Name: Gabriel Soriano	**Date Performed: October 27, 2022**
Course/Section: CPE 232 - CPE31S23	**Date Submitted: October 27, 2022**
Instructor: Engr. Taylar	**Semester and SY: 1st sem- SY 2022-2023**

Midterm Skills Exam: Install, Configure, and Manage Log Monitoring tools

1. Objectives

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.

2. Instructions

1. Create a repository in your GitHub account and label it CPE_MIDEXAM_SURNAME. **DONE**

2. Clone the repository and do the following:
   2.1. Create an Ansible playbook that does the following with an input of a config.yaml file and arranged Inventory file: **DONE**

   2.2. Install and configure Elastic Stack in separate hosts (Elastic Search, Kibana, Logstash) • Install Nagios in one host

   2.3. Install Grafana,Prometheus and Influxdb in seperate hosts (Influxdb,Grafana,Prometheus)

   2.4. Install Lamp Stack in separate hosts (Httpd + Php,Mariadb) **DONE**

3. Document all your tasks using this document. Provide proofs of all the ansible playbooks codes and successful installations.

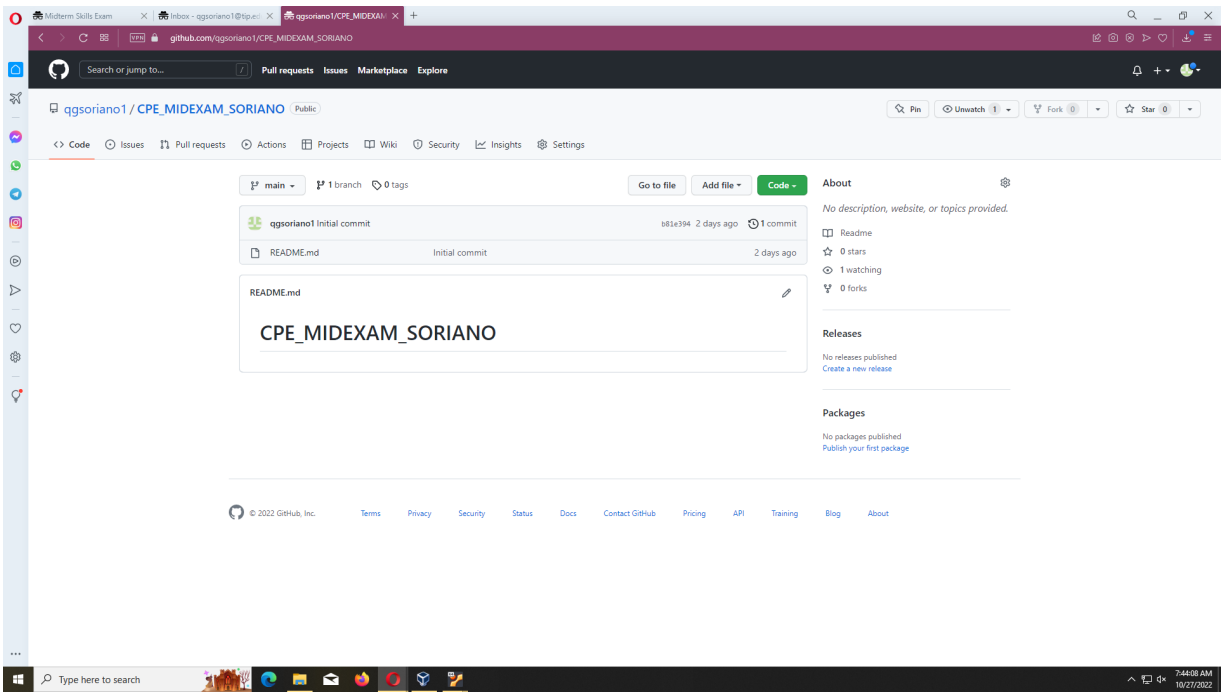
4. Document the push and commit from the local repository to GitHub.

5. Finally, paste also the link of your GitHub repository in the documentation.

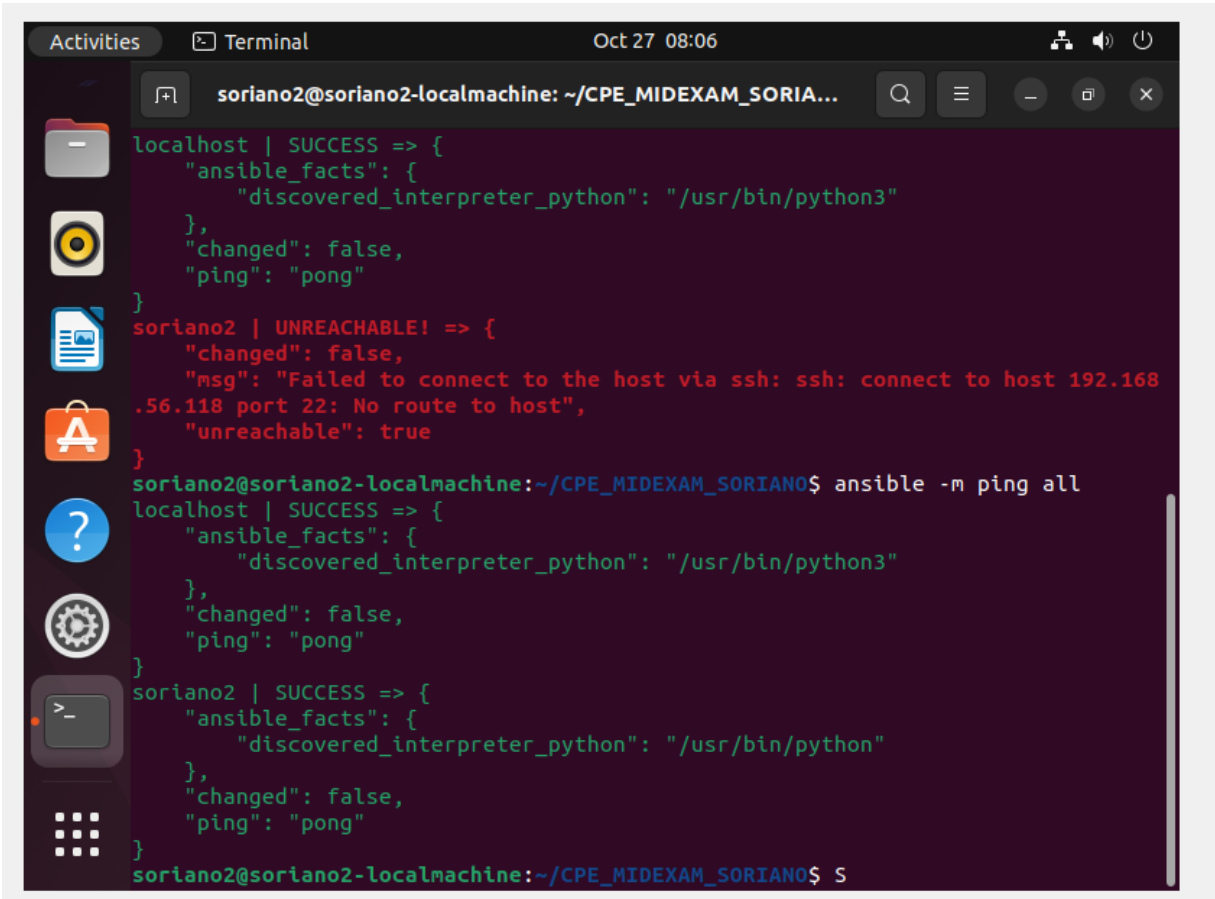
3. **Output** (screenshots and explanations)

!1 SCREENSHOTS/PROOFS:

SCREENSHOTS:



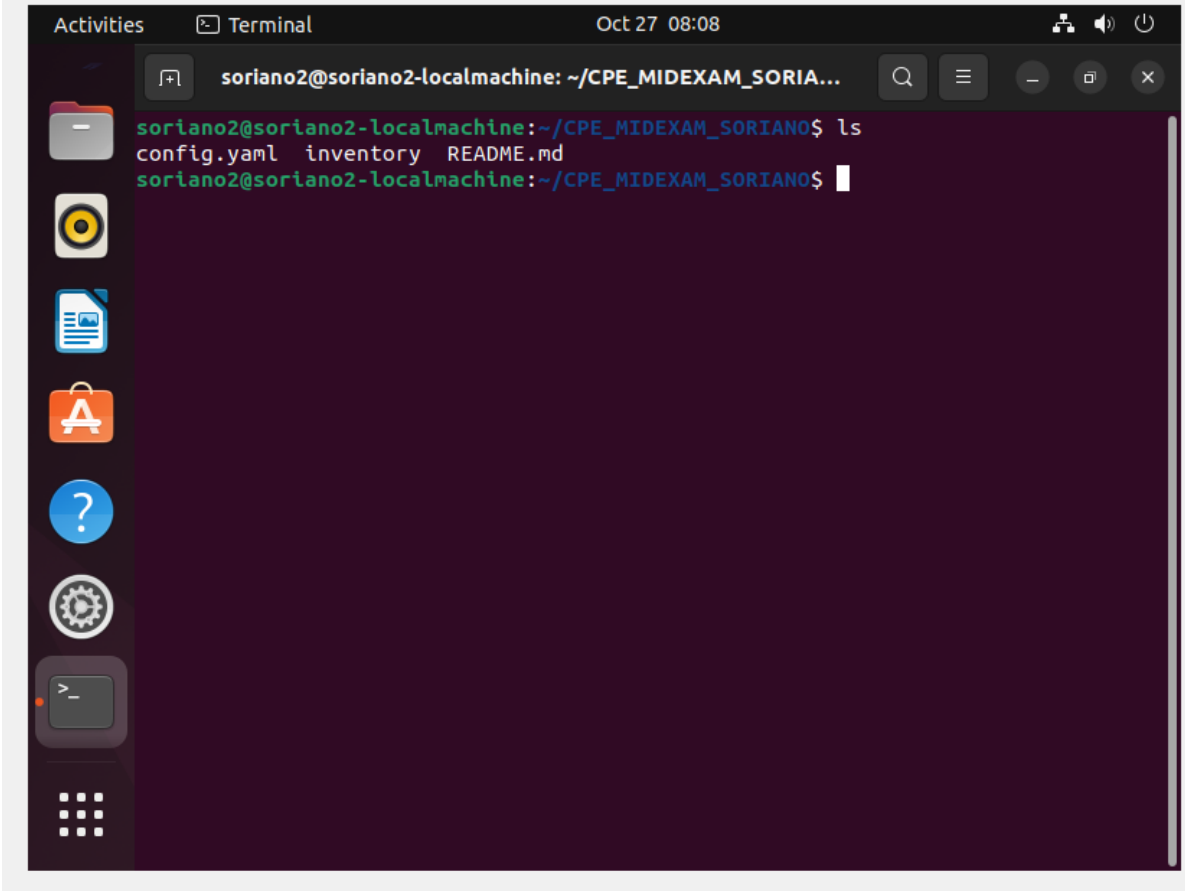
- **This shows the creation of the repository named CPE_MIDEXAM_SORIANO**



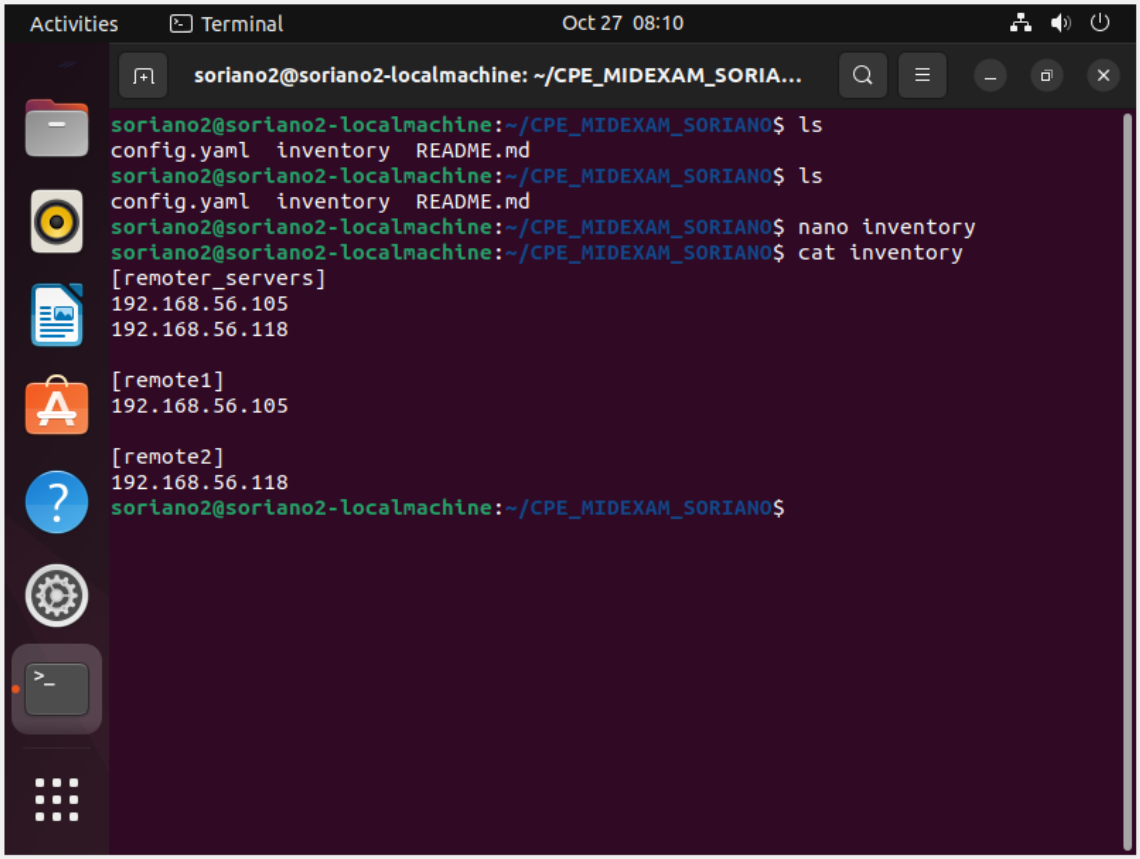
- **This is the proof that all of the remote servers are reachable without errors. This is known with the command ansible -m ping all.**

!2.1 SCREENSHOTS/PROOFS:

SCREENSHOT:



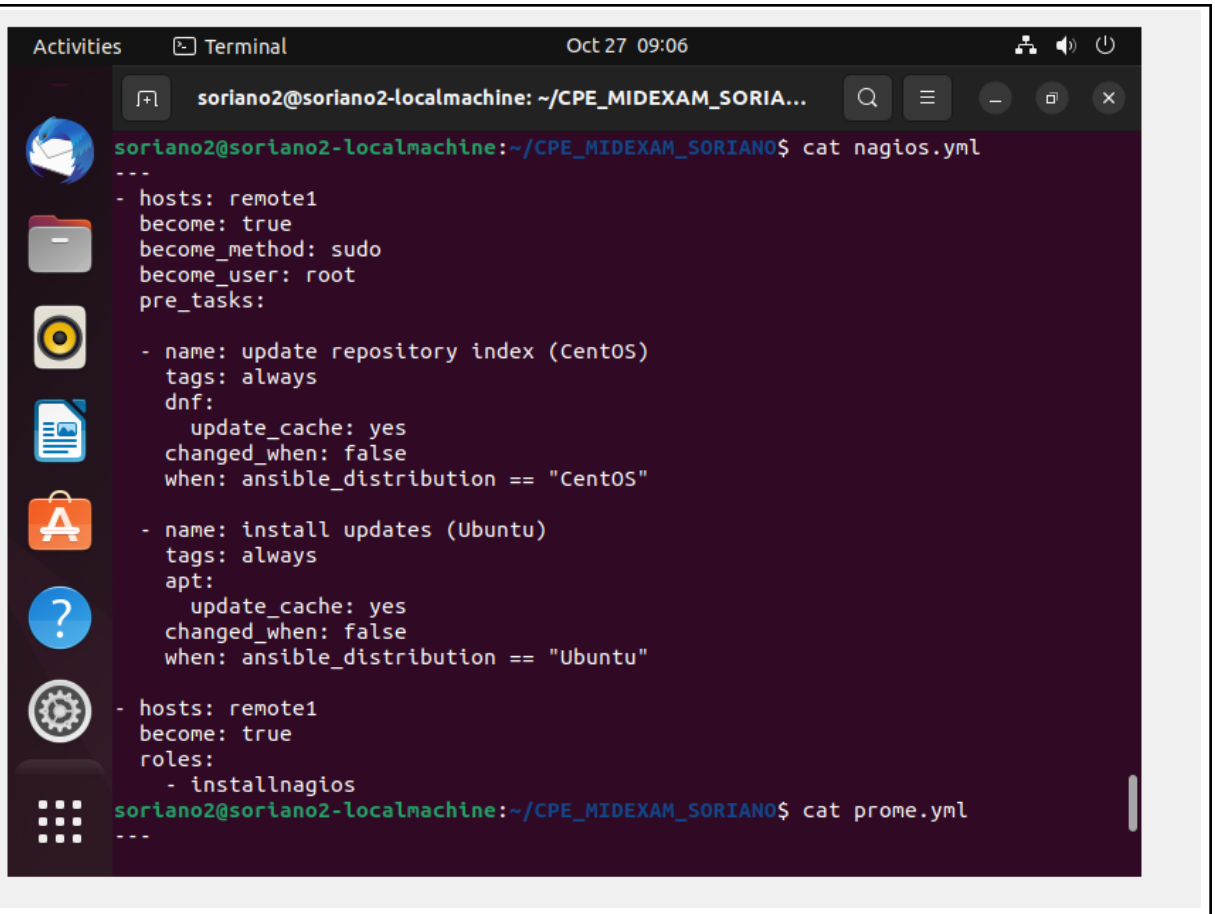
- **This shows the creation of the config.yaml and inventory files.**



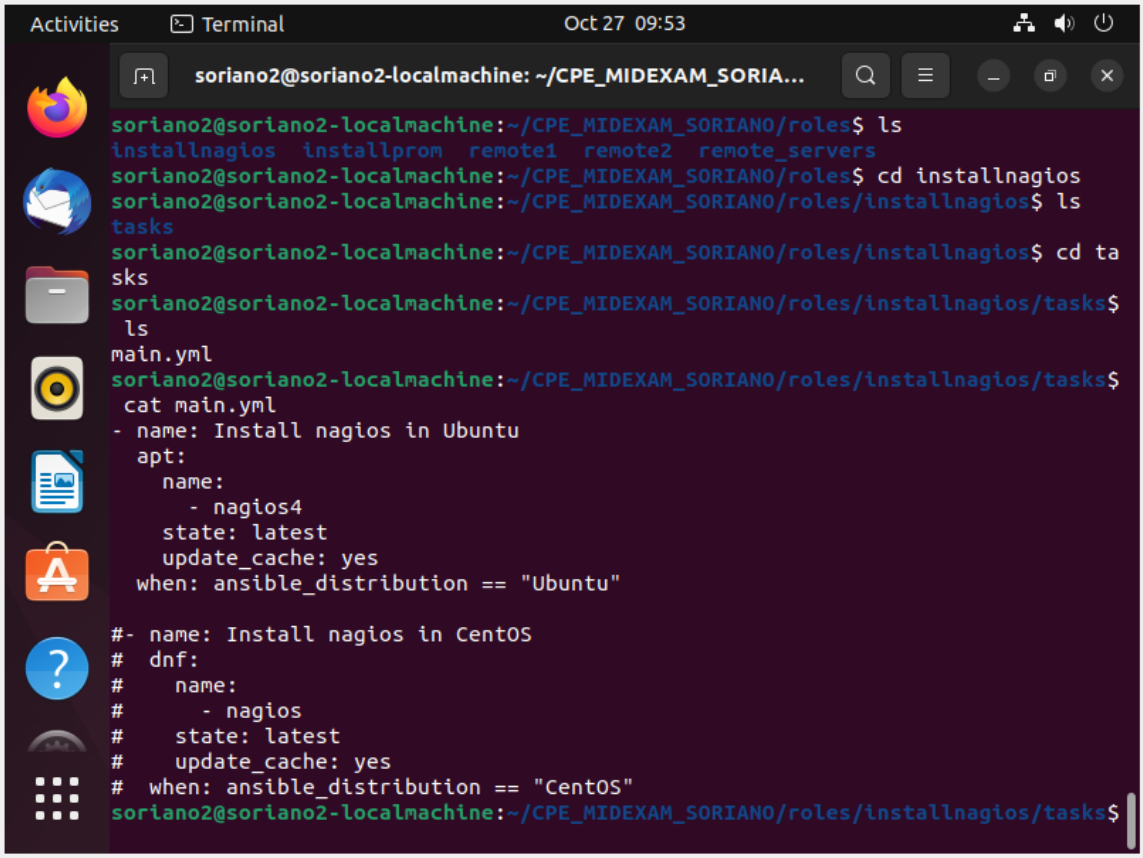
- **This shows the content of the arranged inventory file. The purpose of this is to make a playbook installation only installed on a specific remote server only. Some of the requirements only need to be installed on only one host/workstation.**

!2.2 SCREENSHOTS/PROOFS:

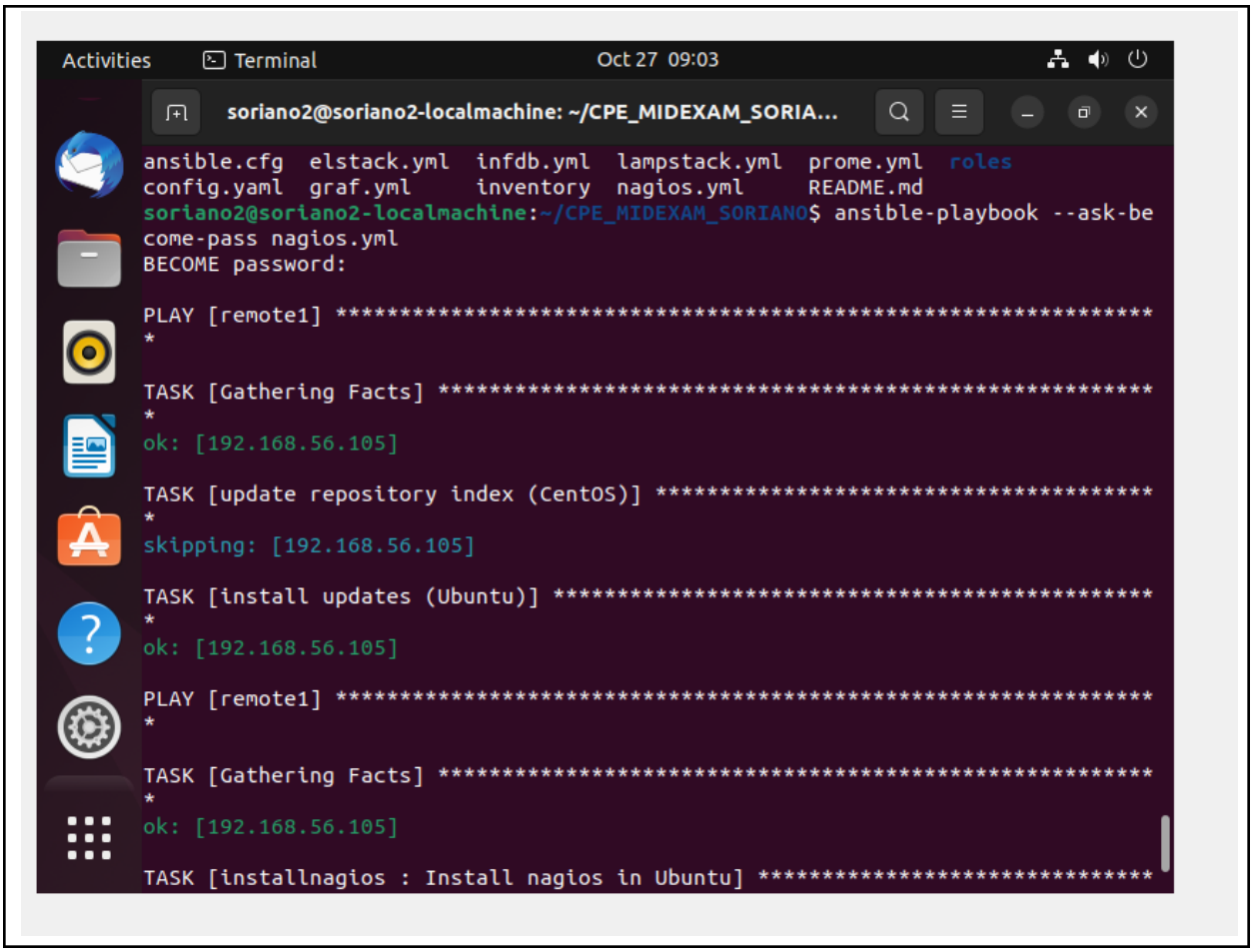
SCREENSHOTS:

