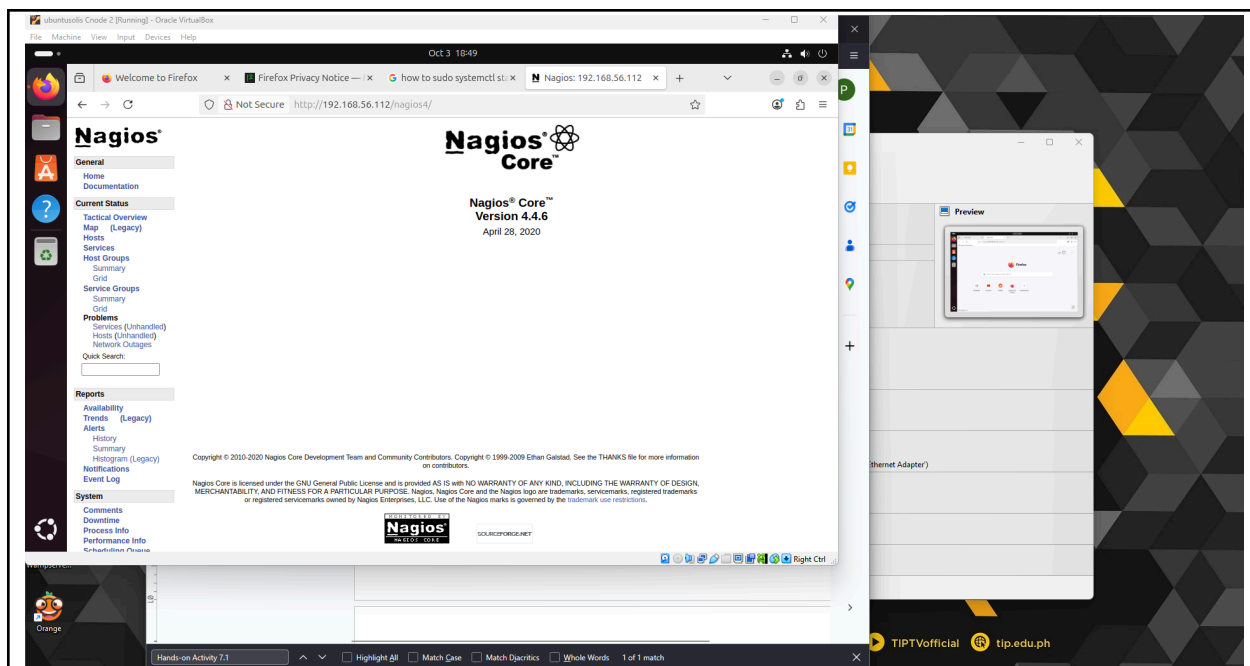
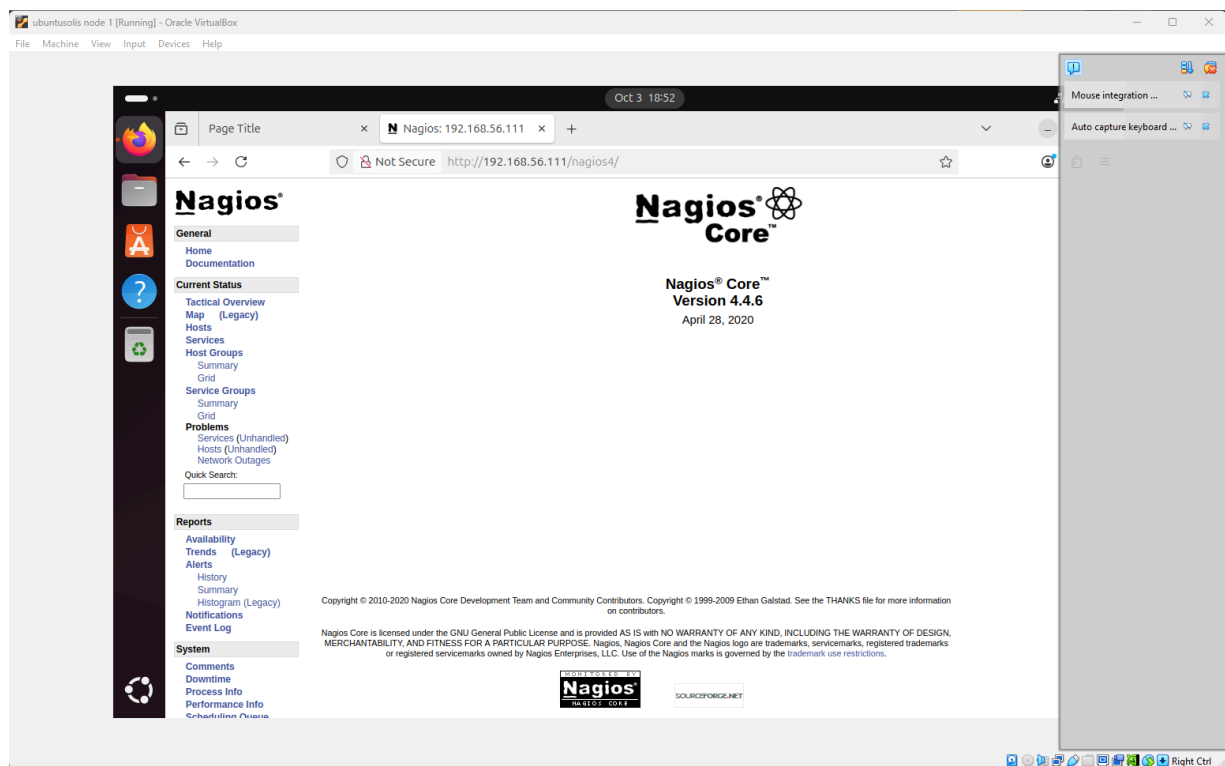


