



# Linux Academy

## Course Notes

# Ansible Playbook Examples – Roles

```
--- # Master Playbook demonstrating the delegateto command
- hosts: apacheweb
  user: test
  sudo: yes
  connection: ssh
  pre_tasks:
    - name: Ping the application server
      local_action: raw ping -c 4 tcx5 > /home/test/Playbooks/Roles/
roles/ping.out
  roles:
    - webservers
```

```
--- # Master Playbook for DB Servers
- hosts: appserver
  user: test
  sudo: yes
  connection: ssh
  pre_tasks:
    - name: When did the ROLE start
      raw: date > /home/test/startofrole.log
  roles:
    - dbservers
  post_tasks:
    - name: When did the ROLE end
      raw: date > /home/test/endofrole.log
```

```
--- # Master Playbook for DB Servers
- hosts: appserver
  user: test
  sudo: yes
  connection: ssh
  pre_tasks:
    - name: When did the ROLE start
      raw: date > /home/test/startofrole.log
  roles:
    - dbusers
  post_tasks:
    - name: When did the ROLE end
      raw: date > /home/test/endofrole.log
```

```
--- # Master Playbook for Web Servers
- hosts: apacheweb
  user: test
  sudo: yes
  connection: ssh
  pre_tasks:
    - name: When did the ROLE start
      raw: date > /home/test/startofrole.log
  roles:
    - debian_webservers
```

```
post_tasks:
- name: When did the ROLE end
  raw: date > /home/test/endofrole.log

--- # Master Playbook demonstrating the delegateto command
- hosts: apacheweb
  user: test
  sudo: yes
  connection: ssh
  pre_tasks:
  - name: Ping the application server
    raw: ping -c 4 tcx5 > /home/test/Playbooks/Roles/roles/ping.out
    delegate_to: 127.0.0.1
  roles:
  - webserver

--- # Master Playbook for Web Servers
- hosts: '{{ hosts }}'
  user: '{{ user }}'
  sudo: yes
  connection: ssh
  pre_tasks:
  - name: When did the ROLE start
    raw: date > /home/test/startofrole.log
  roles:
  - { role: '{{ role }}', when: "ansible_os_family == 'RedHat'" }
  post_tasks:
  - name: When did the ROLE end
    raw: date > /home/test/endofrole.log

--- # Master Playbook demonstrating the delegateto command
- hosts: apacheweb
  user: test
  sudo: yes
  connection: ssh
  pre_tasks:
  - name: Ping the application server
    local_action: raw ping -c 4 tcx5 > /home/test/Playbooks/Roles/
roles/ping.out
  roles:
  - webserver

--- # MASTER ROLE FILE FOR TESTROLE
- hosts: apacheweb
  user: test
  sudo: yes
  connection: ssh
  pre_tasks:
  - name: date/time stamp for when the playbook starts
    command: /usr/bin/date
    register: timestamp_start
```

```
- debug: var=timestamp_start
roles:
- testrole
post_tasks:
- name: date/time stamp for when the playbook ends
  command: /usr/bin/date
  register: timestamp_end
- debug: var=timestamp_end

--- # Master Playbook for Web Servers
- hosts: apacheweb
  user: test
  sudo: yes
  connection: ssh
  pre_tasks:
  - name: When did the ROLE start
    raw: date > /home/test/startofrole.log
  roles:
  - { role: redhat_webservers, when: "ansible_os_family == 'RedHat'" }
  post_tasks:
  - name: When did the ROLE end
    raw: date > /home/test/endofrole.log

--- # Master Playbook for Web Servers
- hosts: apacheweb
  user: test
  sudo: yes
  connection: ssh
  pre_tasks:
  - name: When did the ROLE start
    raw: date > /home/test/startofrole.log
  roles:
  - redhat_webservers
  post_tasks:
  - name: When did the ROLE end
    raw: date > /home/test/endofrole.log

--- # Outline to Playbook Translation
- hosts: apacheweb
  user: test
  sudo: yes
  gather_facts: no
  tasks:
  - name: date/time stamp for when the playbook starts
    command: /usr/bin/date
    register: timestamp_start
  - debug: var=timestamp_start
  - name: install the apache web server
    yum: pkg=httpd state=latest
    notify: Start HTTPD
  - name: verify that the web service is running
    command: systemctl status httpd
```

```
    register: result
    ignore_errors: yes
  - debug: var=result
  - name: install client software – telnet
    yum: pkg=telnet state=latest
  - name: install client software – lynx
    yum: pkg=lynx state=latest
  - name: log all the packages install on the system
    command: yum list installed
    register: installed_result
  - debug: var=installed_result
  - name: date/time stamp for when the playbook ends
    command: /usr/bin/date
    register: timestamp_end
  - debug: var=timestamp_end
handlers:
  - name: Start HTTPD
    service: name=httpd state=restarted

--- # Master Playbook for Web Servers
- hosts: debian
  user: test
  sudo: yes
  connection: ssh
  roles:
    - debian_webservers

--- # Master Playbook for Web Servers
- hosts: apacheweb
  user: test
  sudo: yes
  connection: ssh
  pre_tasks:
    - name: When did the ROLE start
      raw: date > /home/test/startofrole.log
  roles:
    - webservers
  post_tasks:
    - debug: Trigger HTTPD Restart
      notify: Restart HTTPD
      changed_when: true
    - name: When did the ROLE end
      raw: date > /home/test/endofrole.log

--- # Master Playbook for Web Servers
- hosts: apacheweb
  user: test
  sudo: yes
  connection: ssh
  pre_tasks:
    - name: When did the ROLE start
      raw: date > /home/test/startofrole.log
```

```
roles:
- { role: redhat_webservers, when: "ansible_os_family == 'RedHat'" }
- { role: debian_webservers, when: "ansible_os_family == 'Debian'" }
post_tasks:
- name: When did the ROLE end
  raw: date > /home/test/endofrole.log
```

