Jenkins Assignment - Case study

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Tasks:

You have been Hired as a Devops Engineer in xyz software company. They want to implement CI/CD pipeline in their company. You have been asked to implement this lifecycle as fast as possible. As this is a product-based company, their product is available on this GitHub link.

https://github.com/hshar/website.git

Following are the specifications of the Continuous integration:

1. Git Workflow hasto be implemented

2. Code Build should automatically be triggered once commit is made to master branch or develop branch.

If commit is made to master branch, build and publish website on

port 82. If commit is made to develop branch, just build the

product, do not publish.

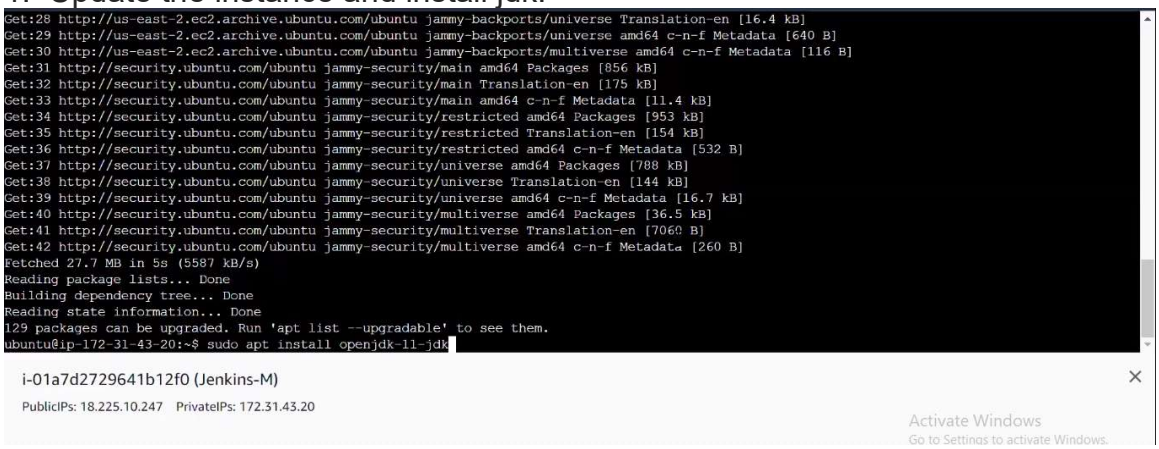
3. Create a pipeline for the above tasks.

4. Create a container with Ubuntu and apache installed in it and use that container to build the code and the code should be on '/var/www/html'.

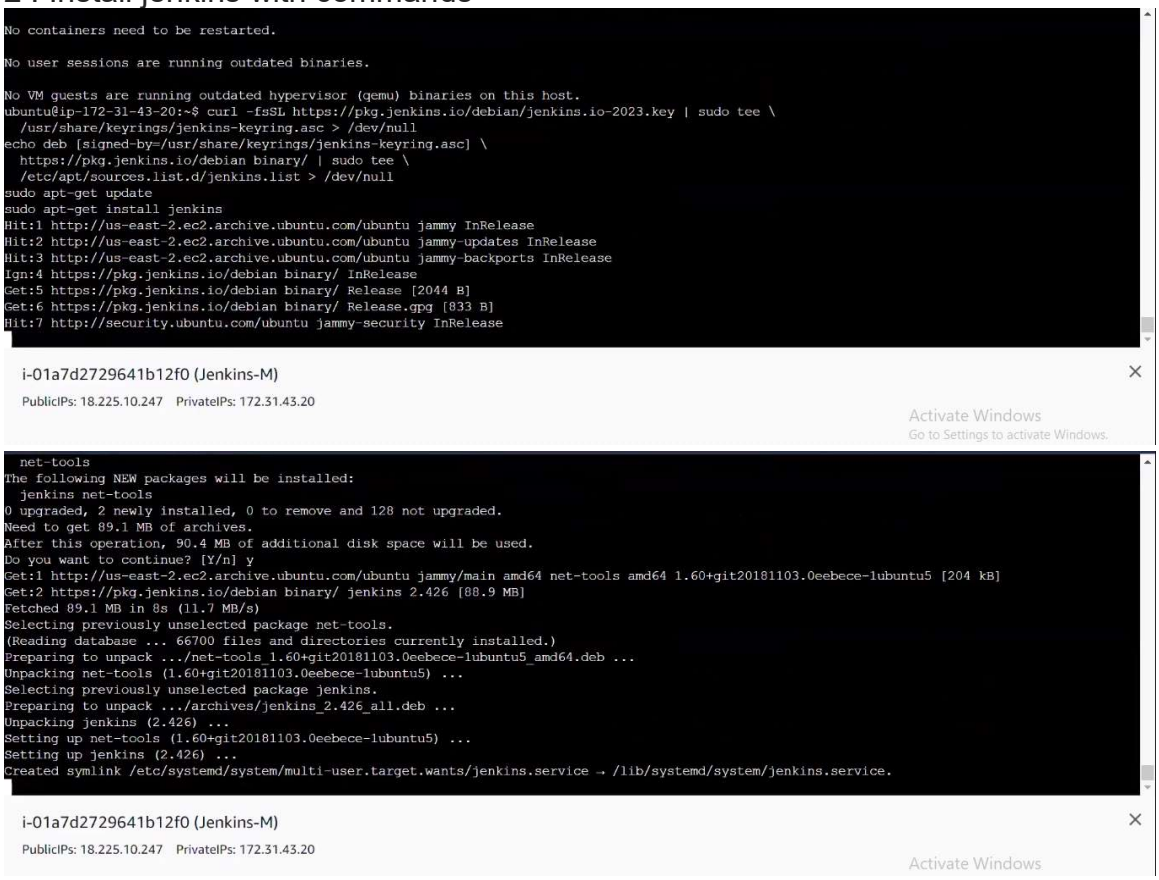
Solution:

Steps:

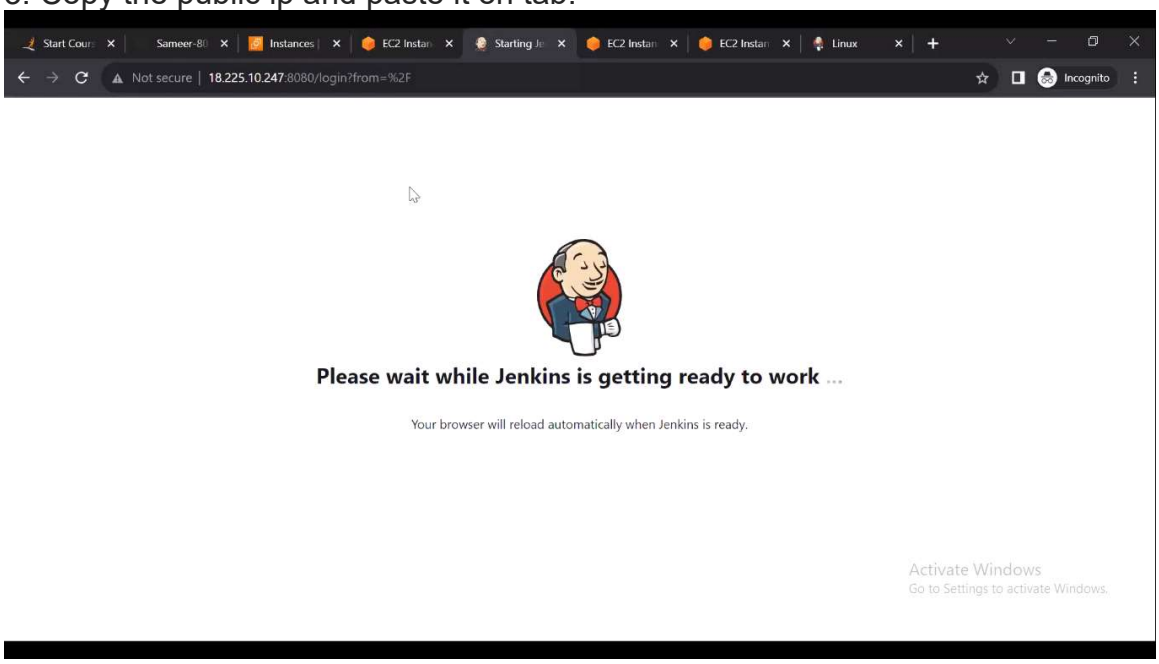
1. Update the instance and install jdk.



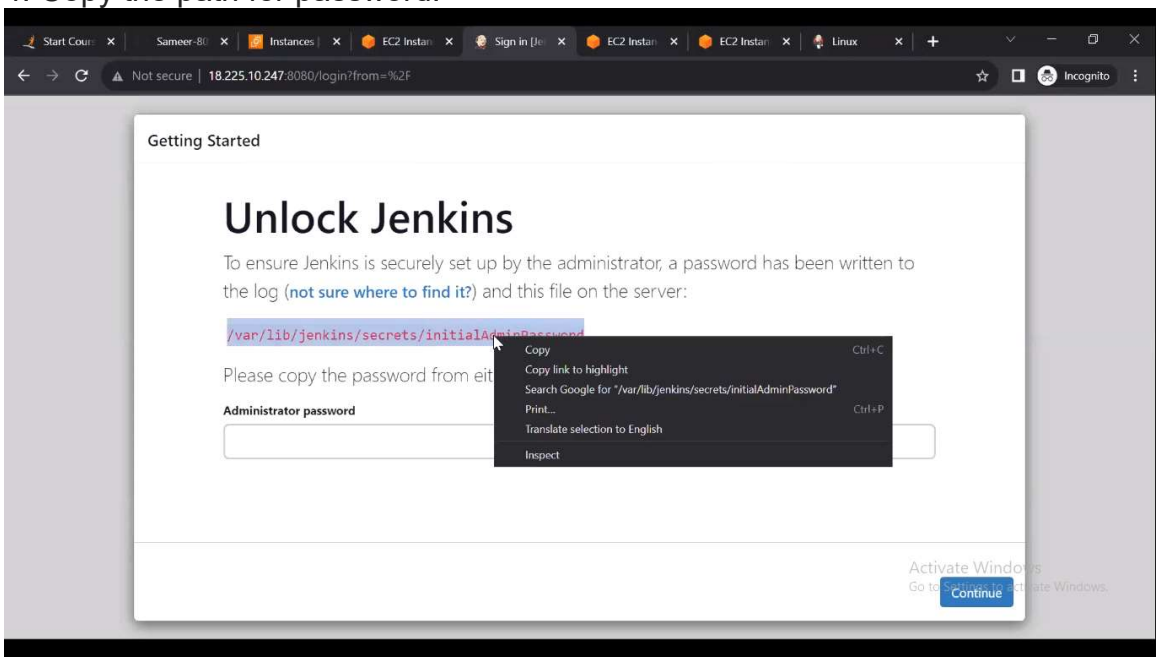
2 . Install jenkins with commands



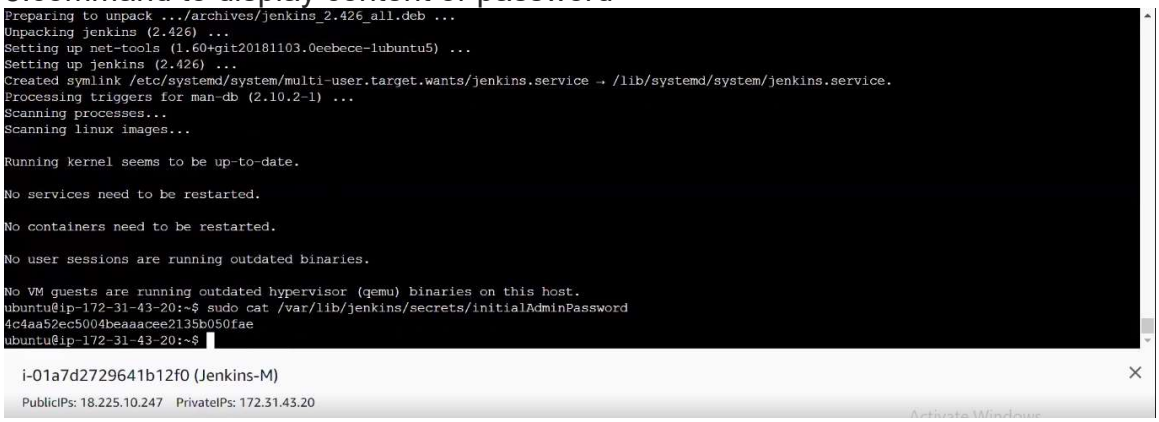
3. Copy the public ip and paste it on tab.



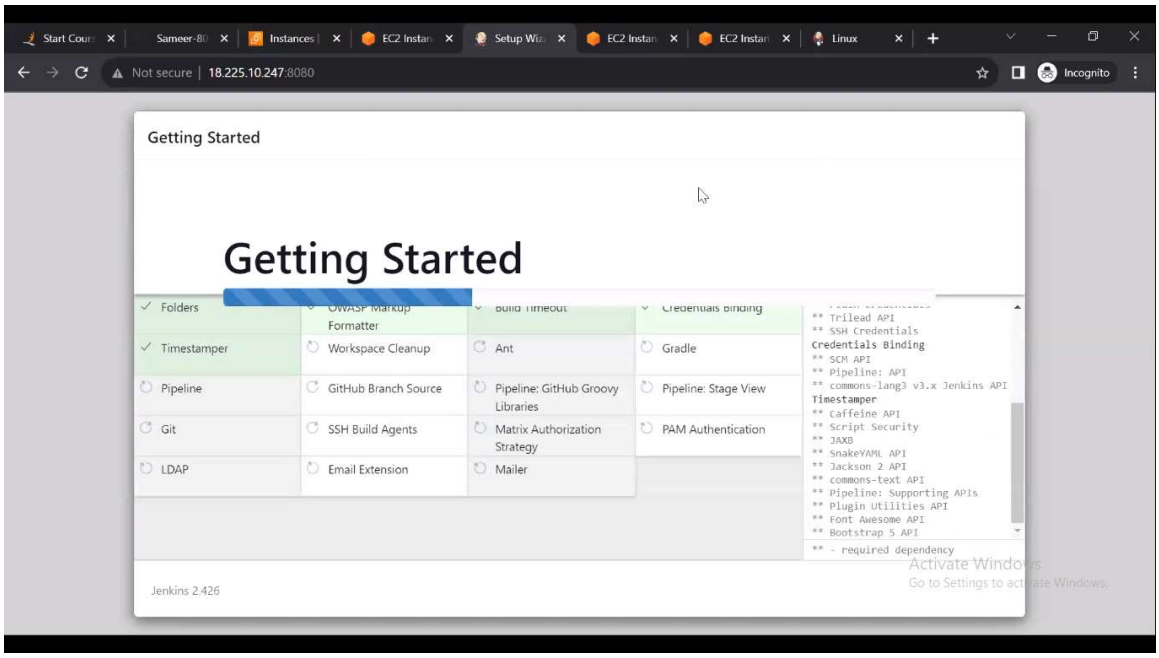
4. Copy the path for password.



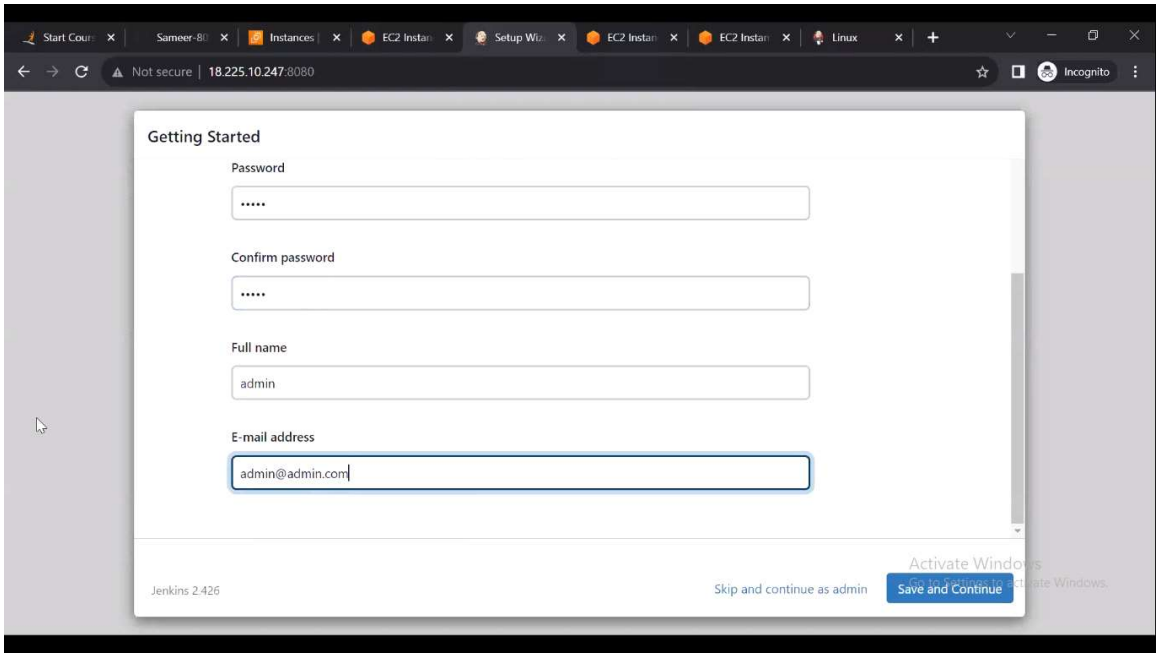
5.command to display content or password

