile` Ansible module create a file `facts.txt` under `/root` directory on all app servers and add the following given block in it. You will need to enable facts gathering for this task.

Ansible managed node architecture is `<architecture>`

(You can obtain the system architecture from Ansible's gathered facts by using the correct Ansible variable while taking into account Jinja2 syntax)

Install `httpd` server on all apps. After that make a copy of `facts.txt` file as `index.html` under `/var/www/html` directory. Make sure to start `httpd` service after that.

Note: Do not create a separate role for this task, just add all of the changes in `index.yml` playbook.

Solution

- Create `index.yml` by

```
1 vi home/thor/playbooks/index.yml
```

- copy paste this and save by `wq!`

```
1 ---
2 - name: Setup Apache and create a dynamic index.html page
3   hosts: all
4   become: yes
5   gather_facts: yes
6
7   tasks:
8     - name: Create facts.txt with system architecture using blockinfile
9       blockinfile:
10         path: /root/facts.txt
11         block: |
12           Ansible managed node architecture is {{ ansible_architecture }}
```

```
13     create: yes
14
15 - name: Install httpd package
16   yum:
17     name: httpd
18     state: present
19
20 - name: Copy facts.txt to index.html for the web server
21   copy:
22     src: /root/facts.txt
23     dest: /var/www/html/index.html
24     remote_src: yes
25     owner: root
26     group: root
27     mode: '0644'
28
29 - name: Ensure httpd service is started and enabled on boot
30   systemd:
31     name: httpd
32     state: started
33     enabled: yes
```

- After saving above file run

```
1 ansible-playbook -i /home/thor/playbooks/inventory /home/thor/playbooks/index.yml
```