tasks task low Playbook

Loops

Loops Playbook Loops, task Apt 10 Apt Yum Loops one two

<table>
<tr><td align="center">loops.yaml</td></tr>
</table>

```
---
- hosts: all
  gather_facts: False
  tasks:
      - name: debug loops
        debug: msg="name ------> {{ item }}"
        with_items:
            - one
            - two
```

task list Key item

```
root@cicd:/tmp/ansible4# cat loops.yaml
---
- hosts: all
  gather_facts: False
  tasks:
      - name: debug loops
        debug: msg="name ------> {{ item }}"
        with_items:
            - one
            - two
root@cicd:/tmp/ansible4# ansible-playbook loops.yaml -l 172.17.0.16

PLAY [all] ****************************************************************

TASK [debug loops] *******************************************************
ok: [172.17.0.16] => (item=one) => {
    "item": "one",
    "msg": "name ------> one"
}
ok: [172.17.0.16] => (item=two) => {
    "item": "two",
    "msg": "name ------> two"
}

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

root@cicd:/tmp/ansible4#
```

loops.yaml

```yaml
---
- hosts: all
  gather_facts: False
  tasks:
      - name: debug loops
        debug: msg="name ------> {{ item.key }}  value ------> {{ item.value}}"
        with_items:
             - { key: "one", value: "VALULE1"}
             - { key: "two", value: "VALULE2"}
```

```
root@cicd:/tmp/ansible4# cat loops.yaml
---
- hosts: all
  gather_facts: False
  tasks:
      - name: debug loops
        debug: msg="name ------> {{ item.key }}  value ------> {{ item.value}}"
        with_items:
             - { key: "one", value: "VALULE1"}
             - { key: "two", value: "VALULE2"}
root@cicd:/tmp/ansible4# ansible-playbook loops.yaml -l 172.17.0.16

PLAY [all] ***************************************************************

TASK [debug loops] ******************************************************
ok: [172.17.0.16] => (item={u'value': u'VALULE1', u'key': u'one'}) => {
    "item": {
        "key": "one",
        "value": "VALULE1"
    },
    "msg": "name ------> one  value ------> VALULE1"
}
ok: [172.17.0.16] => (item={u'value': u'VALULE2', u'key': u'two'}) => {
    "item": {
        "key": "two",
        "value": "VALULE2"
    },
    "msg": "name ------> two  value ------> VALULE2"
}

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

root@cicd:/tmp/ansible4#
```

Loops

Loops Playbook

loops.yaml

```yaml
---
- hosts: all
  gather_facts: False
  tasks:
      - name: debug loops
        debug: msg="name ------> {{ item[0] }}  value ------> {{ item[1] }}"
        with_nested:
             - ['A']
             - ['a','b','c','d']
```

```
root@cicd:/tmp/ansible4# cat loops.yaml
---
- hosts: all
  gather_facts: False
  tasks:
    - name: debug loops
      debug: msg="name ------> {{ item[0] }}  value ------> {{ item[1] }}"
      with_nested:
        - ['A']
        - ['a','b','c','d']
root@cicd:/tmp/ansible4# ansible-playbook loops.yaml -l 172.17.0.16

PLAY [all] *******************************************************************

TASK [debug loops] ***********************************************************
ok: [172.17.0.16] => (item=[u'A', u'a']) => {
    "item": [
        "A",
        "a"
    ],
    "msg": "name ------> A  value ------> a"
}
ok: [172.17.0.16] => (item=[u'A', u'b']) => {
    "item": [
        "A",
        "b"
    ],
    "msg": "name ------> A  value ------> b"
}
ok: [172.17.0.16] => (item=[u'A', u'c']) => {
    "item": [
        "A",
        "c"
    ],
    "msg": "name ------> A  value ------> c"
}
ok: [172.17.0.16] => (item=[u'A', u'd']) => {
    "item": [
        "A",
        "d"
    ],
    "msg": "name ------> A  value ------> d"
}

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

root@cicd:/tmp/ansible4#
```

Loops

Loops Loops Loops Python list Loops YAML Loops

loops.yaml

```
---
- hosts: all
  gather_facts: False
  vars:
      user:
          user1:
              name: user-01
              shell: bash
          user2:
              name: user-02
              shell: zsh
    tasks:
        - name: debug loops
          debug: msg="name ------> {{ item.key }}  value ------> {{
  item.value.name }} shell ------> {{ item.value.shell }}"
          with_dict: user
```

Loops

Loops Palybook with_fileglob

---

loops.yaml

```
---
- hosts: all
  gather_facts: False
  tasks:
      - name: debug loops
        debug: msg="files ------> {{ item }}"
        with_fileglob:
            - /etc/ansible/*
            - /tmp/ansible1/*.yaml
```

itme

```
root@cicd:/tmp/ansible5# cat loops.yaml
---
- hosts: all
  gather_facts: False
  tasks:
      - name: debug loops
        debug: msg="files ------> {{ item }}"
        with_fileglob:
            - /etc/ansible/*
            - /tmp/ansible1/*.yaml
root@cicd:/tmp/ansible5# ansible-playbook loops.yaml -l 172.17.0.16

PLAY [all] ********************************************************************

TASK [debug loops] ***********************************************************
ok: [172.17.0.16] => (item=/etc/ansible/hosts) => {
    "item": "/etc/ansible/hosts",
    "msg": "files ------> /etc/ansible/hosts"
}
ok: [172.17.0.16] => (item=/etc/ansible/ansible.cfg) => {
    "item": "/etc/ansible/ansible.cfg",
    "msg": "files ------> /etc/ansible/ansible.cfg"
}
ok: [172.17.0.16] => (item=/tmp/ansible1/variable.yaml) => {
    "item": "/tmp/ansible1/variable.yaml",
    "msg": "files ------> /tmp/ansible1/variable.yaml"
}
ok: [172.17.0.16] => (item=/tmp/ansible1/var.yaml) => {
    "item": "/tmp/ansible1/var.yaml",
    "msg": "files ------> /tmp/ansible1/var.yaml"
}

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

root@cicd:/tmp/ansible5#
```

