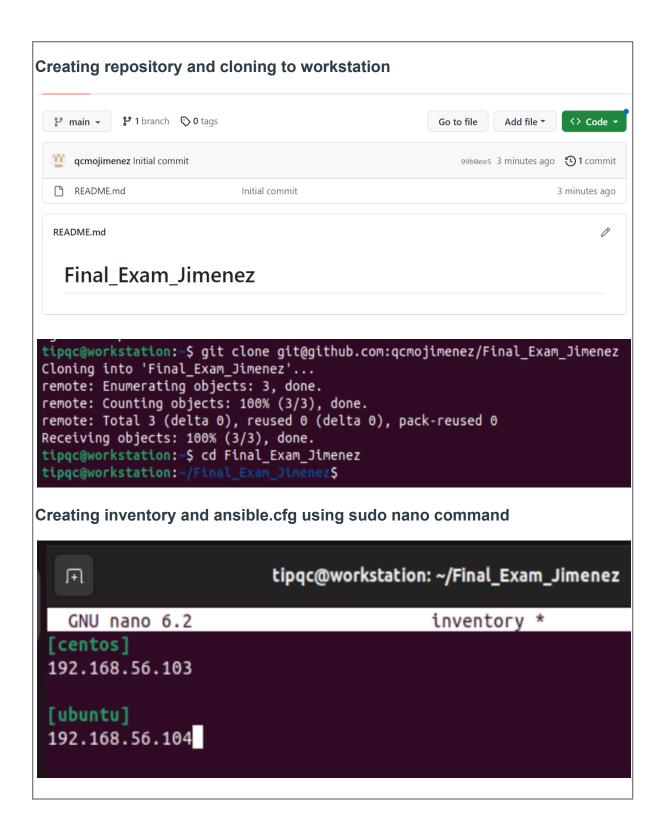
Tools Needed:

- 1. VM with Ubuntu, CentOS and Ansible installed
- 2. Web browser

Procedure:

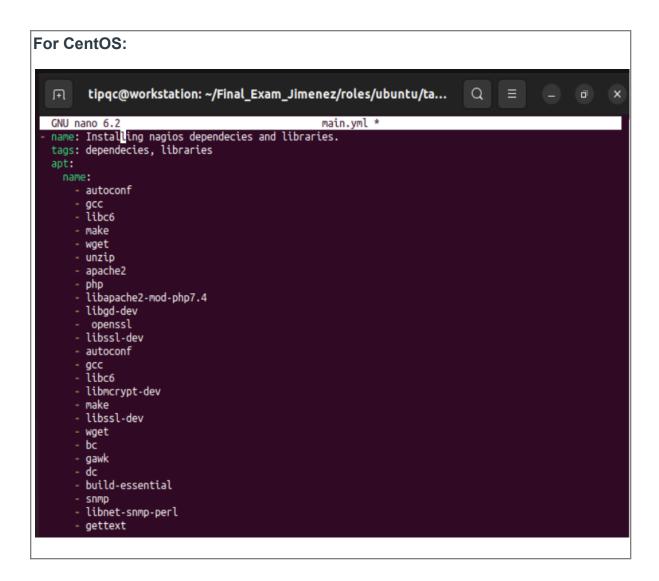
- 1. Create a repository and label it as "Final_Exam_Surname"
- 2. Clone your new repository in your VM
- 3. Create an Ansible playbook that does the following with an input of a config.yaml file and structure inventory file.
- 3.1 Install and configure one enterprise service that can be installed in Debian and Centos servers
- 3.2 Install and configure one monitoring tool that can be installed in Debian and Centos servers (if it is a stack there should be option of different host)
- 3.3 Change Motd as "Ansible Managed by <username>"
- 4. Push and commit your files in GitHub
- 5. Make sure to show evidence of input (codes) process (codes successfully running) and output (evidence of installation)
- 6. For your final exam to be counted, please paste your repository link as an answer in this exam.

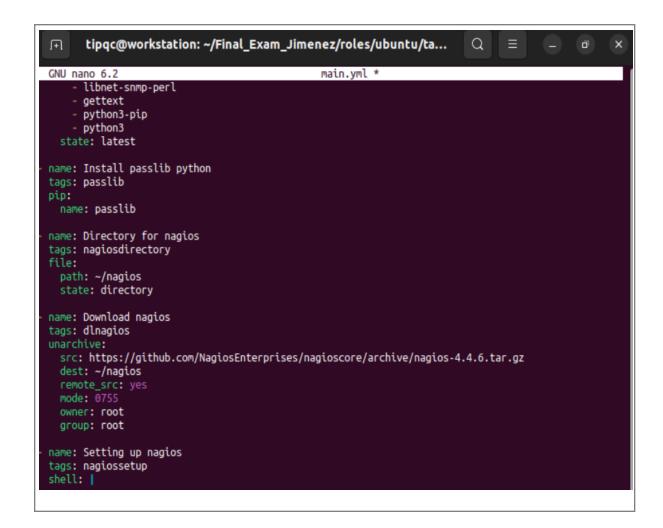
OUTPUTS

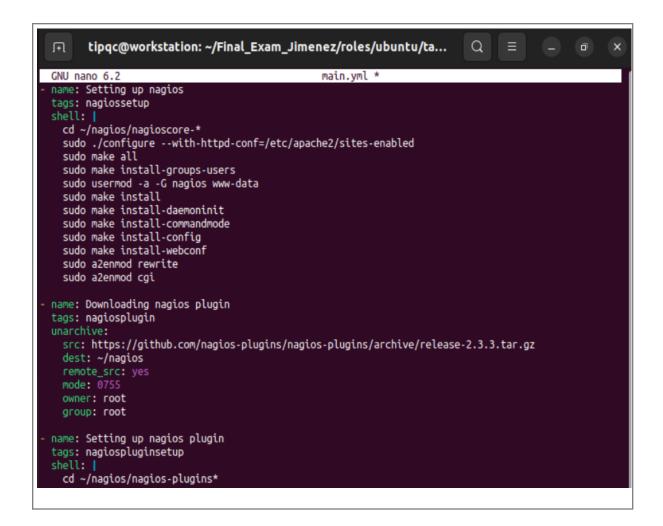


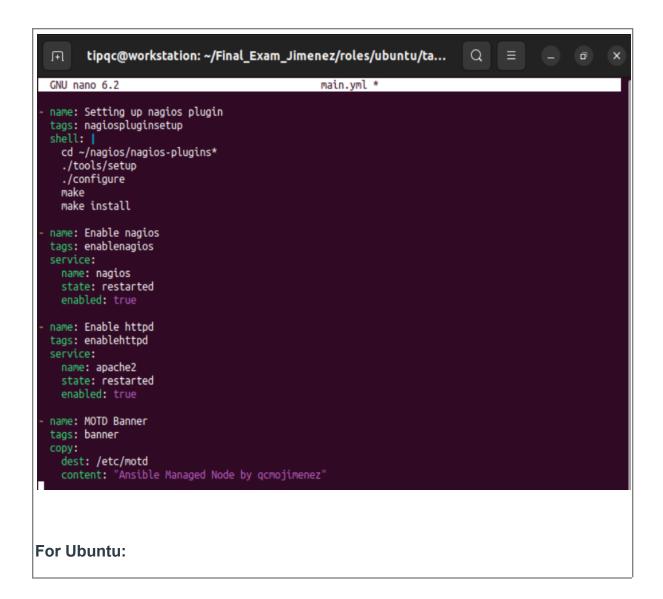
```
tipqc@workstation: ~/Final_Exam_Jimenez
 Ħ.
                                          ansible.cfg *
  GNU nano 6.2
[defaults]
inventory = inventory
host key checking = False
deprecation warnings = False
ansible_user = tipqc
private key file = ~/.ssh/id rsa.pub
Creating directories for roles using mkdir command
tipqc@workstation:~/Final_Exam_Jimenez$ mkdir roles
tipgc@workstation:~/Final_Exam_Jimenez$ mkdir roles/centos
tipgc@workstation:~/Final_Exam_Jimenez$ mkdir roles/centos/tasks
tipgc@workstation:~/Final Exam Jimenez$ mkdir roles/ubuntu
tipqc@workstation:~/Final_Exam_Jimenez$ mkdir roles/ubuntu/tasks
 tipqc@workstation:~/Final_Exam_Jimenez$ tree
    ansible.cfg
    inventory
    README.md
         — tasks
         - tasks
5 directories, 3 files
tipgc@workstation:~/Final_Exam_Jimenez$
Creating instructions for each role with MOTD Banner using sudo nano
```

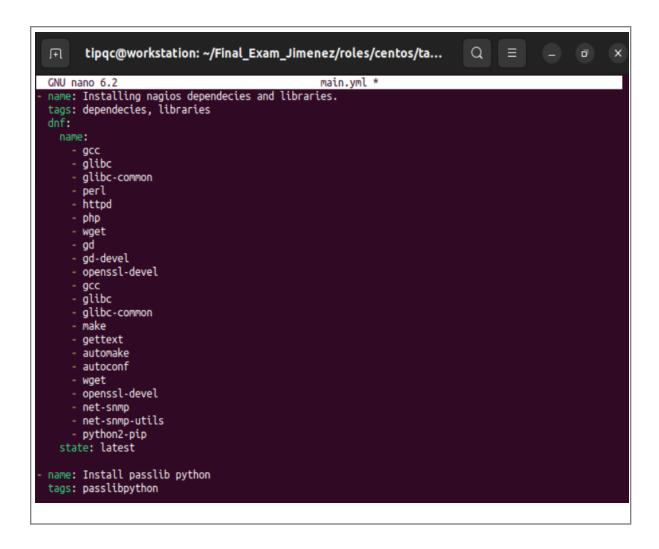
command

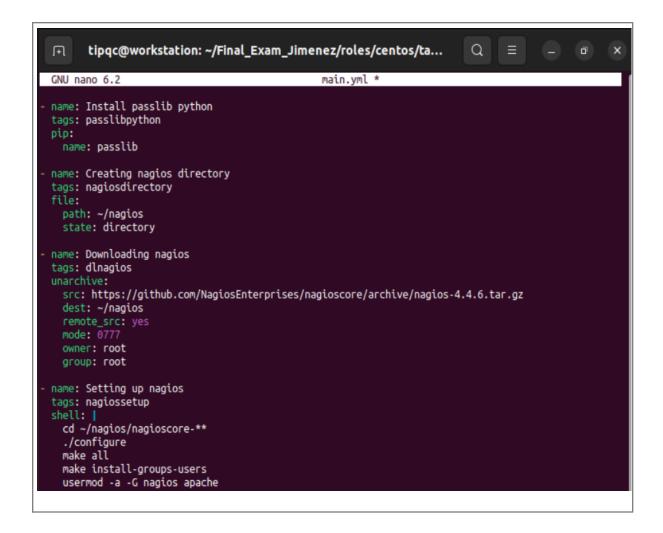


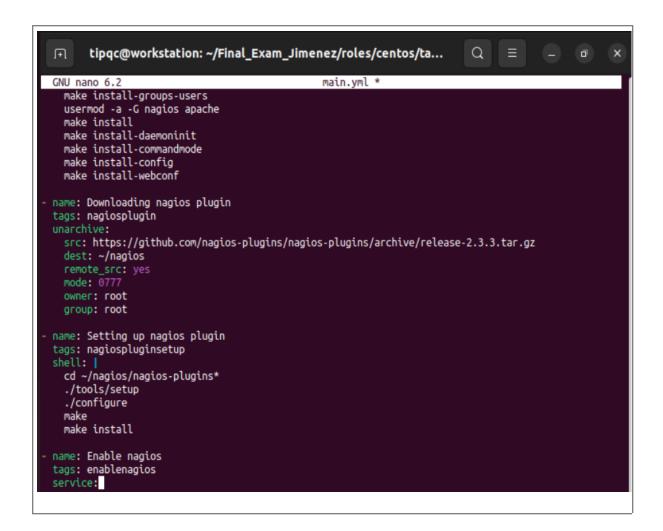


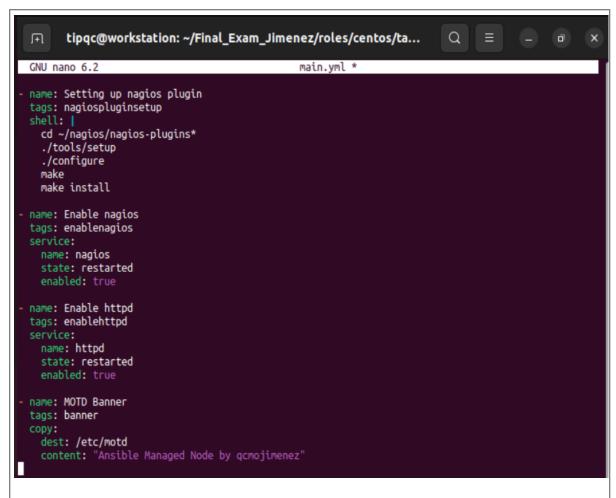






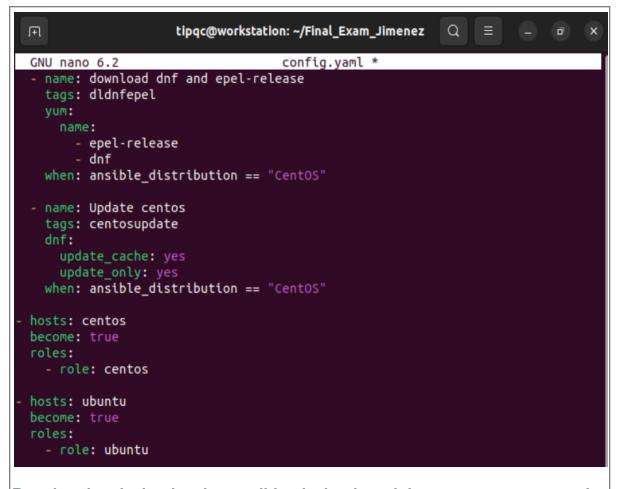




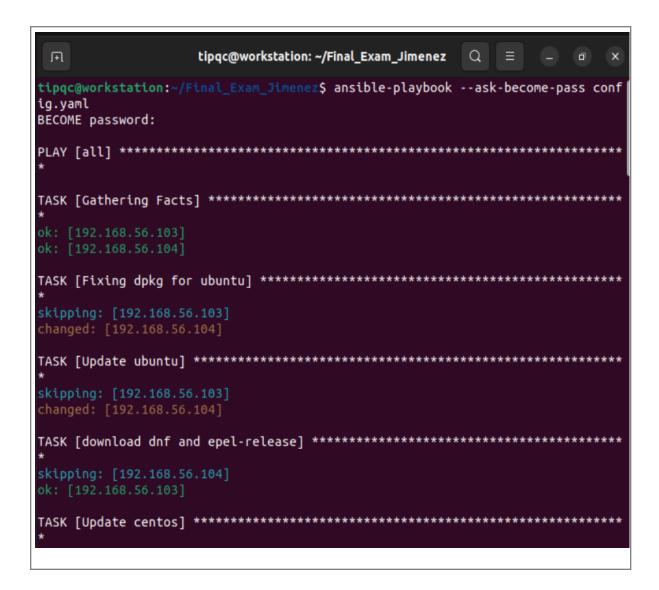


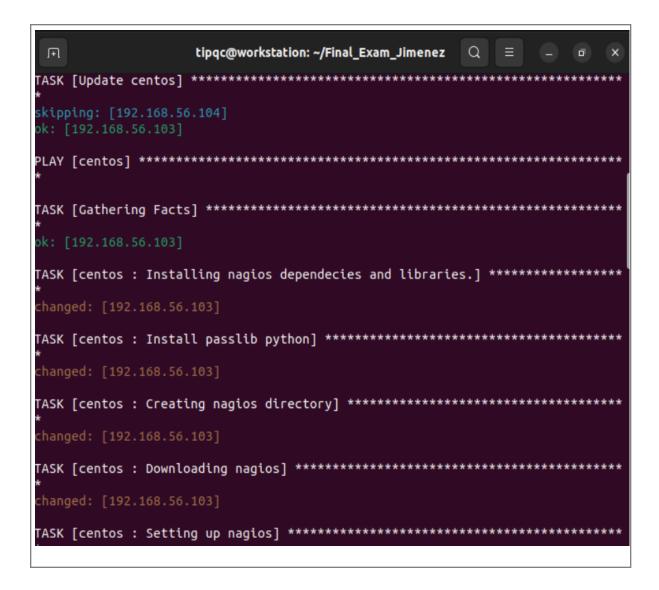
Creating a playbook that will run the role's instructions using sudo nano command

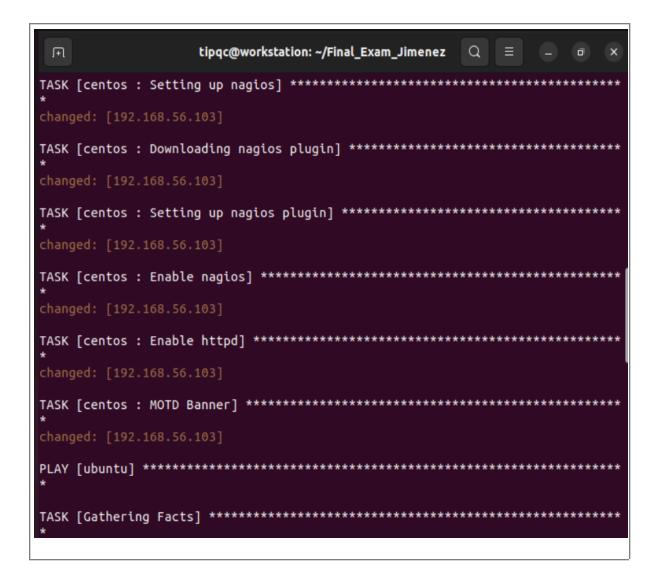
```
tipqc@workstation: ~/Final_Exam_Jimenez
                                                        Q = - 0
Ħ
GNU nano 6.2
                                  config.yaml *
hosts: all
become: true
pre_tasks:
- name: Fixing dpkg for ubuntu
  tags: ubuntudpkg
  shell: |
    dpkg --configure -a
  when: ansible_distribution == "Ubuntu"
- name: Update ubuntu
  tags: ubuntuupdate
  apt:
    update_cache: yes
    upgrade: dist
  when: ansible_distribution == "Ubuntu"
- name: download dnf and epel-release
  tags: dldnfepel
  yum:
    name:
      - epel-release
      - dnf
```

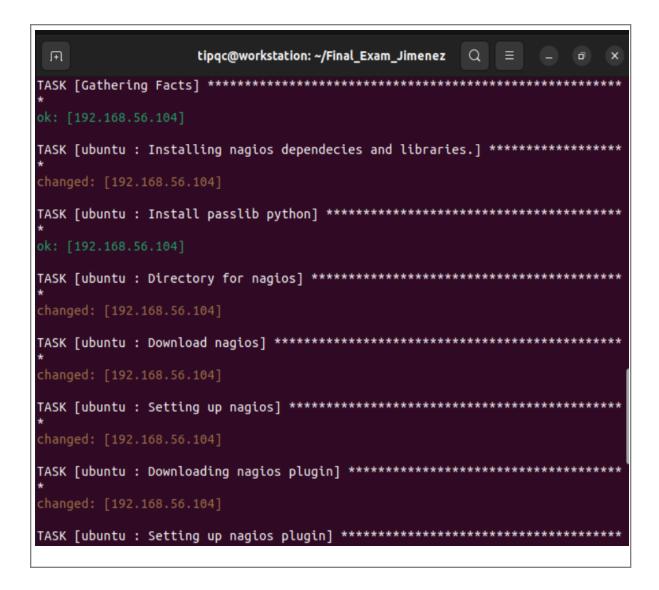


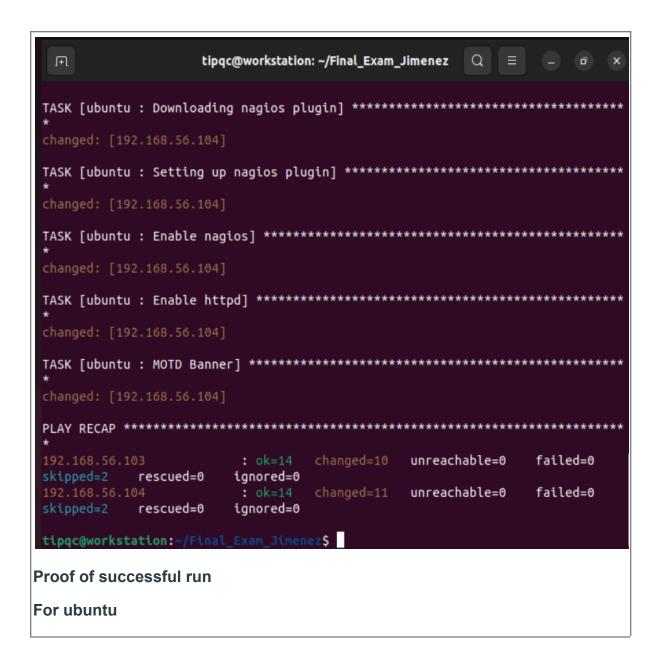
Running the playbook using ansible-playbook –ask-become-pass command

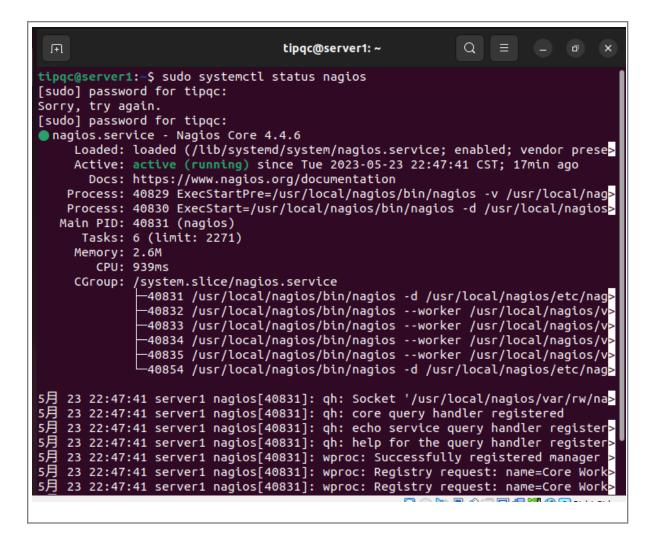


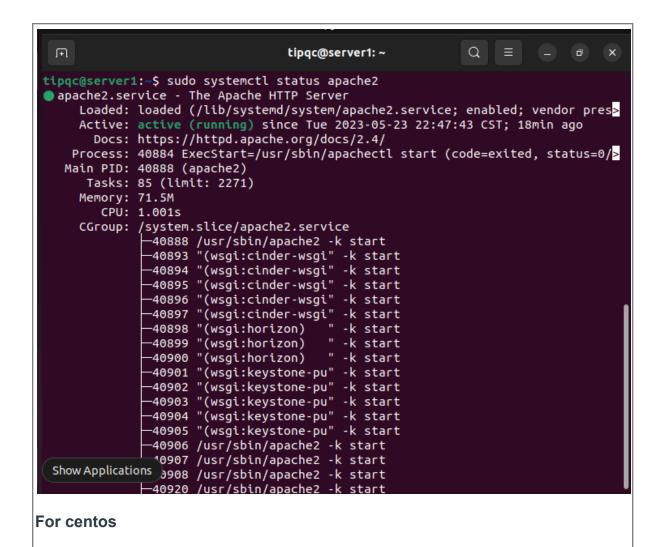












```
E
                                   tipqc@server2:~
                                                                                ×
 File Edit View Search Terminal Help
[tipqc@server2 ~]$ sudo systemctl status nagios
[sudo] password for tipqc:
nagios.service - Nagios Core 4.4.6
   Loaded: loaded (/usr/lib/systemd/system/nagios.service; enabled; vendor pres>
   Active: active (running) since Tue 2023-05-23 10:44:17 EDT; 24min ago
     Docs: https://www.nagios.org/documentation
 Main PID: 35064 (nagios)
    Tasks: 6 (limit: 4565)
   Memory: 2.3M
   CGroup: /system.slice/nagios.service
            —35064 /usr/local/nagios/bin/nagios -d /usr/local/nagios/etc/nagios>
             -35065 /usr/local/nagios/bin/nagios --worker /usr/local/nagios/var/
             -35066 /usr/local/nagios/bin/nagios --worker /usr/local/nagios/var/
            —35067 /usr_/local/nagios/bin/nagios --worker /usr/local/nagios/var/
             -35068 /usr∐/local/nagios/bin/nagios --worker /usr/local/nagios/var/
            └─35306 /usr/local/nagios/bin/nagios -d /usr/local/nagios/etc/nagios>
May 23 10:44:17 server2.localdomain nagios[35064]: wproc: Successfully register>
May 23 10:44:17 server2.localdomain nagios[35064]: wproc: Registry request: nam>
May 23 10:44:17 server2.localdomain nagios[35064]: wproc: Registry request: nam>
May 23 10:44:17 server2.localdomain nagios[35064]: wproc: Registry request: nam
May 23 10:44:17 server2.localdomain nagios[35064]: wproc: Registry request: nam
May 23 10:44:19 server2.localdomain nagios[35064]: Successfully launched comman
May 23 10:46:09 server2.localdomain nagios[35064]: SERVICE ALERT: localhost;HTT
2
                                   tipqc@server2:~
                                                                                ×
File Edit View Search Terminal Help
[tipqc@server2 ~]$
[tipqc@server2 ~]$ sudo systemctl status httpd
httpd.service - The Apache HTTP Server
   Loaded: loaded (/usr/lib/systemd/system/httpd.service; enabled; vendor prese>
  Drop-In: /usr/lib/systemd/system/httpd.service.d
           ∟php-fpm.conf
   Active: active (running) since Tue 2023-05-23 10:44:20 EDT; 25min ago
     Docs: man:httpd.service(8)
Main PID: 35352 (httpd)
   Status: "Total requests: 8; Idle/Busy workers 100/0; Requests/sec: 0.00536; B
   Tasks: 213 (limit: 4565)
  Memory: 15.7M
   CGroup: /system.slice/httpd.service
            -35352 /usr/sbin/httpd -DFOREGROUND
           —35495 /usr/sbin/httpd -DFOREGROUND
           —35496 /usr/sbin/httpd -DFOREGROUND
            -35497 /usr/sbin/httpd -DFOREGROUND
           __35498 /usr/sbin/httpd -DF0REGROUND
May 23 10:44:19 server2.localdomain systemd[1]: Starting The Apache HTTP Server>
May 23 10:44:20 server2.localdomain systemd[1]: Started The Apache HTTP Server.
May 23 10:44:20 server2.localdomain httpd[35352]: Server configured, listening >
lines 1-20/20 (END)
```

