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Section: CPE31S2

Date: September 18, 2024

Instructor: Engr. Robin Valenzuela

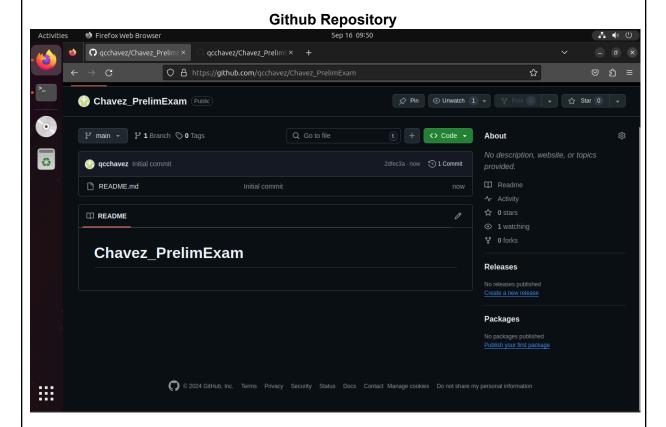
Github Repository Link: <a href="https://github.com/qcchavez/Chavez\_PrelimExam.git">https://github.com/qcchavez/Chavez\_PrelimExam.git</a>

## **Tools Needed:**

- 1. Control Node (CN) 1
- 2. Manage Node (MN) 1 Ubuntu
- 3. Manage Node (MN) 1 CentOS

## Procedure:

- 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



In this screenshot, I have created my repository named Chavez\_PrelimExam in

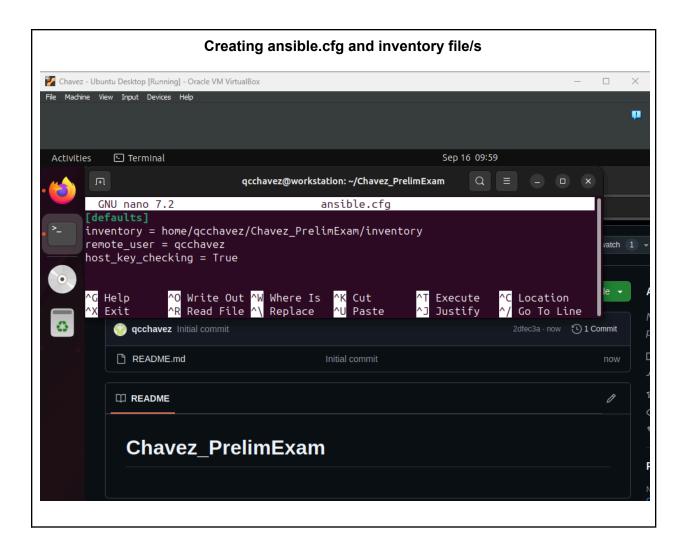
Github.

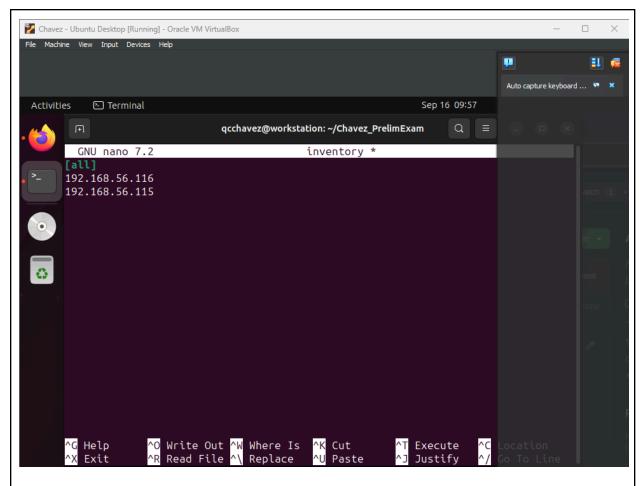
3. Clone your new repository in your CN.

