

Variables

- ▶ Ansible can work with metadata from various sources and manage their context in the form of variables.
- ❖ Command line parameters
- ❖ Plays and tasks
- ❖ Files
- ❖ Inventory
- ❖ Discovered facts
- ❖ Roles

To get the ansible logs, check **log_path** in **ansible config file**

10.yml

- name: variable example

hosts: all

tasks:

- name: install package

yum:

name={{ pkg1 }}

state=latest

- yum:

name={{ pkg2 }}

state=present

```
[root@ip-172-31-29-57 Ansible]# ansible-playbook 10.yml --extra-vars "pkg1=httpd pkg2=samba"

PLAY [variable example] *****

TASK [Gathering Facts] *****
ok: [13.127.244.80]

TASK [install package] *****
changed: [13.127.244.80]

TASK [yum] *****
changed: [13.127.244.80]

PLAY RECAP *****
13.127.244.80          : ok=3    changed=2    unreachable=0    failed=0
```

ansible-playbook 10.yml --extra-vars "pkg1=httpd pkg2=samba"

11.yml - Variables

- name: variable example

hosts: all

vars:

pkg: mysql

tasks:

- name: install package

yum:

name={{ pkg }}

state=latest

```
[root@ip-172-31-29-57 DevOps]# ansible-playbook 10.yml -vv
ansible-playbook 2.5.3
  config file = /etc/ansible/ansible.cfg
  configured module search path = [u'/root/.ansible/plugins/modules', u'/usr/share/ansible/plugins/modules']
  ansible python module location = /usr/lib/python2.7/site-packages/ansible
  executable location = /bin/ansible-playbook
  python version = 2.7.5 (default, Feb 20 2018, 09:19:12) [GCC 4.8.5 20150623 (Red Hat 4.8.5-28)]
Using /etc/ansible/ansible.cfg as config file

PLAYBOOK: 10.yml *****
1 plays in 10.yml

PLAY [variable example] *****

TASK [Gathering Facts] *****
task path: /tmp/DevOps/10.yml:2
ok: [13.127.244.80]
META: ran handlers

TASK [install package] *****
task path: /tmp/DevOps/10.yml:8
changed: [13.127.244.80] => {"changed": true, "msg": "", "rc": 0, "results": ["Loaded plugins: amazon-id, rhui-lb, search-disabled-repos\nResolving Dependencies\n--> Ru
nning transaction check\n--> Package mariadb.x86_64 1:5.5.56-2.el7 will be installed\n--> Finished Dependency Resolution\n\nDependencies Resolved\n\n=====
\n Package Arch Version Repository Size\n=====
\nInstalling:\n mariadb x86_64 1:5.5.56-2.el7 rhui-REGION-rhel-server-releases 9.1 M\n\nTransaction S
ummary\n=====
\nInstall 1 Package\n\nTotal download size: 9.1 M\nInstalled size: 49 M\nDownlo
ading packages:\nRunning transaction check\nRunning transaction test\nTransaction test succeeded\nRunning transaction\n Installing : 1:mariadb-5.5.56-2.el7.x86_64
1/1 \n Verifying : 1:mariadb-5.5.56-2.el7.x86_64 1/1 \n\nInstalled:\n mariadb.x86_64 1:5.5.56-2.el7
\n\nComplete!\n"]}]
META: ran handlers
META: ran handlers

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

12.yml

- name: variable example

hosts: all

vars:

- pkg: httpd

tasks:

- name: install package

yum:

- name={{ pkg }}
- state=present

notify: start service

handlers:

- name: start service

service:

- name={{ pkg }}
- state=started

```
[root@ip-172-31-29-57 DevOps]# ansible-playbook 11.yml --check

PLAY [variable example] *****

TASK [Gathering Facts] *****
ok: [13.127.244.80]

TASK [install package] *****
changed: [13.127.244.80]

RUNNING HANDLER [start service] *****
changed: [13.127.244.80]

PLAY RECAP *****
13.127.244.80          : ok=3    changed=2    unreachable=0    failed=0
```

ansible-playbook 12.yml --extra-vars "pkg=samba"

16.yml

- name: Playbook with multiple items in variables

hosts: all

vars:

package:

- samba
- httpd
- ntp

tasks:

- name: Install required packages

yum:

name={{ package }}

state=installed

```
[root@ip-172-31-29-57 Ansible]# ansible-playbook 16.yml -v
Using /etc/ansible/ansible.cfg as config file

PLAY [Playbook with multiple items in variables] *****

TASK [Gathering Facts] *****
ok: [13.127.244.80]

TASK [Install required packages] *****
changed: [13.127.244.80] => {"changed": true, "msg": "", "rc": 0, "results": ["Loaded plugins: amazon-id, rhui-lb, search-disabled-repos\nResolving Dependencies\n--> Ru
nning transaction check\n--> Package httpd.x86_64 0:2.4.6-80.el7 will be installed\n--> Package ntp.x86_64 0:4.2.6p5-28.el7 will be installed\n--> Package samba.x86_
64 0:4.7.1-6.el7 will be installed\n--> Finished Dependency Resolution\n\nDependencies Resolved\n\n=====
\n Package Arch Version Repository Size\n=====
\nInstalling:\n httpd x86_64 2.4.6-80.el7 rhui-REGION-rhel-server-releases 1.2 M\n ntp x86_64 4.2.6p5-28.el7 rhui-REGION-rhel-server-rele
ases 549 k\n samba x86_64 4.7.1-6.el7 rhui-REGION-rhel-server-releases 661 k\n\nTransaction Summary\n=====
\nInstall 3 Packages\n\nTotal download size: 2.4 M\nInstalled size: 7.0 M\nDownloading packages:\n-----
\nTotal 4.6 MB/s | 2.4 MB 00:00 \nRunning transaction check\nRunning transac
tion test\nTransaction test succeeded\nRunning transaction\n Installing : samba-4.7.1-6.el7.x86_64 1/3 \n Installing : ntp-4.2.6p5
-28.el7.x86_64 2/3 \n Installing : httpd-2.4.6-80.el7.x86_64 3/3 \n Verifying : httpd-2.4.6-80.
el7.x86_64 1/3 \n Verifying : ntp-4.2.6p5-28.el7.x86_64 2/3 \n Verifying : samba-4.7.1-6.el7.x
86_64 3/3 \n\nInstalled:\n httpd.x86_64 0:2.4.6-80.el7 ntp.x86_64 0:4.2.6p5-28.el7 \n samba.x86_64 0:4.7.1-6.
el7 \n\nComplete!\n"]}}

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