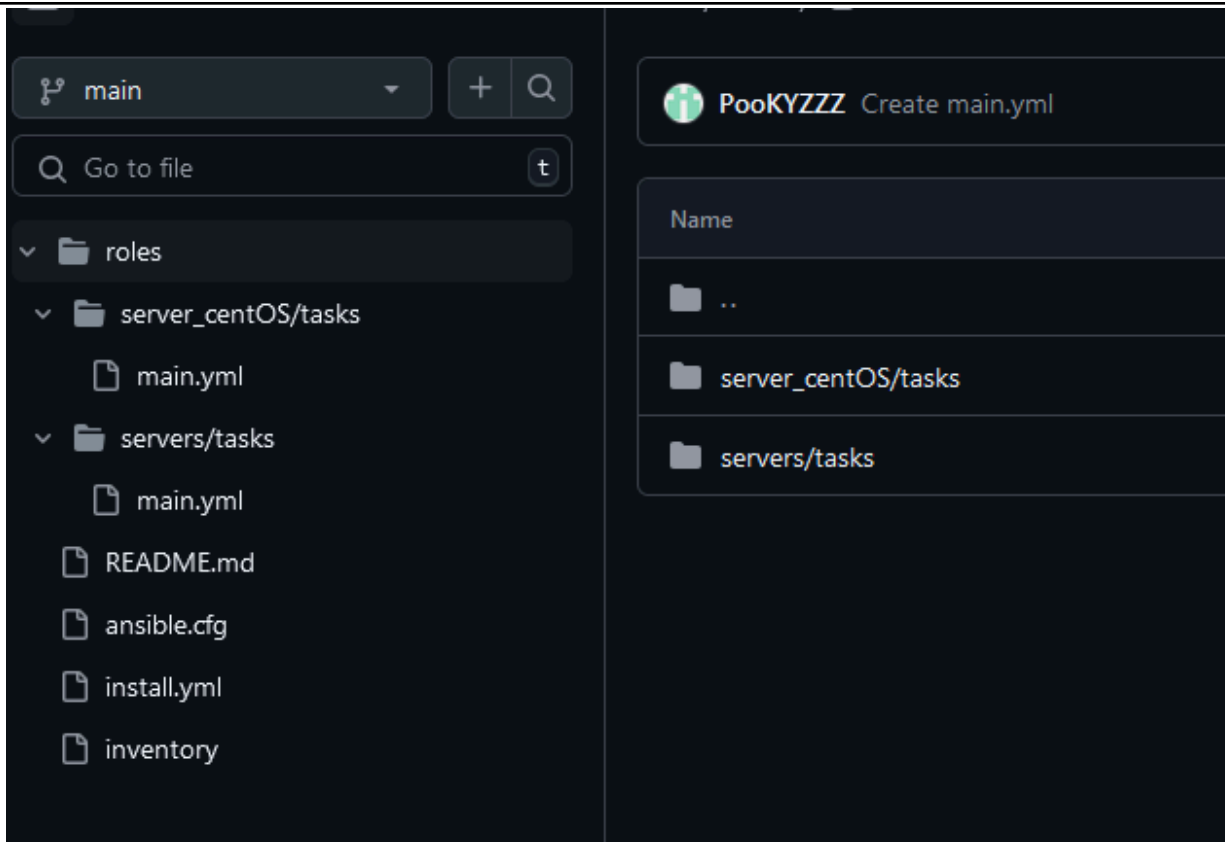


Name: Gayao, Froilan M.	Date Performed: 21/10/2024
Course/Section: CPE212-CPE31S21	Date Submitted: 21/10/2024
Instructor: Engr. Robin Valenzuela	Semester and SY: 1st Sem 2024-2025
Activity 8: Install, Configure, and Manage Availability Monitoring tools	
1. Objectives	
Create and design a workflow that 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	
<ol style="list-style-type: none"> 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)	



in here, i just copied my act 7 and modify my inventories and everything since i'm doing this at home