## **Git Cloning Repository to Control Node**

```
qcchavez@workstation:~$ git clone git@github.com:qcchavez/Chavez_PrelimExam.git
Cloning into 'Chavez_PrelimExam'...
The authenticity of host 'github.com (20.205.243.166)' can't be established.
ED25519 key fingerprint is SHA256:+DiY3wvvV6TuJJhbpZisF/zLDA0zPMSvHdkr4UvCOqU.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'github.com' (ED25519) to the list of known hosts.
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
Receiving objects: 100% (3/3), done.
qcchavez@workstation:~$
```

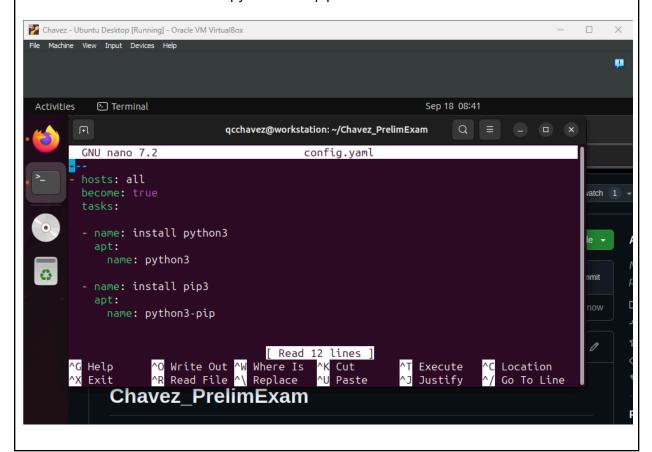
- In this screenshot, I have cloned my repository to my control node by initiating a git clone (ssh link of the repository) in my Linux terminal.
- 4. In your CN, create an inventory file and ansible.cfg files.

