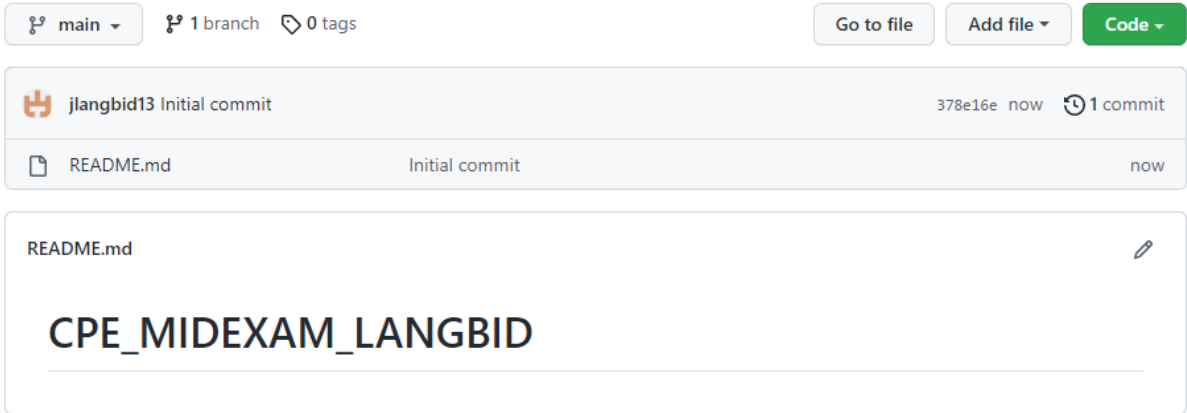



<b>Name: Jefferson Langbid</b>	<b>Date Performed:</b>
<b>Course/Section: CPE232 S23</b>	<b>Date Submitted:</b>
<b>Instructor: Dr. Taylar</b>	<b>Semester and SY:</b>
<b>Midterm Skills Exam: Install, Configure, and Manage Log Monitoring tools</b>	
<b>1. Objectives</b>	
Create and design a workflow that installs, configure and manage enterprise availability, performance and log monitoring tools using Ansible as an Infrastructure as Code (IaC) tool.	
<b>2. Instructions</b>	
<ol style="list-style-type: none"> <li>1. Create a repository in your GitHub account and label it CPE_MIDEXAM_SURNAME.</li> <li>2. Clone the repository and do the following:             <ol style="list-style-type: none"> <li>2.1. Create an Ansible playbook that does the following with an input of a config.yaml file and arranged Inventory file:</li> <li>2.2. Install and configure Elastic Stack in separate hosts (Elastic Search, Kibana, Logstash) • Install Nagios in one host</li> <li>2.3. Install Grafana,Prometheus and Influxdb in seperate hosts (Influxdb,Grafana,Prometheus)</li> <li>2.4. Install Lamp Stack in separate hosts (Httpd + Php,Mariadb)</li> </ol> </li> <li>3. Document all your tasks using this document. Provide proofs of all the ansible playbooks codes and successful installations.</li> <li>4. Document the push and commit from the local repository to GitHub.</li> <li>5. Finally, paste also the link of your GitHub repository in the documentation.</li> </ol>	
<b>3. Output (screenshots and explanations)</b>	
 <p>The screenshot shows a GitHub repository interface. At the top, it says 'main' with a dropdown, '1 branch', and '0 tags'. There are buttons for 'Go to file', 'Add file', and 'Code'. Below this, it shows 'jlangbid13 Initial commit' with a commit hash '378e16e' and 'now'. A file 'README.md' is listed as 'Initial commit' and 'now'. The content of the README.md file is displayed as 'CPE_MIDEXAM_LANGBID'.</p>	
Create github repository	

```
jefferson@LocalMachine-VirtualBox: ~/CPE_MIDEXAM_LA...
jefferson@LocalMachine-VirtualBox:~$ git clone git@github.com:jlangbid13/CPE_MI
DEXAM_LANGBID.git
Cloning into 'CPE_MIDEXAM_LANGBID'...
remote: Enumerating objects: 12, done.
remote: Counting objects: 100% (12/12), done.
remote: Compressing objects: 100% (9/9), done.
remote: Total 12 (delta 2), reused 0 (delta 0), pack-reused 0
Receiving objects: 100% (12/12), done.
Resolving deltas: 100% (2/2), done.
jefferson@LocalMachine-VirtualBox:~$ cd CPE_MIDEXAM_LANGBID
jefferson@LocalMachine-VirtualBox:~/CPE_MIDEXAM_LANGBID$
```

Clone the github repository to the local machine.

 jlangbid13 Create ansible.cfg

1 contributor

9 lines (6 sloc) | 142 Bytes

```
1 [defaults]
2
3 inventory = inventory
4 Host_key_checking = False
5
6 Depracation_warnings = False
7
8 Remote_users = jefferson
9 Private_key_file= ~/.ssh/
```

```
GNU nano 6.2
[remote_servers]
192.168.56.106
192.168.56.110

[elastic_servers]
192.168.56.106
192.168.56.110

[nagios_servers]
192.168.56.106

[igp_servers]
192.168.56.106
192.168.56.110

[lamp_servers]
192.168.56.106
192.168.56.110
```

