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**ID: 00-30084**

**Ansible playbook codes:**

**File: main.yaml**

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- import\_playbook: ./ubuntu\_playbook.yaml

when: ansible\_os\_family=='Debian'

- import\_playbook: ./centos\_playbook.yaml

when: ansible\_os\_family=='RedHat'

**File: ubuntu\_playbook\_v2.yaml**

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- name: Install LAMP on Ubuntu

# hosts: ubuntu

become: true

vars:

pkg\_list:

- mysql-server

- nginx

- software-properties-common

- php7.4

- php7.4-mysql

- php7.4-curl

- php7.4-json

- php7.4-cgi

- php7.4-xsl

- php7.4-cgi

- php7.4-gd

- php7.4-mbstring

- php7.4-zip

- php7.4-xmlrpc

- php7.4-soap

- php7.4-intl

- libapache2-mod-php

tasks:

- name: "Repo PHP 7.4"

apt\_repository:

repo="ppa:ondrej/php"

- name: "Updating the repo"

apt: update\_cache=yes

- name: Installing packages

apt:

name: "{{pkg\_list}}"

state: present

with\_items: "{{pkg\_list}}"

- name: Start and Enable mysql.service

service:

name: mysql.service

state: started

enabled: yes

- name: Allow incoming connections on port 80

ufw:

rule: allow

port: '80'

- name: Copy Nginx sites-enabled file

copy:

src: /home/ansible/playbooks/default

dest: /etc/nginx/sites-enabled/default

owner: root

group: root

mode: "0644"

notify:

- Restart Nginx

- name: Copy Nginx sites-available file

copy:

src: /home/ansible/playbooks/default

dest: /etc/nginx/sites-available/default

owner: root

group: root

mode: "0644"

notify:

- Restart Nginx

- name: Copy web files to /var/www/html

copy:

src: /home/ansible/playbooks/templates/index.php

dest: /var/www/html/index.php

owner: root

group: root

mode: "0755"

File: centos\_playbook\_v2.yaml

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- name: Setup LAMP stack

# hosts: centos

become: yes

vars:

pkg\_list:

- httpd

- php

- php-mysql

- mysql-server

srvc\_list:

- name: httpd

state: started

enabled: yes

- name: mysqld

state: started

enabled: yes

server\_address: 192.168.56.107

tasks:

- name: Download MySQL Community Repo

get\_url:

url: http://repo.mysql.com/mysql-community-release-el7-7.noarch.rpm

dest: /tmp

- name: Install MySQL Community Repo

yum:

name: /tmp/mysql-community-release-el7-7.noarch.rpm

state: present

- name: Install Apache, PHP & MySQL

yum:

name: "{{pkg\_list}}"

state: present

- name: Start and Enable Apache and MySQL

service:

name: "{{item.name}}"

state: "{{item.state}}"

enabled: "{{item.enabled}}"

with\_items: "{{srvc\_list}}"

- name: Restart Apache service

service:

name: httpd

state: restarted

- name: Apply Jinja Template

template:

src: /home/ansible/playbooks/home\_cfg.conf.j2

dest: /etc/httpd/conf.d/home\_cfg.conf

- name: Copy HTML files

copy:

src: /home/ansible/playbooks/templates/index.php

dest: /var/www/html/index.php

- name: Start firewalld

service:

name: firewalld

state: started

enabled: yes

- name: Set Firewall rule

firewalld:

port: 80/tcp

permanent: true

state: enabled

immediate: yes