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Course/Section: CPE212 CPE31S2	**Date Submitted:10/10/25**
Instructor: Engr. Robin Valenzuela	**Semester and SY: 1st sem 2025-26**

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

1. Objectives

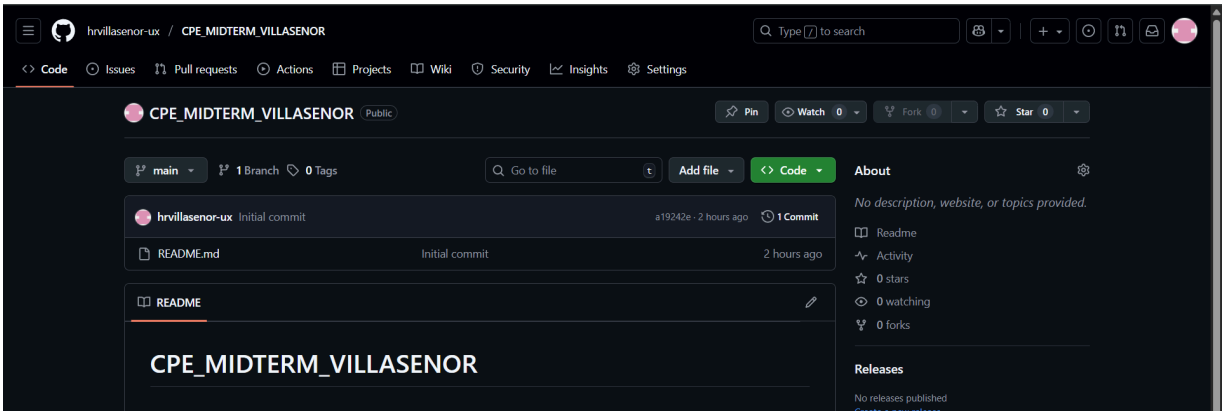
Create and design a workflow that installs, configure and manage enterprise availability, performance and log monitoring tools using Ansible as an Infrastructure as Code (IaC) tool.

2. Instructions

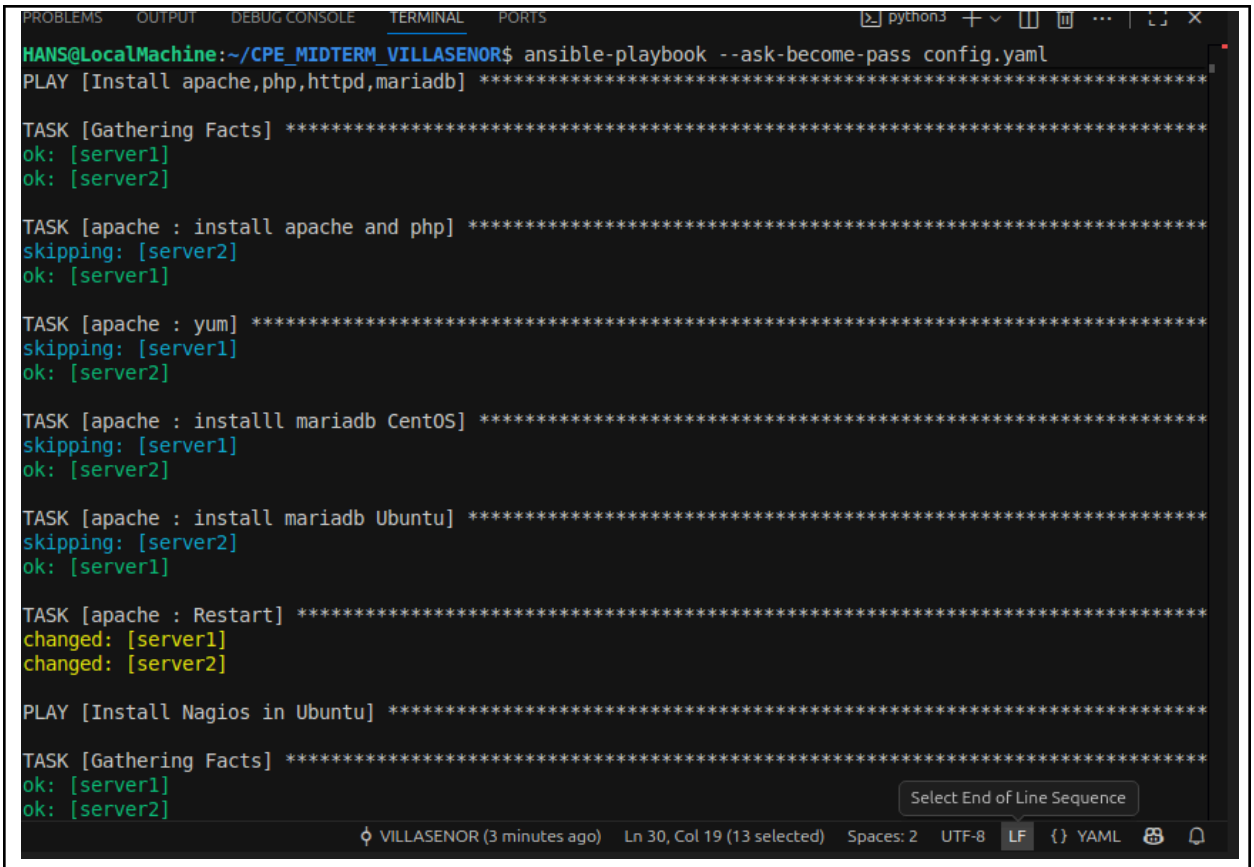
1. Create a repository in your GitHub account and label it CPE_MIDEXAM_SURNAME.
2. Clone the repository and do the following:
   2.1. Create an Ansible playbook that does the following with an input of a config.yaml file and arranged Inventory file:
   2.2. Install and configure Elastic Stack in separate 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)
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)

