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Course/Section: CPE31S5	Date Submitted: 10/20/23
Instructor: Engr Roman Richard	Semester and SY: 2023-2024
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.

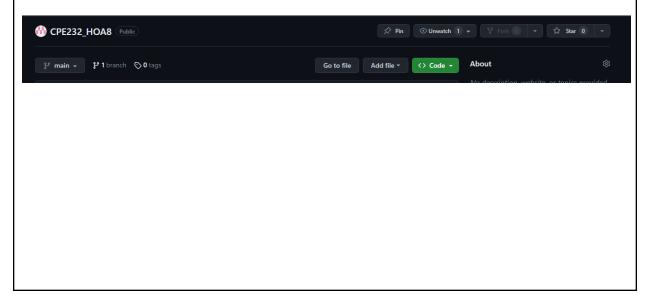
2. Discussion

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.

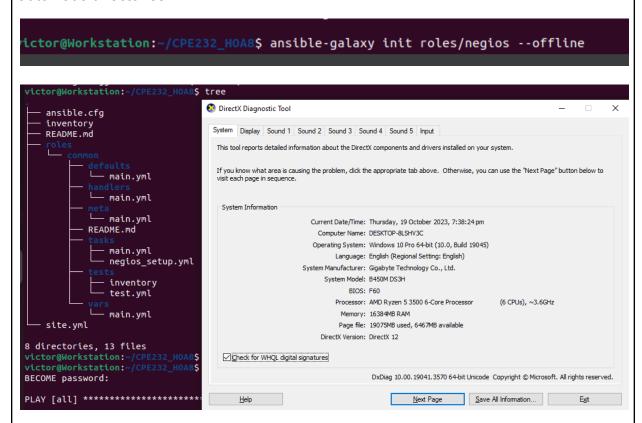
3. Tasks

- 1. Create a playbook that installs Nagios in both Ubuntu and CentOS. Apply the concept of creating roles.
- 2. 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)

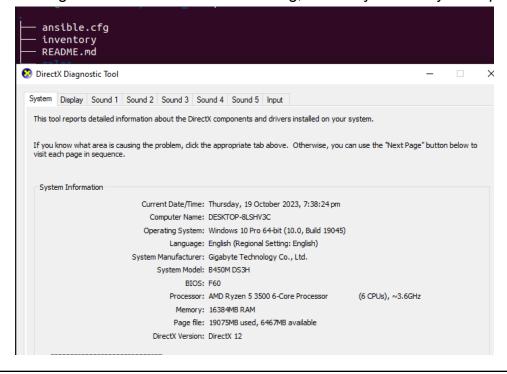
Creating repository:



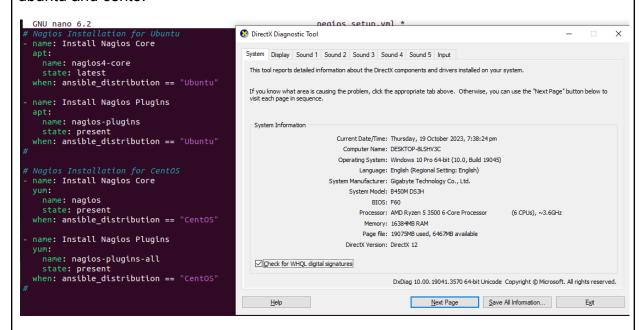
Step 1: Creating directories, using galaxy command. This command will create automatic directories.



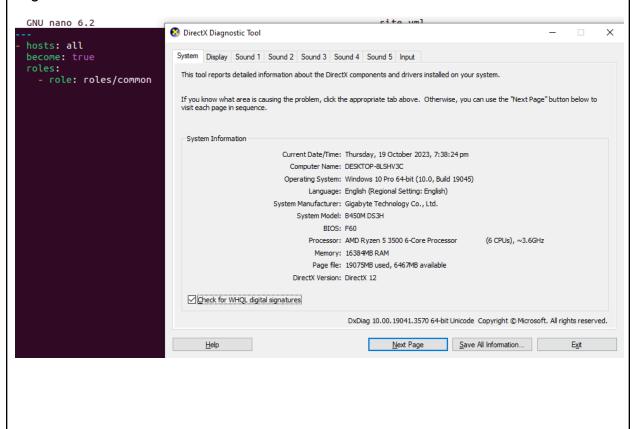
Step 2: Creating defaults files such as ansibe.cfg, inventory and site.yml for playbook.

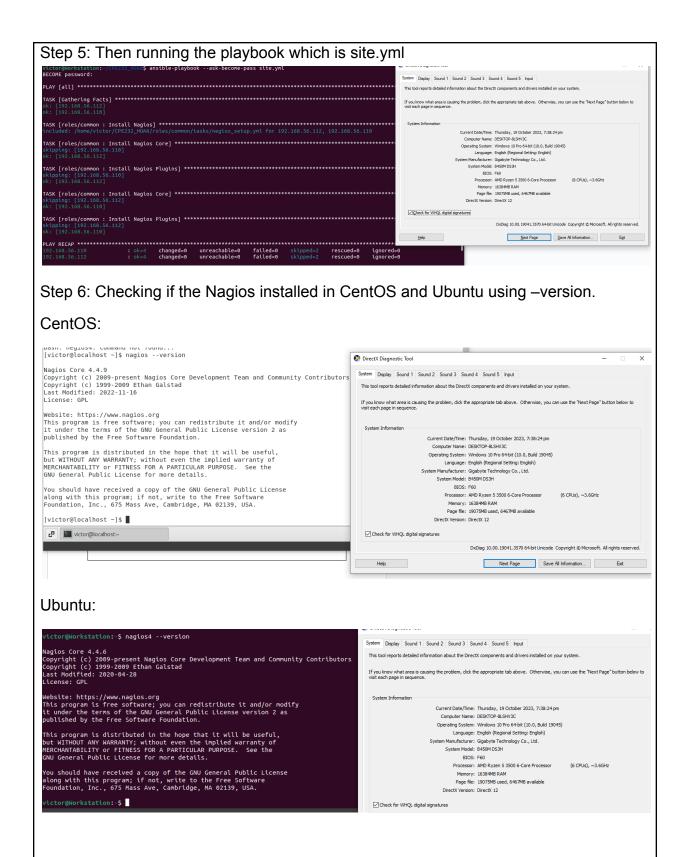


Step 3: Creating negios_setup, and adding installation command of nagios both ubuntu and cento.



Step 4: After creating the installation, calling the negios_setup in the site.yml which is nagios/common





Reflections:

Answer the following:

1. What are the benefits of having an availability monitoring tool?

An availability monitoring tool integrated into a playbook can empower proactive issue detection, minimize downtime by addressing potential problems before they impact users, facilitate automated remediation, and contribute to the overall reliability of the system.

Conclusions:

Therefore, using Ansible playbooks with roles to install Ansible on CentOS and Ubuntu automates the deployment process, making it more efficient and organized. It also improves maintainability and ensures consistency across different operating systems.