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Course/Section: BSCPE31S5	Date Submitted: Oct 21, 2023
Instructor: Engr. Roman Richard	Semester and SY: 1st sem 2022-2023

Activity 8: Install, Configure, and Manage Availability Monitoring tools

### 1. Objectives

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

#### 2. Discussion

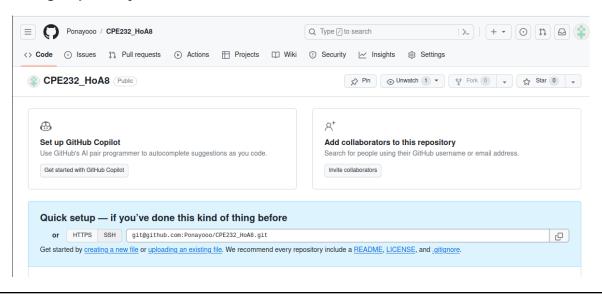
Availability monitoring is a type of monitoring tool that we use if the certain workload is up or reachable on our end. Site downtime can lead to loss of revenue, reputational damage and severe distress. Availability monitoring prevents adverse situations by checking the uptime of infrastructure components such as servers and apps and notifying the webmaster of problems before they impact on business.

#### 3. Tasks

- 1. Create a playbook that installs Nagios in both Ubuntu and CentOS. Apply the concept of creating roles.
- Describe how you did step 1. (Provide screenshots and explanations in your report. Make your report detailed such that it will look like a manual.)
- 3. Show an output of the installed Nagios for both Ubuntu and CentOS.
- 4. Make sure to create a new repository in GitHub for this activity.

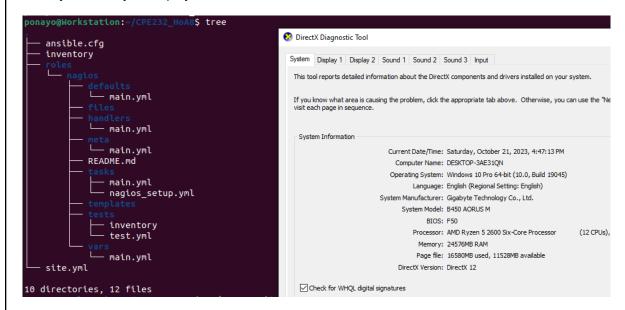
# 4. Output (screenshots and explanations)

# **Creating Repository:**



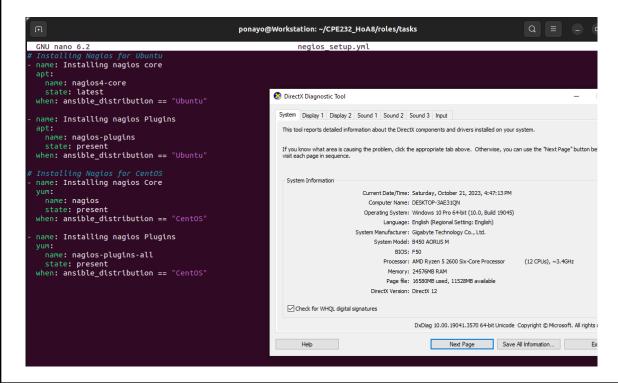
### **Creating directories**

On this step, I am creating directories using galaxy command and by using this command will create automatic directories such as defaults, files, handlers, and etc. And also, i also create ansible.cfg, inventory, and site,yml for playbook.



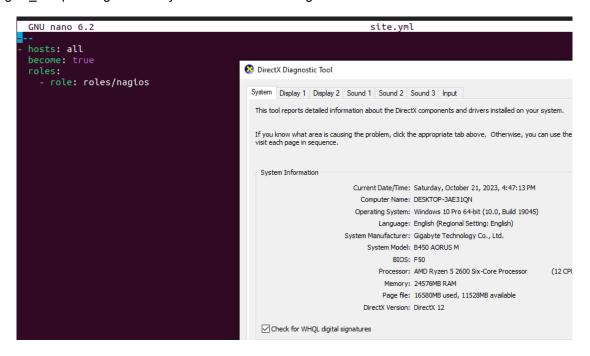
## **Setting up Installation for Nagios:**

On this step, I entered the nagios\_setup.yml file inside of the tasks directory. And setting up the installation commands of nation in both ubuntu and centos.



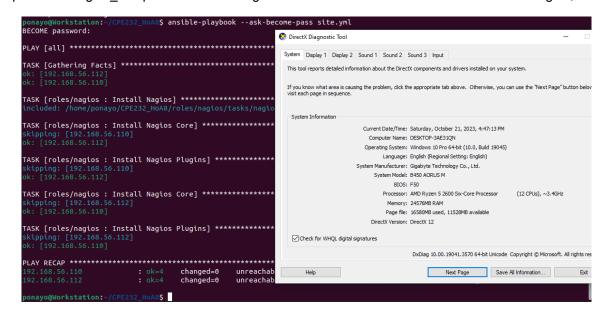
### Calling the nagios\_setup.

On this step, after setting up the installation commands in nagios\_setup. Now im calling the nagios\_setup through the site.yml and that is roles/nagios.



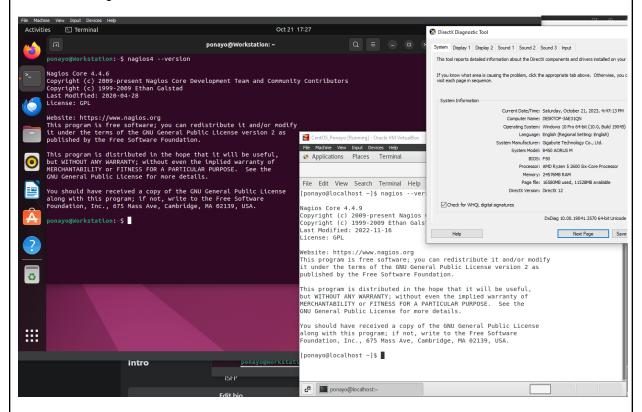
### Running the playbook

On this step, I use the ansible-playbook –ask-become-pass site.yml to execute the commands that I input in the nagios\_setup. And after running the command. It was successful installed the nagios,



### **Output:**

On this step, I issued the nagios4 –version in ubuntu and nagios –version to check if I successfully installed the nagios.



#### Reflections:

Answer the following:

- 1. What are the benefits of having an availability monitoring tool?
  - The benefits of having an availability monitoring tool. First, it increases uptime and reliability, Availability monitoring can help us to identify and resolve potential issues before they cause outages this can lead to increase uptime and reliability for our critical systems and applications.

### **Conclusions:**

In conclusion, there are several benefits to using Ansible as Infrastructure as Code (IaC) for creating an organized workflow for installing, configuring, and administering enterprises monitoring solutions. Using this approach allows enterprises to improve productivity, system scalability, monitoring infrastructure consistency, and ultimately proactive management and maintenance of their computer systems. This methodology's intrinsic automation and repeatability eliminate human error, conserve time and resources, and increase the overall effectiveness and dependability of an organization's monitoring solutions. Leveraging Ansible as IaC for this purpose demonstrates to be a powerful technique that allows enterprises to stay ahead in an ever-evolving technical field, where reliable monitoring is crucial for business achievement.