

Ansible – Lab3

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ITI- DevOps Track

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## LOOPS

1. Loop over a list of packages and install the latest versions.
2. Loop over a list of packages and use different states as per input.

```
! playbook_loop1.yml x  inventory  ansible.cfg
day3 > ! playbook_loop1.yml > {} vars > [ ] packages
1  - name: Install latest versions of packages
2    hosts: web_servers
3    gather_facts: false
4
5    vars:
6      packages:
7        - mariadb-server
8        - curl
9        - nginx
10
11    tasks:
12      - name: Install packages
13        package:
14          name: "{{ item }}"
15          state: latest
16          loop: "{{ packages }}"

PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS
● toka-farid@localhost:~/Desktop/My Work/Ansible-labs/day3$ ansible-playbook playbook_loop1.yml
BECOME password:

PLAY [Install latest versions of packages] *****

TASK [Install packages] *****
changed: [172.17.0.2] => (item=mariadb-server)
ok: [172.17.0.2] => (item=curl)
ok: [172.17.0.2] => (item=nginx)

PLAY RECAP *****
172.17.0.2      : ok=1    changed=1    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0

○ toka-farid@localhost:~/Desktop/My Work/Ansible-labs/day3$
```

```
! playbook_loop1.yml ! playbook_loop2.yml x inventory ansible.cfg
day3 > ! playbook_loop2.yml > {} vars > [ ] packages > name
1 - name: Manage packages with different states
2   hosts: web_servers
3   gather_facts: false
4
5   vars:
6     packages:
7       - name: mariadb-server
8         state: present
9       - name: curl
10        state: latest
11      - name: httpd
12        state: absent
13
14   tasks:
15     - name: Manage packages
16       package:
17         name: "{{ item.name }}"
18         state: "{{ item.state }}"
19       loop: "{{ packages }}"
20

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
BECOME password:

PLAY [Manage packages with different states] *****

TASK [Manage packages] *****
ok: [172.17.0.2] => (item={'name': 'mariadb-server', 'state': 'present'})
ok: [172.17.0.2] => (item={'name': 'curl', 'state': 'latest'})
ok: [172.17.0.2] => (item={'name': 'httpd', 'state': 'absent'})

PLAY RECAP *****
172.17.0.2 : ok=1 changed=0 unreachable=0 failed=0 skipped=0 rescued=0 ignored=0

toka-farid@localhost:~/Desktop/My Work/Ansible-labs/day3$
```

## WHEN

1. Install nginx or httpd depending on distribution.
2. Restart nginx service if distribution is ubuntu.
3. Restart httpd service if distribution is centos.

```
! playbook_loop1.yml ! playbook_loop2.yml ! playbook_when.yml x inventory ansible.cfg ...
day3 > ! playbook_when.yml > {} tasks
1 - name: Manage web servers and services
2   hosts: web_servers
3
4   tasks:
5     - name: Install nginx or httpd depending on distribution
6       package:
7         name: "{{ 'nginx' if ansible_distribution == 'Ubuntu' else 'httpd' }}"
8         state: present
9
10    - name: Restart nginx service on Ubuntu
11      sysvinit:
12        name: nginx
13        state: restarted
14        when: ansible_distribution == 'Ubuntu'
15
16    - name: Restart httpd service on CentOS
17      service:
18        name: httpd
19        state: restarted
20        when: ansible_distribution == 'CentOS'
21
22

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
toka-farid@localhost:~/Desktop/My Work/Ansible-labs/day3$ ansible-playbook playbook_when.yml
BECOME password:

PLAY [Manage web servers and services] *****

TASK [Gathering Facts] *****
ok: [172.17.0.2]

TASK [Install nginx or httpd depending on distribution] *****
ok: [172.17.0.2]

TASK [Restart nginx service on Ubuntu] *****
changed: [172.17.0.2]

TASK [Restart httpd service on CentOS] *****
skipping: [172.17.0.2]

PLAY RECAP *****
172.17.0.2 : ok=3 changed=1 unreachable=0 failed=0 skipped=1 rescued=0 ignored=0

toka-farid@localhost:~/Desktop/My Work/Ansible-labs/day3$
```

## REGISTER & WHEN

1. View the value of your register variable using the debug module.
2. Restart service if the installation task was changed or did not fail.

```
day3 > ! playbook_register.yml > ...
1 - name: Manage web servers and services
2   hosts: web_servers
3
4   tasks:
5     - name: Install nginx or httpd
6       package:
7         name: '{{ 'nginx' if ansible_distribution == 'Ubuntu' else 'httpd' }}'
8         state: present
9         register: install_result
10
11    - name: View the value of the register variable
12      debug:
13        msg: "{{ install_result }}"
14
15    - name: Restart nginx service on Ubuntu
16      sysvinit:
17        name: nginx
18        state: restarted
19        when: install_result.changed or not install_result.failed
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```

## TEMPLATES

1. installing a package.  
(get the package name from vars)
2. Copying index.html from controller to host using template.  
(get the template name & template message from vars)  
(the actual template file will be stored in `./your_current_directory`), (will trigger step 4)
3. copying a list of files (file.css & file.js) from controller to host using loop.  
(get the list of file names from vars), (the actual files will be stored in `./your_current_directory`), (will be defined as Handler), (will be triggered by step 1)
4. Restart the service of the installed package.  
(will be defined as Handler), (will be triggered by step 3)

```
! playbook_handlers.yml | ! playbook_template.yml x | index.html.j2 | PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS | bash - day3 | + - - - - - | < X
day3 > ! playbook_template.yml > {} vars > template_name
1 - name: Install package, copy files, and restart service
2 hosts: web_servers
3
4
5
6 vars:
7   package_name: nginx
8   template_name: index.html.j2
9   template_message: "Hello, world!"
10  files_list:
11    - file.css
12    - file.js
13
14 tasks:
15   - name: Install package
16     apt:
17       name: "{{ package_name }}"
18       state: present
19       notify:
20         - Restart Service
21
22   - name: Copy index.html using template
23     template:
24       src: "{{ template_name }}"
25       dest: /var/www/html/index.html
26       notify:
27         - Restart service
28
29   - name: Copy files using loop
30     copy:
31       src: "{{ item }}"
32       dest: /var/www/html/
33       loop: "{{ files_list }}"
34       notify:
35         - Restart service
36
37 handlers:
38   - name: Restart service
39     sysvinit:
40       name: "{{ package_name }}"
41       state: restarted
```

```
* toka-farid@localhost:~/Desktop/My-Work/Ansible-labs/day3$ ansible-playbook playbook_template.yml
BECOME password:
PLAY [Install package, copy files, and restart service] *****
TASK [Gathering Facts] *****
ok: [172.17.0.2]
TASK [Install package] *****
ok: [172.17.0.2]
TASK [Copy index.html using template] *****
changed: [172.17.0.2]
TASK [Copy files using loop] *****
ok: [172.17.0.2] => (item=file.css)
ok: [172.17.0.2] => (item=file.js)
RUNNING HANDLER [Restart service] *****
changed: [172.17.0.2]
PLAY RECAP *****
172.17.0.2 : ok=5 changed=2 unreachable=0 failed=0 skipped=0 rescued=0 ignored=0
o toka-farid@localhost:~/Desktop/My-Work/Ansible-labs/day3$
```

```
! playbook_handlers.yml | ! playbook_template.yml x | index.html.j2 | PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS | bash - day3 | + - - - - - | < X
day3 > ! playbook_template.yml > {} vars > template_name
1 - name: Install package, copy files, and restart service
2 hosts: web_servers
3
4
5
6 vars:
7   package_name: nginx
8   template_name: index.html.j2
9   template_message: "Hello, world!"
10  files_list:
11    - file.css
12    - file.js
13
14 tasks:
15   - name: Install package
16     apt:
17       name: "{{ package_name }}"
18       state: present
19       notify:
20         - Restart Service
21
22   - name: Copy index.html using template
23     template:
24       src: "{{ template_name }}"
25       dest: /var/www/html/index.html
26       notify:
27         - Restart service
28
29   - name: Copy files using loop
30     copy:
31       src: "{{ item }}"
32       dest: /var/www/html/
33       loop: "{{ files_list }}"
34       notify:
35         - Restart service
36
37 handlers:
38   - name: Restart service
39     sysvinit:
40       name: "{{ package_name }}"
41       state: restarted
```

```
* toka-farid@localhost:~/Desktop/My-Work/Ansible-labs/day3$ ansible-playbook playbook_template.yml
BECOME password:
PLAY [Install package, copy files, and restart service] *****
TASK [Gathering Facts] *****
ok: [172.17.0.2]
TASK [Install package] *****
ok: [172.17.0.2]
TASK [Copy index.html using template] *****
changed: [172.17.0.2]
TASK [Copy files using loop] *****
ok: [172.17.0.2] => (item=file.css)
ok: [172.17.0.2] => (item=file.js)
RUNNING HANDLER [Restart service] *****
changed: [172.17.0.2]
PLAY RECAP *****
172.17.0.2 : ok=5 changed=2 unreachable=0 failed=0 skipped=0 rescued=0 ignored=0
o toka-farid@localhost:~/Desktop/My-Work/Ansible-labs/day3$
```

```
ansible@e50958a3db98: /var/www/html
toka-farid@localhost:~$ sudo docker exec -it host1 bash
[sudo] password for toka-farid:
root@e50958a3db98:/# su ansible
ansible@e50958a3db98:/# ls
bin dev home lib32 libx32 mnt proc run srv tmp var
boot etc lib lib64 media opt root sbin sys usr
ansible@e50958a3db98:/# cd var/
ansible@e50958a3db98:/var$ ls
backups cache lib local lock log mail opt run spool tmp www
ansible@e50958a3db98:/var$ cd www/
ansible@e50958a3db98:/var/www$ ls
html
ansible@e50958a3db98:/var/www$ cd html/
ansible@e50958a3db98:/var/www/html$ ls
file.css file.js index.html index.nginx-debian.html
ansible@e50958a3db98:/var/www/html$ cat index.html
<html>
<body>
<h1>Hello, world! </h1>
</body>
</html>ansible@e50958a3db98:/var/www/html$
```