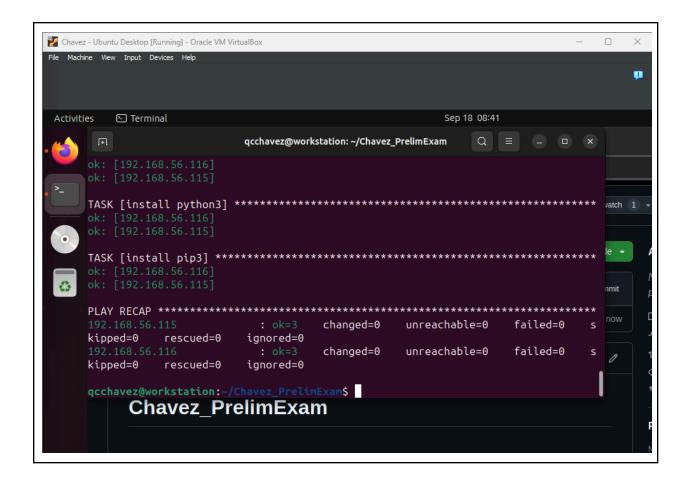


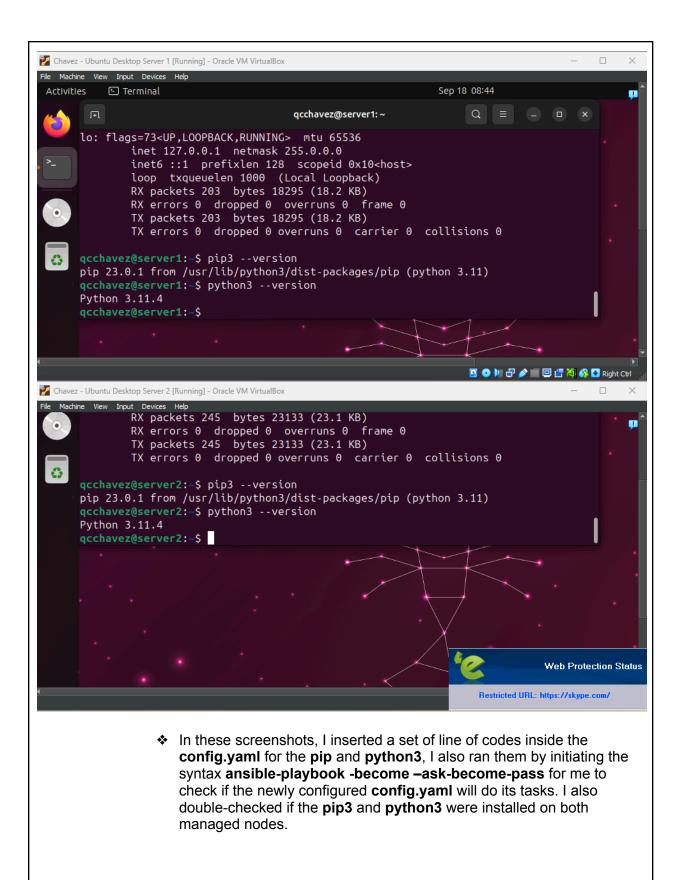


 In this part, I have entered commands sudo nano ansible.cfg and sudo nano inventory in order for me to create the required files inside the cloned repository to my control node. 5. Create an Ansible playbook that does the following with an input of a config.yaml file for both Manage Nodes

