

Escosia, Jerico James	9/20/24
CPE321S21	Engr. Valenzuela


1. Note: You are required to create a document report of the steps you will do for this exam. All screenshots should be labeled and explained properly.
LABELED AND EXPLAIN EACH CODE (PLAYBOOK) No explanation = Minus Points
2. Create a repository in your GitHub account and label it as Surname_PrelimExam

Create a new repository

A repository contains all project files, including the revision history. Already have a project repository elsewhere? [Import a repository.](#)

Required fields are marked with an asterisk ().*

Owner *

 emrys66


Repository name *

Escosia_Prelim


Escosia_Prelim is available.

Great repository names are short and memorable. Need inspiration? How about [didactic-fiesta](#) ?

Description (optional)

☐


Public
Anyone on the internet can see this repository. You choose who can commit.

☒


Private
You choose who can see and commit to this repository.

Initialize this repository with:

☒ **Add a README file**
This is where you can write a long description for your project. [Learn more about READMEs.](#)

Add .gitignore

.gitignore template: **None**

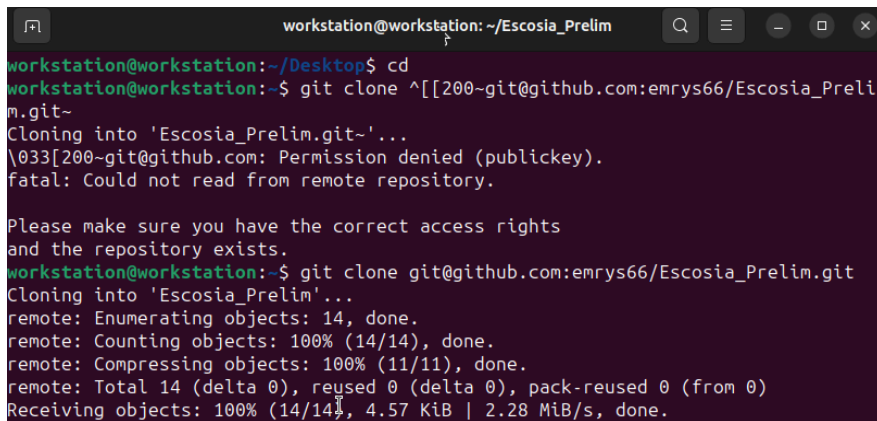
Choose which files not to track from a list of templates. [Learn more about ignoring files.](#)

Choose a license

License: **None**

A license tells others what they can and can't do with your code. [Learn more about licenses.](#)

3. Clone your new repository in your CN.

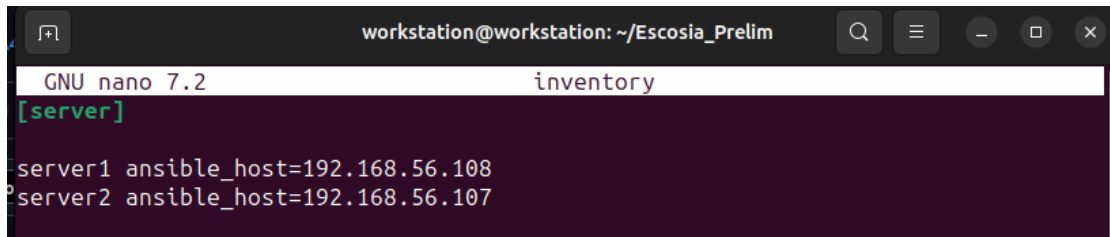
A terminal window titled 'workstation@workstation: ~/Escosia_Prelim'. The user runs 'cd' and then 'git clone ^[[200-git@github.com:emrys66/Escosia_Prelim.git'. The first attempt fails with a 'Permission denied (publickey)' error. The user then runs 'git clone git@github.com:emrys66/Escosia_Prelim.git', which succeeds. The output shows the cloning progress: 'Enumerating objects: 14, done.', 'Counting objects: 100% (14/14), done.', 'Compressing objects: 100% (11/11), done.', 'Total 14 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)', and 'Receiving objects: 100% (14/14), 4.57 KiB | 2.28 MiB/s, done.'

```
workstation@workstation: ~/Escosia_Prelim
workstation@workstation:~/Desktop$ cd
workstation@workstation:~$ git clone ^[[200-git@github.com:emrys66/Escosia_Prelim.git
Cloning into 'Escosia_Prelim.git'...
\033[200-git@github.com: Permission denied (publickey).
fatal: Could not read from remote repository.

Please make sure you have the correct access rights
and the repository exists.
workstation@workstation:~$ git clone git@github.com:emrys66/Escosia_Prelim.git
Cloning into 'Escosia_Prelim'...
remote: Enumerating objects: 14, done.
remote: Counting objects: 100% (14/14), done.
remote: Compressing objects: 100% (11/11), done.
remote: Total 14 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
Receiving objects: 100% (14/14), 4.57 KiB | 2.28 MiB/s, done.
```

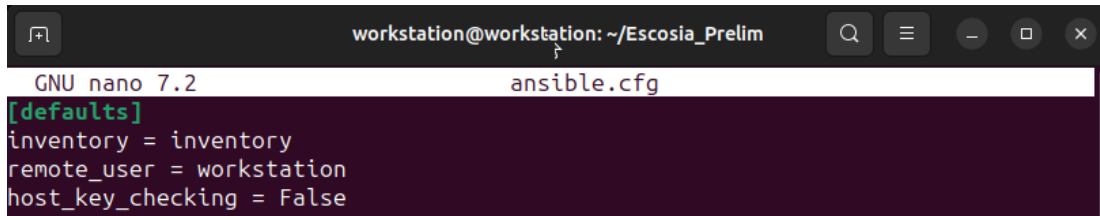
This clones my repo into my control node.

4. In your CN, create an inventory file and ansible.cfg files.

A terminal window titled 'workstation@workstation: ~/Escosia_Prelim' showing the nano editor editing 'inventory'. The content of the file is: '[server]' followed by 'server1 ansible_host=192.168.56.108' and 'server2 ansible_host=192.168.56.107'.

```
workstation@workstation: ~/Escosia_Prelim
GNU nano 7.2 inventory
[server]
server1 ansible_host=192.168.56.108
server2 ansible_host=192.168.56.107
```

This sets up the connection between my control node and my manage nodes using the ip addresses.

A terminal window titled 'workstation@workstation: ~/Escosia_Prelim' showing the nano editor editing 'ansible.cfg'. The content of the file is: '[defaults]' followed by 'inventory = inventory', 'remote_user = workstation', and 'host_key_checking = False'.

```
workstation@workstation: ~/Escosia_Prelim
GNU nano 7.2 ansible.cfg
[defaults]
inventory = inventory
remote_user = workstation
host_key_checking = False
```

This file lets me connect my control node to ansible and let me manage my manage nodes.

5. Create an Ansible playbook that does the following with an input of a config.yaml file for both Manage Nodes
 - Installs the latest python3 and pip3
 - use pip3 as default pip
 - use python3 as default python
 - Install Java open-jdk
 - Create a Python Script named "github.py" that automatically opens github on Firefox (or any default web browser) USING ANSIBLE.

- 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)"
- Create a user with a variable defined in config.yaml

```
Code Blame 27 lines (25 loc) · 538 Bytes Raw [copy] [download]
```

```
1  ---
2  - hosts: all
3    become: true
4    tasks:
5
6    - name: install python and pip3
7      package:
8        name:
9          -python3
10         -python3-pip
11        name: default python3
12      pip:
13        name:pip
14        executable: pip3
15
16    - name: install java
17      apt:
18        name: open javajdk-11-jdk
19        when: ansible_distribution == 'ubuntu'
20    - name: Copy MOTD
21      copy:
22        content: "{{ motd_text | default('Ansible Manage Node by Escosia') }}"
23        dest: /etc/motd
24    - name: Create user
25      user:
26        name: "{{ 'Escosia' }}"
27        state: present
```

```
Code Blame 4 lines (4 loc) · 85 Bytes Raw [copy] [download] [edit] [dropdown]
```

```
1  [defaults]
2  inventory = inventory
3  remote_user = workstation
4  host_key_checking = False
```

