Final Exam	
Hands-On Final Exam	
Course Code: CPE 232	Program: CPE
Course Title: Managing Enterprise Servers	Date Performed: 06/7/2022
Section: CPE31S7	Date Submitted: 06/8/2022
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- 1. Resources
- 1. VM with Alpine, Git and Ansible installed
- 2. Web browser
- 2. Procedure
- 1. Create a repository and name it Surname FinalExam.

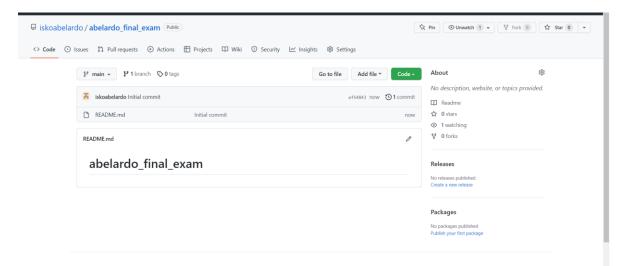


Figure 1. Created a repository named abelardo_final_exam.

2. Clone your new repository in your VM

```
angelo@192:~$ git clone git@github.com:iskoabelardo/abelardo_final_exam.git
Cloning into 'abelardo_final_exam'...
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Receiving objects: 100% (3/3), done.
angelo@192:~$
```

Figure 2. Cloned the repository.

- 3. Create an Ansible playbook that does the following with an input of a config.yaml file and structure inventory file.
 - 3.1 Clone your prelim exam repository

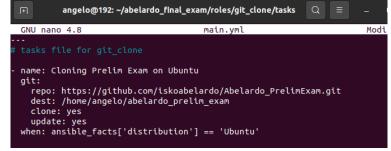


Figure 3. Created a role that can clone my prelim exam in GitHub.

3.2 Install and configure one enterprise service that can be installed in Debian, Centos, and OpenSuse servers

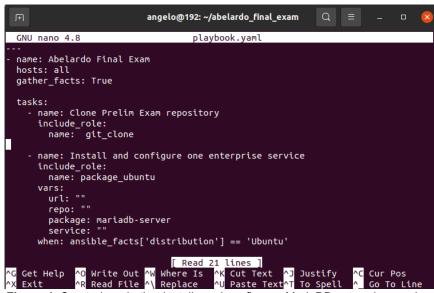


Figure 4. Created a role that installs and configures MariaDB enterprise service.

3.3 Install and configure one monitoring tool that can be installed in Debian, Centos, and OpenSuse servers (if it is a stack there should be the option of a different host)

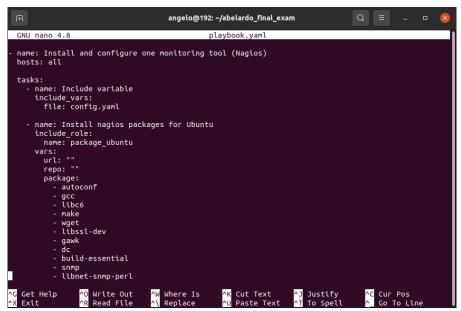


Figure 5. Created a role that installs and configures Nagios monitoring tool.

3.4 Change Motd as "Ansible Managed by <username>"

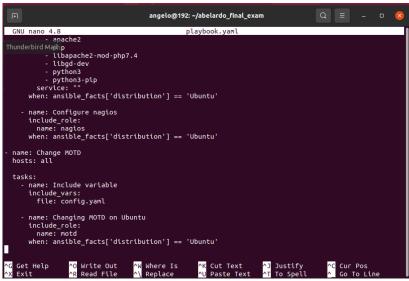


Figure 6. Created a role that can change MOTD.

4. Run the playbook

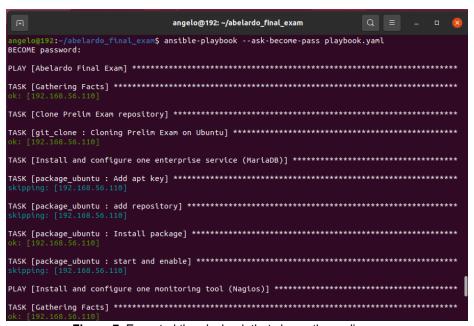


Figure 7. Executed the playbook that clones the prelim exam, installs MariaDB enterprise service and Nagios monitoring tool.

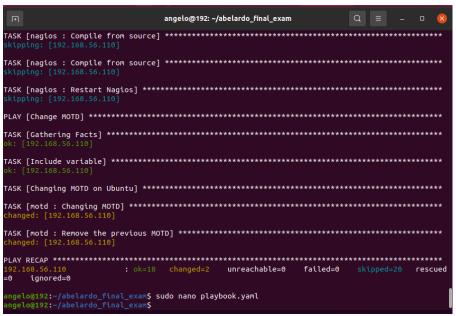


Figure 8. Executed the playbook that clones the prelim exam, installs MariaDB enterprise service and Nagios monitoring tool. The playbook worked well.

4. push and commit your final-exam branch in the VM

```
angelo@192:-/abelardo_final_exam$ git add ansible.cfg
angelo@192:-/abelardo_final_exam$ git add config.yaml
angelo@192:-/abelardo_final_exam$ git add playbook.yaml
angelo@192:-/abelardo_final_exam$ git add playbook.yaml
angelo@192:-/abelardo_final_exam$ git add roles/
angelo@192:-/abelardo_final_exam$ git commit - m "final commit"
error: pathspec '-' did not match any file(s) known to git
error: pathspec 'm' did not match any file(s) known to git
error: pathspec 'final commit' did not match any file(s) known to git
error: pathspec 'final commit' did not match any file(s) known to git
angelo@192:-/abelardo_final_exam$ git commit -m "final commit"

[main a5a0892] final commit
40 files changed, 815 insertions(+)
create mode 100644 ansible.cfg
create mode 100644 inventory
create mode 100644 inventory
create mode 100644 roles/git_clone/.travis.yml
create mode 100644 roles/git_clone/defaults/main.yml
create mode 100644 roles/git_clone/defaults/main.yml
create mode 100644 roles/git_clone/handlers/main.yml
create mode 100644 roles/git_clone/tasks/main.yml
create mode 100644 roles/git_clone/tasks/main.yml
create mode 100644 roles/git_clone/tasks/main.yml
create mode 100644 roles/git_clone/tests/inventory
create mode 100644 roles/git_clone/vars/main.yml
create mode 100644 roles/git_clone/vars/main.yml
```

Figure 9. Added and commit all the changes in the repository.

```
angelo@192:~/abelardo_final_exam$ git push
Enumerating objects: 57, done.
Counting objects: 100% (57/57), done.
Compressing objects: 100% (25/25), done.
Writing objects: 100% (56/56), 7.08 KiB | 1.01 MiB/s, done.
Total 56 (delta 2), reused 0 (delta 0)
remote: Resolving deltas: 100% (2/2), done.
To github.com:iskoabelardo/abelardo_final_exam.git
    ef54843..a5a0892 main -> main
angelo@192:~/abelardo_final_exam$
```

Figure 10. Pushed all the changes in GitHub.

GitHub Link:

https://github.com/iskoabelardo/abelardo_final_exam