I created the ansible.cfg and inventory file for the playbook hosts.

```
17 lines (16 sloc) | 358 Bytes

1 ---
2 - hosts: all
3   become: true
4   pre_tasks:
5
6   - name: update repository index (CentOS)
7     tags: always
8     dnf:
9       update_cache: yes
10    changed_when: false
11    when: ansible_distribution == "CentOS"
12  - name: install updates (Ubuntu)
13    tags: always
14    apt:
15      update_cache: yes
16      changed_when: false
17      when: ansible_distribution == "Ubuntu"
```

Create the yml for the playbook.

```
jefferson@LocalMachine-VirtualBox:~/CPE_MIDEXAM_LANG8ID/roles$ tree
.
├── elastic
│   └── tasks
│       └── main.yml
└── nagios
    └── tasks
        └── main.yml

4 directories, 2 files
```

for the 2.2 I created the elastic and nagios roles for the main.yml of command of the elastic and nagios.

```
jefferson@LocalMachine-VirtualBox: ~/CPE_MIDEXAM_LA...
GNU nano 6.2 main.yml
- name: install elastic stack for ubuntu
  apt:
    name:
      - elasticsearch
      - kibana
      - logstash
    state: latest
    update_cache: yes
    when: ansible_distribution == "Ubuntu"

- name: install elastic stack for centos
  dnf:
    name:
      - elasticsearch
      - kibana
      - logstash
    state: latest
    update_cache: yes
    when: ansible_distribution == "CentOS"
```

The installation command of the elastic stack is inputted in the main.yml of the elastic role.

```
jefferson@LocalMachine-VirtualBox: ~/CPE_MIDEXAM_LA...
GNU nano 6.2 main.yml
- name: install nagios in Ubuntu
  apt:
    name:
      - nagios4
    state: latest
    update_cache: yes
  when: ansible_distribution == "Ubuntu"
```

The installation command of the nagios is inputted in the main.yml of the nagios role.

```
- hosts: elastic_servers
  become: true
  roles:
    - elastic

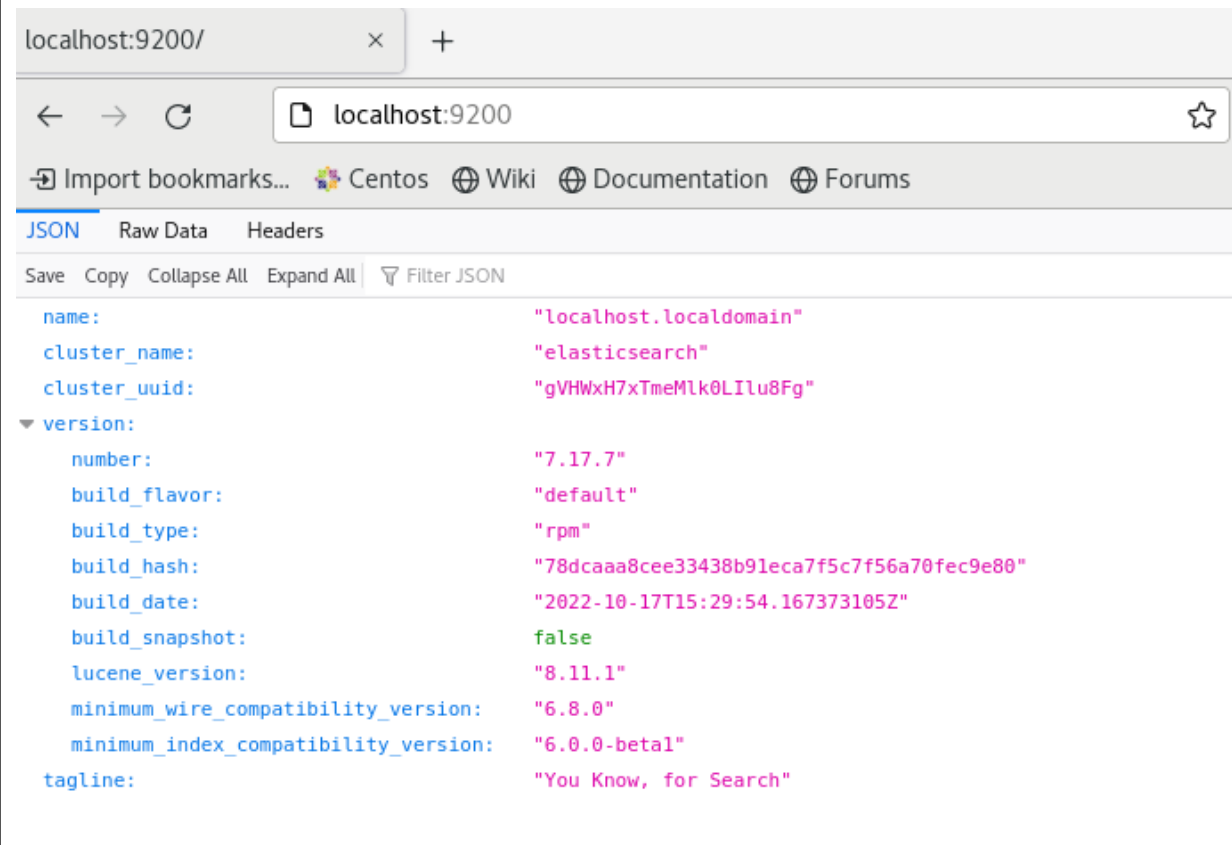
- hosts: nagios_servers
  become: true
  roles:
    - nagios
```