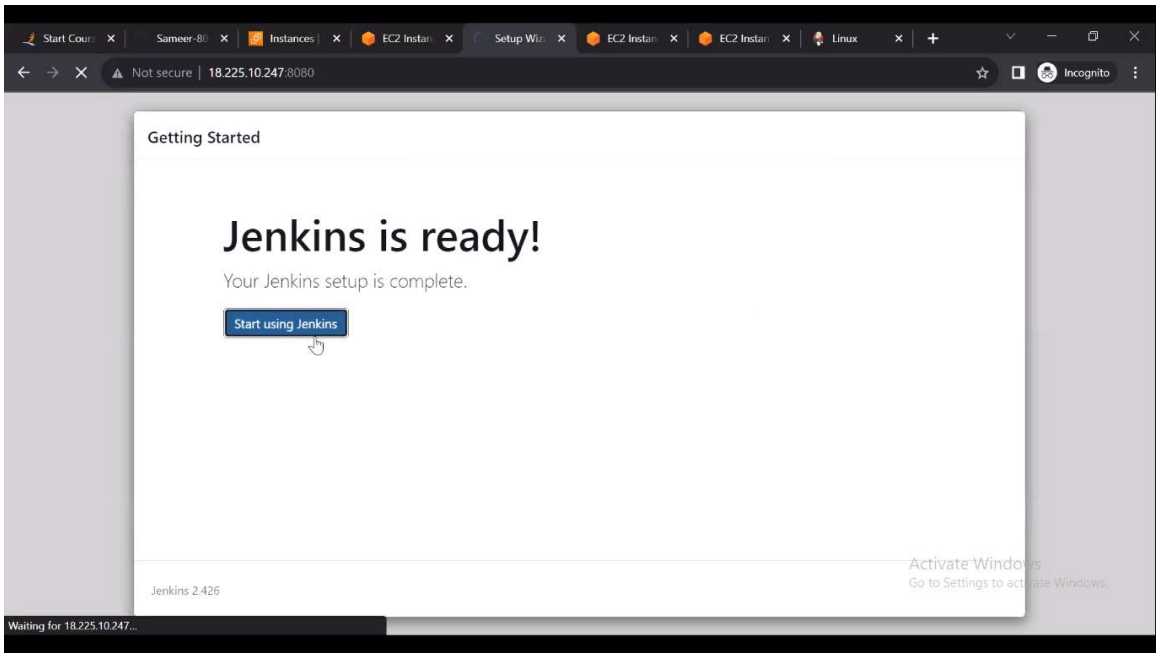


6. Copy the password and paste in browser window. Click on continue.

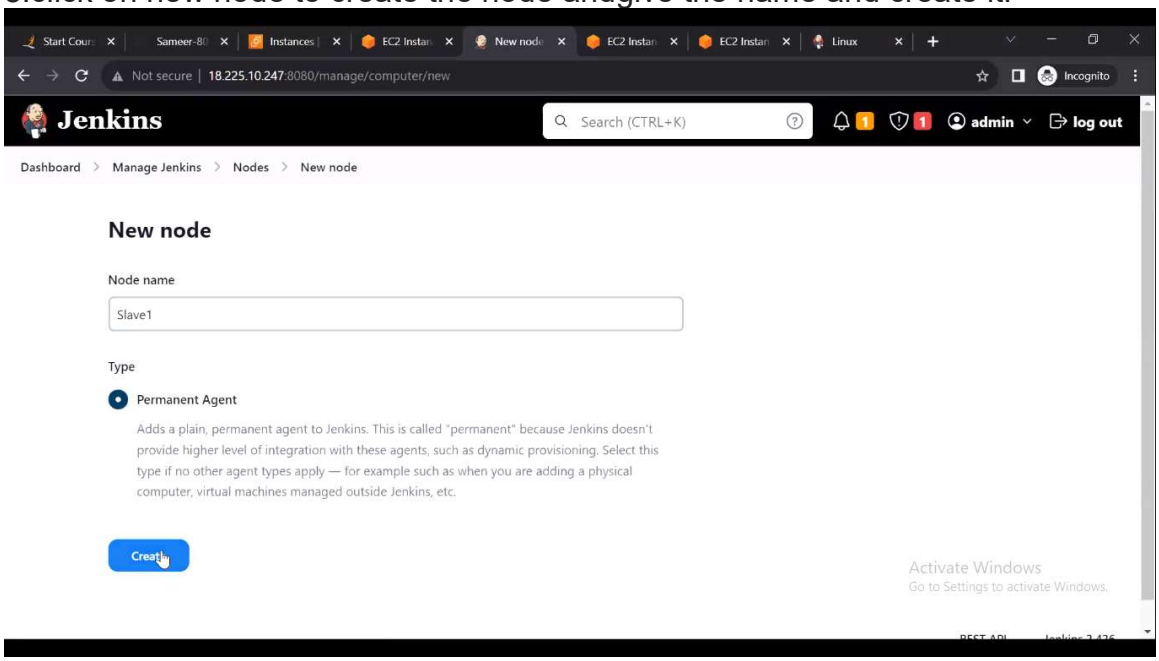


7.select install suugested plugins. Give or create the credentials ...click save and continue.

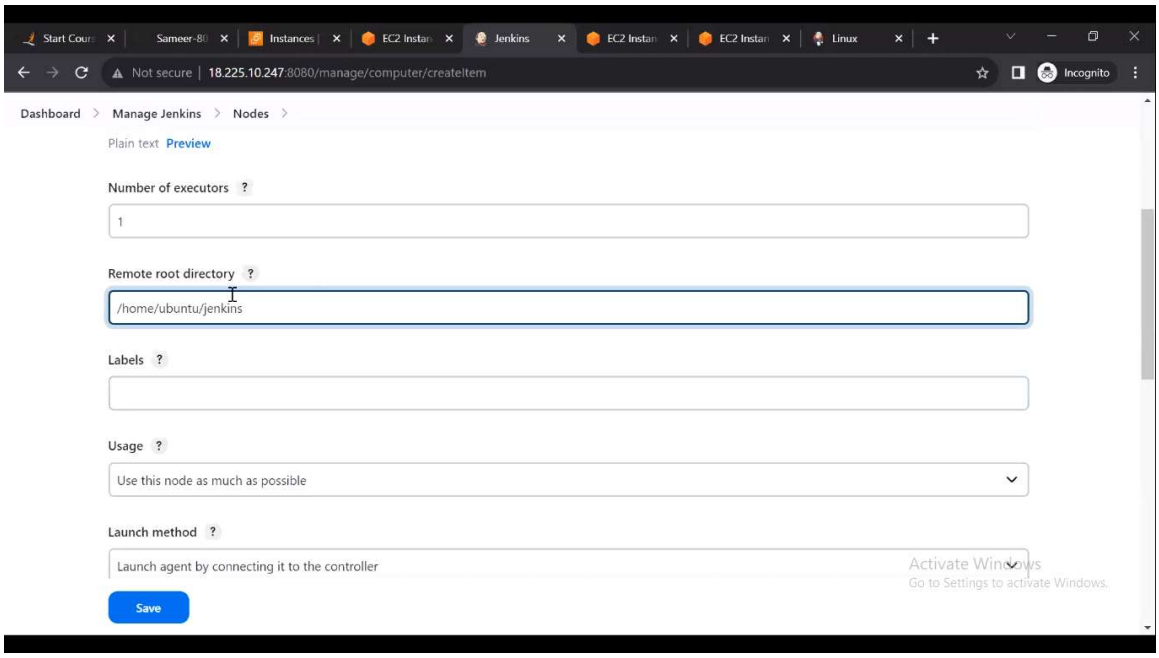




8.click on new node to create the node andgive the name and create it.