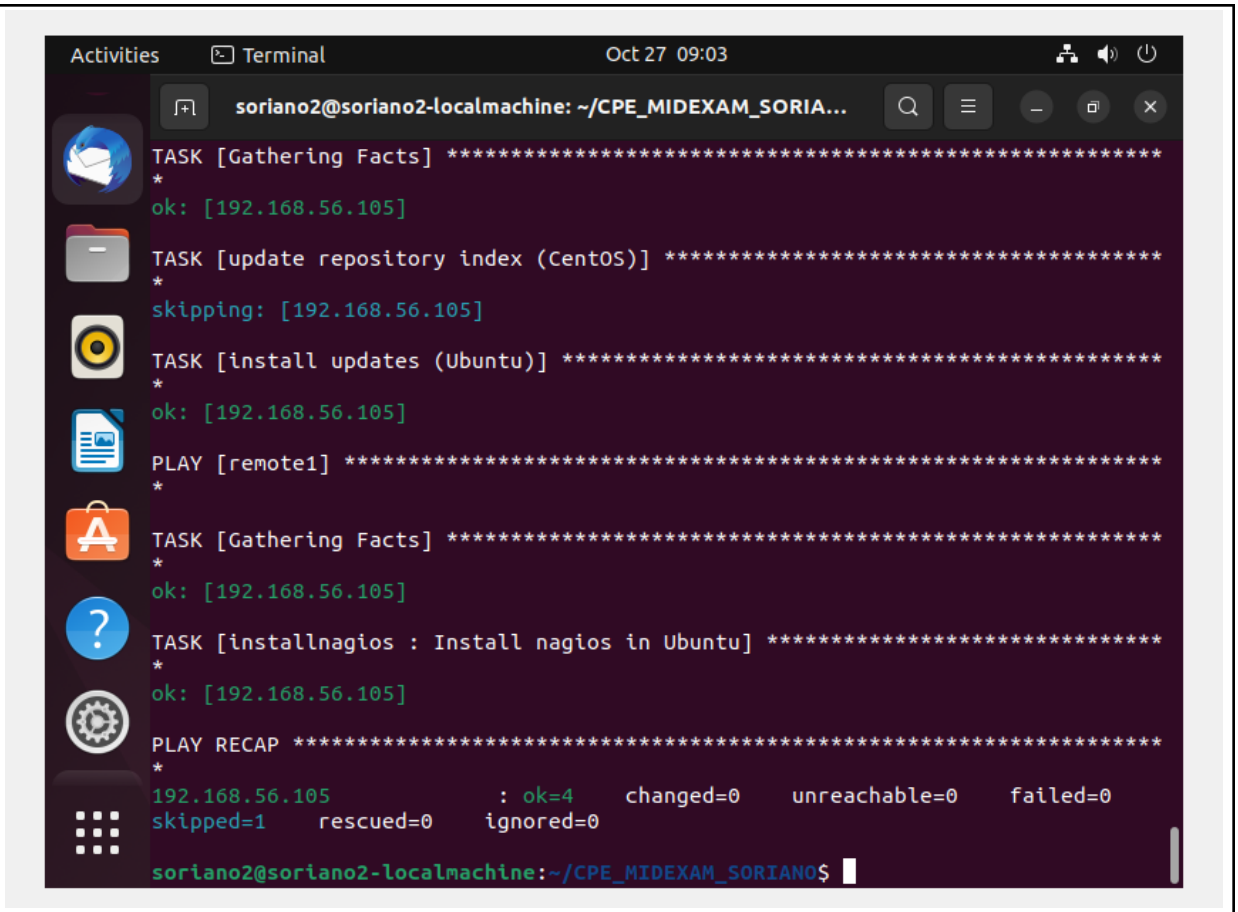


- **This shows the content of the nagios.yml playbook file.**

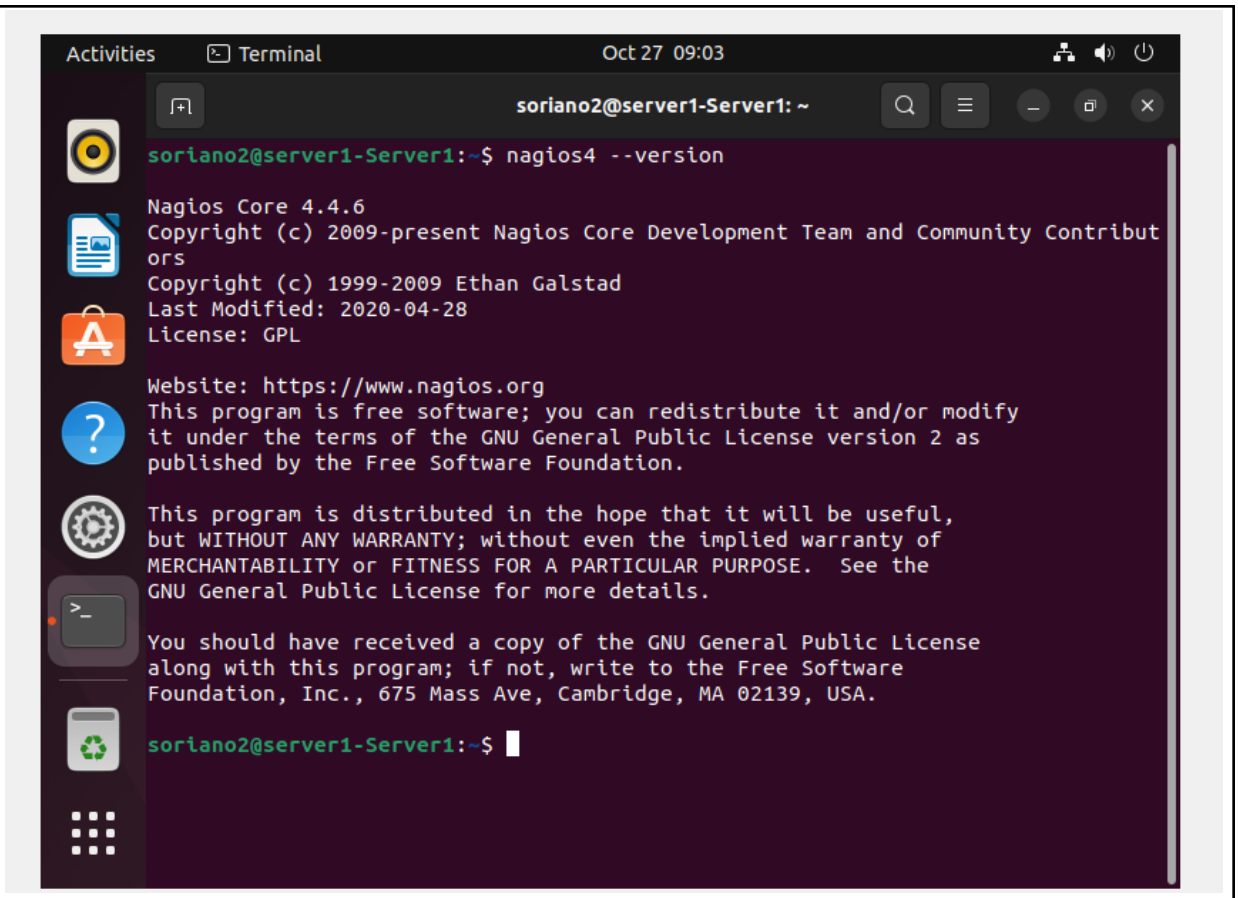


- **This shows the content of the main.yml playbook file for the installation of the nagios on only one workstation, which is the ubuntu workstation only.**

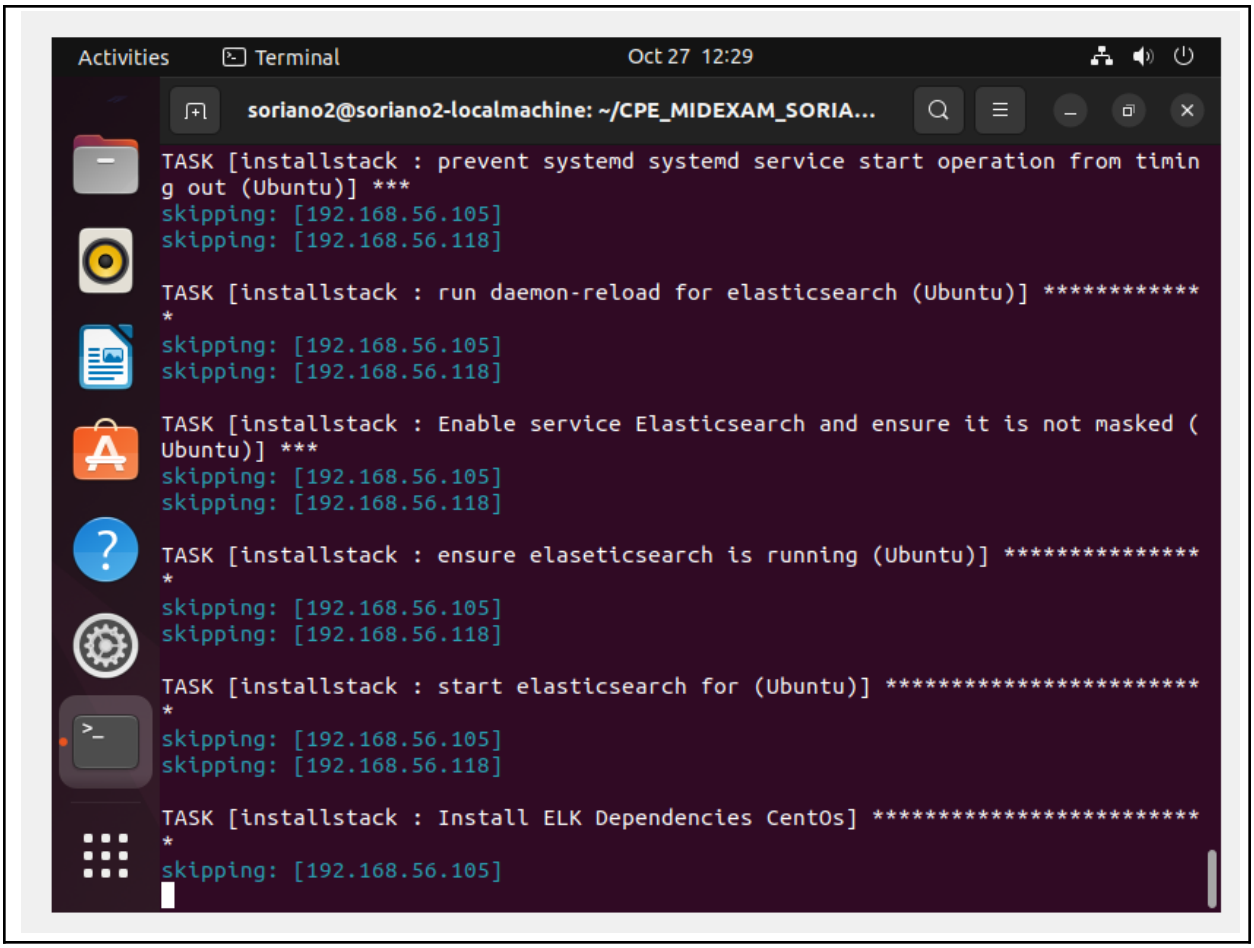

Activities
Terminal
Oct 27 09:03
soriano2@soriano2-localmachine: ~/CPE_MIDEXAM_SORIA...
ansible.cfg elstack.yml infdb.yml lampstack.yml prome.yml roles
config.yaml graf.yml inventory nagios.yml README.md
soriano2@soriano2-localmachine:~/CPE_MIDEXAM_SORIANO$ ansible-playbook --ask-be
come-pass nagios.yml
BECOME password:
PLAY [remote1] ***
*
TASK [Gathering Facts] ***
*
ok: [192.168.56.105]
TASK [update repository index (CentOS)] **********************************
*
skipping: [192.168.56.105]
TASK [install updates (Ubuntu)] **
*
ok: [192.168.56.105]
PLAY [remote1] ***
*
TASK [Gathering Facts] ***
*
ok: [192.168.56.105]
TASK [installnagios : Install nagios in Ubuntu] **************************

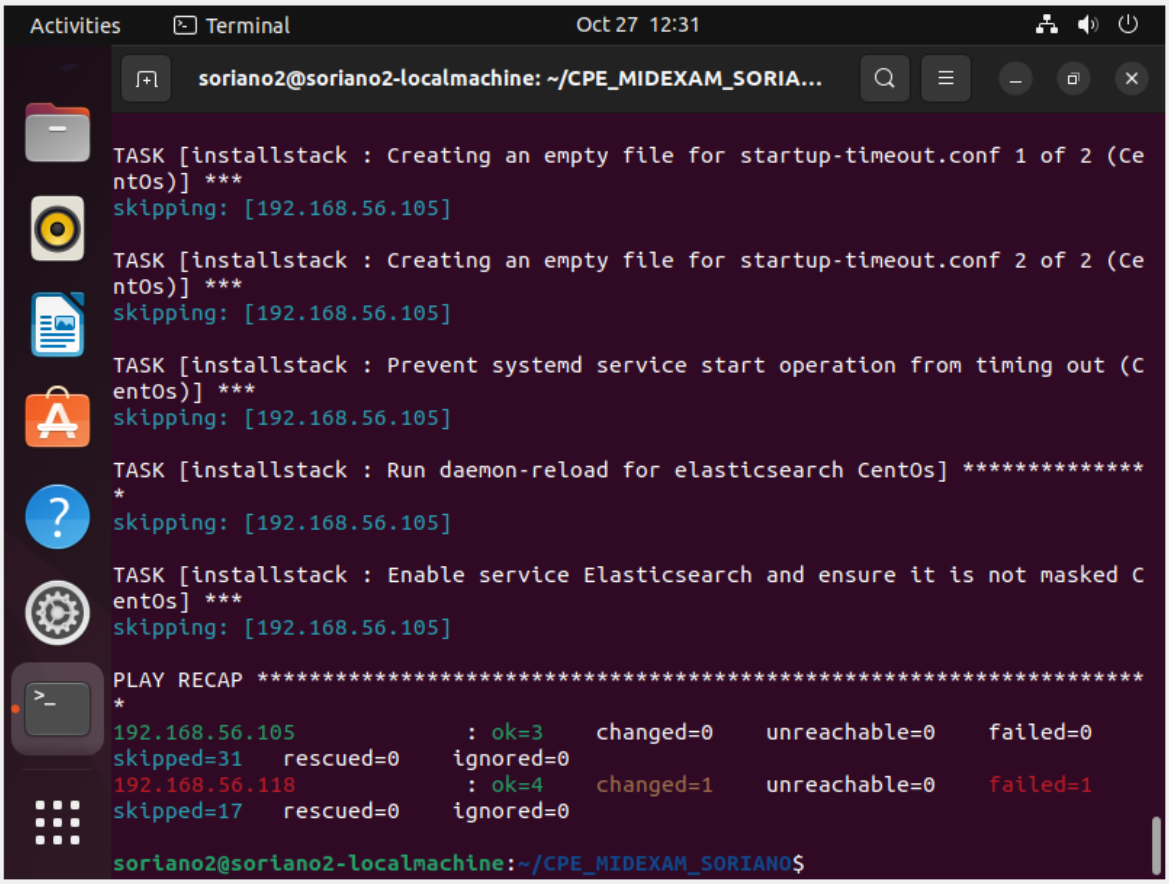


- **This shows the successful run of the playbook file named nagio.yml. As seen above, there are no errors and the run process is successful.**



- **This is the proof that the nagios has been successfully installed at only one server, which is the ubuntu host/workstation.**

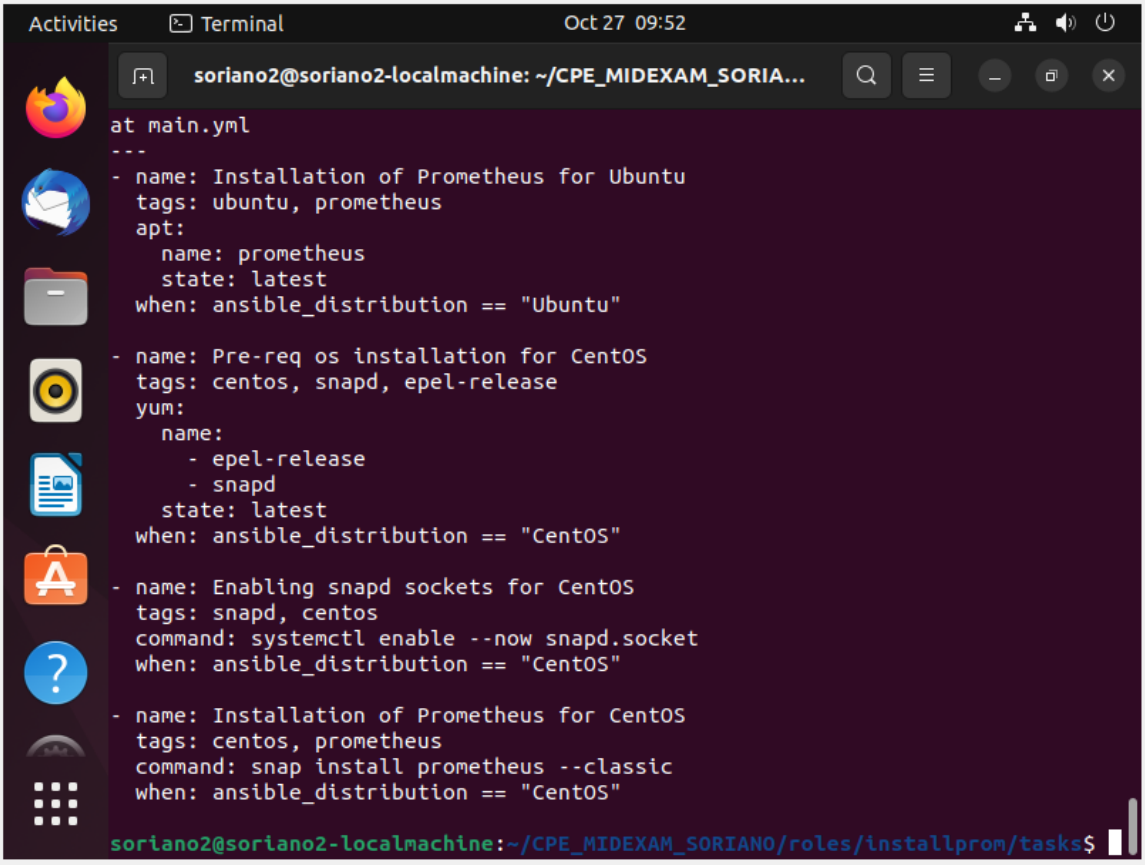

Activities
Terminal
Oct 27 12:29
soriano2@soriano2-localmachine: ~/CPE_MIDEXAM_SORIA...
TASK [installstack : prevent systemd systemd service start operation from timin
g out (Ubuntu)] ***
skipping: [192.168.56.105]
skipping: [192.168.56.118]
TASK [installstack : run daemon-reload for elasticsearch (Ubuntu)] ************
*
skipping: [192.168.56.105]
skipping: [192.168.56.118]
TASK [installstack : Enable service Elasticsearch and ensure it is not masked (
Ubuntu)] ***
skipping: [192.168.56.105]
skipping: [192.168.56.118]
TASK [installstack : ensure elaseticsearch is running (Ubuntu)] **************
*
skipping: [192.168.56.105]
skipping: [192.168.56.118]
TASK [installstack : start elasticsearch for (Ubuntu)] ***********************
*
skipping: [192.168.56.105]
skipping: [192.168.56.118]
TASK [installstack : Install ELK Dependencies CentOs] ************************
*
skipping: [192.168.56.105]



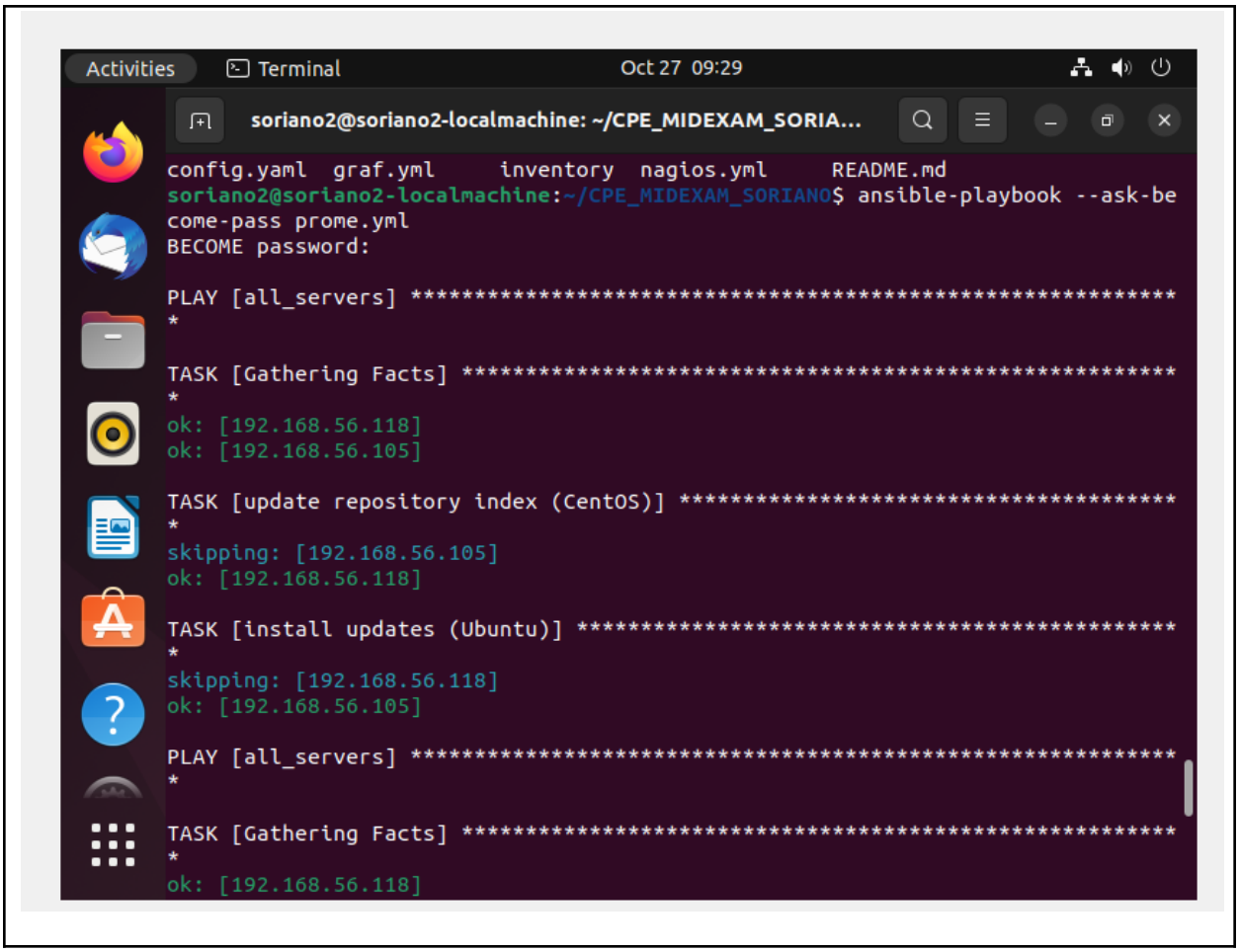
- **This shows the run of the playbook file for the installation of the elastack.**

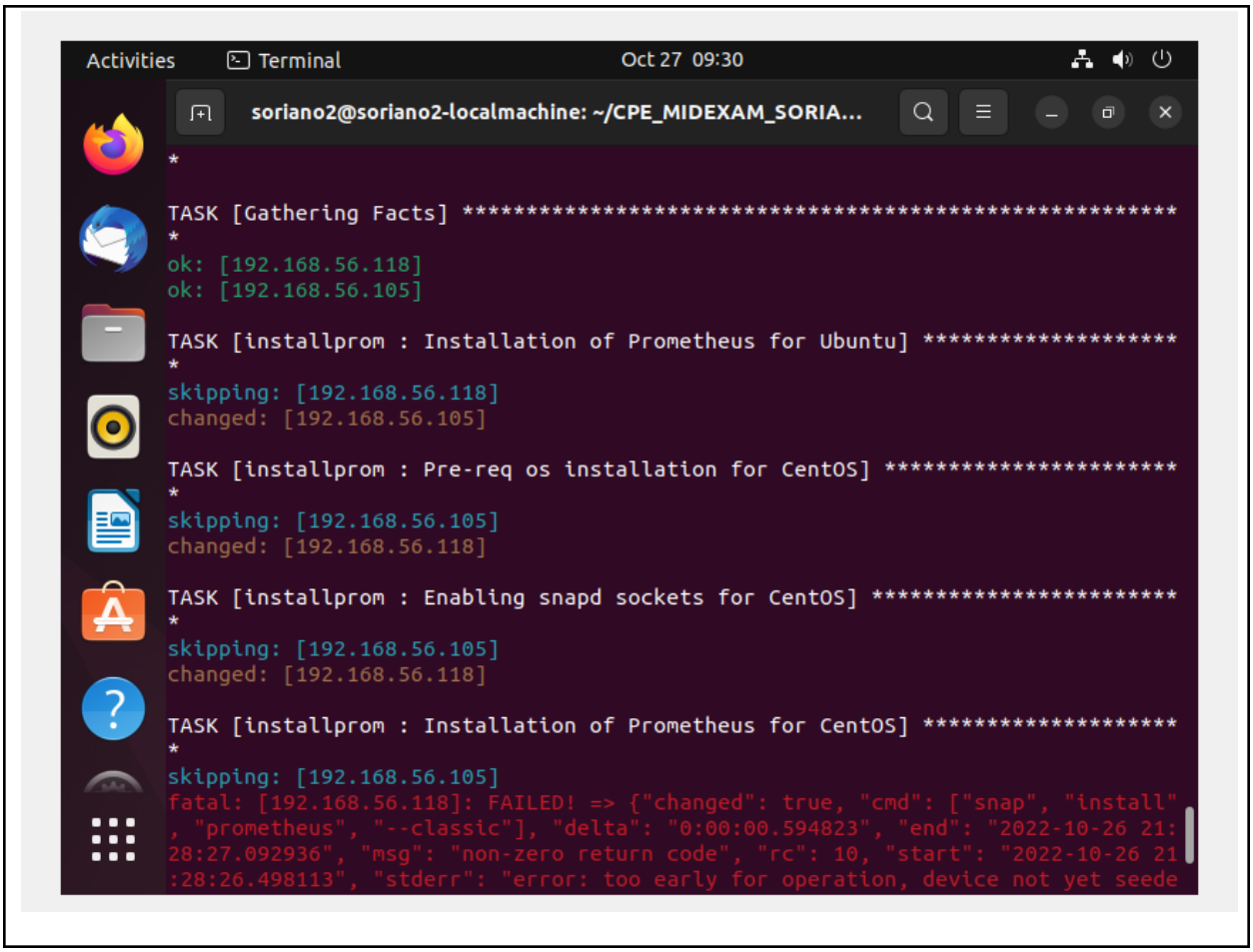
!2.3 SCREENSHOTS/PROOFS:

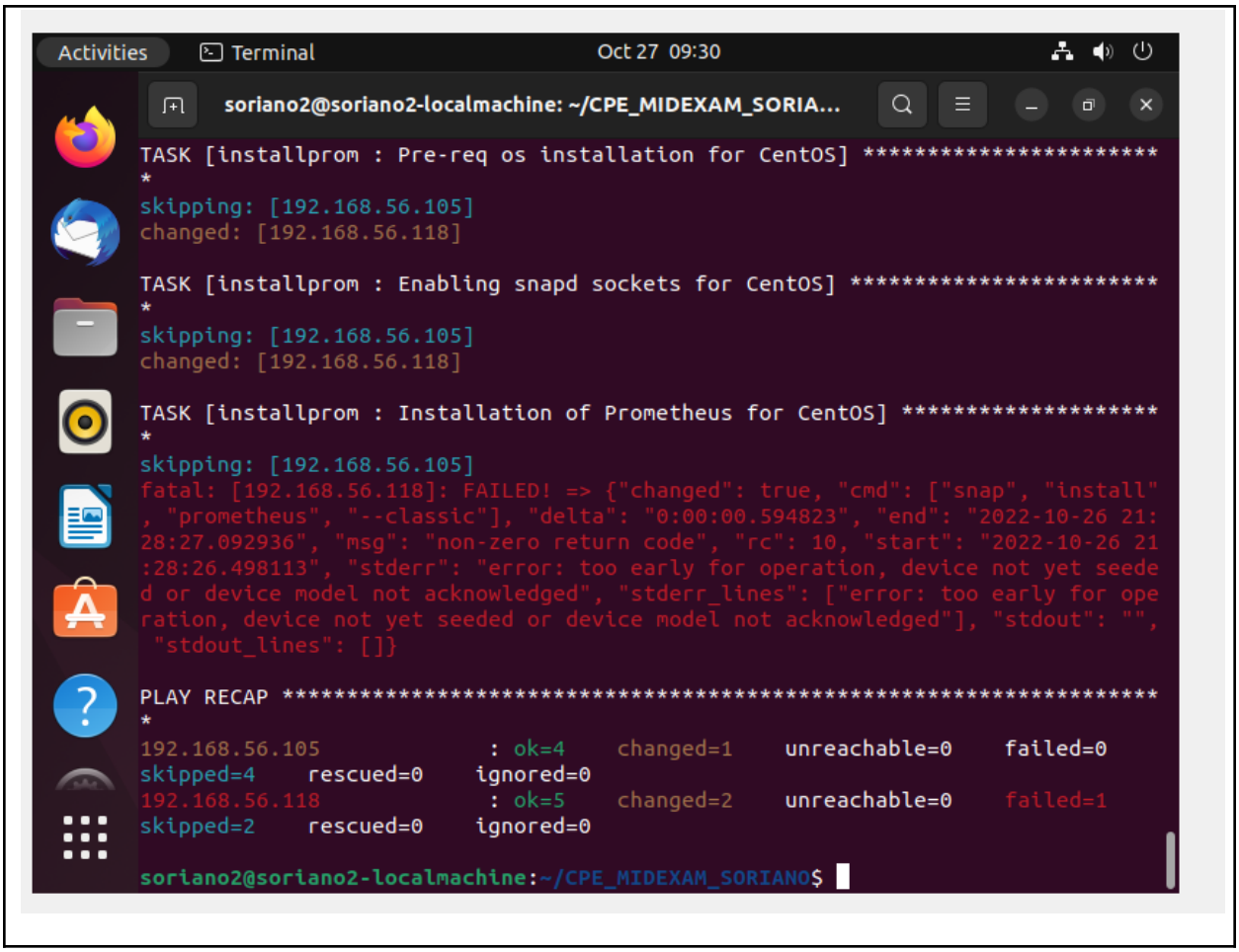
SCREENSHOTS:

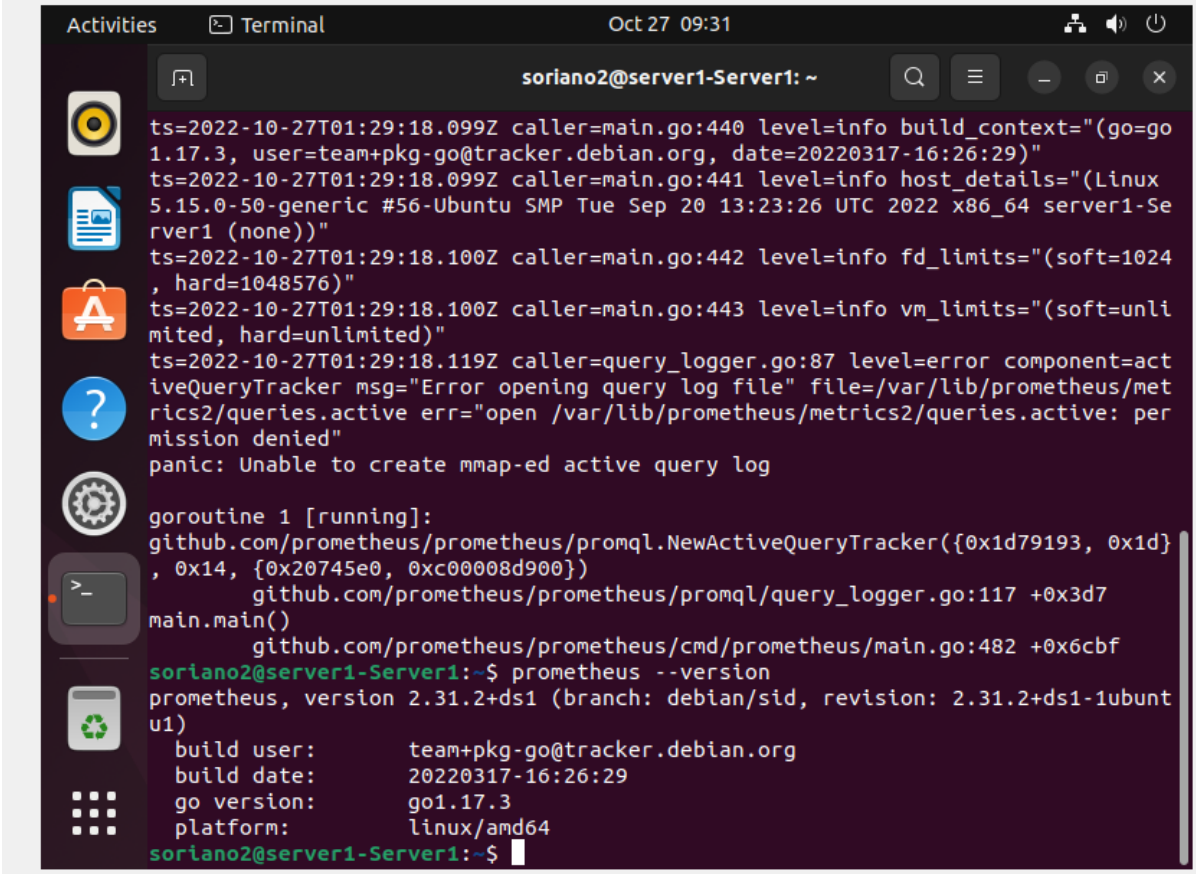


- **This shows the content of the main.yml playbook file for the installation of the prometheus on both ubuntu and centOS workstations.**

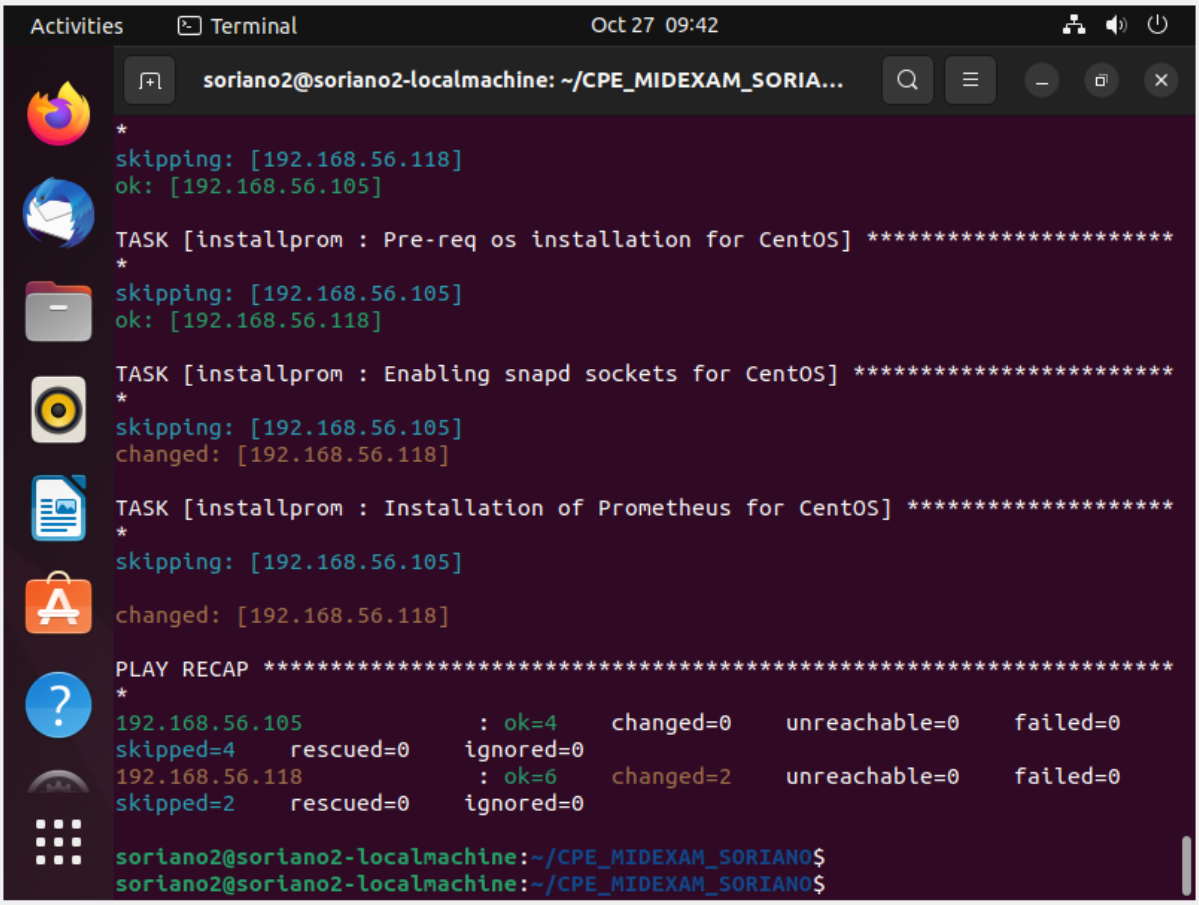

Activities
Terminal
Oct 27 09:29
soriano2@soriano2-localmachine: ~/CPE_MIDEXAM_SORIA...
config.yaml graf.yml inventory nagios.yml README.md
soriano2@soriano2-localmachine:~/CPE_MIDEXAM_SORIANO$ ansible-playbook --ask-become-pass prome.yml
BECOME password:
PLAY [all_servers] ***
TASK [Gathering Facts] ***
ok: [192.168.56.118]
ok: [192.168.56.105]
TASK [update repository index (CentOS)] **************************************
skipping: [192.168.56.105]
ok: [192.168.56.118]
TASK [install updates (Ubuntu)] **
skipping: [192.168.56.118]
ok: [192.168.56.105]
PLAY [all_servers] ***
TASK [Gathering Facts] ***
ok: [192.168.56.118]


Activities
Terminal
Oct 27 09:30
soriano2@soriano2-localmachine: ~/CPE_MIDEXAM_SORIA...
*
TASK [Gathering Facts] ***
*
ok: [192.168.56.118]
ok: [192.168.56.105]
TASK [installprom : Installation of Prometheus for Ubuntu] ********************
*
skipping: [192.168.56.118]
changed: [192.168.56.105]
TASK [installprom : Pre-req os installation for CentOS] ***********************
*
skipping: [192.168.56.105]
changed: [192.168.56.118]
TASK [installprom : Enabling snapd sockets for CentOS] ************************
*
skipping: [192.168.56.105]
changed: [192.168.56.118]
TASK [installprom : Installation of Prometheus for CentOS] ********************
*
skipping: [192.168.56.105]
fatal: [192.168.56.118]: FAILED! => {"changed": true, "cmd": ["snap", "install"
, "prometheus", "--classic"], "delta": "0:00:00.594823", "end": "2022-10-26 21:
28:27.092936", "msg": "non-zero return code", "rc": 10, "start": "2022-10-26 21
:28:26.498113", "stderr": "error: too early for operation, device not yet seede

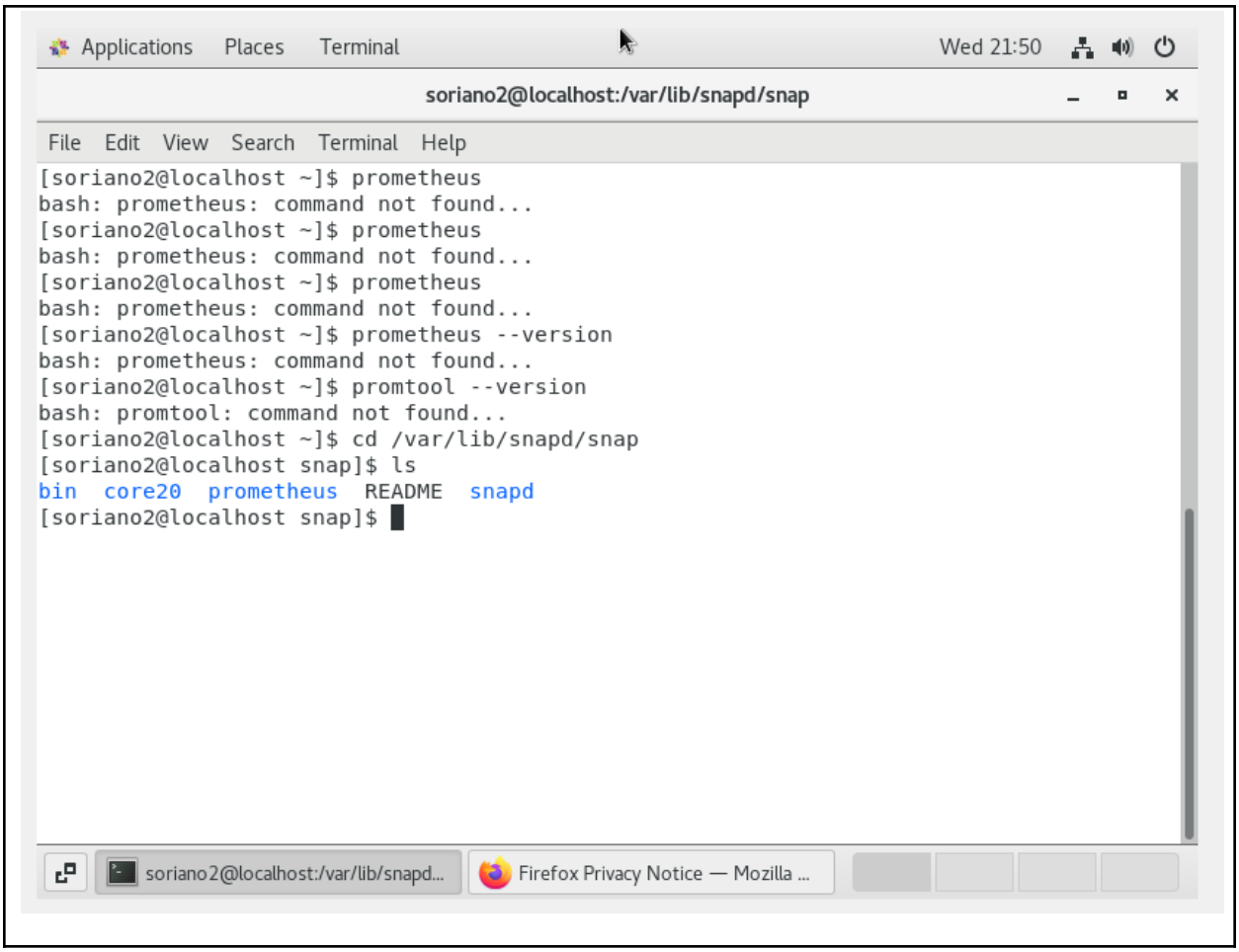

Activities
Terminal
Oct 27 09:30
soriano2@soriano2-localmachine: ~/CPE_MIDEXAM_SORIA...
TASK [installprom : Pre-req os installation for CentOS] ***********************
*
skipping: [192.168.56.105]
changed: [192.168.56.118]
TASK [installprom : Enabling snapd sockets for CentOS] ************************
*
skipping: [192.168.56.105]
changed: [192.168.56.118]
TASK [installprom : Installation of Prometheus for CentOS] ********************
*
skipping: [192.168.56.105]
fatal: [192.168.56.118]: FAILED! => {"changed": true, "cmd": ["snap", "install"
, "prometheus", "--classic"], "delta": "0:00:00.594823", "end": "2022-10-26 21:
28:27.092936", "msg": "non-zero return code", "rc": 10, "start": "2022-10-26 21
:28:26.498113", "stderr": "error: too early for operation, device not yet seede
d or device model not acknowledged", "stderr_lines": ["error: too early for ope
ration, device not yet seeded or device model not acknowledged"], "stdout": "",
"stdout_lines": []}
PLAY RECAP ***
*
192.168.56.105 : ok=4 changed=1 unreachable=0 failed=0
skipped=4 rescued=0 ignored=0
192.168.56.118 : ok=5 changed=2 unreachable=0 failed=1
skipped=2 rescued=0 ignored=0
soriano2@soriano2-localmachine:~/CPE_MIDEXAM_SORIANO$

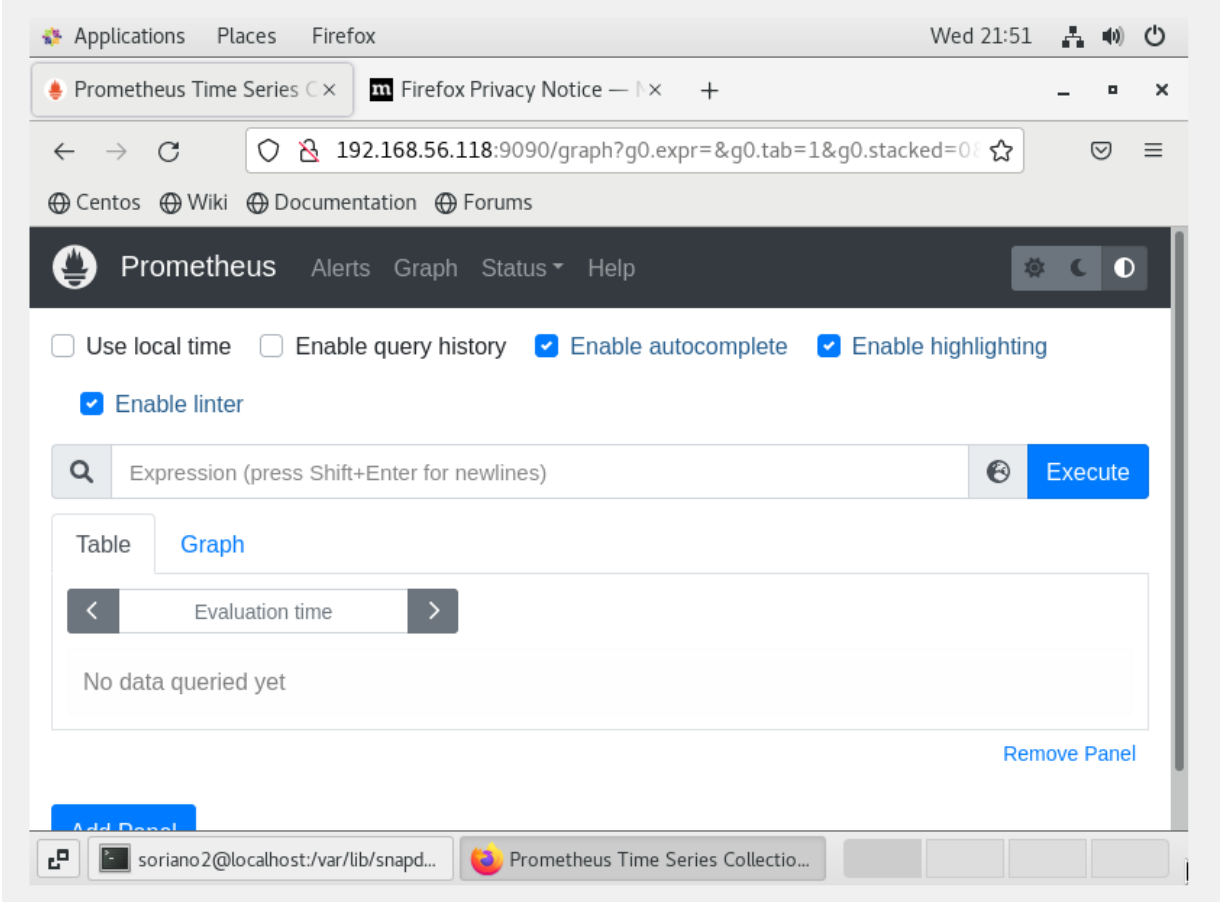


- **This shows the run of the prome.yml playbook file. The installation of prometheus on the ubuntu host/workstation is successful but the installation of prometheus for the centOS is unsuccessful.**

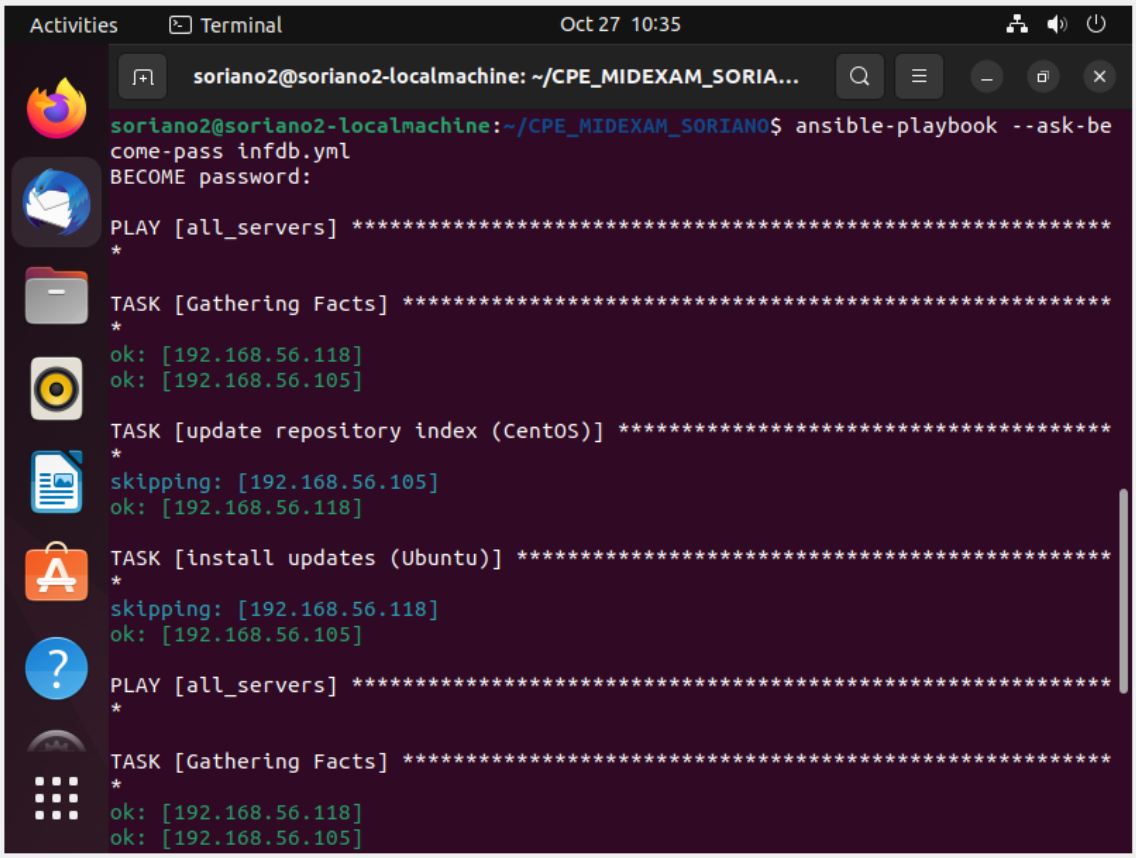


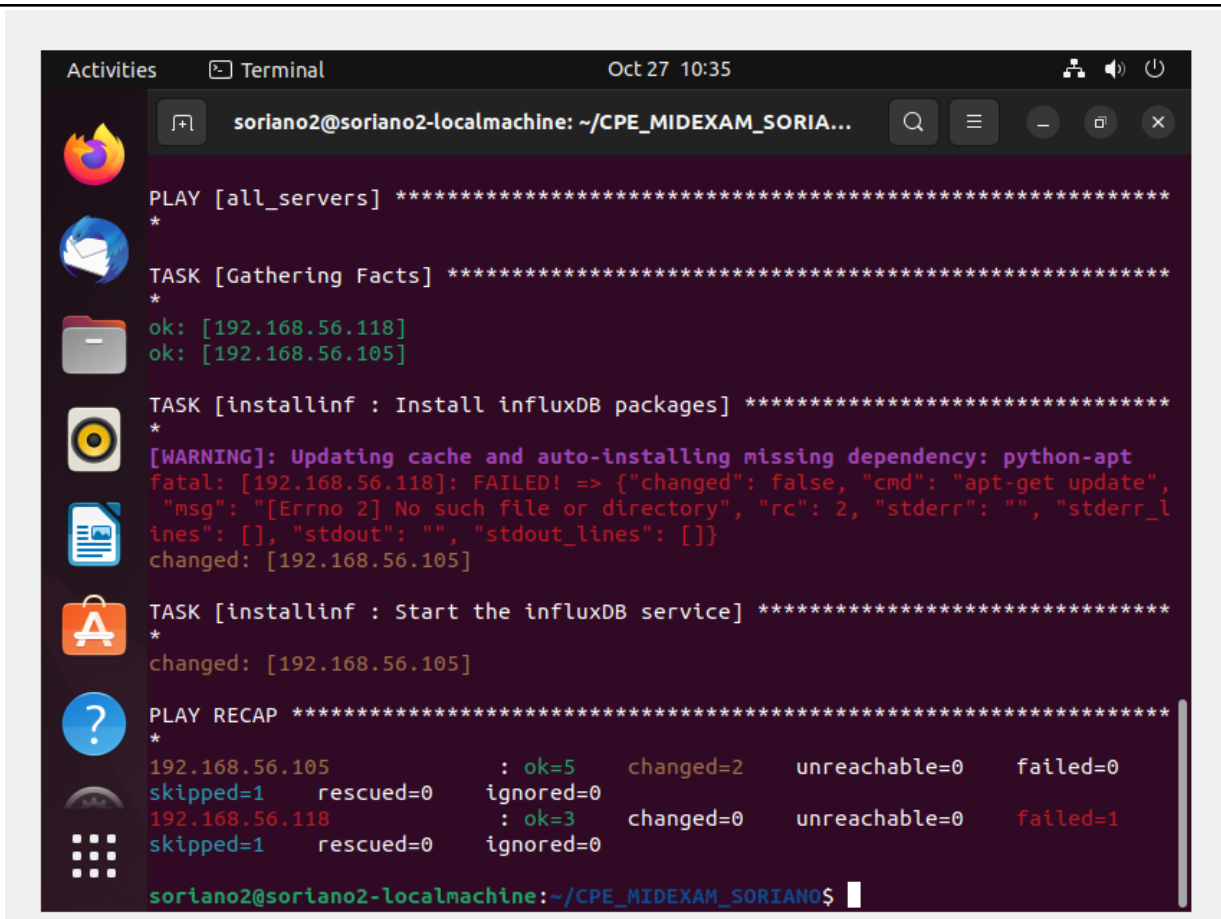
- **This shows the re-run of the playbook file named prome.yml, this time the installation of prometheus to the centOS workstation is now successful.**


Applications
Places
Terminal
Wed 21:50
soriano2@localhost:/var/lib/snapd/snap
File Edit View Search Terminal Help
[soriano2@localhost ~]$ prometheus
bash: prometheus: command not found...
[soriano2@localhost ~]$ prometheus
bash: prometheus: command not found...
[soriano2@localhost ~]$ prometheus
bash: prometheus: command not found...
[soriano2@localhost ~]$ prometheus --version
bash: prometheus: command not found...
[soriano2@localhost ~]$ promtool --version
bash: promtool: command not found...
[soriano2@localhost ~]$ cd /var/lib/snapd/snap
[soriano2@localhost snap]$ ls
bin core20 prometheus README snapd
[soriano2@localhost snap]$
soriano2@localhost:/var/lib/snapd...
Firefox Privacy Notice — Mozilla ...

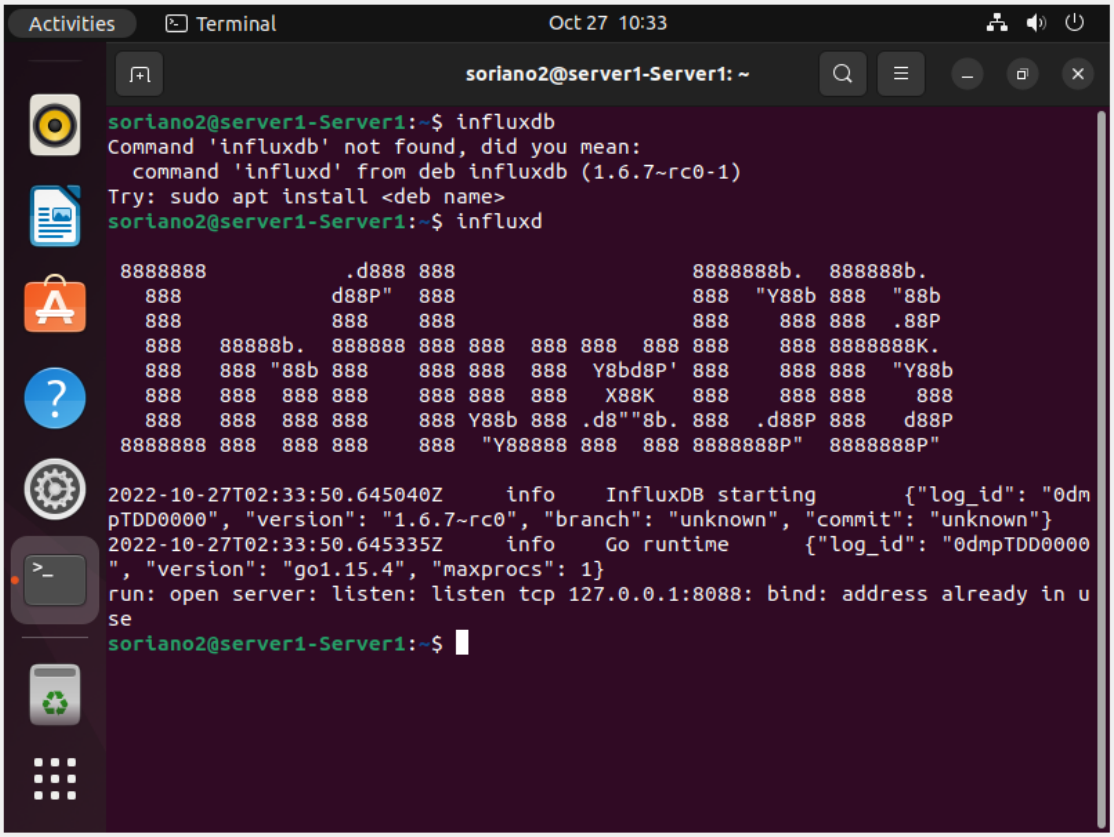


- **This shows the prometheus proof of installation on the centOS workstation.**

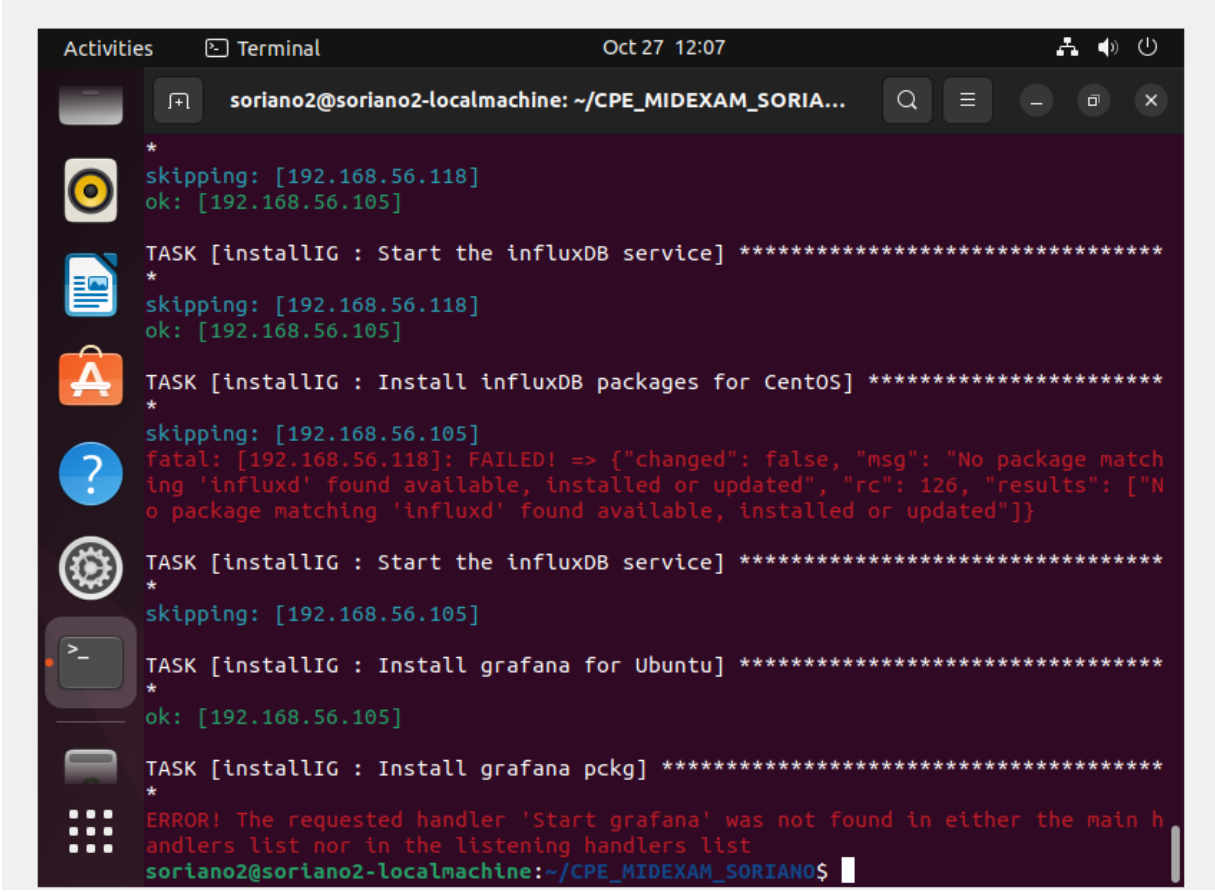

Activities
Terminal
Oct 27 10:35
soriano2@soriano2-localmachine: ~/CPE_MIDEXAM_SORIA...
soriano2@soriano2-localmachine:~/CPE_MIDEXAM_SORIANO$ ansible-playbook --ask-become-pass infdb.yml
BECOME password:
PLAY [all_servers] ***
TASK [Gathering Facts] ***
ok: [192.168.56.118]
ok: [192.168.56.105]
TASK [update repository index (CentOS)] **************************************
skipping: [192.168.56.105]
ok: [192.168.56.118]
TASK [install updates (Ubuntu)] **
skipping: [192.168.56.118]
ok: [192.168.56.105]
PLAY [all_servers] ***
TASK [Gathering Facts] ***
ok: [192.168.56.118]
ok: [192.168.56.105]



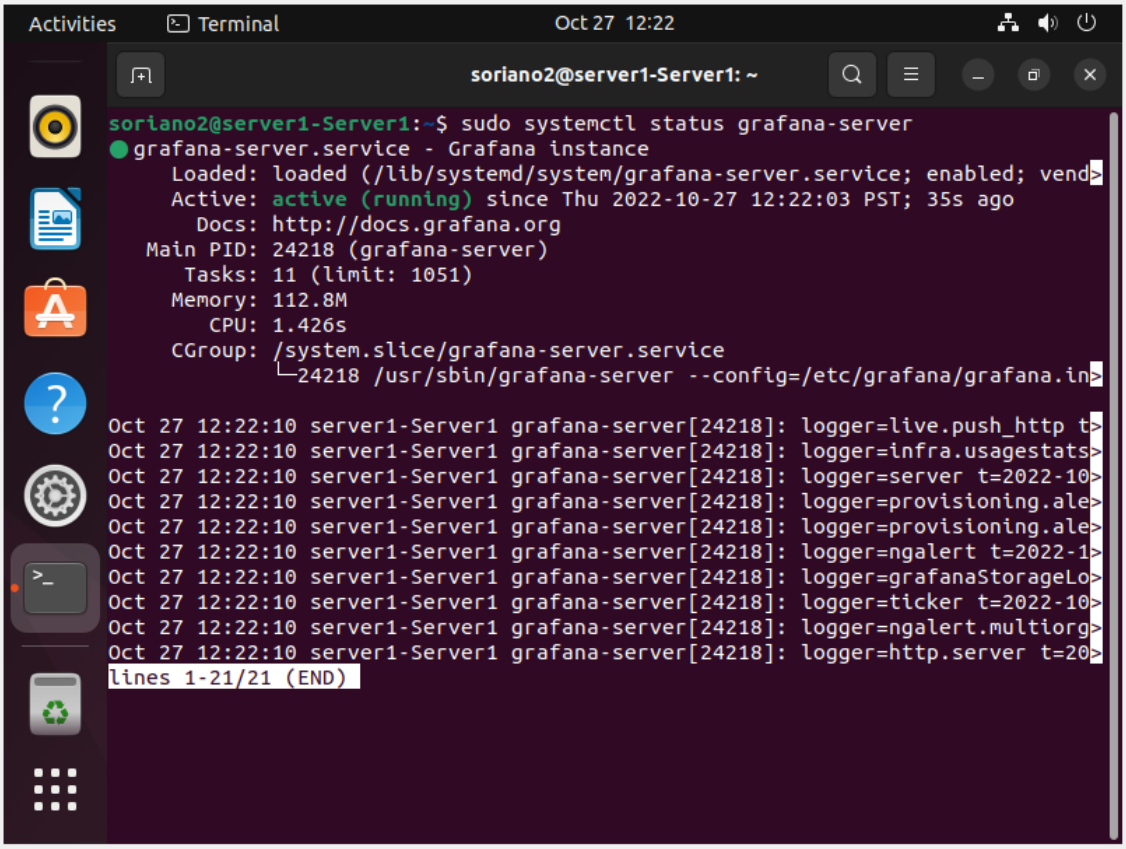
- **This shows the run of the infdb.yml playbook file to install influxDB on both ubuntu and centOS workstations. But there has been an error encountered on the installation process for the centOS workstation.**



- **This is the proof that the influxDB packages have been successfully installed on the ubuntu workstation.**



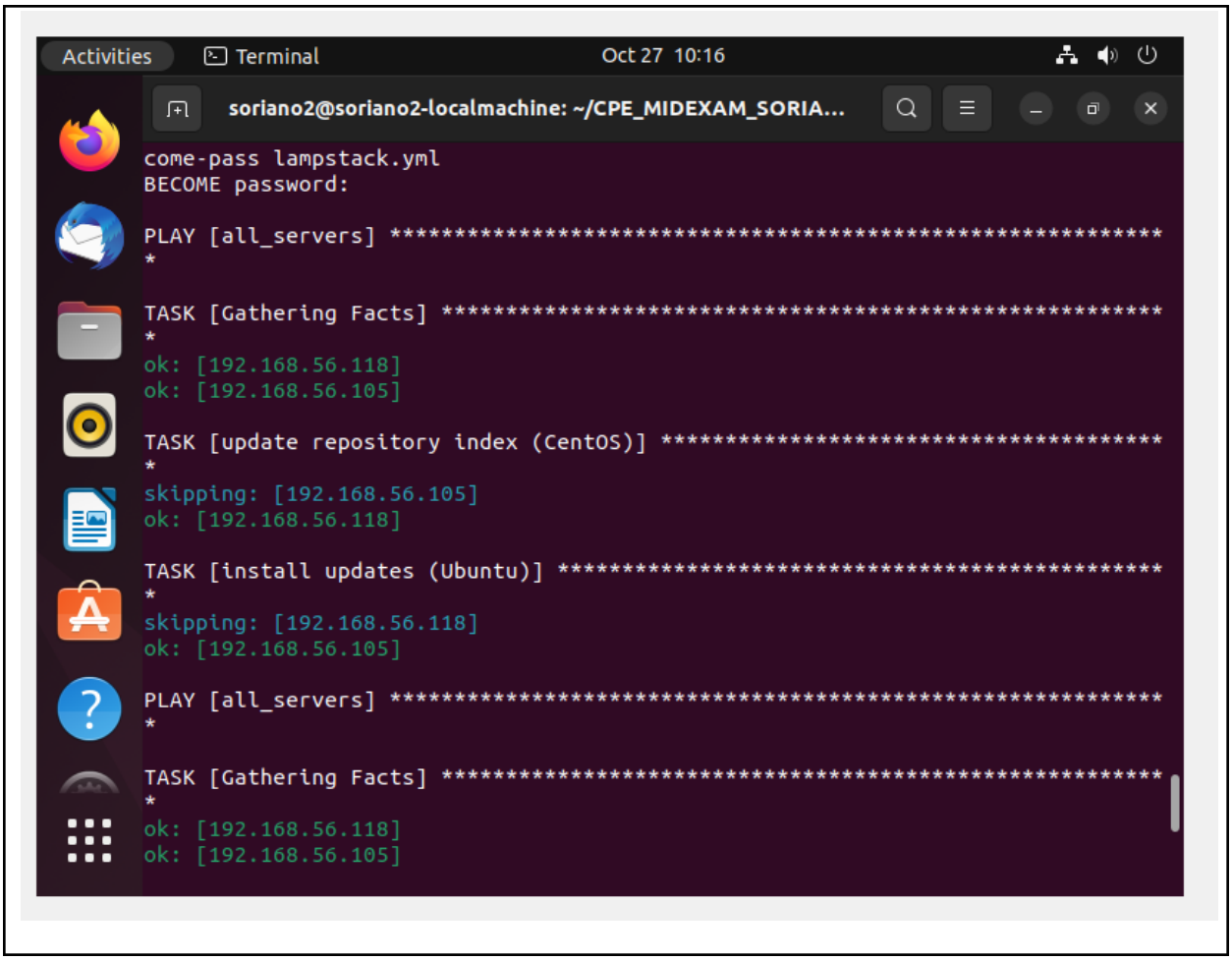
- **This shows the successful installation of influxfb and grafana on the workstations.**

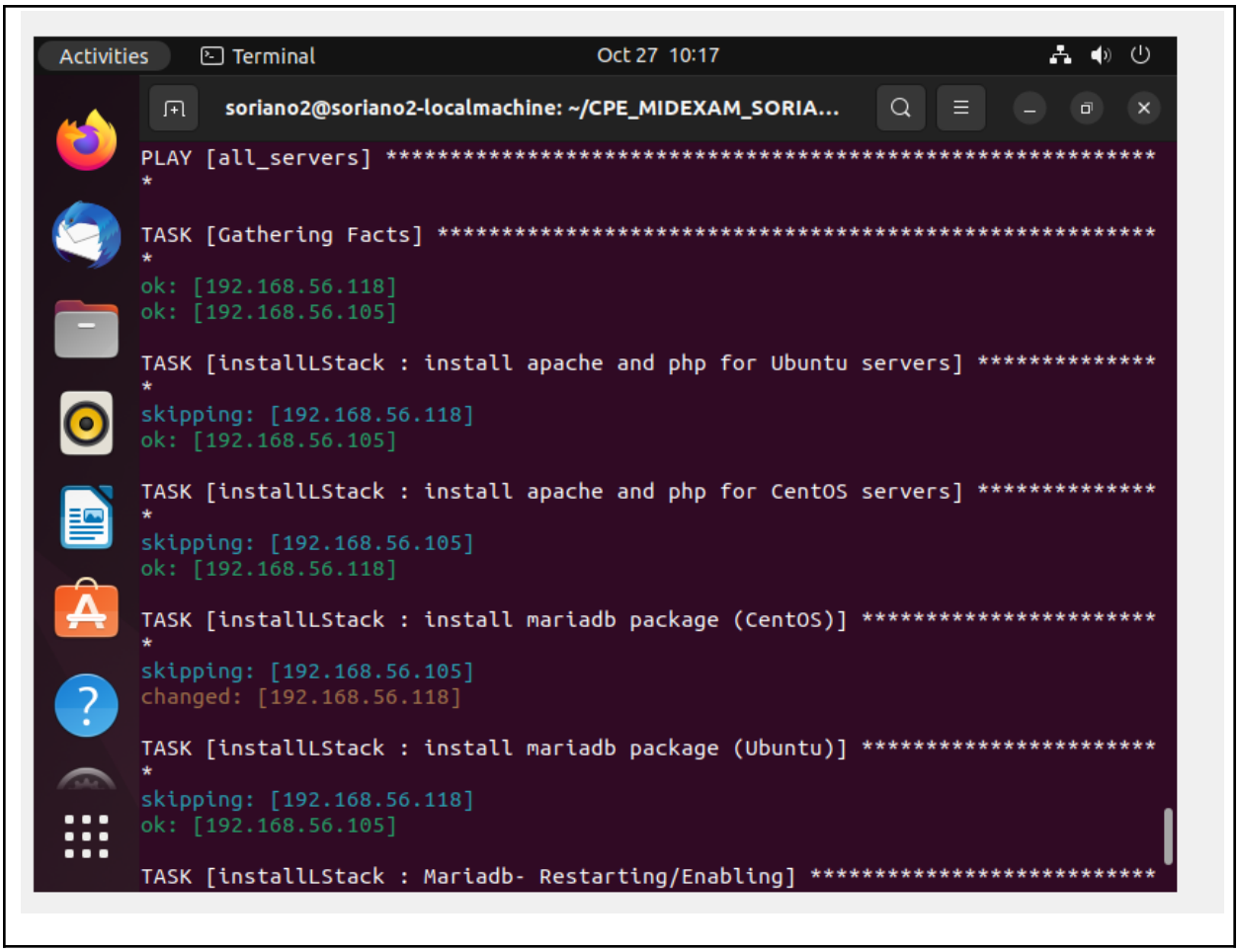


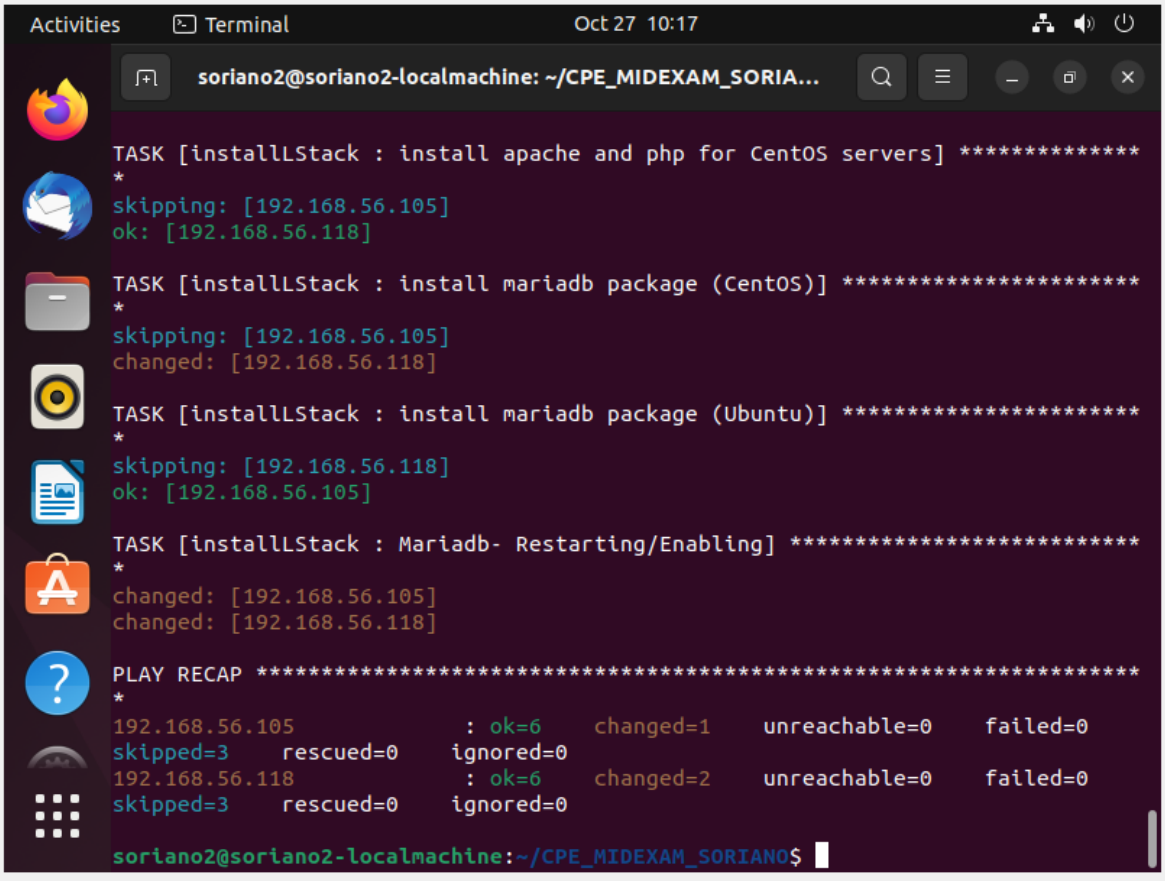
- **This serves as the proof of installation of grafana on the workstations.**