The inputted script to the exam.yml for the playbook.

```
jefferson@LocalMachine-VirtualBox: ~/CPE_MIDEXAM_LA...  
OK: [192.168.56.106]  
TASK [elastic : install elastic stack for ubuntu] *****  
*  
skipping: [192.168.56.110]  
changed: [192.168.56.106]  
TASK [elastic : install elastic stack for centos] *****  
*  
skipping: [192.168.56.106]  
changed: [192.168.56.110]  
PLAY [nagios_servers] *****  
*  
TASK [Gathering Facts] *****  
*  
ok: [192.168.56.106]  
TASK [nagios : install nagios in Ubuntu] *****  
*  
ok: [192.168.56.106]  
PLAY RECAP *****  
*  
192.168.56.106 : ok=6 changed=1 unreachable=0 failed=0  
skipped=2 rescued=0 ignored=0  
192.168.56.110 : ok=4 changed=1 unreachable=0 failed=0  
skipped=2 rescued=0 ignored=0
```

The playbook ran successfully and it installed the elastic stack which is elasticsearch, kibana, and logstash in separate hosts in both ubuntu and centos server and it also installed the nagios in ubuntu

## proof of installation in ubuntu



localhost:9200/

localhost:9200

Import bookmarks... Centos Wiki Documentation Forums

JSON Raw Data Headers

Save Copy Collapse All Expand All Filter JSON

```
{
  "name": "localhost.localdomain",
  "cluster_name": "elasticsearch",
  "cluster_uuid": "gVHWxH7xTmeMlk0LIlu8Fg",
  "version": {
    "number": "7.17.7",
    "build_flavor": "default",
    "build_type": "rpm",
    "build_hash": "78dcaaa8cee33438b91eca7f5c7f56a70fec9e80",
    "build_date": "2022-10-17T15:29:54.167373105Z",
    "build_snapshot": false,
    "lucene_version": "8.11.1",
    "minimum_wire_compatibility_version": "6.8.0",
    "minimum_index_compatibility_version": "6.0.0-beta1",
    "tagline": "You Know, for Search"
  }
}
```

```
jefferson@Server1-VirtualBox:~$ sudo systemctl status kibana
● kibana.service - Kibana
   Loaded: loaded (/etc/systemd/system/kibana.service; enabled; vendor prese>
   Active: active (running) since Thu 2022-10-27 11:56:02 PST; 2min 15s ago
     Docs: https://www.elastic.co
   Main PID: 48700 (node)
    Tasks: 11 (limit: 1080)
   Memory: 295.5M
      CPU: 22.233s
   CGroup: /system.slice/kibana.service
           └─48700 /usr/share/kibana/bin/../node/bin/node /usr/share/kibana/>

Oct 27 11:56:02 Server1-VirtualBox systemd[1]: Started Kibana.
lines 1-12/12 (END)
```

```

jefferson@Server1-VirtualBox:~$ sudo systemctl status logstash
● logstash.service - logstash
   Loaded: loaded (/etc/systemd/system/logstash.service; enabled; vendor preset: enabled)
   Active: active (running) since Thu 2022-10-27 11:58:41 PST; 19s ago
     Main PID: 48994 (java)
        Tasks: 14 (limit: 1080)
      Memory: 253.3M
         CPU: 14.895s
       CGroup: /system.slice/logstash.service
               └─48994 /usr/share/logstash/jdk/bin/java -Xms1g -Xmx1g -XX:+UseConcMarkSweepGC

Oct 27 11:58:41 Server1-VirtualBox systemd[1]: Started logstash.
Oct 27 11:58:41 Server1-VirtualBox logstash[48994]: Using bundled JDK: /usr/share/logstash/jdk
Oct 27 11:58:42 Server1-VirtualBox logstash[48994]: OpenJDK 64-Bit Server VM warning: Ignoring option --add-exports, as it does not

```

## Proof of installation in centos

```

[jefferson@localhost ~]$ sudo systemctl start kibana
[sudo] password for jefferson:
[jefferson@localhost ~]$ sudo systemctl enable kibana
Created symlink from /etc/systemd/system/multi-user.target.wants/kibana.service to /etc/systemd/system/kibana.service.
[jefferson@localhost ~]$ sudo systemctl status kibana
● kibana.service - Kibana
   Loaded: loaded (/etc/systemd/system/kibana.service; enabled; vendor preset: disabled)
   Active: active (running) since Thu 2022-10-27 11:59:36 PST; 32s ago
     Docs: https://www.elastic.co
    Main PID: 24456 (node)
       CGroup: /system.slice/kibana.service
               └─24456 /usr/share/kibana/bin/../../node/bin/node /usr/share/kibana/bin/../../s...

Oct 27 11:59:36 localhost.localdomain systemd[1]: Started Kibana.
[jefferson@localhost ~]$ █

[jefferson@localhost ~]$ sudo systemctl start logstash
[jefferson@localhost ~]$ sudo systemctl enable logstash
Created symlink from /etc/systemd/system/multi-user.target.wants/logstash.service to /etc/systemd/system/logstash.service.
[jefferson@localhost ~]$ sudo systemctl status logstash
● logstash.service - logstash
   Loaded: loaded (/etc/systemd/system/logstash.service; enabled; vendor preset: disabled)
   Active: active (running) since Thu 2022-10-27 12:00:35 PST; 11s ago
     Main PID: 24590 (java)
       CGroup: /system.slice/logstash.service
               └─24590 /usr/share/logstash/jdk/bin/java -Xms1g -Xmx1g -XX:+UseConcMarkSweepGC

Oct 27 12:00:35 localhost.localdomain systemd[1]: Started logstash.
Oct 27 12:00:35 localhost.localdomain logstash[24590]: Using bundled JDK: /usr/share/logstash/jdk
Oct 27 12:00:39 localhost.localdomain logstash[24590]: OpenJDK 64-Bit Server VM warning: Ignoring option --add-exports, as it does not
Hint: Some lines were ellipsized, use -l to show in full.
[jefferson@localhost ~]$ █