Loops

Loops

loops.yaml

```
---
- hosts: all
  gather_facts: False
  tasks:
      - name: debug loops
        debug: msg="name ------> {{ item }}"
        with_random_choice:
            - "ansible1"
            - "ansible2"
            - "ansible3"
```

```
root@cicd:/tmp/ansible6# cat loops.yaml
---
- hosts: all
  gather_facts: False
  tasks:
    - name: debug loops
      debug: msg="name ------> {{ item }}"
      with_random_choice:
        - "ansible1"
        - "ansible2"
        - "ansible3"
root@cicd:/tmp/ansible6# ansible-playbook loops.yaml -l 172.17.0.16

PLAY [all] *****************************************************************

TASK [debug loops] ********************************************************
ok: [172.17.0.16] => (item=ansible3) => {
    "item": "ansible3",
    "msg": "name ------> ansible3"
}

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

root@cicd:/tmp/ansible6#
```

Loops

task Playbook

loops.yaml

```
---
- hosts: all
  gather_facts: False
  tasks:
    - name: debug loops
      shell: cat /root/Ansible-Demo
      register: host
      until: host.stdout.startswith("Master")
      retries: 5
      delay: 5
```

```
$ echo "Master" > /root/Ansible-Demo
$ ansible-playbook loops.yaml -l 10.0.0.7
```

```
root@cicd:/tmp/ansible7# echo "Master" > /root/Ansible-Demo
root@cicd:/tmp/ansible7# ansible-playbook loops.yaml -l 10.0.0.7

PLAY [all] *****************************************************************

TASK [debug loops] ********************************************************
changed: [10.0.0.7]

PLAY RECAP ****************************************************************
10.0.0.7                   : ok=1    changed=1    unreachable=0    failed=0

root@cicd:/tmp/ansible7#
```

```
$ echo "Slave" > /root/Ansible-Demo
$ ansible-playbook loops.yaml -l 10.0.0.7
```

```
root@cicd:/tmp/ansible7# echo "Slave" > /root/Ansible-Demo
root@cicd:/tmp/ansible7# ansible-playbook loops.yaml -l 10.0.0.7

PLAY [all] *********************************************************************

TASK [debug loops] ************************************************************
FAILED - RETRYING: TASK: debug loops (5 retries left).
FAILED - RETRYING: TASK: debug loops (4 retries left).
FAILED - RETRYING: TASK: debug loops (3 retries left).
FAILED - RETRYING: TASK: debug loops (2 retries left).
FAILED - RETRYING: TASK: debug loops (1 retries left).
fatal: [10.0.0.7]: FAILED! => {"attempts": 5, "changed": true, "cmd": "cat /root/Ansible-Demo", "delta": "0:00:00.002605", "end": "2017-03-21 03:12:13.184730", "failed": true, "rc":
 0, "start": "2017-03-21 03:12:13.182125", "stderr": "", "stdout": "Slave", "stdout_lines": ["Slave"], "warnings": []}
        to retry, use: --limit @/tmp/ansible7/loops.retry

PLAY RECAP ********************************************************************
10.0.0.7                   : ok=0    changed=0    unreachable=0    failed=1

root@cicd:/tmp/ansible7#
```

Loops

time

loops.yaml

```
---
- hosts: all
  gather_facts: True
  tasks:
      - name: debug loops
        debug: msg="files ------> {{ itme }}"
        with_first_found:
            - "{{ ansible_distribution }}.yaml"
            - "ansible.yaml"
```

Register Loops

Register task

loops.yaml

```
---
- hosts: all
  gather_facts: True
  tasks:
      - name: debug loops
        shell: "{{ item }}"
        with_items:
            - hostname
            - uname
        register: ret
      - name: display loops
        debug: msg="{% for i in ret.results %} {{ i.stdout }} {%
endfor %}"
```

```
root@cicd:/tmp/ansible9# cat loops.yaml
---
- hosts: all
  gather_facts: True
  tasks:
    - name: debug loops
      shell: "{{ item }}"
      with_items:
        - hostname
        - uname
      register: ret
    - name: display loops
      debug: msg="{% for i in ret.results %} {{ i.stdout }} {% endfor %}"
root@cicd:/tmp/ansible9# ansible-playbook loops.yaml -l 172.17.0.16

PLAY [all] ********************************************************************

TASK [setup] ******************************************************************
ok: [172.17.0.16]

TASK [debug loops] ************************************************************
changed: [172.17.0.16] => (item=hostname)
changed: [172.17.0.16] => (item=uname)

TASK [display loops] **********************************************************
ok: [172.17.0.16] => {
    "msg": " 085bc989ecb8  Linux "
}

PLAY RECAP ********************************************************************
172.17.0.16                : ok=3    changed=1    unreachable=0    failed=0

root@cicd:/tmp/ansible9#
```