!2.4 SCREENSHOTS/PROOFS:

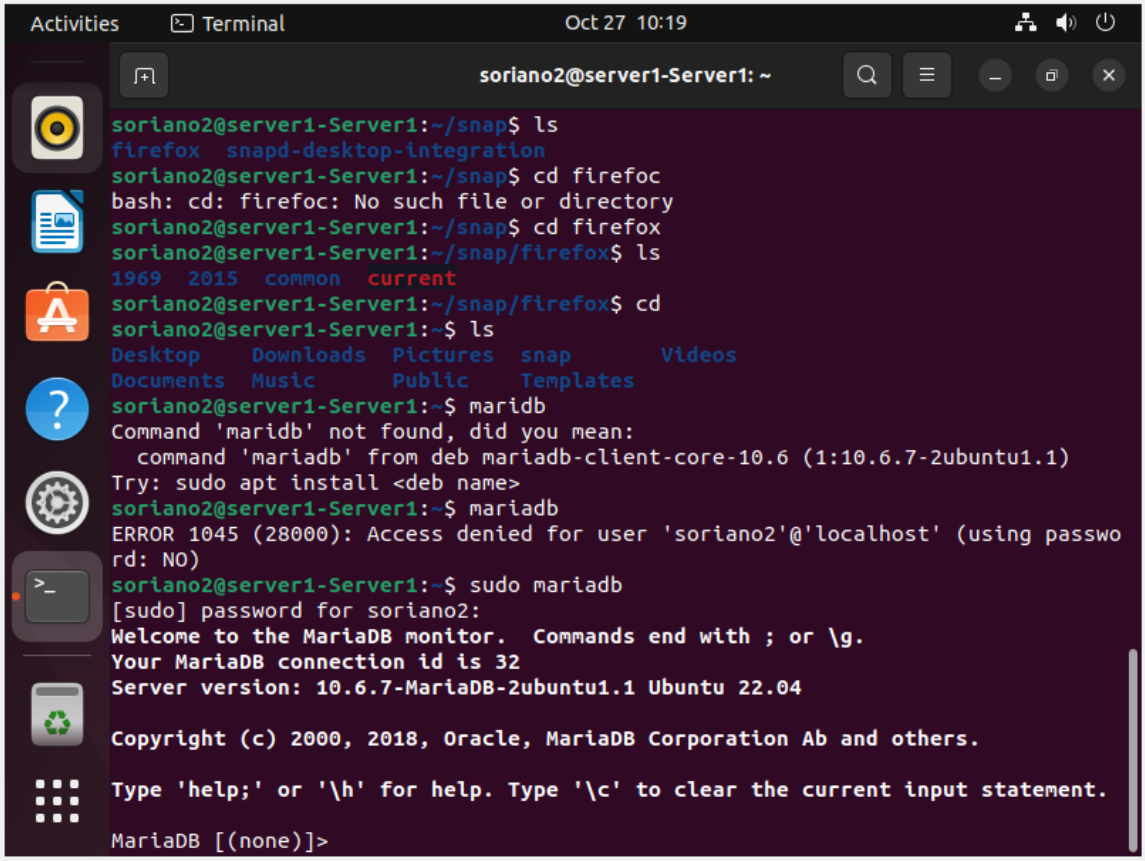
SCREENSHOTS:


Activities
Terminal
Oct 27 10:16
soriano2@soriano2-localmachine: ~/CPE_MIDEXAM_SORIA...
come-pass lampstack.yml
BECOME password:
PLAY [all_servers] ***
*
TASK [Gathering Facts] ***
*
ok: [192.168.56.118]
ok: [192.168.56.105]
TASK [update repository index (CentOS)] **************************************
*
skipping: [192.168.56.105]
ok: [192.168.56.118]
TASK [install updates (Ubuntu)] **
*
skipping: [192.168.56.118]
ok: [192.168.56.105]
PLAY [all_servers] ***
*
TASK [Gathering Facts] ***
*
ok: [192.168.56.118]
ok: [192.168.56.105]

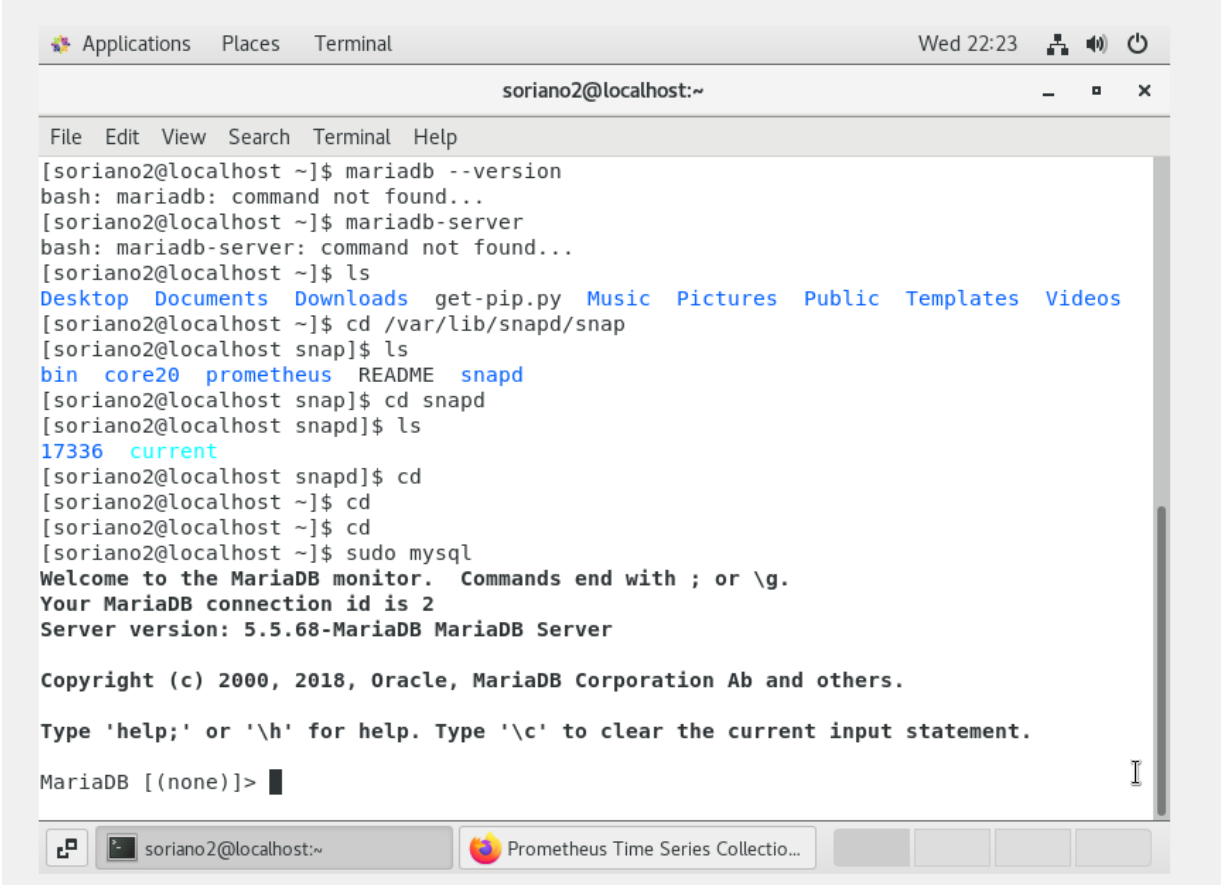

Activities
Terminal
Oct 27 10:17
soriano2@soriano2-localmachine: ~/CPE_MIDEXAM_SORIA...
PLAY [all_servers] **
*
TASK [Gathering Facts] **
*
ok: [192.168.56.118]
ok: [192.168.56.105]
TASK [installLStack : install apache and php for Ubuntu servers] **************
*
skipping: [192.168.56.118]
ok: [192.168.56.105]
TASK [installLStack : install apache and php for CentOS servers] **************
*
skipping: [192.168.56.105]
ok: [192.168.56.118]
TASK [installLStack : install mariadb package (CentOS)] ***********************
*
skipping: [192.168.56.105]
changed: [192.168.56.118]
TASK [installLStack : install mariadb package (Ubuntu)] ***********************
*
skipping: [192.168.56.118]
ok: [192.168.56.105]
TASK [installLStack : Mariadb- Restarting/Enabling] ***************************



- **This shows the successful run of the lampstack.yml playbook file. As seen above, no errors occurred because the error has been resolved before running again the playbook.**



- **This is the proof that the mariadb package installation on the ubuntu workstation is successful.**



- **This is the proof that the mariadb package installation on the centOS workstation is successful.**

GitHub link:

git@github.com:qgsoriano1/CPE_MIDEXAM_SORIANO.git

Conclusions: (link your conclusion from the objective)

There are a lot of errors and unforeseen stuff while performing this examination. All of the requirements are quite achieved, which has proofs pasted above. The use of roles is also implemented in this exam and proofs can also be found above. The workflow is also achieved within this exam because the workflow of how the playbooks task's will be executed accordingly, because the playbook won't work fine if the workflow of the playbooks are not arranged properly. By this being said, I believe that all of the requirements here are achieved and performed.

Faculty Eval Part 2 SCREENSHOT:

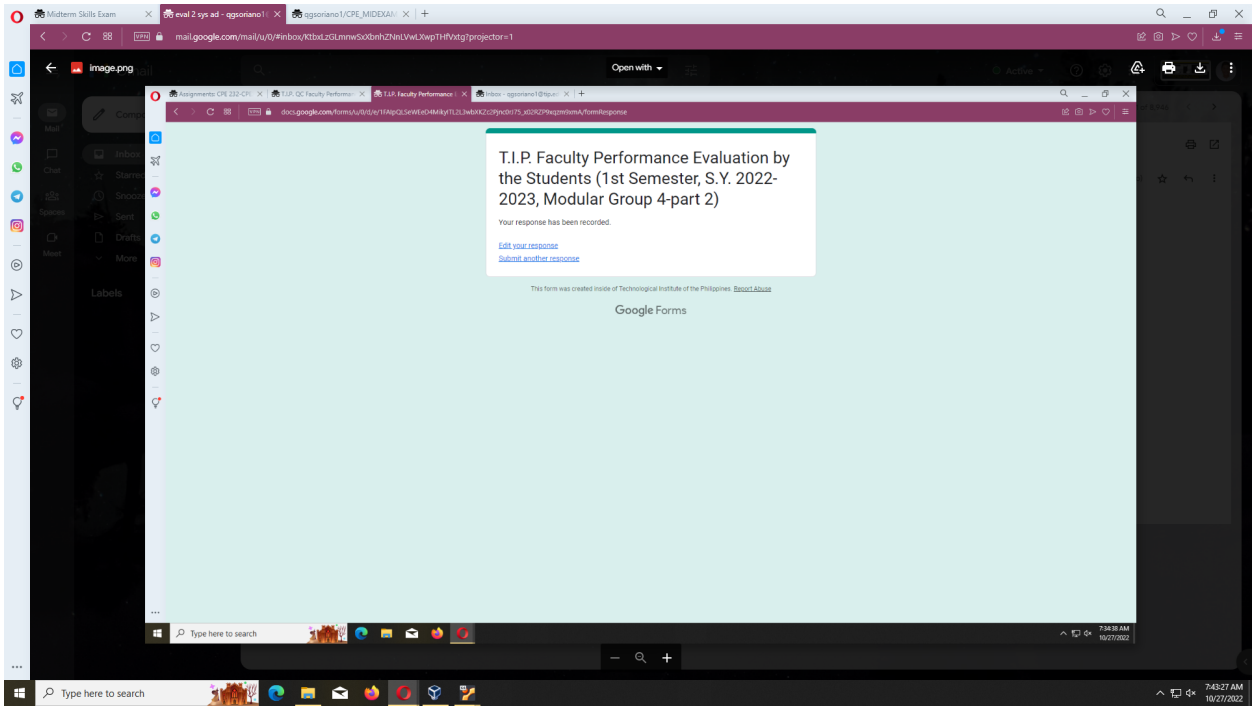


image.png
Open with
T.I.P. Faculty Performance Evaluation by the Students (1st Semester, S.Y. 2022-2023, Modular Group 4-part 2)
Your response has been recorded.
Edit your response
Submit another response
This form was created inside of Technological Institute of the Philippines. Report Abuse
Google Forms
Type here to search
7:43:27 AM
10/27/2022