Lab Exercise Week 3

Scenario:

- 1. Create playbook, that can run on both Redhat and Debian OS.
- 2. On each machine,
 - a. install apache2, git, terraform
 - b. Start the apache2 service
 - c. Group all the tasks as one.
 - d. Provide tag for this group.
 - e. Also make sure to have the when condition
 - f. The above task needs to be configured for both Redhat and Debain OS
- 3. Software specific to Debain OS.
 - a. Install DB
 - b. Start the DB
 - c. Group these 2 tasks
 - d. Provide tag

Solution:

block:

```
Main.yaml:
- name: Install and Configure Services
  hosts: all
  become: yes
  gather_facts: yes
    - name: Install and start Apache and required services
        - name: Install required packages (Apache, Git, Terraform)
            name: "{{ item }}"
            state: present
          loop:
            - apache2
            - git
            - wget
        - name: Start Apache service
          service:
            name: apache2
            state: started
        - name: Install unzip package (Debian/Ubuntu)
          become: yes
          package:
            name: unzip
            state: present
        - name: Install Terraform binary
          get url:
            url: "https://releases.hashicorp.com/terraform/1.6.6/terraform_1.6.6_linux_amd64.zip"
            dest: /tmp/terraform.zip
        - name: Unzip Terraform
          command: "unzip /tmp/terraform.zip -d /usr/local/bin/"
            creates: /usr/local/bin/terraform
      when: ansible_os_family == 'RedHat' or ansible_os_family == 'Debian'
      tags:
        - services
    - name: Install and start DB on Debian OS
```

```
- name: Install MySQL server
    apt:
        name: mysql-server
        state: present
    vars:
        mysql_root_password: root123
when: ansible_os_family == 'Debian'
tags:
    db
```

Inventory:

```
[localhost]
10.0.1.6 # Master Node Private IP
[Node1]
10.0.1.4 # Node 1 Private IP
[Node2]
10.0.1.5 # Node 2 Private IP
```

Output: