

Hands On	
Prelim Exam	
Course Code: CPE232	Program: CPE
Course Title: Managing Enterprise Services	Date Performed: 14/05/2022
Section: CPE31S7	Date Submitted: 14/05/2022
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1. Objective(s):	
Create a YML file that can execute multiple orders	
2. Intended Learning Outcomes (ILOs):	
<p>The students should be able to:</p> <ol style="list-style-type: none"> 1. Evaluate the concepts of DevOps culture and its benefits rather than traditional silos. 2. Evaluate the concepts of Continuous Integration/Deployment/Delivery 3. Create a local repository in Git in the local machine 4. Use playbook 	
4. Resources:	
<ol style="list-style-type: none"> 1. VM with Ubuntu, Git, and Ansible installed 2. Web browser 	
5. Procedure:	
<ol style="list-style-type: none"> 1. Go to your GitHub account and create a new repository. Name it as Surname_PrelimExam 2. Clone your new repository in your VM <code>https://github.com/< your username >/Surname_PrelimExam.git</code> 3. Create an Ansible playbook that does the following with an input of a config.yaml file <p>Role 1 (python):</p> <ol style="list-style-type: none"> 1. Installs the latest python3 and pip3 2. use pip3 as the default pip 3. use python3 as the default python 	

Role 2 (Java)

1. Install Java open-jdk

Role 3 (Change motd)

1. Create Motd containing the text defined by a variable defined in config.yaml file and if there is no variable input the default motd is "Ansible Managed node by (your user name)"

Role 4 (Create user)

1. Create a user with a variable defined in config.yaml

5. push and commit your prelim-exam in the VM

Note: Provide SCREENSHOTS for all the roles you created.

- show me the tree of the created roles

- show me the code for each role created

- show me the output of each role created when you run them (this is the most important, if you created a role in a playbook but does not run, that means your code is wrong)

- include the link to your GitHub repository for this exam

- for the report submission, use the activity templates

6. Supplementary Activity

N/A

7. Screenshots and links

GitHub Link: https://github.com/MarcusEspiritu/Espiritu_PrelimExam

```
marcus@marcus-VirtualBox:~$ git clone https://github.com/MarcusEspiritu/Espiritu_PrelimExam.git
Cloning into 'Espiritu_PrelimExam'...
warning: You appear to have cloned an empty repository.
marcus@marcus-VirtualBox:~$ ls
1          Desktop          find.out    Pictures    Templates
activity   Documents        find.out2   Public      udev.zip
activity1  Downloads        home        README.md   Videos
ajcanlas-tip  err.txt        Music       snap        words
CPE231_backup.zip  Espiritu_PrelimExam  myfile     std.err     words.zip
CPE232_Espiritu  etc            mymessage  std.out
marcus@marcus-VirtualBox:~$ cd Espiritu_PrelimExam
marcus@marcus-VirtualBox:~/Espiritu_PrelimExam$ nano config.yml
```

```
Open  config.yml  Save
~/Espiritu_PrelimExam

1 ---
2 - hosts: 127.0.0.1
3   become: true
4   vars:
5     - user: user1
6     - password: fmdsfmkdlsfmsd
7   tasks:
8
9     - name: python
10      raw: apt -y update && apt install -y python-minimal
11
12     - name: Java
13      raw: apt -y update && apt install -y default-jre
14
15     - name: Change motd
16      raw: sh -c 'echo "Ansible Manged node by MarcusEspiritu" > /etc/motd'
17
18     - name: Create user
19      user:
20        name: "{{ user }}"
21        password: "{{ password }}"
22        state: present
23
24
```

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```
marcus@marcus-VirtualBox: ~/Espiritu_...
the implicit localhost does not match 'all'

PLAY [127.0.0.1] *****
*****

TASK [Gathering Facts] *****
*****
ok: [127.0.0.1]

TASK [python] *****
*****
changed: [127.0.0.1]

TASK [Java] *****
*****
changed: [127.0.0.1]

TASK [Change motd] *****
*****
changed: [127.0.0.1]

TASK [Create user] *****
*****
[WARNING]: The input password appears not to have been hashed. The 'password'
argument must be encrypted for this module to work properly.
ok: [127.0.0.1]

PLAY RECAP *****
127.0.0.1 : ok=5    changed=3    unreachable=0
          failed=0    skipped=0    rescued=0    ignored=0

marcus@marcus-VirtualBox:~/Espiritu PrelimExam$
```

8. Conclusion

In conclusion, installing Git repository inside the virtual storage is very useful. It allows the user to save versions of the code which can be access later when needed. It tracks the changes and updates. This allows users to work collaboratively. Playbook on the other hand offers a more organize input group of codes where you input a file then use it to initiate the code. This helps users for a more organize code and easier access for everyone to use when it is uploaded to Git

8. Assessment (Rubric for Laboratory Performance):

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