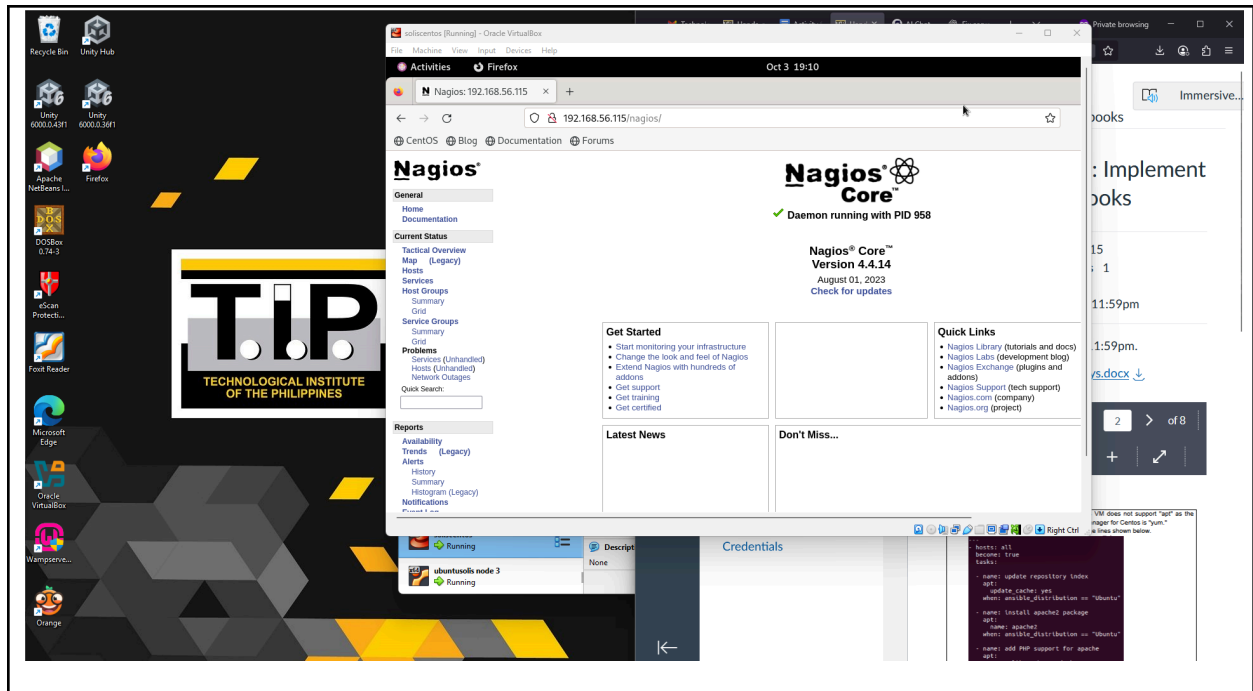
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<b>Course/Section: CPE212 - CPE31S2</b>	<b>Date Submitted:10/3/25</b>
<b>Instructor: Engr. Robin Valenzuela</b>	<b>Semester and SY: 1st Sem 25-26</b>
<b>Activity 8: Install, Configure, and Manage Availability Monitoring tools</b>	
<b>1. Objectives</b>	
Create and design a workflow that installs, configure and manage enterprise monitoring tools using Ansible as an Infrastructure as Code (IaC) tool.	
<b>2. Discussion</b>	
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.	
<b>3. Tasks</b>	
<ol style="list-style-type: none"> <li>1. Create a playbook that installs Nagios in both Ubuntu and CentOS. Apply the concept of creating roles.</li> <li>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.)</li> <li>3. Show an output of the installed Nagios for both Ubuntu and CentOS.</li> <li>4. Make sure to create a new repository in GitHub for this activity.</li> </ol>	
<b>4. Output</b> (screenshots and explanations)	
SERVER 1	