```



**Nagios®**

**Nagios® Core™**

**Nagios® Core™**  
**Version 4.4.6**  
April 28, 2020

**General**  
[Home](#)  
[Documentation](#)

**Current Status**  
[Tactical Overview](#)  
[Map \(Legacy\)](#)  
[Hosts](#)  
[Services](#)  
[Host Groups](#)  
    [Summary](#)  
    [Grid](#)  
[Service Groups](#)  
    [Summary](#)  
    [Grid](#)

**Problems**  
[Services \(Unhandled\)](#)  
[Hosts \(Unhandled\)](#)  
[Network Outages](#)

Quick Search:

**Reports**  
[Availability](#)  
[Trends \(Legacy\)](#)

Copyright © 2010-2020 Nagios Core Development Team and Community Contributors. Copyright © 1999-2009 on contributors.

Nagios Core is licensed under the GNU General Public License and is provided AS IS with NO WARRANTY OF MERCHANTABILITY, AND FITNESS FOR A PARTICULAR PURPOSE. Nagios, Nagios Core and the Nagios logo are registered servicemarks owned by Nagios Enterprises, LLC. Use of the Nagios marks is governed by the Nagios Core License.

MONITORED BY  
**Nagios®**  
NAGIOS CORE

SOURCEFORGE.NET

nagios installed

```
jefferson@LocalMachine-VirtualBox:~/CPE_MIDEXAM_LANGBID$ cd roles
jefferson@LocalMachine-VirtualBox:~/CPE_MIDEXAM_LANGBID/roles$ cd prometheus
jefferson@LocalMachine-VirtualBox:~/CPE_MIDEXAM_LANGBID/roles/prometheus$ tree
.
├── tasks
│   └── main.yml
└── 1 directory, 1 file
```

I created prometheus role which is prometheus and inputted the installation command of prometheus in the main.yml

```
jefferson@LocalMachine-VirtualBox: ~/CPE_MIDEXAM_LA...
GNU nano 6.2 main.yml
- name: install prometheus in ubuntu
  apt:
    name:
      - prometheus
    state: latest
    update_cache: yes
  when: ansible_distribution == "Ubuntu"

- name: install prometheus requisites for centos
  tags: centos, snapd, epel-release
  yum:
    name:
      - epel-release
      - snapd
    state: latest
  when: ansible_distribution == "CentOS"

- name: enabling sockets for centos
  tags: snapd, centos
  command: systemctl enable --now snapd.socket
  when: ansible_distribution == "CentOS"

- name: finishing installation of prometheus in centos
  tags: centos, prometheus
  command: snap install prometheus --classic
  when: ansible_distribution == "CentOS"
```

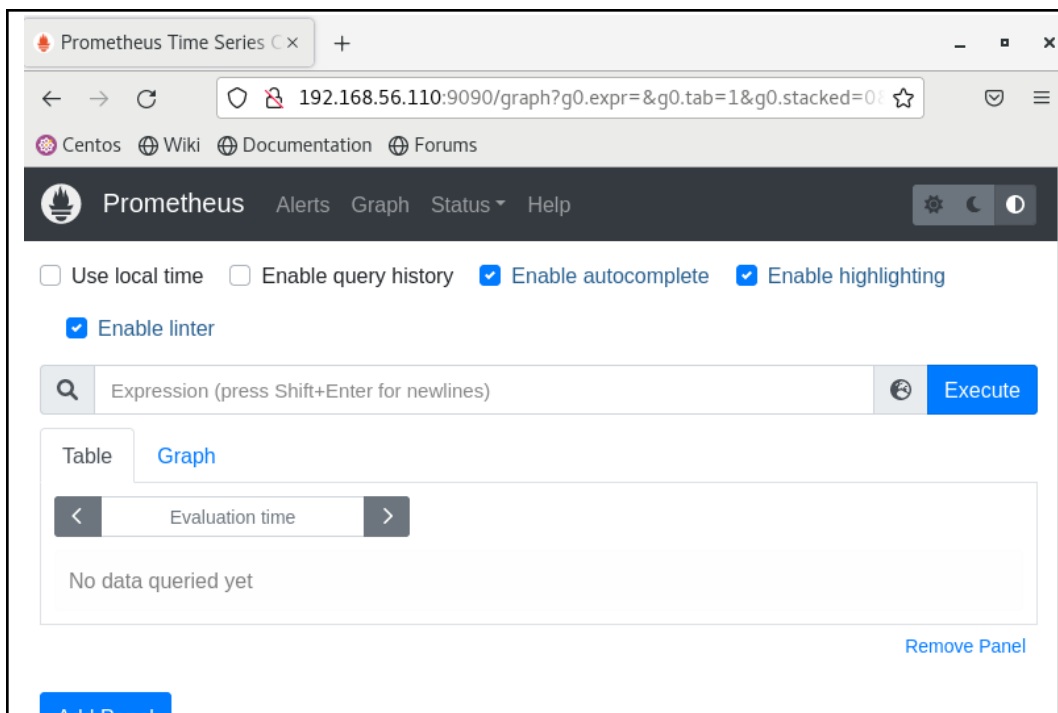
The installation command of prometheus in both ubuntu and centos vm.

```
- hosts: igp_servers
  become: true
  roles:
    - prome
```

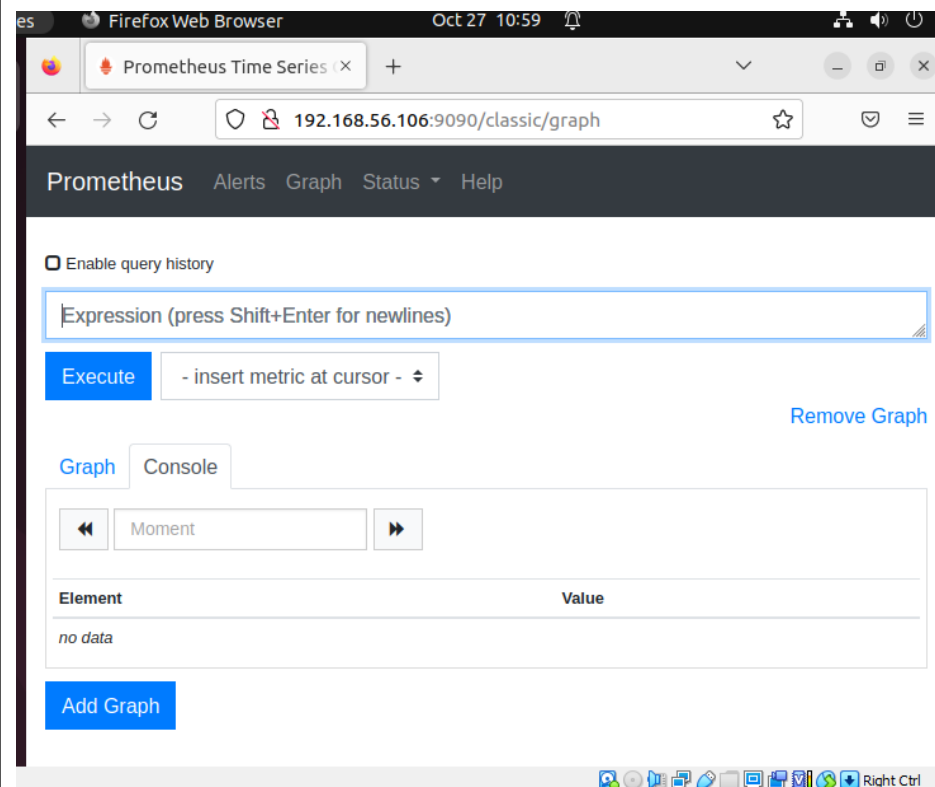
The command to run the host and the prome role.

```
jefferson@LocalMachine-VirtualBox: ~/CPE_MIDEXAM_LA...  
ok: [192.168.56.110]  
ok: [192.168.56.106]  
  
TASK [prometheus : install prometheus in ubuntu] *****  
*  
skipping: [192.168.56.110]  
ok: [192.168.56.106]  
  
TASK [prometheus : install prometheus requisites for centos] *****  
*  
skipping: [192.168.56.106]  
ok: [192.168.56.110]  
  
TASK [prometheus : enabling sockets for centos] *****  
*  
skipping: [192.168.56.106]  
changed: [192.168.56.110]  
  
TASK [prometheus : finishing installation of prometheus in centos] *****  
*  
skipping: [192.168.56.106]  
changed: [192.168.56.110]  
  
PLAY RECAP *****  
*  
192.168.56.106 : ok=4 changed=0 unreachable=0 failed=0  
skipped=4 rescued=0 ignored=0  
192.168.56.110 : ok=6 changed=2 unreachable=0 failed=0  
skipped=2 rescued=0 ignored=0
```

The prometheus main.yml ran successfully and it installed the prometheus in both ubuntu and centos server.



Prometheus in centos installed.



prometheus in ubuntu installed.

```
jefferson@LocalMachine-VirtualBox: ~/CPE_MIDEXAM_LA...  
GNU nano 6.2 main.yml *  
- name: install grafana in ubuntu  
  apt:  
    name:  
      - grafana  
    state: latest  
    update_cache: yes  
  when: ansible_distribution == "Ubuntu"  
  
- name: install grafana requisites for centos  
  tags: centos, snapd, epel-release  
  yum:  
    name:  
      - epel-release  
      - snapd  
    state: latest  
  when: ansible_distribution == "CentOS"  
  
- name: enabling sockets for centos  
  tags: snapd, centos  
  command: systemctl enable --now snapd.socket  
  when: ansible_distribution == "CentOS"  
  
- name: finishing installation of grafana in centos  
  tags: centos, grafana  
  command: snap install grafana --classic  
  when: ansible_distribution == "CentOS"
```

