# Lab Exercise Week 3

## Scenario:

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

## Solution:

**Main.yaml:**

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- name: Install and Configure Services

hosts: all

become: yes

gather\_facts: yes

tasks:

- name: Install and start Apache and required services

block:

- name: Install required packages (Apache, Git, Terraform)

apt:

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/"

args:

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

block:

- 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:**