PooKYZZZ Create main.yml

Code

Blame

63 lines (52 loc) · 1.3 KB

```
1  - name: Install dependencies for Nagios on CentOS
2    yum:
3      name:
4        - httpd
5        - php
6        - wget
7        - gcc
8      state: present
9
10 - name: Download Nagios tarball
11   get_url:
12     url: https://assets.nagios.com/downloads/nagioscore/releases/nagios-4.4.6.tar.gz
13     dest: /tmp/nagios.tar.gz
14
15 - name: Extract Nagios tarball
16   unarchive:
17     src: /tmp/nagios.tar.gz
18     dest: /opt/
19     remote_src: yes
20
21 - name: Configure Nagios
22   command: ./configure --with-httpd-conf=/etc/httpd/conf.d/
23   args:
24     chdir: /opt/nagios-4.4.6
25
26 - name: Build Nagios
27   command: make all
28   args:
29     chdir: /opt/nagios-4.4.6
30
31 - name: Install Nagios
32   command: make install
33   args:
34     chdir: /opt/nagios-4.4.6
35
36 - name: Install Nagios init scripts
37   command: make install-init
38   args:
```

```
38     args:
39         chdir: /opt/nagios-4.4.6
40
41 - name: Install Nagios config
42     command: make install-config
43     args:
44         chdir: /opt/nagios-4.4.6
45
46 - name: Install Nagios command mode
47     command: make install-commandmode
48     args:
49         chdir: /opt/nagios-4.4.6
50
51 - name: Install Nagios web configuration
52     command: make install-webconf
53     args:
54         chdir: /opt/nagios-4.4.6
55
56 - name: Configure Nagios Admin User
57     command: htpasswd -b -c /usr/local/nagios/etc/htpasswd.users nagiosadmin password
58
59 - name: Enable and Start Apache
60     systemd:
61         name: httpd
62         enabled: yes
63         state: started
```

- this is the main task that will run for my CentOS server which will install the nagios



PooKYZZZ Create main.yml

Code

Blame

63 lines (52 loc) · 1.33 KB

```
1  - name: Install dependencies for Nagios on Ubuntu
2    apt:
3      name:
4        - apache2
5        - php
6        - libapache2-mod-php
7        - wget
8      state: present
9
10 - name: Download Nagios tarball
11   get_url:
12     url: https://assets.nagios.com/downloads/nagioscore/releases/nagios-4.4.6.tar.gz
13     dest: /tmp/nagios.tar.gz
14
15 - name: Extract Nagios tarball
16   unarchive:
17     src: /tmp/nagios.tar.gz
18     dest: /opt/
19     remote_src: yes
20
21 - name: Configure Nagios
22   command: ./configure --with-httpd-conf=/etc/apache2/sites-enabled/
23   args:
24     chdir: /opt/nagios-4.4.6
25
26 - name: Build Nagios
27   command: make all
28   args:
```

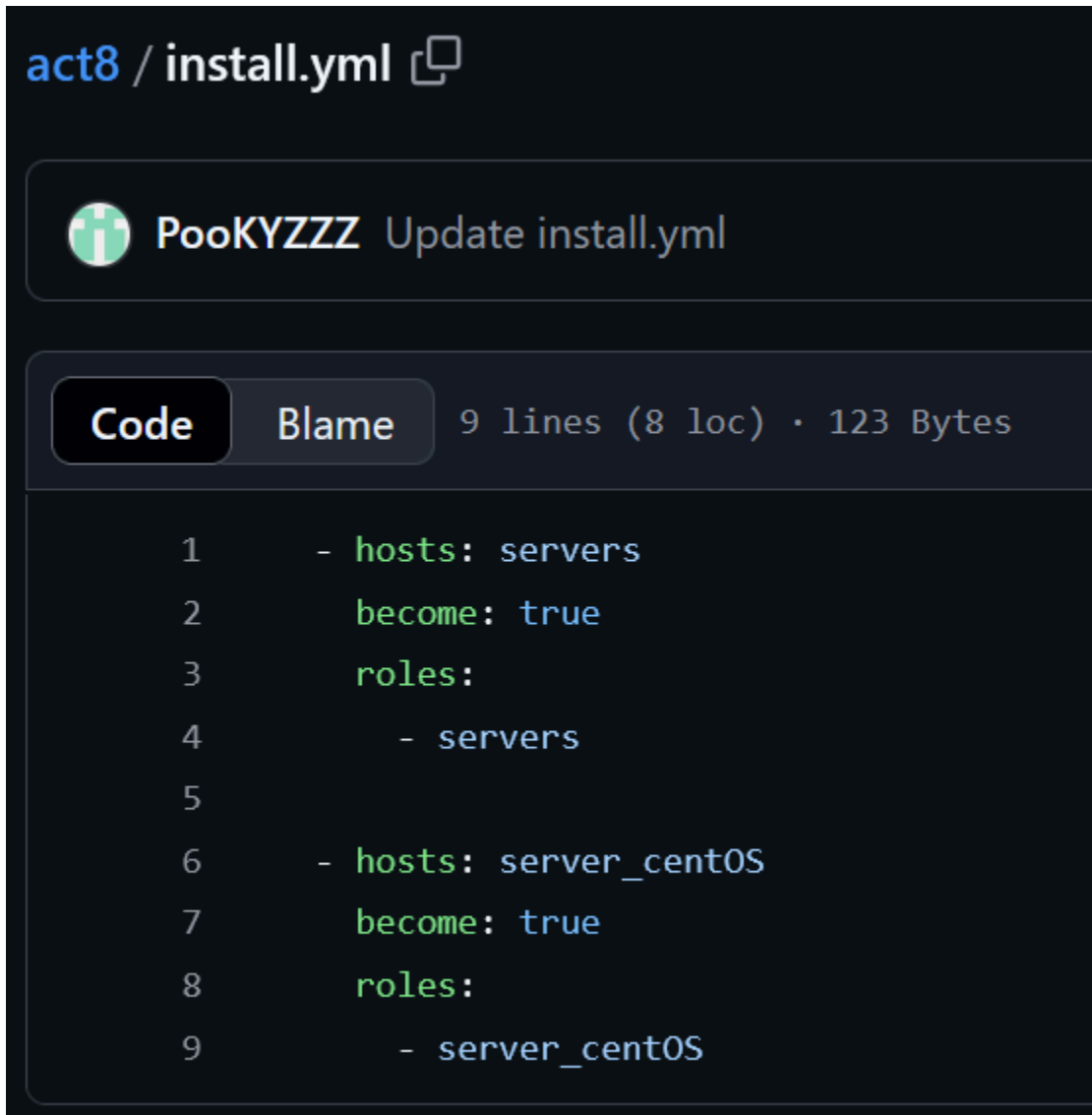
```

28     args:
29         chdir: /opt/nagios-4.4.6
30
31     - name: Install Nagios
32       command: make install
33       args:
34         chdir: /opt/nagios-4.4.6
35
36     - name: Install Nagios init scripts
37       command: make install-init
38       args:
39         chdir: /opt/nagios-4.4.6
40
41     - name: Install Nagios config
42       command: make install-config
43       args:
44         chdir: /opt/nagios-4.4.6
45
46     - name: Install Nagios command mode
47       command: make install-commandmode
48       args:
49         chdir: /opt/nagios-4.4.6
50
51     - name: Install Nagios web configuration
52       command: make install-webconf
53       args:
54         chdir: /opt/nagios-4.4.6
55
56     - name: Configure Nagios Admin User
57       command: htpasswd -b -c /usr/local/nagios/etc/htpasswd.users nagiosadmin password
58
59     - name: Enable and Start Apache
60       systemd:
61         name: apache2
62         enabled: yes
63         state: started