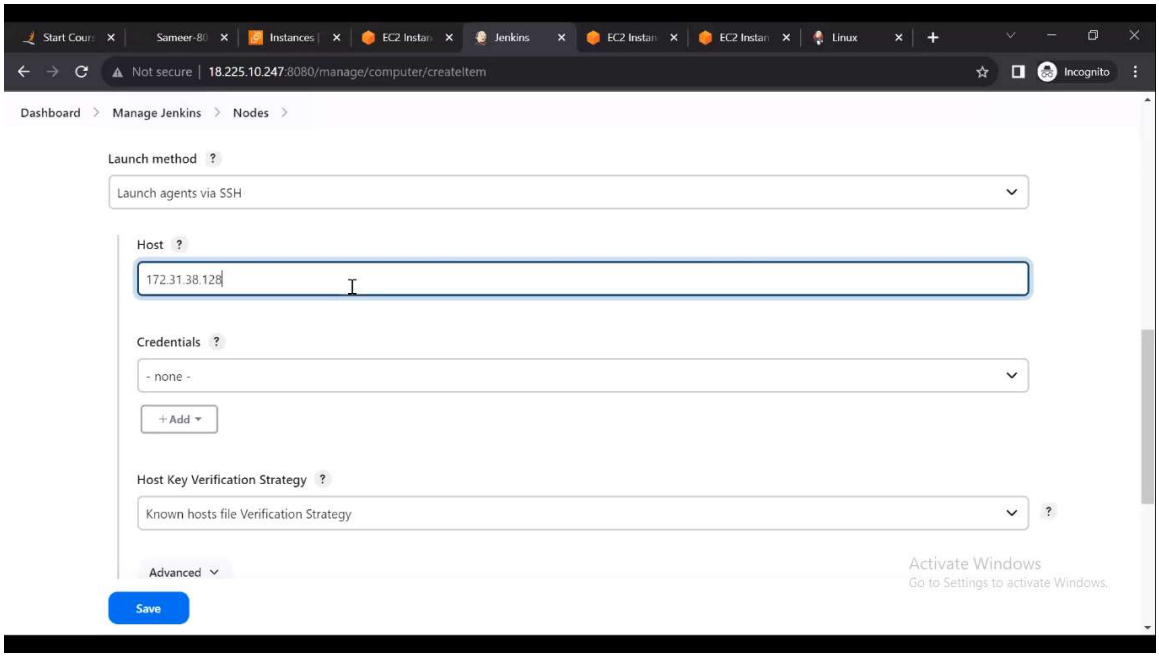


9. Give remote root directory to create folders

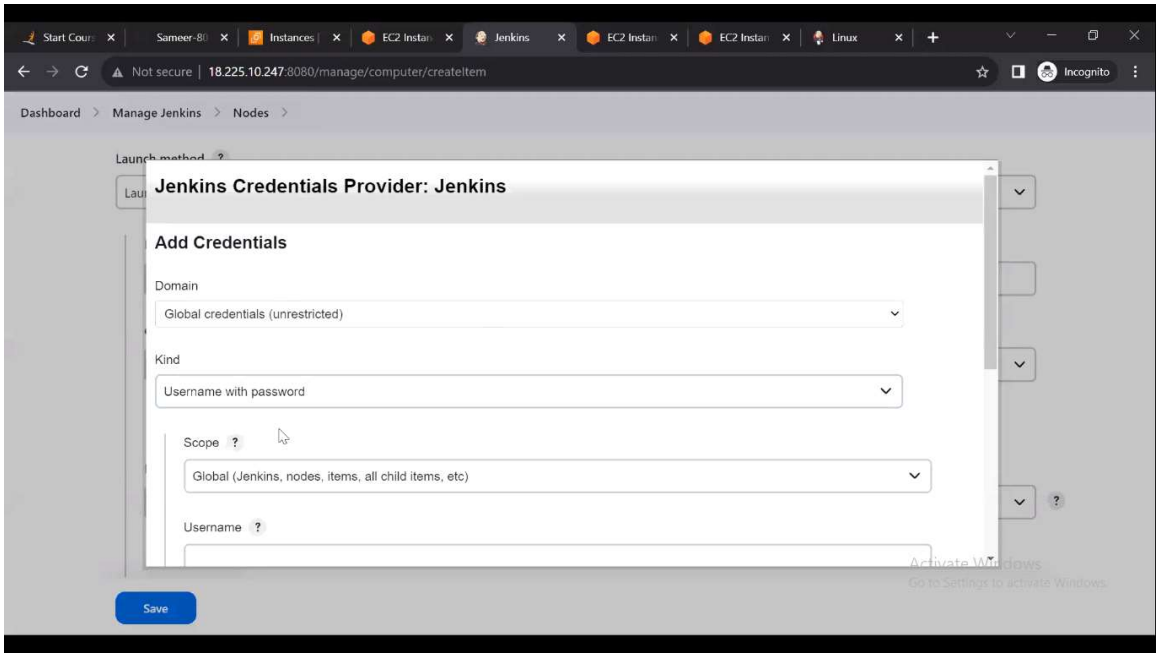


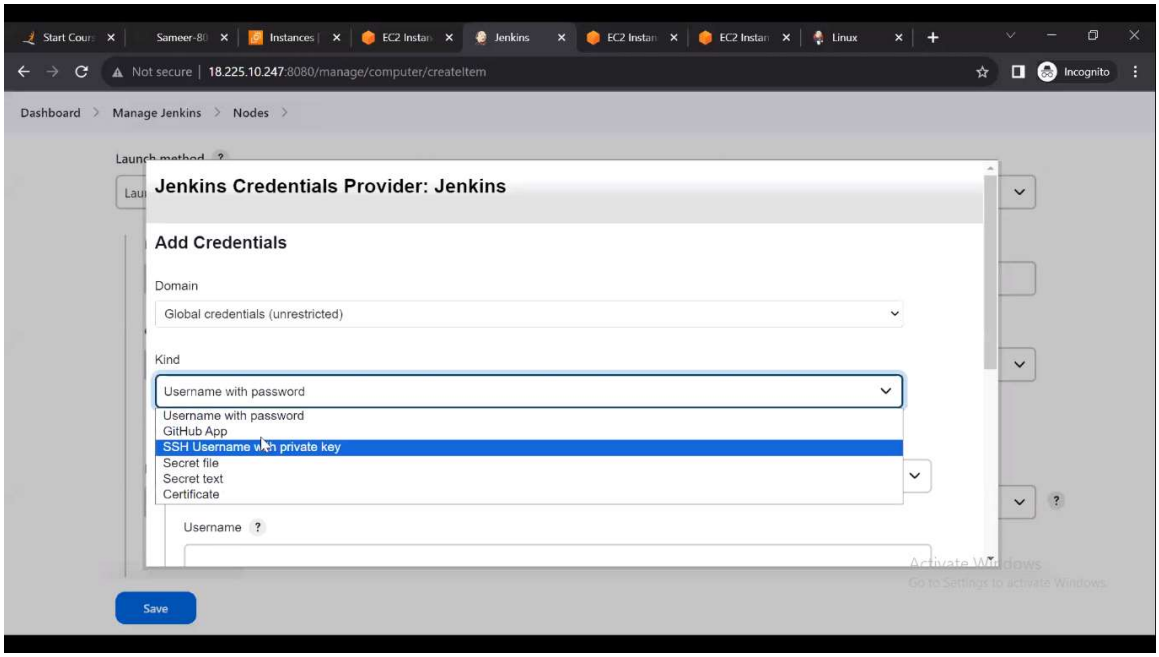
10.select launch with ssh

-Copy private ip from instance connect and paste it in host section

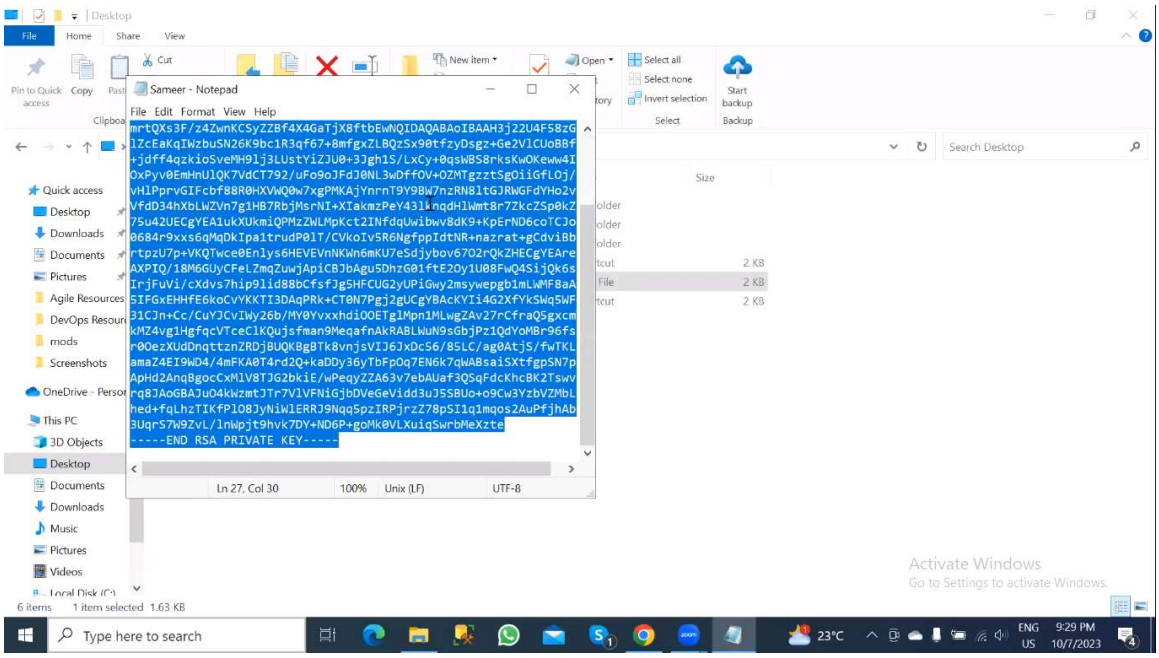


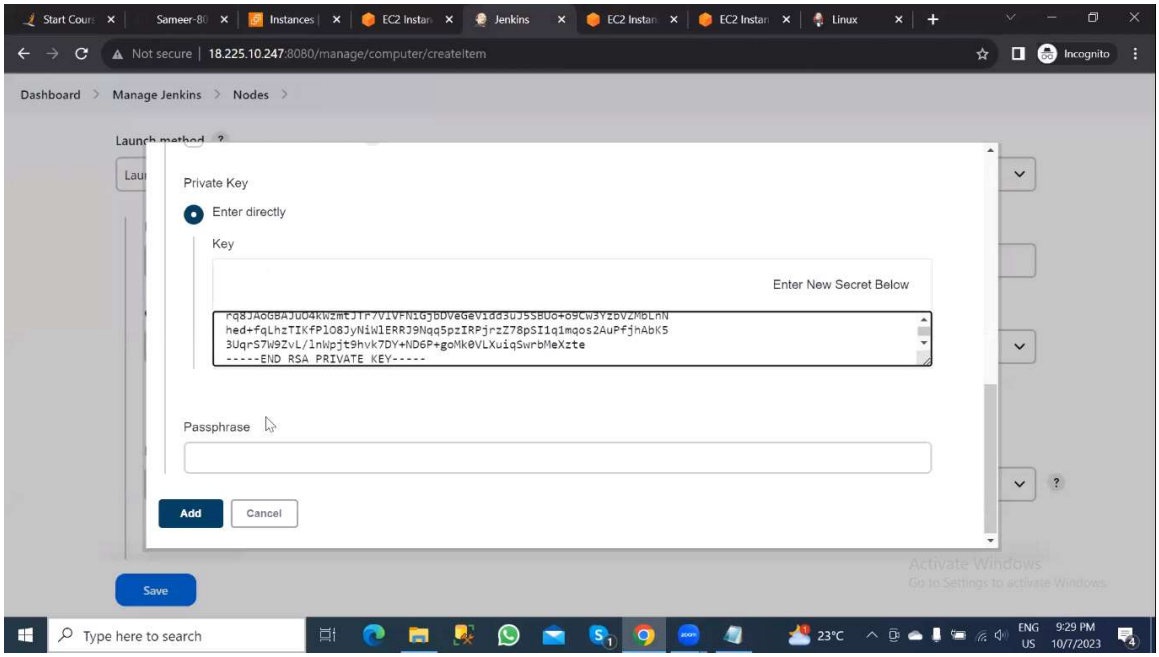
11.click on add credentials select ssh with privare kely give username.selct enter directly.



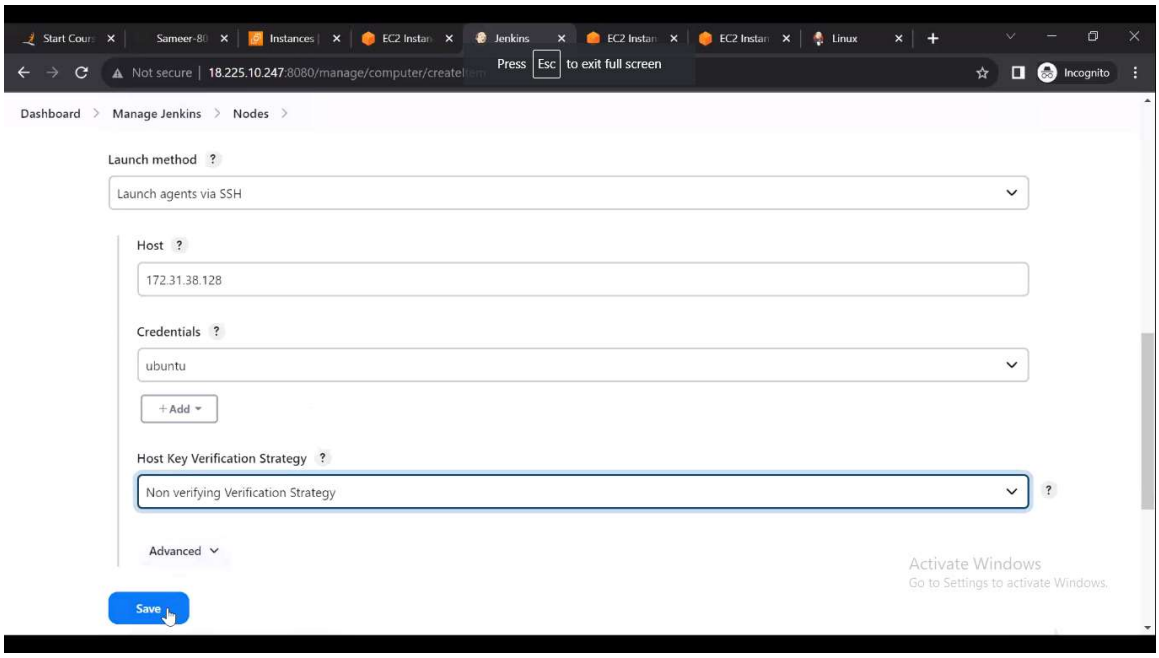


12.open the pem key copy the content and paste in the private key box and click on add.

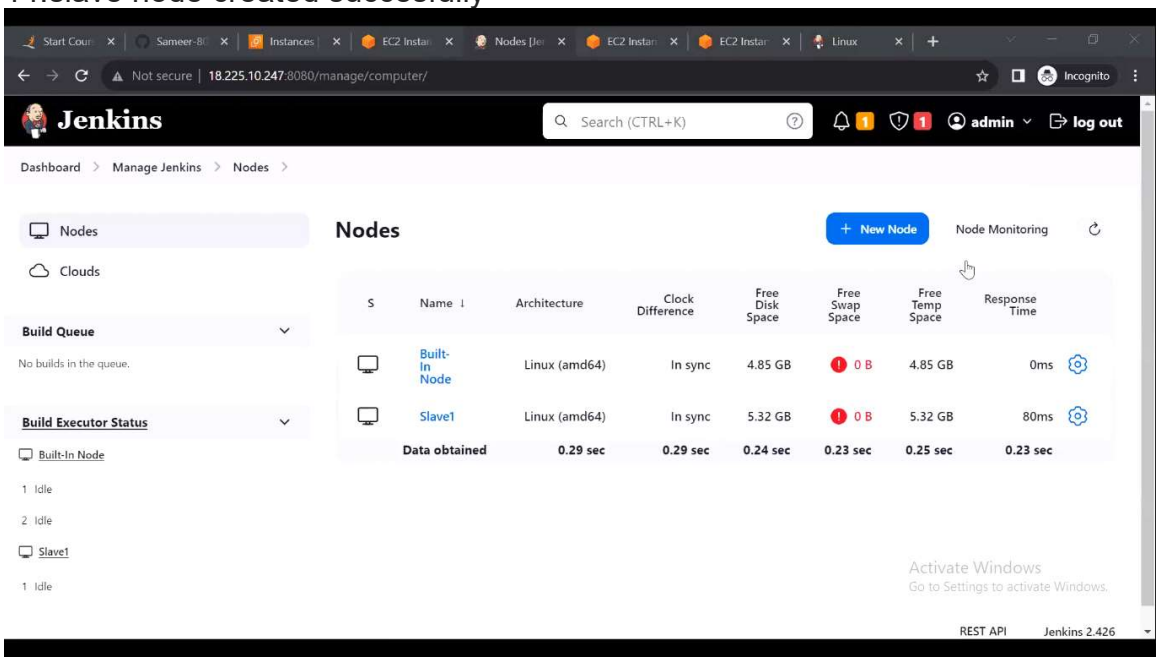




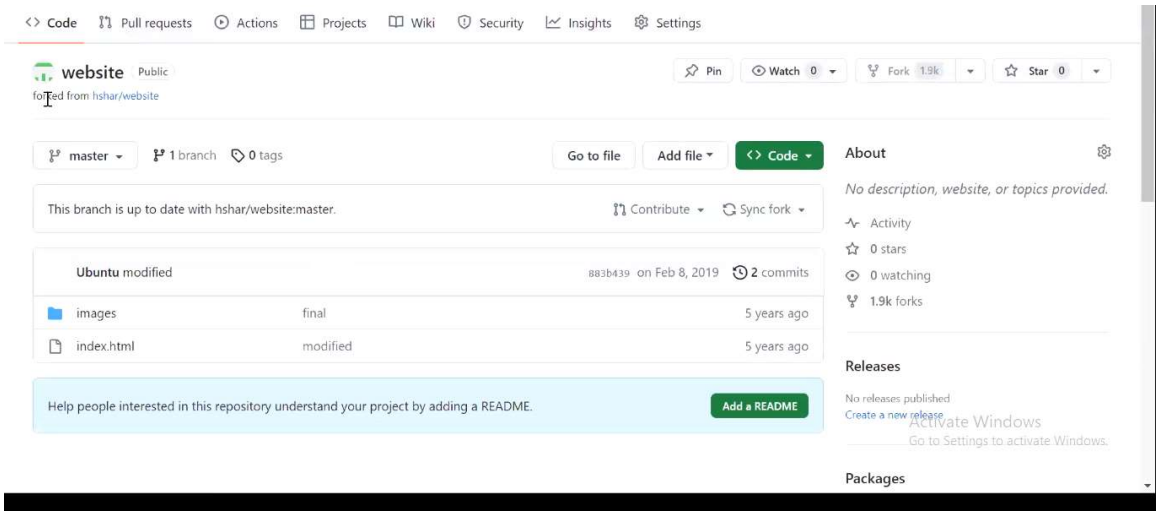
13. Select the *non verifying strategy* host key verfication strategy and click on save



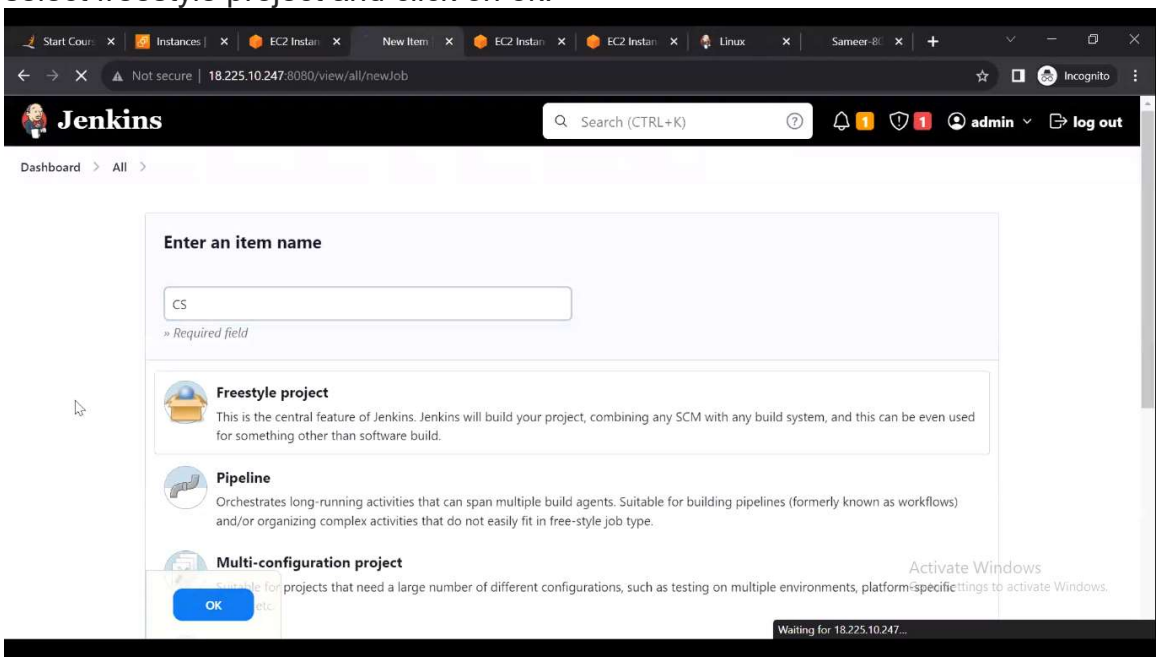
14.slave node created succesfully



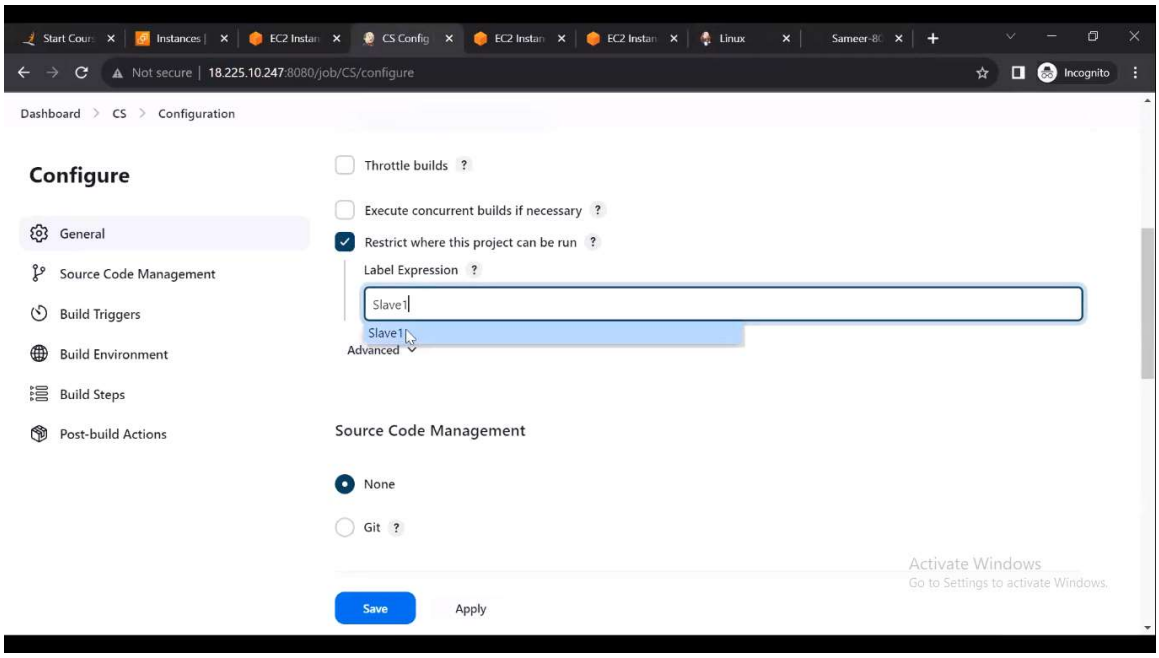
15. Open the repository that provided



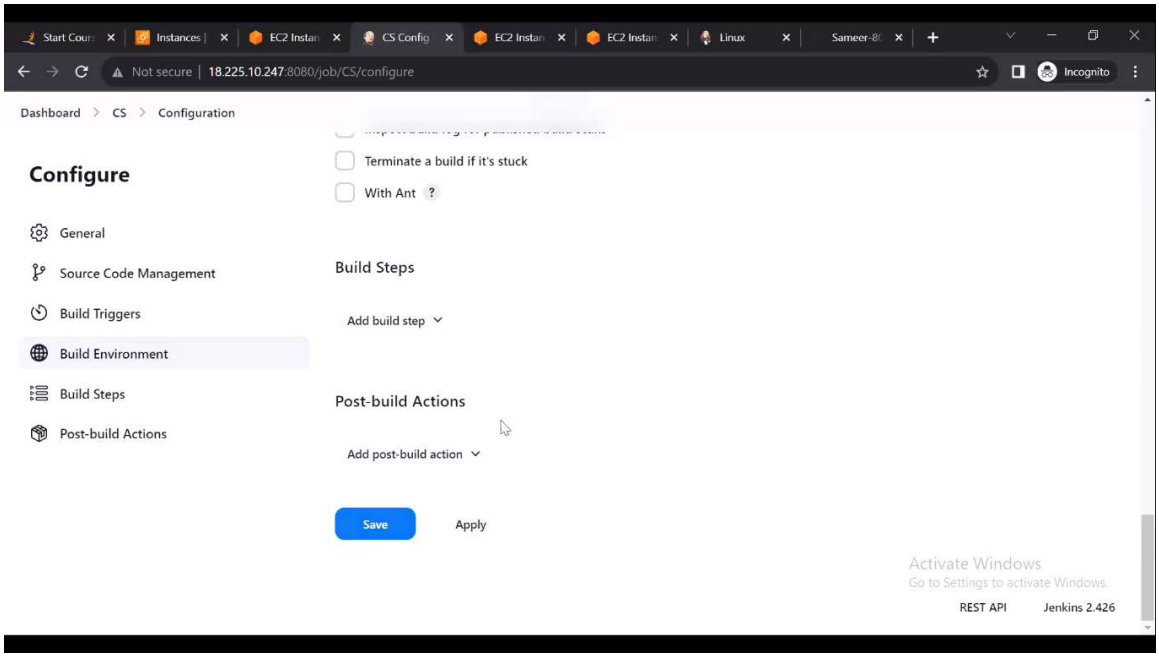
16. Click on fork to create fork and then click on new item and name the item select freestyle project and click on ok.



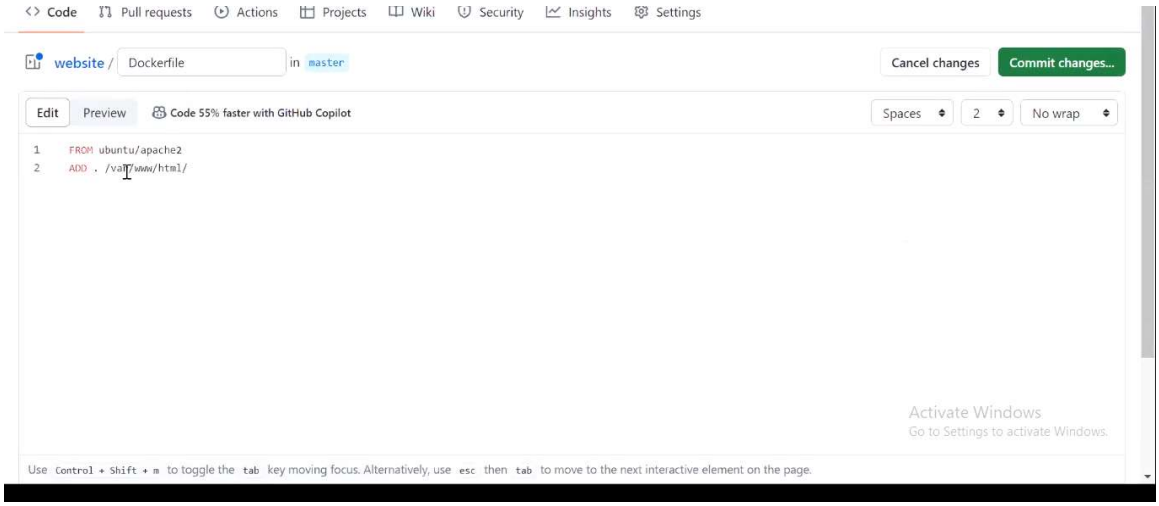
17. Select restrict where give label as slave1



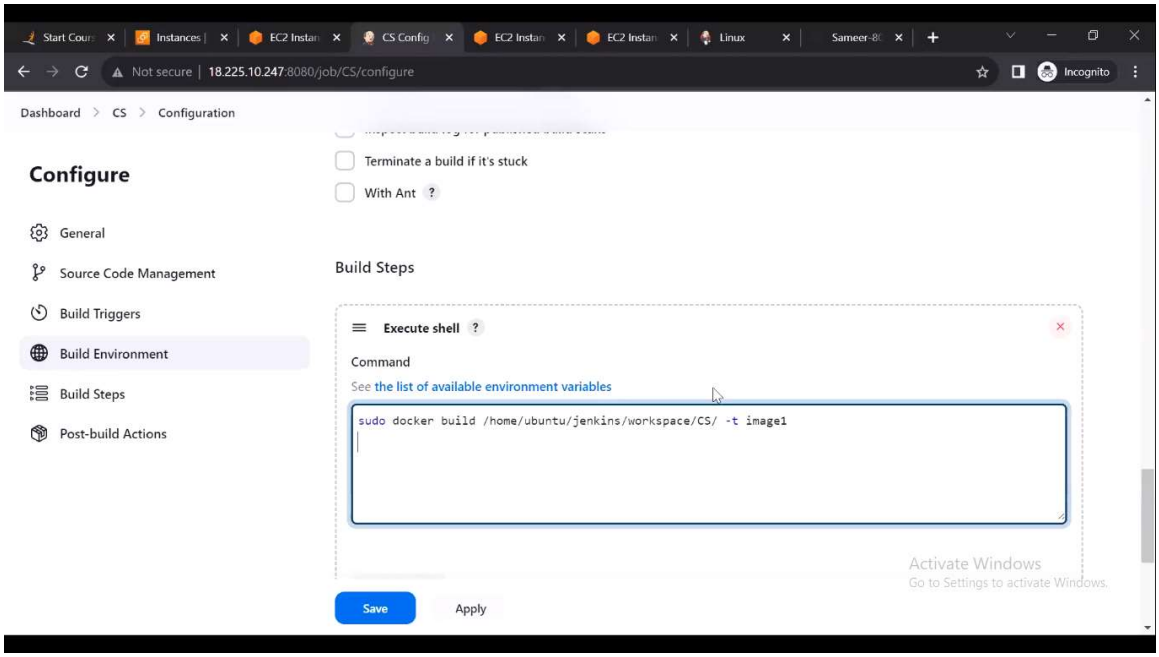
18. Select git and give repository url and click on save.

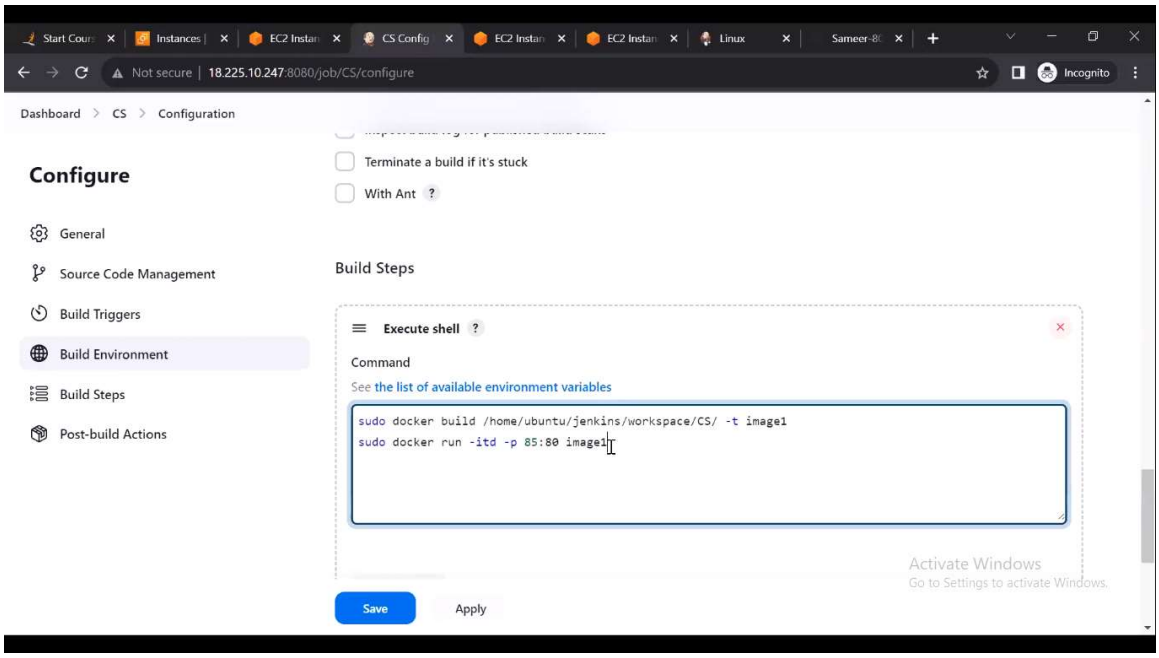


19. Create a new fike ie docker file.

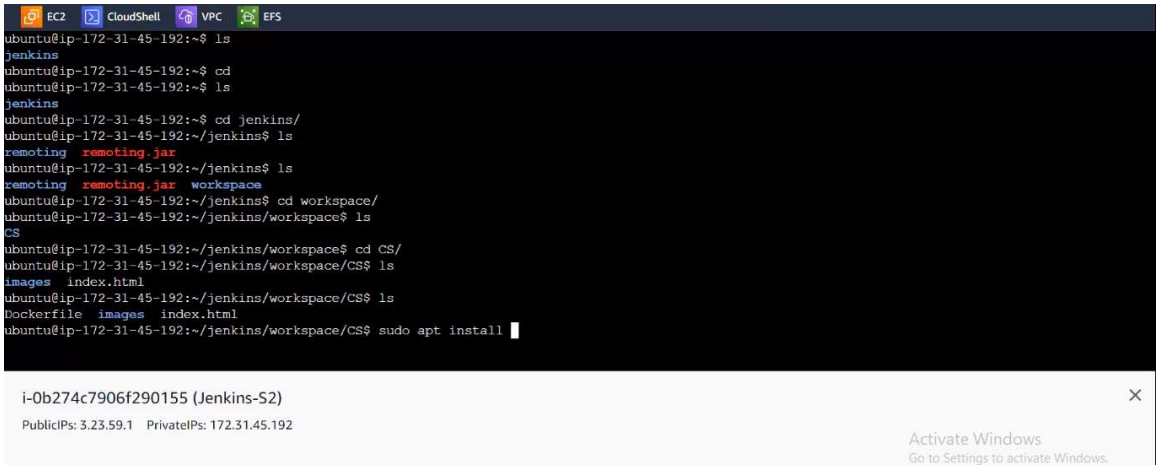


20. Configurtaion of the job. And click on save.

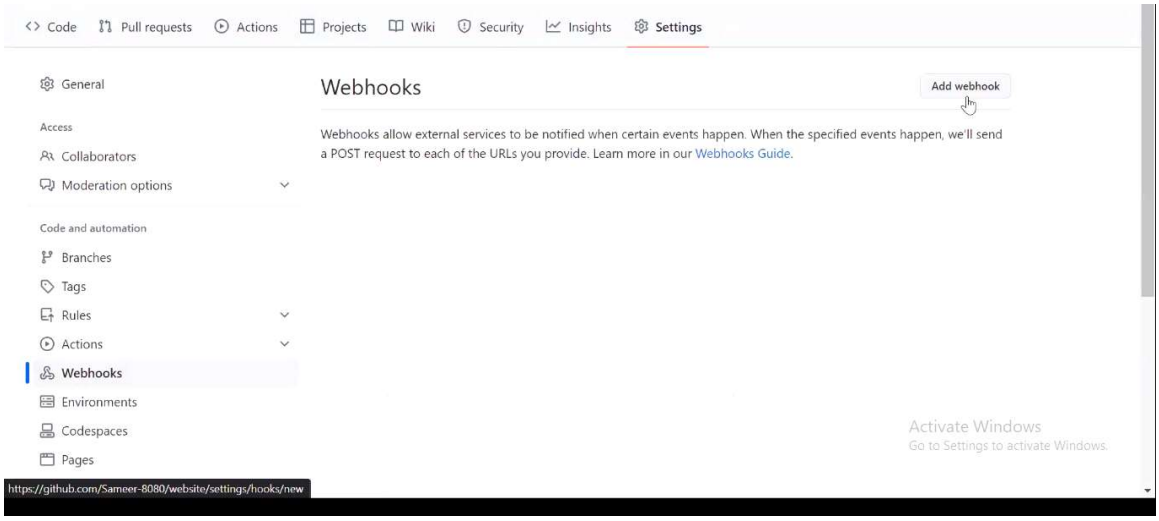




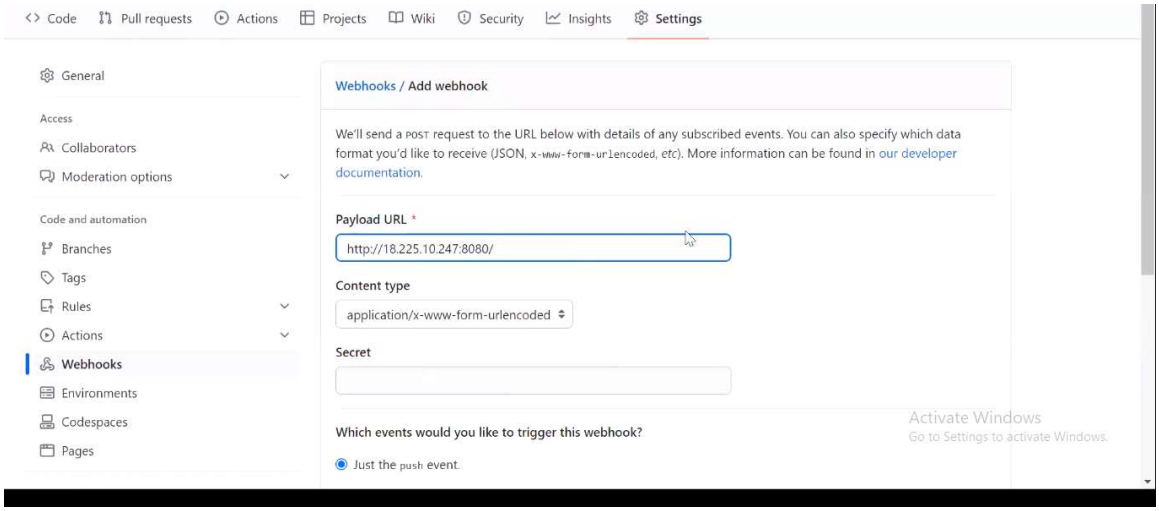
21.Install docker and check output



22. Create the webhook for automatically triggering function

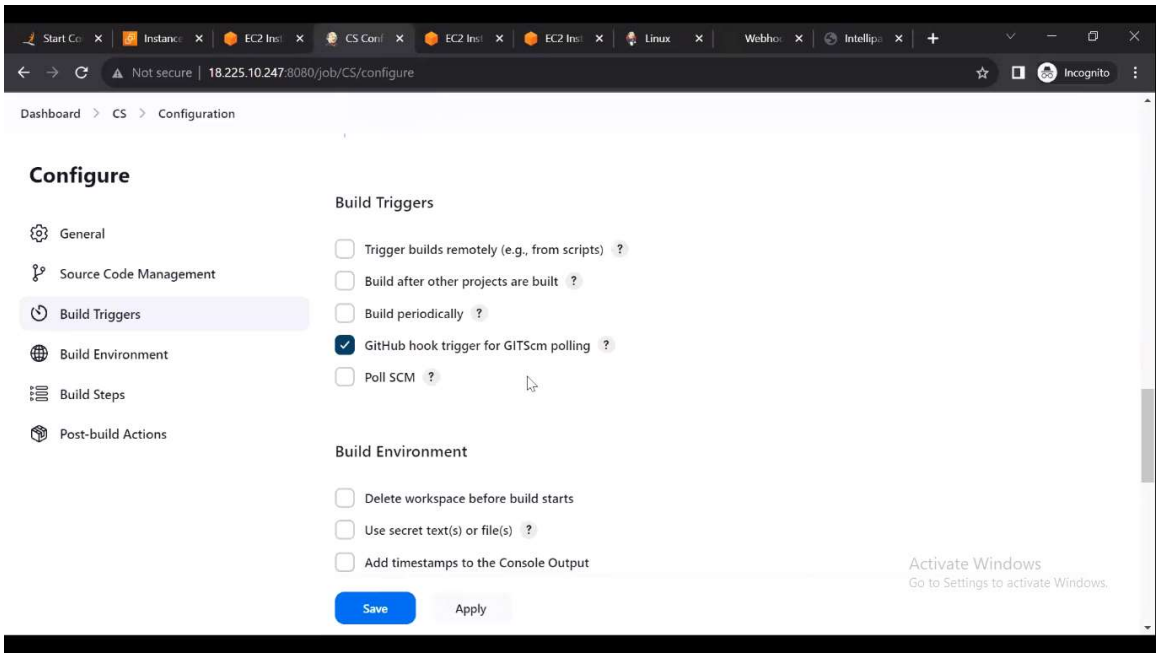


23.give genkins url in payload url abd click on add webhook.



24.configure the job select the github hook trigger click on save.

-Make the changes in the file in repository and check for trigger function


Not secure | 18.225.10.247:8080/job/CS/configure
Incognito
Dashboard > CS > Configuration
Configure
General
Source Code Management
Build Triggers
Build Environment
Build Steps
Post-build Actions
Build Triggers
Trigger builds remotely (e.g., from scripts)
Build after other projects are built
Build periodically
GitHub hook trigger for GITScm polling
Poll SCM
Build Environment
Delete workspace before build starts
Use secret text(s) or file(s)
Add timestamps to the Console Output
Activate Windows
Go to Settings to activate Windows.
Save
Apply