I created a role for grafana and inputted the command in main.yml

```
jefferson@LocalMachine-VirtualBox:~/CPE_MIDEXAM_LANG8ID/roles/grafinf$ tree  
.  
├── tasks  
│   └── main.yml  
└──  
  
1 directory, 1 file  
jefferson@LocalMachine-VirtualBox:~/CPE_MIDEXAM_LANG8ID/roles/grafinf$
```

```
jefferson@LocalMachine-VirtualBox: ~/CPE_MIDEXAM_LA...  
TASK [install updates (Ubuntu)] *****  
skipping: [192.168.56.110]  
ok: [192.168.56.106]  
  
PLAY [igp_servers] *****  
  
TASK [Gathering Facts] *****  
ok: [192.168.56.110]  
ok: [192.168.56.106]  
  
TASK [grafinf : install grafana in ubuntu] *****  
skipping: [192.168.56.110]  
changed: [192.168.56.106]  
  
TASK [grafinf : install grafana requisites for centos] *****  
skipping: [192.168.56.106]  
ok: [192.168.56.110]  
  
TASK [grafinf : enabling sockets for centos] *****  
skipping: [192.168.56.106]  
changed: [192.168.56.110]  
  
TASK [grafinf : finishing installation of grafana in centos] *****  
skipping: [192.168.56.106]  
changed: [192.168.56.110]  
  
PLAY RECAP *****  
192.168.56.106      : ok=4    changed=1    unreachable=0    failed=0    skipped=4    rescued=0  
                    ignored=0  
192.168.56.110      : ok=6    changed=2    unreachable=0    failed=0    skipped=2    rescued=0  
                    ignored=0
```

grafana

```

jefferson@LocalMachine-VirtualBox:~/CPE_MIDEXAM_LANGBID$ cd roles
jefferson@LocalMachine-VirtualBox:~/CPE_MIDEXAM_LANGBID/roles$ cd lamp
jefferson@LocalMachine-VirtualBox:~/CPE_MIDEXAM_LANGBID/roles/lamp$ tree
.
├── tasks
│   └── main.yml
└── 1 directory, 1 file

```

I created the new role which is the lamp for the main.yml of the installation of php,httpd, and mariadb.

```

GNU nano 6.2 main.yml
- name: install lamp (php,httpd) for ubuntu
  apt:
    name:
      - apache2
      - php
    state: latest
    update_cache: yes
  when: ansible_distribution == "Ubuntu"
- name: install mariadb package for ubuntu
  apt:
    name: mariadb-server
    state: latest
  when: ansible_distribution == "Ubuntu"
- name: install lamp (php,httpd) for centos
  dnf:
    name:
      - php
      - httpd
    state: latest
    update_cache: yes
  when: ansible_distribution == "CentOS"
- name: install mariadb package for centos
  yum:
    name: mariadb-server
    state: latest
  when: ansible_distribution == "CentOS"
- name: "Mariadb- Restarting/Enabling"
  service:
    name: mariadb
    state: restarted
    enabled: true

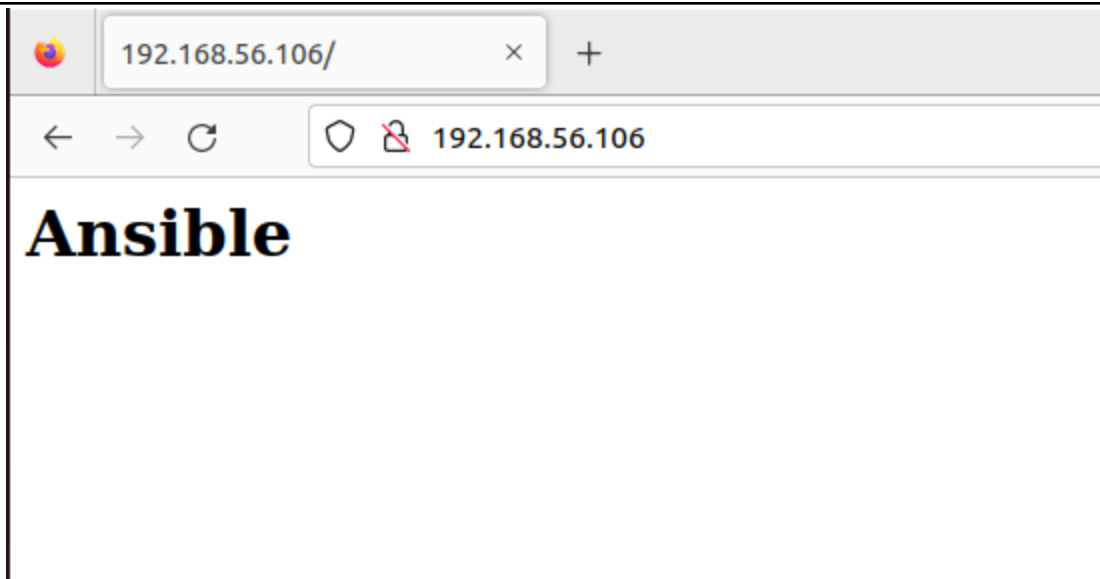
```

The content of the main.yml of the lamp role that will install the lamp stack (httpd, php, and mariadb) in separate hosts in both centos and ubuntu server.