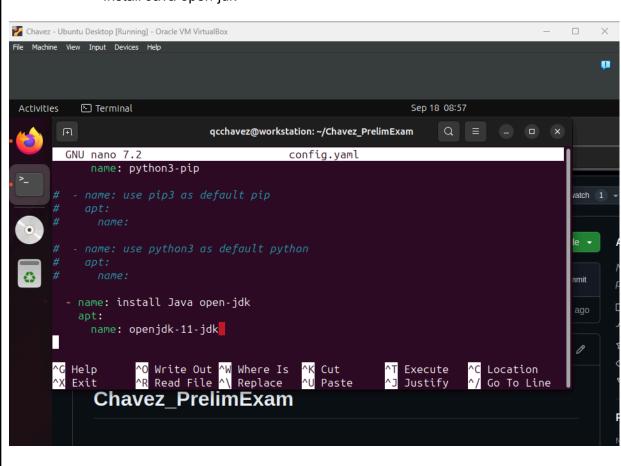
Installs the latest python3 and pip3

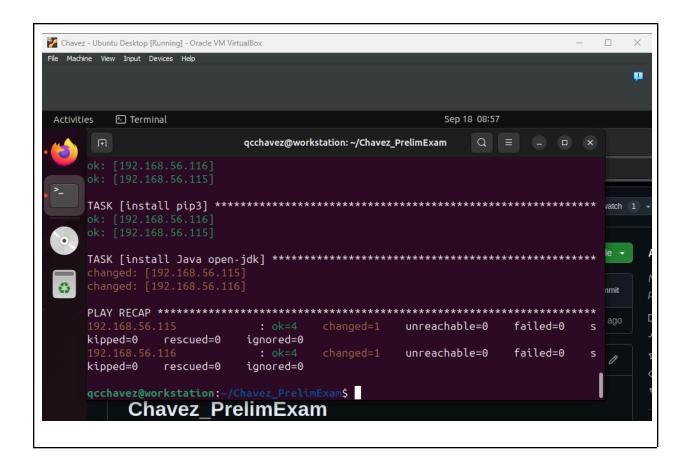


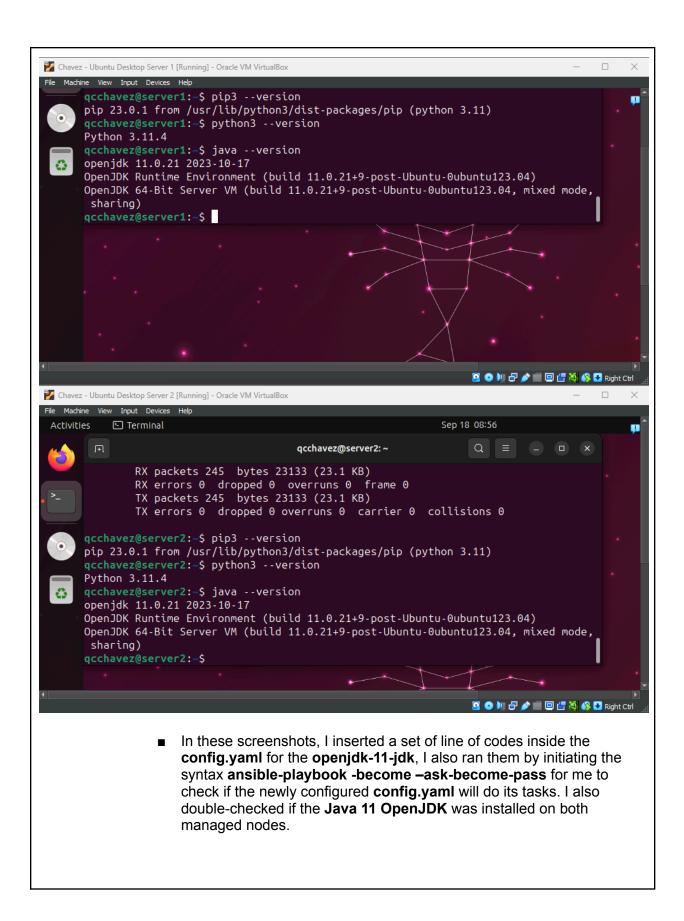




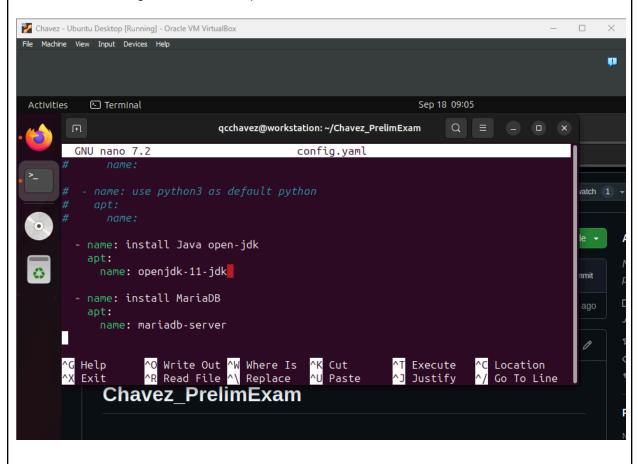
- o use pip3 as default pip
- o use python3 as default python
- Install Java open-jdk