```

- this is the main task that will run for my all of my ubuntu server which will install the nagios

- I create a roles file to organize the code and to perform its own specific function



act8 / install.yml

PooKYZZZ Update install.yml

Code Blame 9 lines (8 loc) · 123 Bytes

```
1 - hosts: servers
2   become: true
3   roles:
4     - servers
5
6 - hosts: server_centOS
7   become: true
8   roles:
9     - server_centOS
```

- I made a new playbook which will call all roles that will perform their specific tasks I made earlier.

```

TASK [server_centOS : Configure Nagios] *****
changed: [centOS]

TASK [server_centOS : Build Nagios] *****
changed: [centOS]

TASK [server_centOS : Install Nagios] *****
changed: [centOS]

TASK [server_centOS : Install Nagios init scripts] *****
changed: [centOS]

TASK [server_centOS : Install Nagios config] *****
changed: [centOS]

TASK [server_centOS : Install Nagios command mode] *****
changed: [centOS]

TASK [server_centOS : Install Nagios web configuration] *****
changed: [centOS]

TASK [server_centOS : Configure Nagios Admin User] *****
changed: [centOS]

TASK [server_centOS : Enable and Start Apache] *****
changed: [centOS]

PLAY RECAP *****
Server1      : ok=8    changed=4    unreachable=0    failed=1    skipped=0    rescued=0    ignored=0
Server2      : ok=13   changed=8    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
centOS       : ok=13   changed=10   unreachable=0    failed=0    skipped=0    rescued=0    ignored=0

```

- I use the playbook to install Nagios on both Ubuntu and CentOS, and it calls for the codes in both files that are in roles.

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Host Groups

Summary

Grid

Service Groups

Summary

Grid

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Event Log

System

Comments

Downtime

Process Info

Performance Info

Scheduling Queue

Configuration

Nagios®

Core™

Nagios® Core™

Version 4.4.6

April 28, 2020

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Reflections:

Answer the following:

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

- Availability monitoring tools like Nagios ensure the systems are operational and accessible in which they help to prevent damage. It also provides a monitoring uptime which allows for quick identification of issues, improving overall system performance and reducing unexpected downtimes.

Conclusions:

- In this activity, I used the playbook to install and manage nagios on both my Ubuntu and CentOS. By using roles, it organized my code efficiently, making the debugging of the playbook and installation process smoother.

<https://github.com/PooKYZZZ/act8>