## SERVER2



## CENTOS



```
paul@paul-VirtualBox: ~/CPE212_SOLISHOA6/hoa8/roles/nagios/tasks
GNU nano 7.2 main.yml
---
- name: Install Nagios
  tags: ubuntu
  apt:
    name: nagios4
    state: latest
    update_cache: yes
  when: ansible_distribution == "Ubuntu"

- name: Ensure Nagios is started and enabled
  service:
    name: nagios4
    state: started
    enabled: true
  when: ansible_distribution == "Ubuntu"

- name: Enable EPEL repo
  yum:
    name: epel-release
    state: present
  when: ansible_distribution == "CentOS"

- name: install nagios core and essential
  yum:
    name:
      - nagios
      - nagios-plugins
      - nagios-plugins-disk

^G Help      ^O Write Out  ^W Where Is   ^K Cut        ^T Execute    ^C Location
^X Exit      ^R Read File  ^\ Replace    ^U Paste      ^J Justify    ^_ Go To Line
```

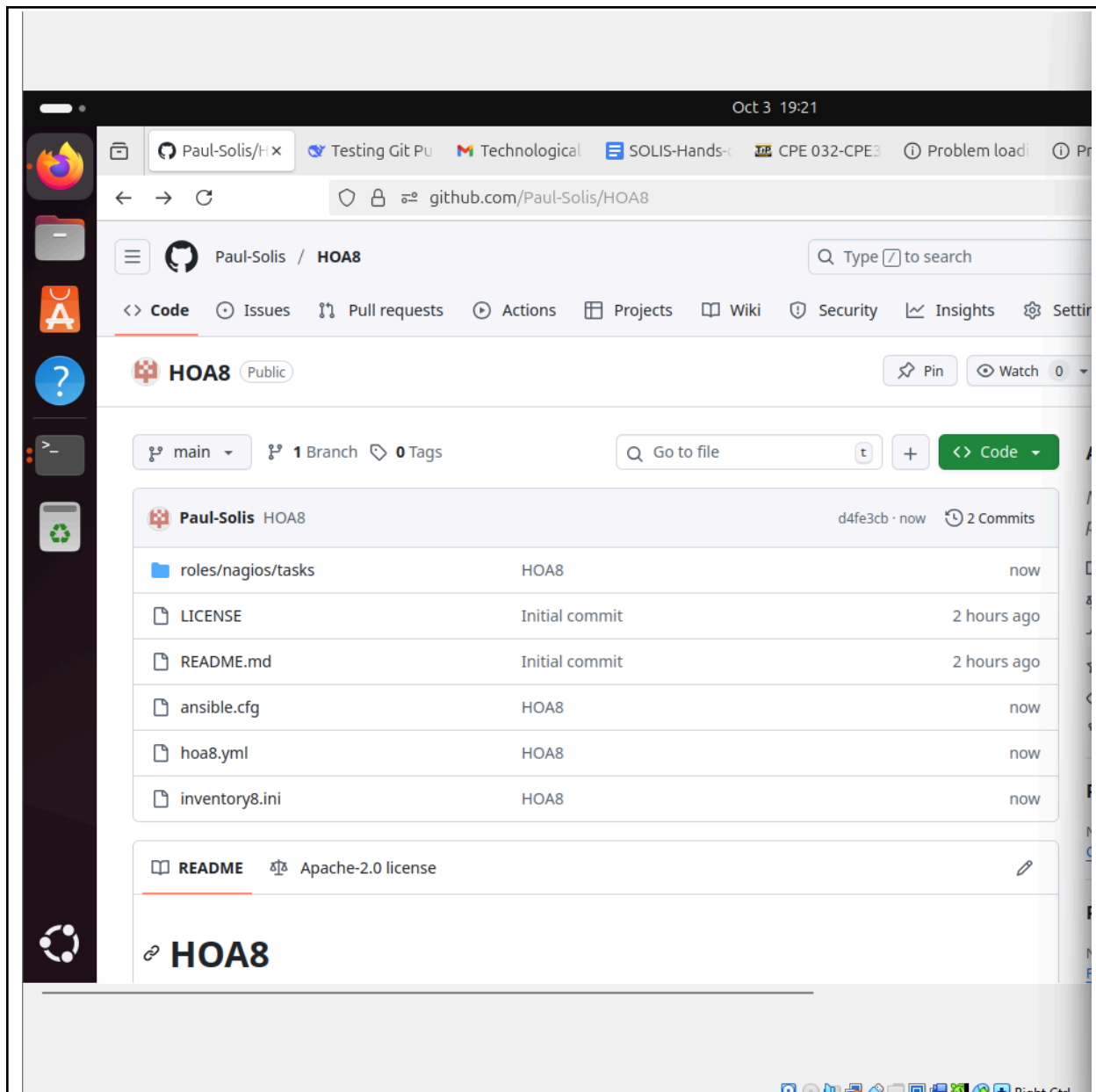
```
ubuntu1804 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

Oct 3 19:12
paul@paul-VirtualBox: ~/CPE212_SOLISHOA6/hoa8/roles/nagios/tasks
GNU nano 7.2 main.yml
  name: epel-release
  state: present
  when: ansible_distribution == "CentOS"

- name: install nagios core and essential
  yum:
    name:
      - nagios
      - nagios-plugins
      - nagios-plugins-disk
      - nagios-plugins-http
      - nagios-plugins-load
      - nagios-plugins-ping
      - nagios-plugins-procs
      - nagios-plugins-users
    state: present
  when: ansible_distribution == "CentOS"

- name: Ensure Nagios service is started and enabled
  service:
    name: nagios
    state: started
    enabled: true
  when: ansible_distribution == "CentOS"
```

In this code, i can download the nagios and centos using this code because without these plugins in



### Reflections:

Answer the following:

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

### Conclusions: