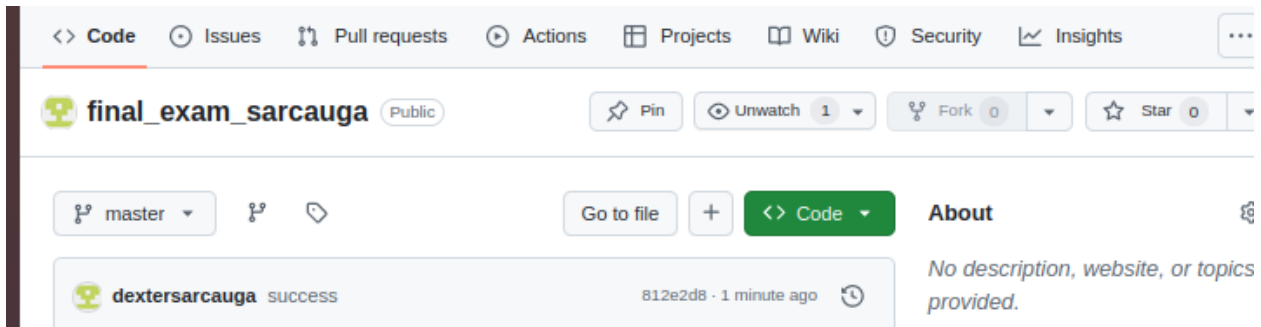


FINAL EXAM - CPE 212 - CPE31S21
DEXTER P. SARCAUGA

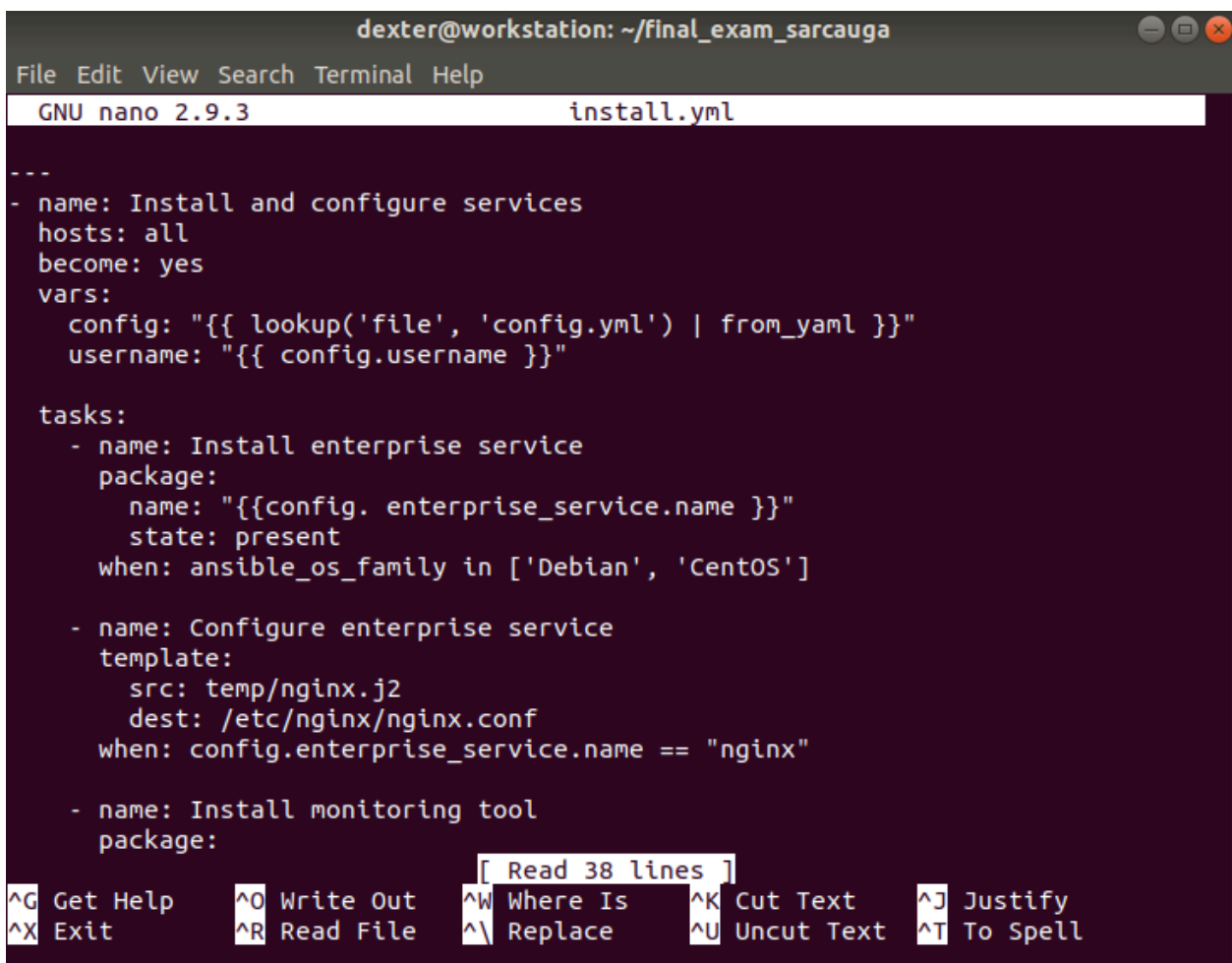
Tools Needed:
<div>1. VM with Ubuntu, CentOS and Ansible installed</div> <div>2. Web browser</div>
Procedure:
<div>1. Create a repository and label it as "Final_Exam_Surname"</div> <div>2. Clone your new repository in your VM</div> <div>3. Create an Ansible playbook that does the following with an input of a config.yaml file and structure inventory file.</div> <div>3.1 Install and configure one enterprise service that can be installed in Debian and Centos servers</div> <div>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)</div> <div>4.4 Change Motd as "Ansible Managed by <username>"</div> <div>4. Push and commit your files in GitHub</div> <div>5. Make sure to show evidence of input (codes) process (codes successfully running) and output (evidence of installation)</div> <div>5. For your final exam to be counted, please paste your repository link as an answer in this exam.</div> <div><u>Note: Extra points if you will implement the said services via containerization.</u></div>

SCREENSHOTS:



```
GNU nano 2.9.3 inventory
[ubuntu]
server1 ansible_host=192.168.56.132 ansible_user=dexter

[centos]
centos ansible_host=192.168.56.133 ansible_user=dsarcauga
```



Ansible Playbook for installing and configuring enterprises and monitoring tools.

```

TASK [Install enterprise service] *****
*
ok: [192.168.56.132]

TASK [Configure enterprise service] *****
*
ok: [192.168.56.132]

TASK [Install monitoring tool] *****
*
ok: [192.168.56.132]

TASK [Configure monitoring tool] *****
*
ok: [192.168.56.132]

TASK [Change MOTD] *****
*
ok: [192.168.56.132]
    to retry, use: --limit @/home/dexter/final_exam_sarcauga/install.retry

PLAY RECAP *****
*
192.168.56.132      : ok=6    changed=0    unreachable=0    failed=0

```

```

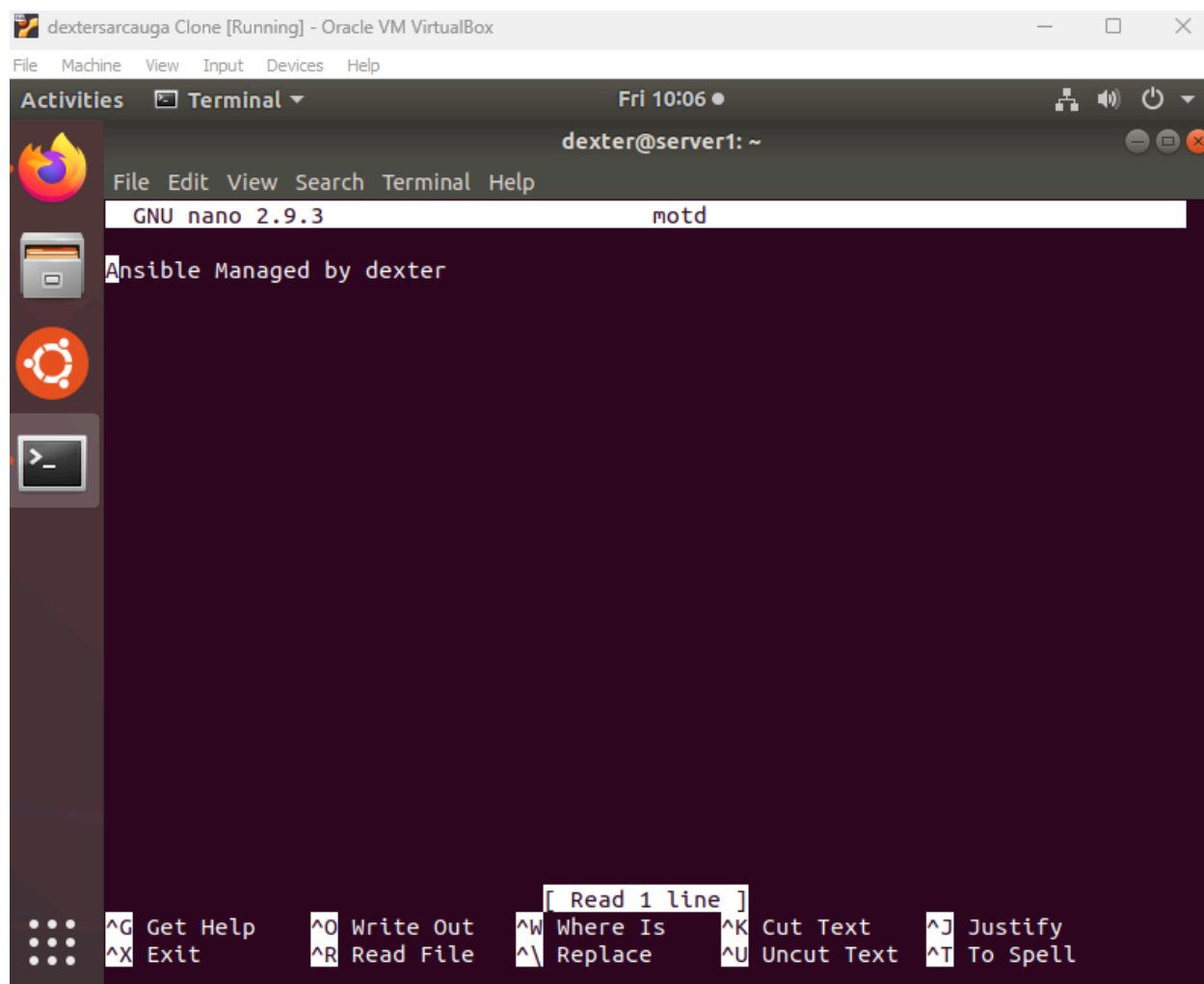
TASK [Print enterprise service details] *****
*
ok: [192.168.56.132] => {
    "msg": "Service: nginx, Version: 1.18.0"
}
ok: [192.168.56.133] => {
    "msg": "Service: nginx, Version: 1.18.0"
}

TASK [Print monitoring tool details] *****
*
ok: [192.168.56.132] => {
    "msg": "Monitoring Tool: prometheus, Version: 2.30.3, Host: monitoring.example.com"
}
ok: [192.168.56.133] => {
    "msg": "Monitoring Tool: prometheus, Version: 2.30.3, Host: monitoring.example.com"
}

PLAY RECAP *****
*
192.168.56.132      : ok=2    changed=0    unreachable=0    failed=0
192.168.56.133      : ok=2    changed=0    unreachable=0    failed=0

```

Figure 1: This is the installation and configuration of the enterprise service and monitoring tool.



```
dexter@server1:~$ cat motd
Ansible Managed by dexter
dexter@server1:~$
```

```
GNU nano 5.6.1 motd
Ansible Managed by dexter
```

```
[dsarcauga@centos ~]$ cat motd
Ansible Managed by dexter
```

Figure: Motd Banner from the main workstation through servers.