

Module 5: Configuration Management with Ansible

Demo Document - 3

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Demo – 3: Variables and handlers in Ansible

Note: Text editor used in this demo is nano. You can use any other editor without any problems

- Navigate to the ansible directory

Syntax: `cd /etc/ansible`

```
ubuntu@ip-172-31-14-203:~$ cd /etc/ansible/
```

- Create a YAML file (playbooks are written in YAML and have a .yaml extension)

Syntax: `sudo vim playbook1.yaml`

```
ubuntu@ip-172-31-14-203:/etc/ansible$ sudo vim play3.yaml
```

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- Write the play which will add multiple users iteratively as well as install nginx server and starting its service using a handler

```
---
- hosts: all
  become: yes
  vars:
    users:
      - username: Cavani
      - username: Rashford
      - username: Greenwood
      - username: Pogba

  tasks:
    - name: add group for users
      group:
        name: united
        state: present

    - name: User added {{ item.username }}
      user:
        name: "{{ item.username }}"
        create_home: yes
        groups: united
        with_items: "{{ users }}"

    - name: install nginx
      apt:
        name: nginx
        state: present
      notify:
        - start nginx

  handlers:
    - name: start nginx
      service:
        name: nginx
        state: started
```

- Run the playbook using ansible-playbook command with the -K flag

```
ubuntu@ip-172-31-14-203:/etc/ansible$ ansible-playbook -K play3.yaml
BECOME password:

PLAY [all] *****

TASK [Gathering Facts] *****
[DEPRECATION WARNING]: Distribution Ubuntu 20.04 on host slave should use /usr/bin/python3, but is using /usr/bin/python for backward
compatibility with prior Ansible releases. A future Ansible release will default to using the discovered platform python for this host. See
https://docs.ansible.com/ansible/2.9/reference_appendices/interpreter_discovery.html for more information. This feature will be removed in
version 2.12. Deprecation warnings can be disabled by setting deprecation_warnings=False in ansible.cfg.
ok: [slave]

TASK [add group for users] *****
changed: [slave]

TASK [User added ({ item.username })] *****
changed: [slave] => (item={'username': 'Cavani'})
changed: [slave] => (item={'username': 'Rashford'})
changed: [slave] => (item={'username': 'Greenwood'})
changed: [slave] => (item={'username': 'Pogba'})

TASK [install nginx] *****
[WARNING]: Updating cache and auto-installing missing dependency: python-apt
changed: [slave]

RUNNING HANDLER [start nginx] *****
ok: [slave]

PLAY RECAP *****
slave : ok=5 changed=3 unreachable=0 failed=0 skipped=0 rescued=0 ignored=0
```

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