



- - Inventory
 - /etc/ansible
 - Ansible-Palybook
 - YAML JSON
 - Playbook vars
 - Playbook vars_files
 - Register
 - vars_prompt

Playbook Ansible-Playbook

Inventory

key debug Nginx debug

hosts

```
172.17.0.16 key=16
172.17.0.17 key=17
172.17.0.18 key=18
[nginx]
172.17.0.1[6:8]
[nginx:vars]
ansible_python_interpreter=/usr/bin/python2.7
```

Playbook

variable.yaml

```
---
- hosts: all
  gather_facts: False
  tasks:
    - name: diplay Host Variable from hostfile
      debug: msg="The {{ inventory_hostname }} Vaule is {{ key }}"
```

variable.yaml

```
$ ansible-playbook variable.yaml -i hosts
```

```

root@cicd:/tmp/ansible1# ansible-playbook variable.yaml -i hosts

PLAY [all] *****

TASK [diplay Host Variable from hostfile] *****
ok: [172.17.0.16] => {
  "msg": "The 172.17.0.16 Vaule is 16"
}
ok: [172.17.0.17] => {
  "msg": "The 172.17.0.17 Vaule is 17"
}
ok: [172.17.0.18] => {
  "msg": "The 172.17.0.18 Vaule is 18"
}

PLAY RECAP *****
172.17.0.16      : ok=1    changed=0    unreachable=0    failed=0
172.17.0.17      : ok=1    changed=0    unreachable=0    failed=0
172.17.0.18      : ok=1    changed=0    unreachable=0    failed=0

root@cicd:/tmp/ansible1#

```

Key

Hosts Key

```

hosts

#172.17.0.16  key=16
#172.17.0.17  key=17
#172.17.0.18  key=18
[nginx]
172.17.0.1[6:8]
[nginx:vars]
ansible_python_interpreter=/usr/bin/python2.7key=nginx

```

```

variable.yaml

$ ansible-playbook variable.yaml -i hosts

```

```

root@cicd:/tmp/ansible1# ansible-playbook variable.yaml -i hosts

PLAY [all] *****

TASK [diplay Host Variable from hostfile] *****
ok: [172.17.0.16] => {
  "msg": "The 172.17.0.16 Vaule is nginx"
}
ok: [172.17.0.17] => {
  "msg": "The 172.17.0.17 Vaule is nginx"
}
ok: [172.17.0.18] => {
  "msg": "The 172.17.0.18 Vaule is nginx"
}

PLAY RECAP *****
172.17.0.16      : ok=1    changed=0    unreachable=0    failed=0
172.17.0.17      : ok=1    changed=0    unreachable=0    failed=0
172.17.0.18      : ok=1    changed=0    unreachable=0    failed=0

root@cicd:/tmp/ansible1#

```

/etc/ansible

Yum Apt Ansible /etc/ansible host_vars group_vars

```

root@cicd:/etc/ansible# tree
.
├── ansible.cfg
├── group_vars
│   └── nginx
├── hosts
├── host_vars
│   ├── 172.17.0.16
│   ├── 172.17.0.17
│   └── 172.17.0.18
└── roles

3 directories, 6 files
root@cicd:/etc/ansible# head host_vars/*
==> host_vars/172.17.0.16 <==
key: 172.17.0.16

==> host_vars/172.17.0.17 <==
key: 172.17.0.17

==> host_vars/172.17.0.18 <==
key: 172.17.0.18
root@cicd:/etc/ansible# cat group_vars/nginx
key: NGINX
root@cicd:/etc/ansible#

```

Inventory

hosts

```

[nginx]
172.17.0.1[6:8]
[nginx:vars]
ansible_python_interpreter=/usr/bin/python2.7

```

variable.yaml

variable.yaml

```
$ ansible-playbook variable.yaml
```

```

root@cicd:/tmp/ansible1# ansible-playbook variable.yaml

PLAY [all] *****

TASK [diplay Host Variable from hostfile] *****
ok: [172.17.0.17] => {
  "msg": "The 172.17.0.17 Vaule is 172.17.0.17"
}
ok: [172.17.0.18] => {
  "msg": "The 172.17.0.18 Vaule is 172.17.0.18"
}
ok: [172.17.0.16] => {
  "msg": "The 172.17.0.16 Vaule is 172.17.0.16"
}

PLAY RECAP *****
172.17.0.16      : ok=1    changed=0    unreachable=0    failed=0
172.17.0.17      : ok=1    changed=0    unreachable=0    failed=0
172.17.0.18      : ok=1    changed=0    unreachable=0    failed=0

root@cicd:/tmp/ansible1#

```

Key host_vars

variable.yaml

```
$ rm -rf /etc/ansible/host_vars/*
$ ansible-playbook variable.yaml
```

```

root@cicd:/tmp/ansible1# ansible-playbook variable.yaml

PLAY [all] *****

TASK [diplay Host Variable from hostfile] *****
ok: [172.17.0.16] => {
  "msg": "The 172.17.0.16 Vaule is NGINX"
}
ok: [172.17.0.17] => {
  "msg": "The 172.17.0.17 Vaule is NGINX"
}
ok: [172.17.0.18] => {
  "msg": "The 172.17.0.18 Vaule is NGINX"
}

PLAY RECAP *****
172.17.0.16      : ok=1    changed=0    unreachable=0    failed=0
172.17.0.17      : ok=1    changed=0    unreachable=0    failed=0
172.17.0.18      : ok=1    changed=0    unreachable=0    failed=0

root@cicd:/tmp/ansible1#

```

group_vars

Ansible-Palybook

variable.yaml

```
$ ansible-playbook variable.yaml -e "key=Nginx"
```

```
root@cid:/tmp/ansible1# ansible-playbook variable.yaml -e "key=Nginx"
PLAY [all] *****
TASK [diplay Host Variable from hostfile] *****
ok: [172.17.0.16] => {
  "msg": "The 172.17.0.16 Vaule is Nginx"
}
ok: [172.17.0.17] => {
  "msg": "The 172.17.0.17 Vaule is Nginx"
}
ok: [172.17.0.18] => {
  "msg": "The 172.17.0.18 Vaule is Nginx"
}
PLAY RECAP *****
172.17.0.16      : ok=1    changed=0    unreachable=0    failed=0
172.17.0.17      : ok=1    changed=0    unreachable=0    failed=0
172.17.0.18      : ok=1    changed=0    unreachable=0    failed=0
root@cid:/tmp/ansible1#
```

YAML JSON

YAML

variable.yaml

```
$ echo -e "---\nkey: YAML" > var.yaml
$ ansible-playbook variable.yaml -e "@var.yaml"
```

```
root@cid:/tmp/ansible1# echo -e "---\nkey: YAML" > var.yaml
root@cid:/tmp/ansible1# cat var.yaml
---
key: YAML
root@cid:/tmp/ansible1# ansible-playbook variable.yaml -e "@var.yaml"
PLAY [all] *****
TASK [diplay Host Variable from hostfile] *****
ok: [172.17.0.16] => {
  "msg": "The 172.17.0.16 Vaule is YAML"
}
ok: [172.17.0.17] => {
  "msg": "The 172.17.0.17 Vaule is YAML"
}
ok: [172.17.0.18] => {
  "msg": "The 172.17.0.18 Vaule is YAML"
}
PLAY RECAP *****
172.17.0.16      : ok=1    changed=0    unreachable=0    failed=0
172.17.0.17      : ok=1    changed=0    unreachable=0    failed=0
172.17.0.18      : ok=1    changed=0    unreachable=0    failed=0
root@cid:/tmp/ansible1#
```