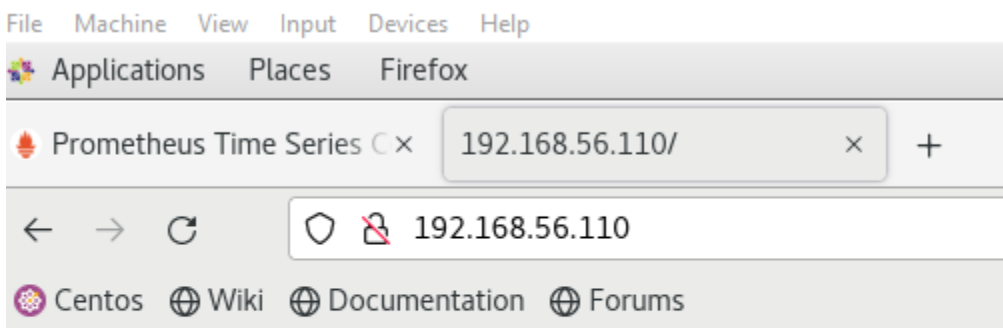
```
jefferson@LocalMachine-VirtualBox: ~/CPE_MIDEXAM_LA...  
TASK [install updates (Ubuntu)] *****  
skipping: [192.168.56.110]  
ok: [192.168.56.106]  
  
PLAY [lamp_servers] *****  
  
TASK [Gathering Facts] *****  
ok: [192.168.56.110]  
ok: [192.168.56.106]  
  
TASK [lamp : install lamp (php,httpd) for ubuntu] *****  
skipping: [192.168.56.110]  
changed: [192.168.56.106]  
  
TASK [lamp : install mariadb package for ubuntu] *****  
skipping: [192.168.56.110]  
ok: [192.168.56.106]  
  
TASK [lamp : install lamp (php,httpd) for centos] *****  
skipping: [192.168.56.106]  
ok: [192.168.56.110]  
  
TASK [lamp : install mariadb package for centos] *****  
skipping: [192.168.56.106]  
ok: [192.168.56.110]  
  
TASK [lamp : Mariadb- Restarting/Enabling] *****  
changed: [192.168.56.110]  
changed: [192.168.56.106]  
  
PLAY RECAP *****  
192.168.56.106      : ok=6    changed=2    unreachable=0    failed=0    skipped=3    rescued=0  
ignored=0  
192.168.56.110     : ok=6    changed=1    unreachable=0    failed=0    skipped=3    rescued=0
```

The installation of lamp stack (httpd,php, and mariadb) ran successfully and installed in separate hosts in both centos and ubuntu.





httpd in ubuntu installed



Ansible

httpd in centos installed

```
bash: httpd-server: command not found...
[jefferson@localhost ~]$ php -v
PHP 5.4.16 (cli) (built: Apr 1 2020 04:07:17)
Copyright (c) 1997-2013 The PHP Group
Zend Engine v2.4.0, Copyright (c) 1998-2013 Zend Technologies
[jefferson@localhost ~]$
```

php installed in centos

```

platform: Linux/Ubuntu
jefferson@Server1-VirtualBox:~$ php -v
PHP 8.1.2 (cli) (built: Aug  8 2022 07:28:23) (NTS)
Copyright (c) The PHP Group
Zend Engine v4.1.2, Copyright (c) Zend Technologies
    with Zend OPcache v8.1.2, Copyright (c), by Zend Technologies
jefferson@Server1-VirtualBox:~$

```

php installed in ubuntu

```

[jefferson@localhost ~]$ sudo systemctl status mariadb
[sudo] password for jefferson:
● mariadb.service - MariaDB database server
   Loaded: loaded (/usr/lib/systemd/system/mariadb.service; enabled; vendor preset: disabled)
   Active: active (running) since Thu 2022-10-27 10:23:38 PST; 39min ago
     Process: 17000 ExecStartPost=/usr/libexec/mariadb-wait-ready $MAINPID (code=exited, status=0/SUCCESS)
     Process: 16964 ExecStartPre=/usr/libexec/mariadb-prepare-db-dir %n (code=exited, status=0/SUCCESS)
    Main PID: 16999 (mysqld_safe)
      Tasks: 20
     CGroup: /system.slice/mariadb.service
             └─16999 /bin/sh /usr/bin/mysqld_safe --basedir=/usr
               └─17164 /usr/libexec/mysqld --basedir=/usr --datadir=/var/lib/mysql --plu...

Oct 27 10:23:36 localhost.localdomain systemd[1]: Stopped MariaDB database server.
Oct 27 10:23:36 localhost.localdomain systemd[1]: Starting MariaDB database server...
Oct 27 10:23:36 localhost.localdomain mariadb-prepare-db-dir[16964]: Database MariaD...
Oct 27 10:23:36 localhost.localdomain mysqld_safe[16999]: 221027 10:23:36 mysqld_saf...

