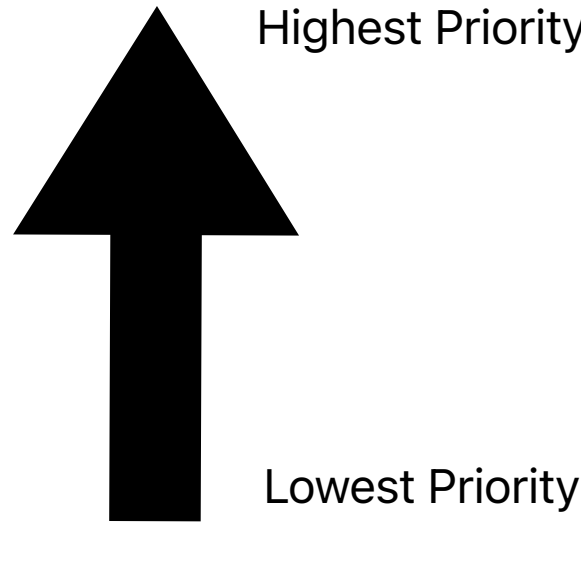


Ansible.cfg File Precedence

- Define the environment variable ANSIBLE_CONFIG=
- **It will try to find the ansible.cfg in your present working directory**
- It will search for an .ansible.cfg
- Will consider the default global config file (/etc/ansible/ansible.cfg)



Highest Priority

Lowest Priority

Inventory File

```
192.168.137.128 ansible_user=mn1           #Ungrouped Hosts
10.0.0.1
192.11.11.11
abc.lab.example.com

[prod]                                     #Grouped Hosts
12.12.12.12
13.13.13.13

[test]
10.0.0.1
12.12.12.12
test.server.com

[admin]
3.[1:3].0.[0:5]                           #Using Patterns and Ranges
server[a:e].lab.example.com

[technical:children                        #Parent Group
prod
test
```

Solution to the question given:

```
[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
```

```
[us:children]
Raleigh
Mountain_View
```

Privilege Escalation

For Single time uses:

To Become (to apply "sudo" in front on your command): -b

To ask for the Sudo Password: -K

For Permanent:

Entry inside ansible.cfg file

```
[defaults]

inventory= /home/control/ansible/inventory

[privilege_escalation]
become=True
become_method=sudo
become_user=root
become_ask_pass=False

~
~
~
~
```

PlayBooks

A Collection of Multiple plays

Plays

A set of tasks that are to be executed on a particular host (inventory)

YAML

Yet Another Markup Language
YAML ain't Markup Language

Extensions:

.yaml
.yml

YAML and JSON

LIST

Ordered sequence of related objects

Fruits:

- Apple
- Banana
- Mango
- Grapes

DICTIONARY

Unordered sequence of objects

Person:

- Name: Ansible
- Age: 10 years
- Hometown: USA
- Year of Birth: 2015

DICTIONARY IN A LIST

Fruits:

- Apple:
 - Protein: 3.2g
 - Carbs: 320kcal
 - Fat: 1.1g
- Banana
- Mango:
 - Protein: 6.2g
 - Carbs: 112kcal
 - Fat: 2.3g
- Grapes

LIST IN A DICTIONARY

Person:

- Name: Ansible
- Age: 10 years
- Hometown: USA
- Year of Birth: 2015
- Hobbies:
 - Automation
 - Management
 - Infrastructure
- Parents Name: Red Hat

3 Things to work with YAML:

Indentation
Dashes
Colons

YAML

Vs.

JSON

```
---
- name: First play of First Playbook
  hosts: all
  tasks:
    - name: Task one (Install a Package)
      yum:
        name: httpd
        state: present
    - name: Task two (Create a User)
      user:
        name: abcde
- hosts: prod
  tasks:
    - copy:
        src: content.txt
        dest: /abc.txt
    - file:
        path: /tmp/qwerty
        state: directory

[
  {
    "name": "First play of First Playbook",
    "hosts": "all",
    "tasks": [
      {
        "name": "Task one (Install a Package)",
        "yum": {
          "name": "httpd",
          "state": "present"
        }
      },
      {
        "name": "Task two (Create a User)",
        "user": {
          "name": "abcde"
        }
      }
    ]
  },
  {
    "hosts": "prod",
    "tasks": [
      {
        "copy": {
          "src": "content.txt",
          "dest": "/abc.txt"
        }
      },
      {
        "file": {
          "path": "/tmp/qwerty",
          "state": "directory"
        }
      }
    ]
  }
]
```

```
--- # Document Marker

- name: First play of First Playbook # First Play
  hosts: all
  tasks:
    - name: Task one (Install a Package) # Fist Task
      yum:
        name: httpd
        state: present

    - name: Task two (Create a User) # Second Task
      user:
        name: abcde

- hosts: prod # Second Play
  tasks:
    - copy: # First Task (Play 2)
        src: content.txt
        dest: /abc.txt

    - file: # Second Task (Play 2)
        path: /tmp/qwerty
        state: directory
```