JSON

variable.yaml

```
$ echo -e '---\n{"key": "JSON"}' > var.json
$ ansible-playbook variable.yaml -e "@var.json"
```

```

root@cicd:/tmp/ansible1# cat var.json
---
{"key": "JSON"}
root@cicd:/tmp/ansible1# ansible-playbook variable.yaml -e "@var.json"

PLAY [all] *****

TASK [diplay Host Variable from hostfile] *****
ok: [172.17.0.16] => {
  "msg": "The 172.17.0.16 Vaule is JSON"
}
ok: [172.17.0.17] => {
  "msg": "The 172.17.0.17 Vaule is JSON"
}
ok: [172.17.0.18] => {
  "msg": "The 172.17.0.18 Vaule is JSON"
}

PLAY RECAP *****
172.17.0.16      : ok=1    changed=0    unreachable=0    failed=0
172.17.0.17      : ok=1    changed=0    unreachable=0    failed=0
172.17.0.18      : ok=1    changed=0    unreachable=0    failed=0
root@cicd:/tmp/ansible1#

```

Playbook vars

Playbook vars

Playbook

variable.yaml

```

---
- hosts: all
  gather_facts: False
  vars:
    key: Ansible
  tasks:
    - name: diplay Host Variable from hostfile
      debug: msg="The {{ inventory_hostname }} Vaule is {{ key }}"

```

```

root@cicd:/tmp/ansible2# cat variable.yaml
---
- hosts: all
  gather_facts: False
  vars:
    key: Ansible
  tasks:
    - name: diplay Host Variable from hostfile
      debug: msg="The {{ inventory_hostname }} Vaule is {{ key }}"

root@cicd:/tmp/ansible2# ansible-playbook variable.yaml

PLAY [all] *****

TASK [diplay Host Variable from hostfile] *****
ok: [172.17.0.16] => {
  "msg": "The 172.17.0.16 Vaule is Ansible"
}
ok: [172.17.0.17] => {
  "msg": "The 172.17.0.17 Vaule is Ansible"
}
ok: [172.17.0.18] => {
  "msg": "The 172.17.0.18 Vaule is Ansible"
}

PLAY RECAP *****
172.17.0.16      : ok=1    changed=0    unreachable=0    failed=0
172.17.0.17      : ok=1    changed=0    unreachable=0    failed=0
172.17.0.18      : ok=1    changed=0    unreachable=0    failed=0
root@cicd:/tmp/ansible2#

```

Playbook vars_files

env file

Playbook

variable.yaml

```
---
- hosts: all
  gather_facts: False
  vars_files:
    - var.yaml
  tasks:
    - name: diplay Host Variable from hostfile
      debug: msg="The {{ inventory_hostname }} Vaule is {{ key }}"
```

```
:
root@cid:/tmp/ansible2# cat variable.yaml
---
- hosts: all
  gather_facts: False
  vars_files:
    - var.yaml
  tasks:
    - name: diplay Host Variable from hostfile
      debug: msg="The {{ inventory_hostname }} Vaule is {{ key }}"
root@cid:/tmp/ansible2# cat var.yaml
---
key: YAML
root@cid:/tmp/ansible2# ansible-playbook variable.yaml
PLAY [all] *****

TASK [diplay Host Variable from hostfile] *****
ok: [172.17.0.16] => {
  "msg": "The 172.17.0.16 Vaule is YAML"
}
ok: [172.17.0.17] => {
  "msg": "The 172.17.0.17 Vaule is YAML"
}
ok: [172.17.0.18] => {
  "msg": "The 172.17.0.18 Vaule is YAML"
}

PLAY RECAP *****
172.17.0.16      : ok=1    changed=0    unreachable=0    failed=0
172.17.0.17      : ok=1    changed=0    unreachable=0    failed=0
172.17.0.18      : ok=1    changed=0    unreachable=0    failed=0
root@cid:/tmp/ansible2#
```