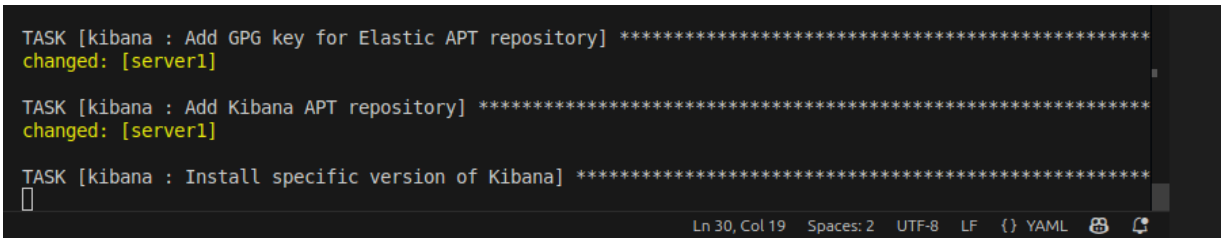
creating repository



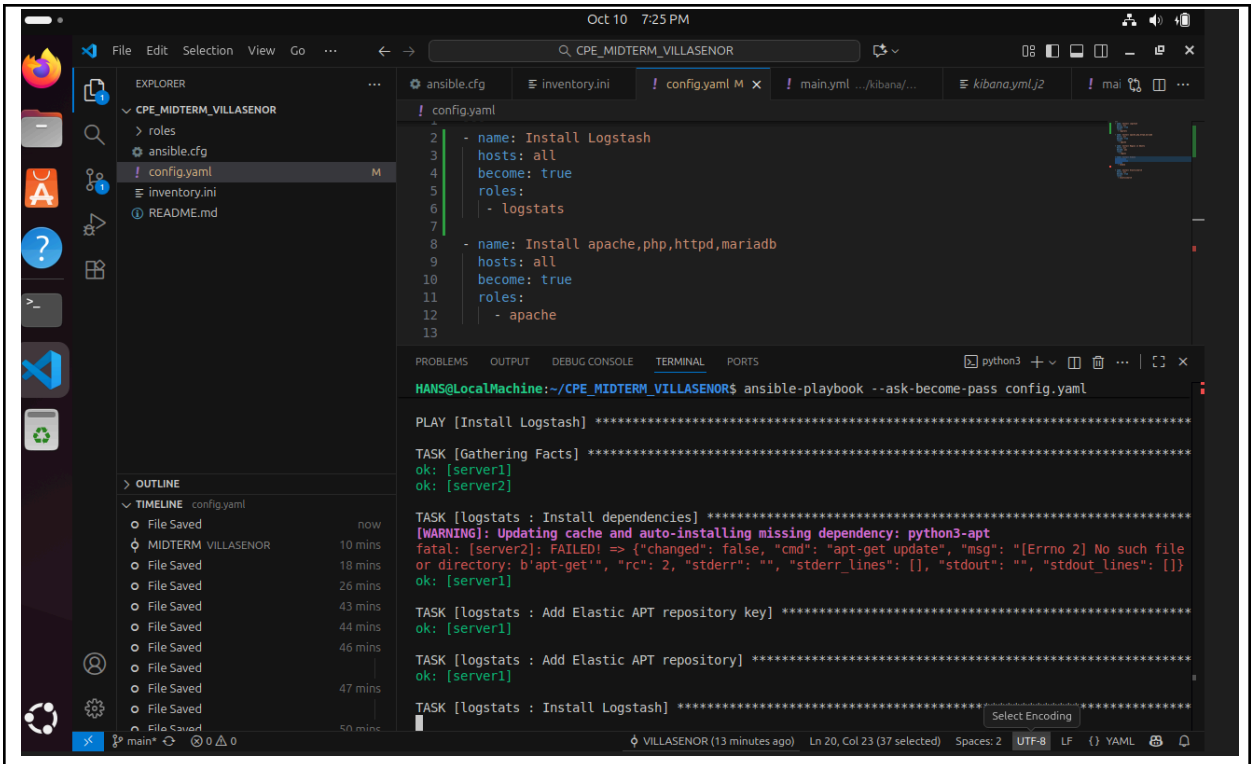
Apache,Httpd,php,mariadb



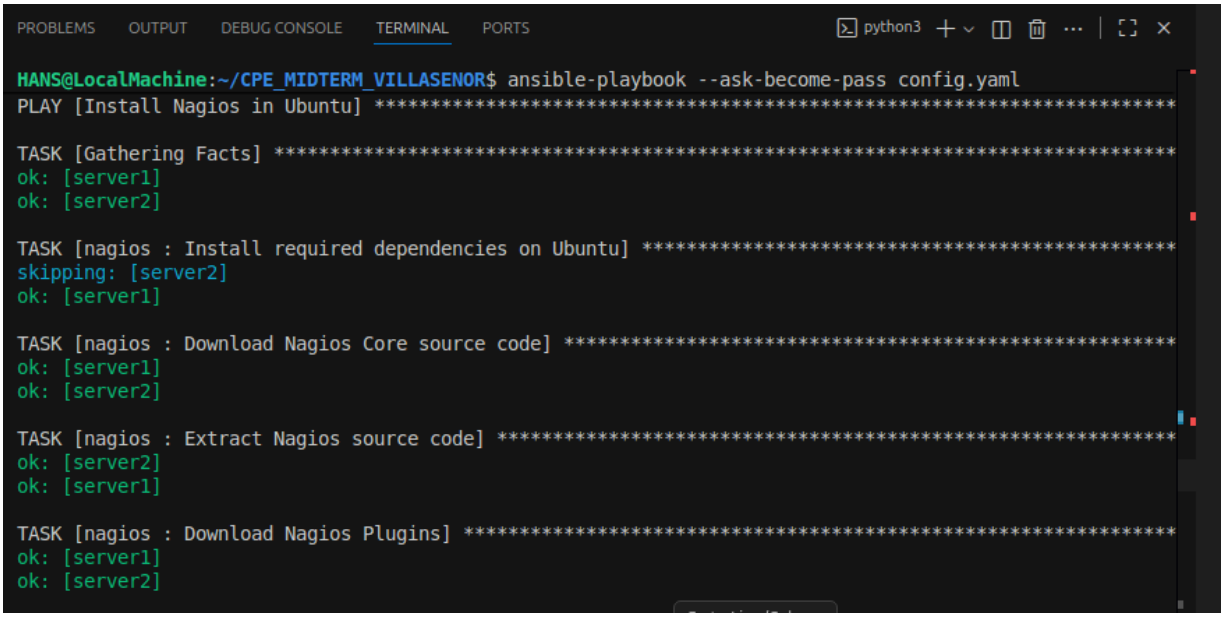
Kibana



Logstash



Nagios



GitHub link:

https://github.com/hrvillasenor-ux/CPE_MIDTERM_VILLASENOR.git

Conclusions: (link your conclusion from the objective)

In doing this midterm exam you need to install all the need package and specific package to install all in elastic stack like elastic search,logstash,nagios, and kibana it all in the elastic stack but there specific package to install it in ubuntu and centOS. Because of that i didnt finish this exam due to that circumstances but atleast i ve done 3 but not the elastic search.