```

mariadb installed in centos

```

jefferson@Server1-VirtualBox:~$ sudo systemctl status mariadb
[sudo] password for jefferson:
● mariadb.service - MariaDB 10.6.7 database server
   Loaded: loaded (/lib/systemd/system/mariadb.service; enabled; vendor preset: enabled)
   Active: active (running) since Thu 2022-10-27 10:23:41 PST; 39min ago
     Docs: man:mariadb(8)
           https://mariadb.com/kb/en/library/systemd/
    Main PID: 18480 (mariabdd)
      Status: "Taking your SQL requests now..."
     Tasks: 7 (limit: 1080)
    Memory: 1.0M
       CPU: 1.040s
     CGroup: /system.slice/mariadb.service
             └─18480 /usr/sbin/mariabdd

Oct 27 10:23:41 Server1-VirtualBox mariabdd[18480]: 2022-10-27 10:23:41 0 [Not]
Oct 27 10:23:41 Server1-VirtualBox mariabdd[18480]: Version: '10.6.7-MariaDB-2>
Oct 27 10:23:41 Server1-VirtualBox systemd[1]: Started MariaDB 10.6.7 database>
Oct 27 10:23:41 Server1-VirtualBox /etc/mysql/debian-start[18494]: Upgrading M>
Oct 27 10:23:42 Server1-VirtualBox /etc/mysql/debian-start[18497]: Looking for>

```

mariadb installed in ubuntu.

```
jefferson@LocalMachine-VirtualBox: ~/CPE_MIDEXAM_LA...
jefferson@LocalMachine-VirtualBox:~/CPE_MIDEXAM_LANGBID/roles/grafinf$ cd ..
jefferson@LocalMachine-VirtualBox:~/CPE_MIDEXAM_LANGBID/roles$ cd ..
jefferson@LocalMachine-VirtualBox:~/CPE_MIDEXAM_LANGBID$ git status
On branch main
Your branch is up to date with 'origin/main'.

Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
        modified:   exam.yml
        modified:   inventory
        modified:   roles/lamp/tasks/main.yml

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        roles/grafinf/
        roles/promer/

no changes added to commit (use "git add" and/or "git commit -a")
jefferson@LocalMachine-VirtualBox:~/CPE_MIDEXAM_LANGBID$ git add exam.yml
jefferson@LocalMachine-VirtualBox:~/CPE_MIDEXAM_LANGBID$ git add inventory
jefferson@LocalMachine-VirtualBox:~/CPE_MIDEXAM_LANGBID$ git add inventory/lamp/tasks/main.yml
fatal: pathspec 'inventory/lamp/tasks/main.yml' did not match any files
jefferson@LocalMachine-VirtualBox:~/CPE_MIDEXAM_LANGBID$ git add roles/lamp/tasks/main.yml
jefferson@LocalMachine-VirtualBox:~/CPE_MIDEXAM_LANGBID$ git add grafinf
fatal: pathspec 'grafinf' did not match any files
jefferson@LocalMachine-VirtualBox:~/CPE_MIDEXAM_LANGBID$ git add roles/grafinf
jefferson@LocalMachine-VirtualBox:~/CPE_MIDEXAM_LANGBID$ git add roles/promer/
jefferson@LocalMachine-VirtualBox:~/CPE_MIDEXAM_LANGBID$ git commit -m "exam"
[main f7d0df8] exam
 5 files changed, 77 insertions(+), 3 deletions(-)
 create mode 100644 roles/grafinf/tasks/main.yml
 create mode 100644 roles/promer/tasks/main.yml
jefferson@LocalMachine-VirtualBox:~/CPE_MIDEXAM_LANGBID$ git push origin main
```

I committed all I have edited to the origin.

```
jefferson@LocalMachine-VirtualBox:~/CPE_MIDEXAM_LANGBID$ git push origin main
Enumerating objects: 20, done.
Counting objects: 100% (20/20), done.
Compressing objects: 100% (8/8), done.
Writing objects: 100% (14/14), 1.54 KiB | 1.54 MiB/s, done.
Total 14 (delta 2), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (2/2), completed with 1 local object.
To github.com:jangbid13/CPE_MIDEXAM_LANGBID.git
 696cc37..f7d0df8  main -> main
```

main
1 branch
0 tags
Go to file
Add file
Code

jlangbid13 exam
f7d0df8 40 minutes ago
9 commits

roles	exam	40 minutes ago
README.md	Initial commit	4 hours ago
ansible.cfg	Create ansible.cfg	4 hours ago
exam.yml	exam	40 minutes ago
inventory	exam	40 minutes ago

Actions
Projects
Wiki
Security
Insights
Settings

main
CPE\_MIDEXAM\_LANGBID / roles /
Go to file
Add file
...

jlangbid13 exam
f7d0df8 40 minutes ago
History

..		
elastic/tasks	Create main.yml	4 hours ago
grafinf/tasks	exam	40 minutes ago
lamp/tasks	exam	40 minutes ago
nagios/tasks	Create main.yml	4 hours ago
promote/tasks	exam	40 minutes ago

### GitHub link:

[jlangbid13/CPE\\_MIDEXAM\\_LANGBID \(github.com\)](https://github.com/jlangbid13/CPE_MIDEXAM_LANGBID)

### Conclusions: (link your conclusion from the objective)

All in all, I created a new github repository and created a new file which is ansible.cfg and an inventory file for the playbook hosts. After the ansible and inventory file the next is the exam.yml that has the content of the pre task for the servers. I created the new roles which are the elastic\_server, nagios\_server, igp\_server, and lamp\_server for separated hosts and roles. I created the main.yml in each role to input the respective command that is needed. After that, I ran the exam.yml to try the code and it ran successfully and I included the images of the proof of installment. after all the images I committed the files to the github repository to be saved.

## T.I.P. Faculty Performance Evaluation by the Students (1st Semester, S.Y. 2022-2023, Modular Group 2-part 2)

Your response has been recorded.

[Edit your response](#)

[Submit another response](#)

This form was created inside of Technological Institute of the Philippines. [Report Abuse](#)