Ansible

Infrastructure as a code

## Inventory

Vi /etc/ansible/hosts

ansible --list-hosts all

instaed of that you can create a local folder

~/ansible

#cat >> dev << EOF  
[lb]

Lb01

Lb02

[control]

localhost ansible\_connection=local

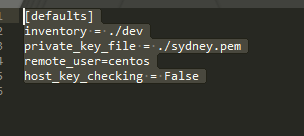
EOF

#ansible -i dev --list-hosts all

#vi /etc/ansible/ansible.cfg

To override the default host file which is set in /etc/ansible/ansible.cfg

Create an ansible.cfg in your working ansible folder with the following entry



[root@ip-172-31-21-58 ansible]# ansible --list-host lb[0]

hosts (1):

Lb01

[root@ip-172-31-21-58 ansible]# ansible --list-host \!lb

hosts (1):

localhost

## #ad-hoc commands

-m command is default

# ansible -m ping all # -m module

#ansible -m shell -a ‘hostname’ all

# ansible -m command -a 'hostname' all # same # ansible -a 'hostname' all

# ansible -a -b --become-user=centos all -m shell -a 'whoami'

<https://docs.ansible.com/ansible/latest/modules/modules_by_category.html>

## playbook

use YAML - yet another markup language

cat >> hostsnames.yml<< EOF

---

- hosts: all

tasks:

- command: hostname

…

EOF

[root@ip-172-31-21-58 ansible]# cat playbooks/hostnames.yml ### to add labels

---

- hosts: all

tasks:

- name: get server hostname

shell: hostname

…

# cat >> gitinstall.yml << EOF

- hosts: "{{ hostname }}"

  gather\_facts: False

  vars:

    - packages: ["git", "nmap"]

  tasks:

    - name: Installing {{ packages }} on {{ hostname }}

      yum:

        name: "{{ item }}"

        state: present

      with\_items: "{{ packages }}"

EOF

ansible-playbook install\_git.yaml --extra-vars="hostname=localhost"

This method of passing in variables is the most flexible and, for specific types of playbooks, can be the most desirable.