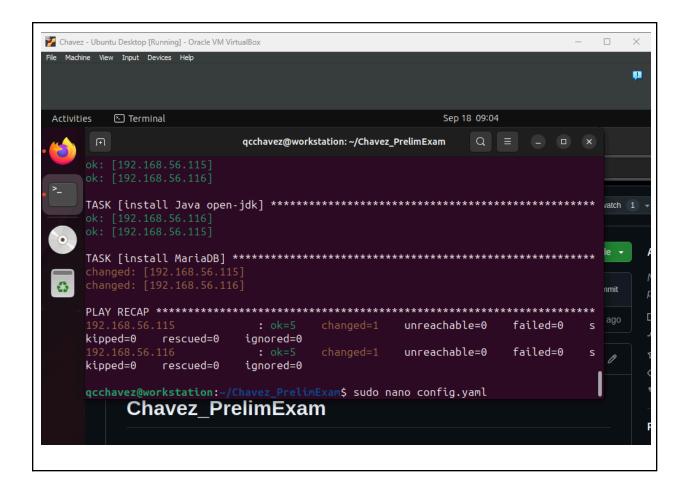


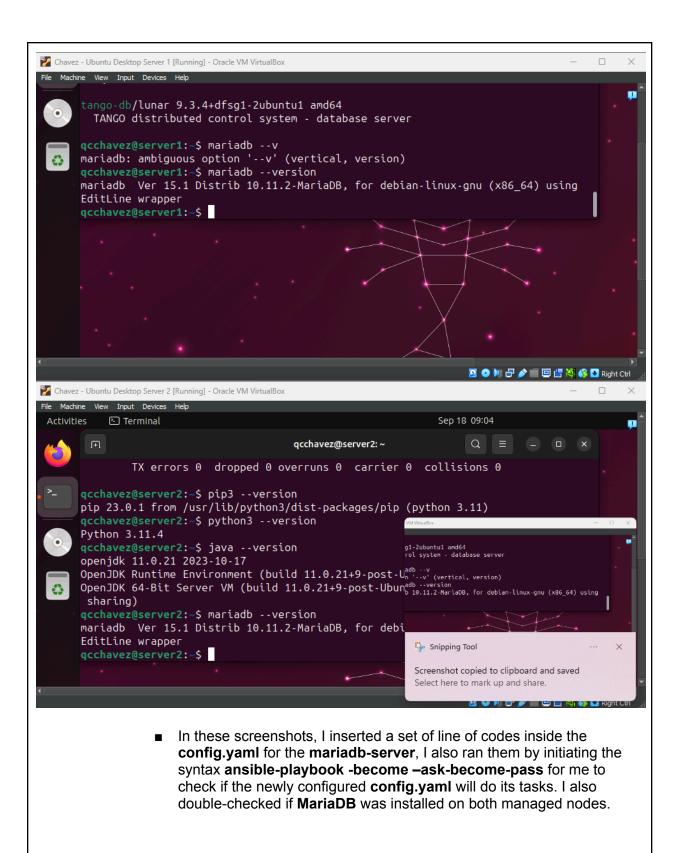




 Install MariaDB as well as starting the server, create a database and a table using mariaDB and input one record into a table USING ANSIBLE ONLY