Register

Playbook task tasks task task task taskAnsible task register

variable.yaml

```
---
- hosts: 172.17.0.16:172.17.0.17
  gather_facts: False
  tasks:
    - name: register variable
      shell: hostname
      register: info
    - name: display variable
      debug: msg="The varibale is {{ info }}"
```

variable.yaml

```
$ ansible-playbook variable.yaml -l 172.17.0.17
```

```

root@cicd:/tmp/ansible3# cat variable.yaml
---
- hosts: 172.17.0.16:172.17.0.17
  gather_facts: False
  tasks:
    - name: register variable
      shell: hostname
      register: info
    - name: display variable
      debug: msg="The varibale is {{ info }}"
root@cicd:/tmp/ansible3# ansible-playbook variable.yaml -l 172.17.0.17

PLAY [172.17.0.16:172.17.0.17] *****

TASK [register variable] *****
changed: [172.17.0.17]

TASK [display variable] *****
ok: [172.17.0.17] => {
  "msg": "The varibale is {u'changed': True, u'end': u'2017-03-21 10:08:56.503897', u'stdout': u'851e17885c3c', u'cmd': u'hostname', u'rc': 0, u'start': u'2017-03-21 10:08:56.386633', u'stderr': u'', u'delta': u'0:00:00.116464', 'stdout_lines': [u'851e17885c3c'], u'warnings': []}"
}

PLAY RECAP *****
172.17.0.17 : ok=2 changed=1 unreachable=0 failed=0

root@cicd:/tmp/ansible3#

```

debug info Key

variable.yaml

```

---
- hosts: 172.17.0.16:172.17.0.17
  gather_facts: False
  tasks:
    - name: register variable
      shell: hostname
      register: info
    - name: display variable
      debug: msg="The varibale is {{ info['stdout'] }}"

```

```

root@cicd:/tmp/ansible3# cat variable.yaml
---
- hosts: 172.17.0.16:172.17.0.17
  gather_facts: False
  tasks:
    - name: register variable
      shell: hostname
      register: info
    - name: display variable
      debug: msg="The varibale is {{ info['stdout'] }}"
root@cicd:/tmp/ansible3# ansible-playbook variable.yaml -l 172.17.0.17

PLAY [172.17.0.16:172.17.0.17] *****

TASK [register variable] *****
changed: [172.17.0.17]

TASK [display variable] *****
ok: [172.17.0.17] => {
  "msg": "The varibale is 851e17885c3c"
}

PLAY RECAP *****
172.17.0.17 : ok=2 changed=1 unreachable=0 failed=0

root@cicd:/tmp/ansible3#

```

vars_prompt

Playbook vars_prompt SHA512 MD5 passlib python

variable.yaml

```
---
- hosts: all
  gather_facts: False
  vars_prompt:
    - name: "one"
      prompt: "Please input one value"
      private: no
    - name: "two"
      prompt: "Pleass input two value"
      default: 'good'
      private: yes
  tasks:
    - name: display one value
      debug: msg="one value is {{ one }}"
    - name: display two value
      debug: msg="two value is {{ two }}"
```

```
$ ansible-playbook variable.yaml -l 172.17.0.16
```

one two one two

```
root@cidc:/tmp/ansible3# pip install passlib
Collecting passlib
  Downloading passlib-1.7.1-py2.py3-none-any.whl (498kB)
    100% |#####| 501kB 17kB/s
Installing collected packages: passlib
Successfully installed passlib-1.7.1
You are using pip version 8.1.1, however version 9.0.1 is available.
You should consider upgrading via the 'pip install --upgrade pip' command.
root@cidc:/tmp/ansible3# ansible-playbook variable.yaml -l 172.17.0.16
Please input one value: one
Please input two value [good]:

PLAY [all] *****

TASK [display one value] *****
ok: [172.17.0.16] => {
  "msg": "one value is one"
}

TASK [display two value] *****
ok: [172.17.0.16] => {
  "msg": "two value is two"
}

PLAY RECAP *****
172.17.0.16      : ok=2    changed=0    unreachable=0    failed=0

root@cidc:/tmp/ansible3#
```