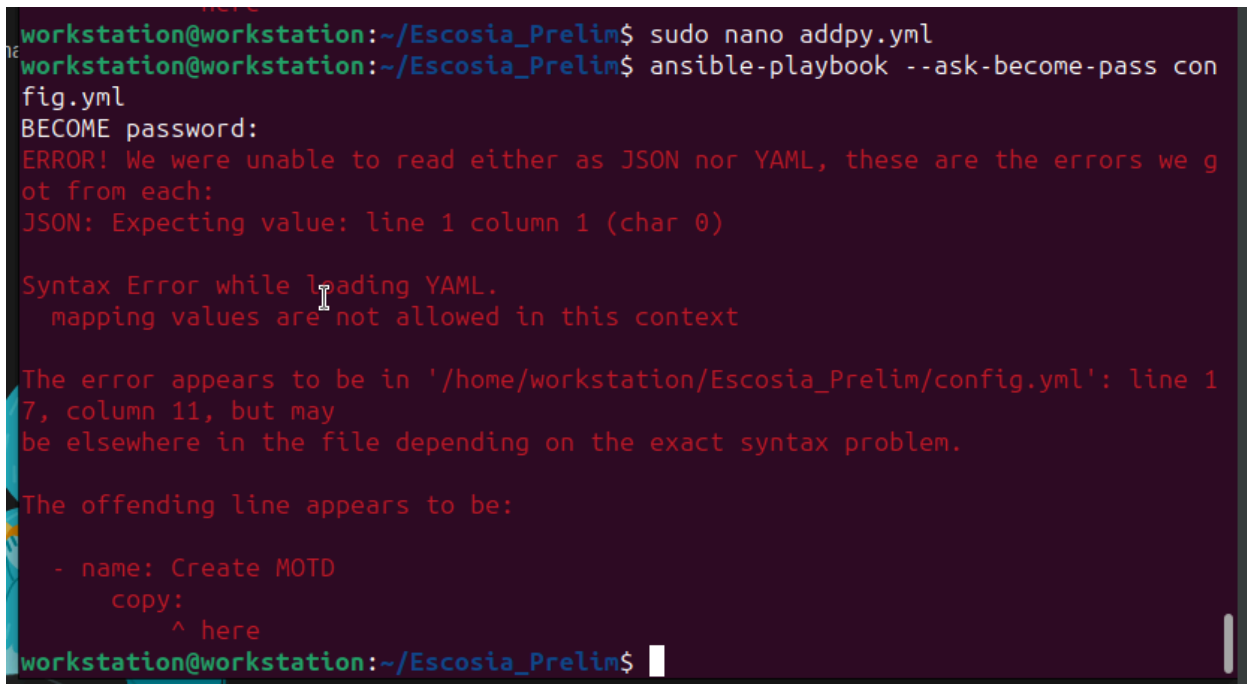


```
Escosia_Prelim / inventory
```

james add config.yml

Code Blame 4 lines (3 loc) · 82 Bytes

```
1 [server]
2
3 server1 ansible_host=192.168.56.108
4 server2 ansible_host=192.168.56.107
```



```
workstation@workstation:~/Escosia_Prelim$ sudo nano addpy.yml
workstation@workstation:~/Escosia_Prelim$ ansible-playbook --ask-become-pass config.yml
BECOME password:
ERROR! We were unable to read either as JSON nor YAML, these are the errors we got from each:
JSON: Expecting value: line 1 column 1 (char 0)

Syntax Error while loading YAML.
  mapping values are not allowed in this context

The error appears to be in '/home/workstation/Escosia_Prelim/config.yml': line 17, column 11, but may
be elsewhere in the file depending on the exact syntax problem.

The offending line appears to be:

- name: Create MOTD
  copy:
    ^ here
workstation@workstation:~/Escosia_Prelim$
```

6. PUSH and COMMIT your PrelimExam in your GitHub repo

6. Screenshot / document your work. Add PROOF that all your CODES / SCRIPTS WORK.

7. Your document report should be submitted here. Your document SHOULD BE explained neatly and comprehensively.

8. For your prelim exam to be counted, please paste your repository link here. (Failure to submit will result in ZERO)

https://github.com/emrys66/Escosia_Prelim.git

9. NO USE OF EXTERNAL WEBSITES SUCH AS REDDIT, FORUMS, GITHUB, CHATGPT, CLAUDEAI, BARD, AND DOCUMENTATIONS. FAILURE TO COMPLY WITH RESULT IN ZERO.