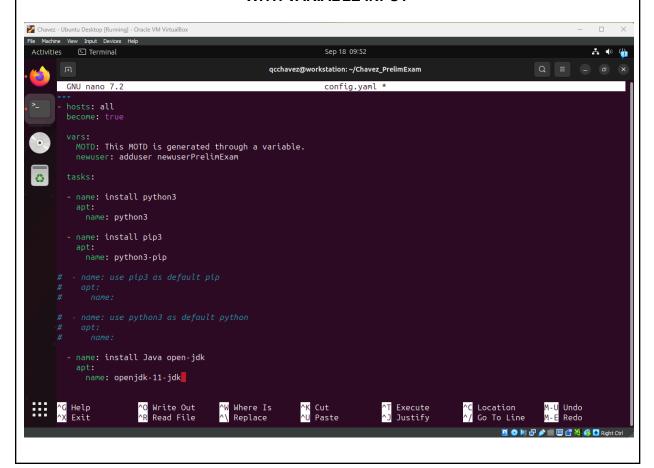


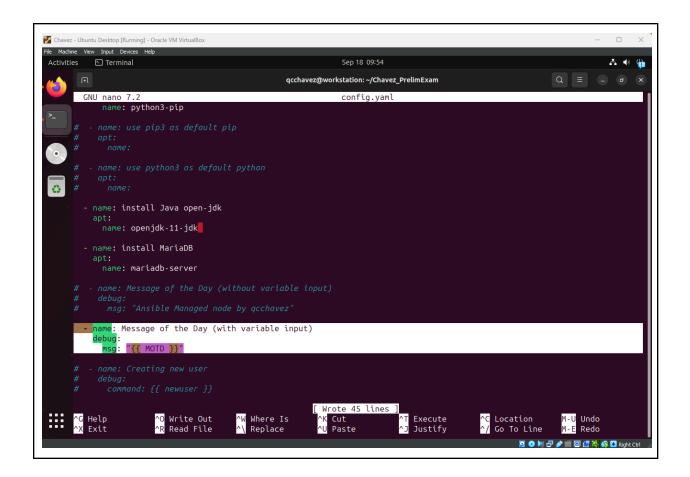


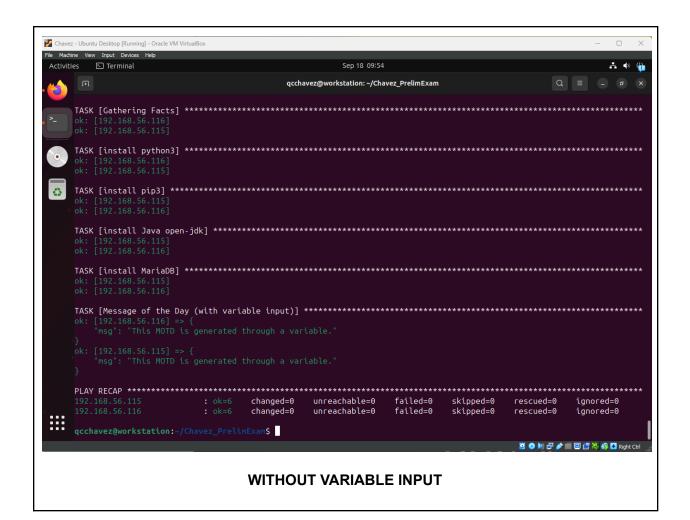


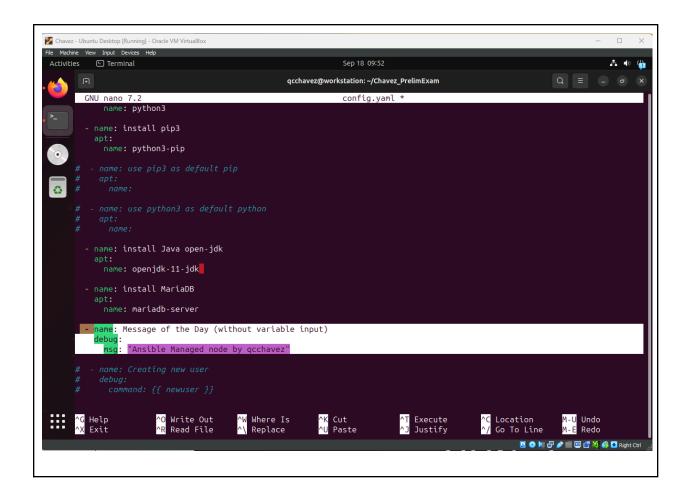
 Create MOTD containing the text defined by a variable defined in config.yaml file and if there is no variable input, the default motd is "Ansible Managed node by (your user name)"

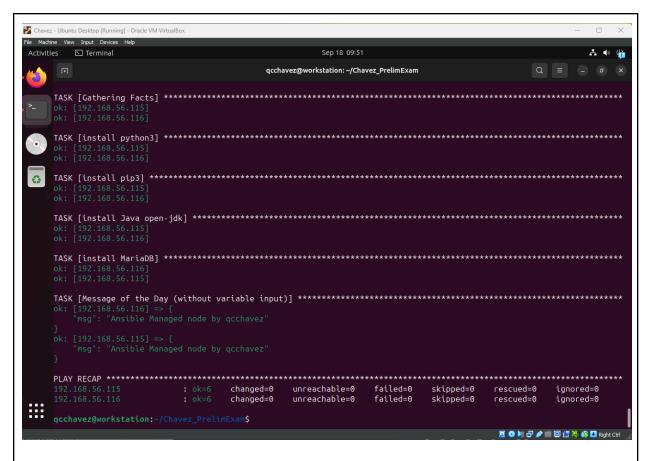
## WITH VARIABLE INPUT





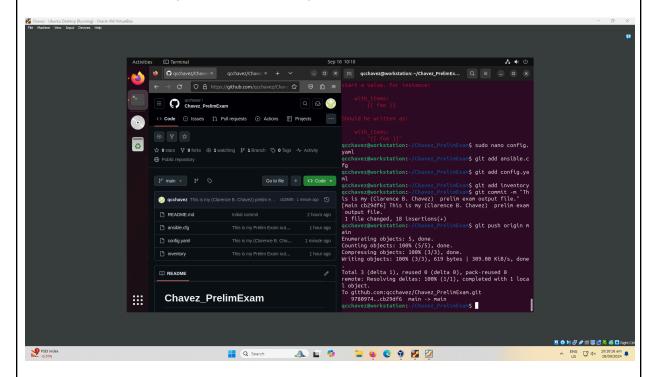






- In this screenshot, I entered a variable (vars) for MOTD, I presented screenshots for both scenarios where I run the ansible playbook with and without variable initiation. If I need to show a message with the use of a variable, I must initiate the variable (in the screenshot, the variable is MOTD). And if I don't need to initiate the variable, I must create a quotation message directly.
  - Create a user with a variable defined in config.yaml





- In this screenshot, I entered **git add (filenames)** to track which files are going to be added to my repository in the github, and also to make sure that I can see that there's any changes on the website, I've added a message in the **git commit** command and also used **git push** to make the changes happen.
- 6. Your document report should be submitted here.
- 7. For your prelim exam to be counted, please paste your repository link here. (Failure to submit will result in ZERO)

https://github.com/gcchavez/Chavez PrelimExam.git

https://github.com/qcchavez/Chavez PrelimExam

8. NO USE OF EXTERNAL WEBSITES SUCH AS , REDDIT, CHATGPT, GITHUB, GEMINI, CLAUDE, FORUMS, AND DOCUMENTATIONS. FAILURE TO COMPLY WITH RESULT IN ZERO.