[Webserver] Server[a:d].lab.example.com [Raleigh] server[a:b].lab.example.com [Mountain_View] serverc.lab.example.com [London] serverd.lab.example.com [Development] servera.lab.example.com [Testing] serverb.lab.example.com [Production] server[c:d].lab.example.com

Solution to Question

ansible.cfg Presendence

[us:children]

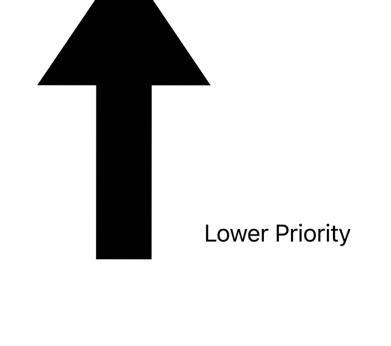
Mountain_View

Raleigh

2. Search for ansible.cfg in present working directory 3. It will search for .ansible.cfg in present working directory

1. If you define the Environment Variable "ANSIBLE_CONFIG="

- 4. Then consider the global config file (/etc/ansible/ansible.cfg)



Higher Priority

-b: become (apply sudo while running task)

-k: Prompt for SSH password

For Permanent Entry:

Privilege Escalation

-K: Prompt for Sudo Password

[defaults] inventory= /home/control/ansible/inventory [privilege_escalation] become=True become_method=sudo become_user=root become_ask_pass=False

A file to write the Desired state of managed nodes A collection of plays

PlayBook

Play: A set of tasks to be executed on a particular host or set of hosts

YAML Ain't Markup Language Yet Another Markup Language

YAML

Extensions: .yml

.yaml

```
LIST
                                                                                                                DICTIONARY
                 Ordered sequence of related objects
                                                                                                 Unordered sequence of defining a single object
                             Fruits
                                                                                                              Person:
                              - Apple
                                                                                                               Name: Ansible
                             - Banana
                                                                                                               Age: 9 yrs
                             - Mango
                                                                                                               Hometown: USA
                              - Grapes
        When you want to define multiple values of a single key,
                                                                                                When you want to define properties of an object,
                             we use list
                                                                                                              we use dictionary
                   DICTIONARY IN A LIST
                                                                                                        LIST IN A DICTIONARY
                                                                                                         Person:
                        Fruits
                                                                                                          Name: Ansible
                        - Apple:
                                                                                                          Age: 9 yrs
                           Calories: 445kcal
                                                                                                          Hometown: USA
                           Protein: 2.2g
                                                                                                          Hobbies:
                           Fat: 1.3g
                                                                                                            - Configuration management
                        - Banana
                                                                                                            - Automation
                        - Mango:
                                                                                                            - Fast
                           Calories: 322kcal
                                                                                                            - Secure
                           Fat: 2.5g
                                                                                                           Parents: RedHat
                        - Grapes
                              QUERY
                                                                                                                   QUERY
I want value of the Calories of Mango == Fruits[2].Calories == 322kcal
                                                                                    I want value of the 3rd Hobby of Ansible == Person.Hobbies[2] == Fast
     I want value of Protein in Apple == Fruits[0].Protein == 2.2g
                                                                                    I want the Parents information of Ansible == Person.Parents == RedHat
```

name: First Play of First Playbook - name: Install a package

hosts: all

- name: First Play of First Playbook

- name: Install a package

hosts: all

dnf:

name: php

state: present

tasks:

tasks:

Playbook Example

ansible-playbook <name_of_playbook>.yml

Document Marker

#Hosts of First Play

#Tasks of First Play

"name": "First Play of First Playbook",

"name": "Install a package",

"hosts": "all",

"tasks": [

#First Play

#1st Task

```
dnf:
      name: php
      state: present
                                                   #2nd Task
 - name: Create a User
   user:
      name: abcd
                                                  #3rd Task
 - name: Start a service
   service:
      name: php
      state: started
name: Second Play of First Playbook
                                                  #Second Play
hosts: prod
                                                   #Hosts of Second Play
tasks:
                                                   #Tasks of Second Play
                                                   #1st Task
  - copy:
      src: newfile.txt
      dest: /
                                        Vs.
         YAML
                                                                   JSON
```

```
"dnf": {
 - name: Create a User
                                                                                                        "name": "php",
  user:
                                                                                                        "state": "present"
   name: abcd
 - name: Start a service
  service:
   name: httpd
                                                                                                      "name": "Create a User",
   state: started
                                                                                                      "user": {
                                                                                                        "name": "abcd"
- name: Second Play of First Playbook
hosts: prod
tasks:
 - copy:
                                                                                                      "name": "Start a service",
   src: newfile.txt
                                                                                                      "service": {
   dest:/
                                                                                                        "name": "httpd",
                                                                                                        "state": "started"
                                                                                                  "name": "Second Play of First Playbook",
                                                                                                  "hosts": "prod",
                                                                                                  "tasks": [
                                                                                                      "copy": {
                                                                                                        "src": "newfile.txt",
                                                                                                        "dest": "/"
                                            Ignore Errors
                        - name: Install a package
                             dnf:
```

Ansible Tags

ansible-playbook play2.yml --tags=new_content

ansible-playbook play2.yml --skip-tags=new_content

name: pp

state: present

ignore_errors: true

```
name: New playbook
hosts: all
tasks:
  - name: Add line in file
    lineinfile:
      path: /newfile.txt
      line: "WE ADDED A LINE"
    tags:
      new_content
      - my_tasks
  - name: Install Haproxy
    dnf:
      name: haproxy
      state: present
    tags:
      my_tasks
   name: user creation
    user:
      name: newuser
    tags:
      - my_tasks
hosts: prod
tasks:
  - copy:
      src: content.txt
      dest: /home/content.txt
```

RAAP 2.0 Red Hat Ansible Automation Platform 2.0

Ansible Core + Ansible Content Collections + Ansible Content Navigator + Ansible Execution Environments

FQCN Fully Qualified Collection Name

Ansible Navigator

TUI (Text User Interface)

```
Sending Info
CN
                                                            MN
                         Receiving Info
```