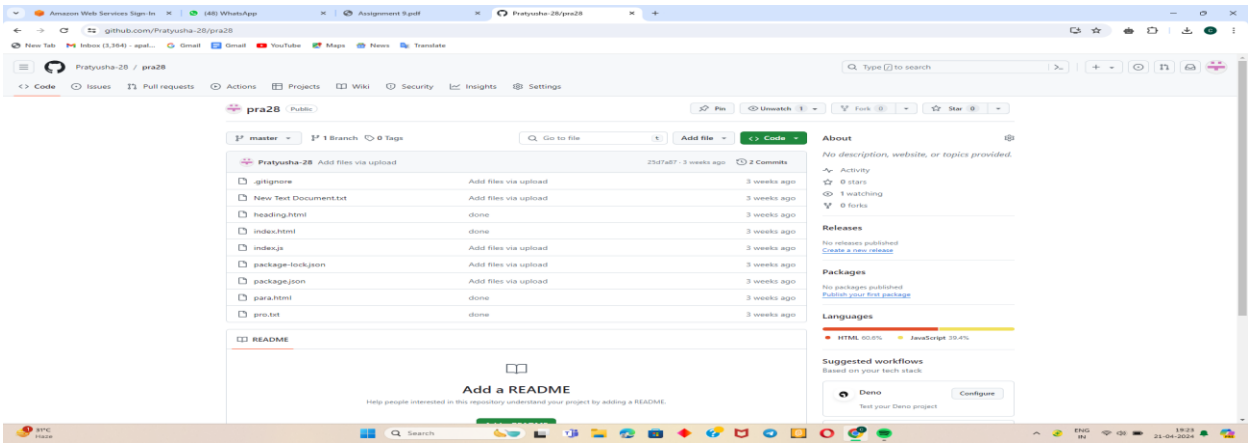
Assignment No : 9

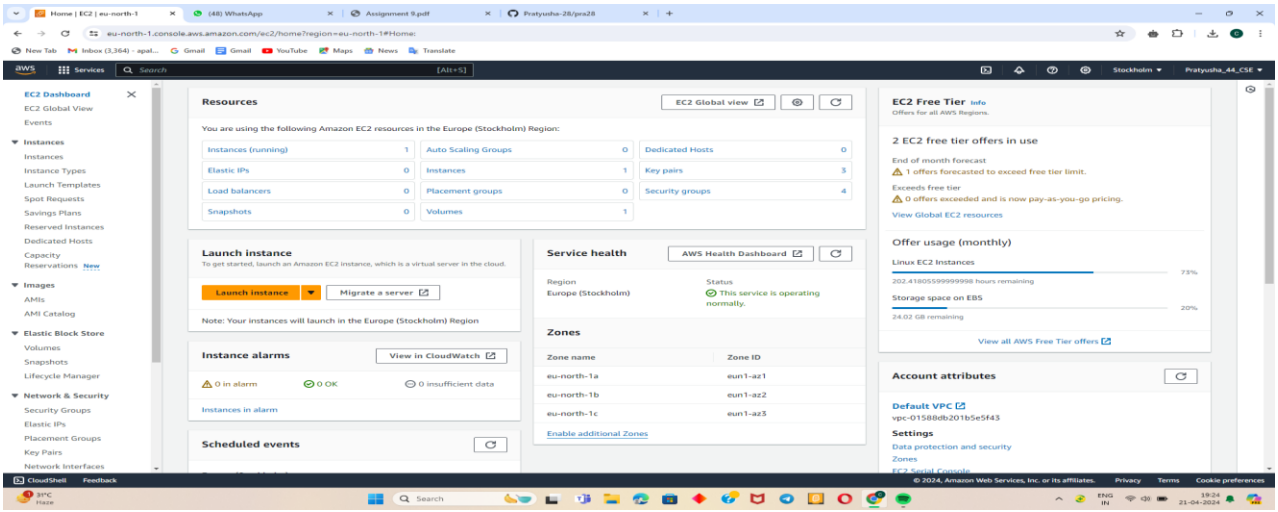
Problem Statement : Deploy a project from GitHub on EC2.

Steps :-

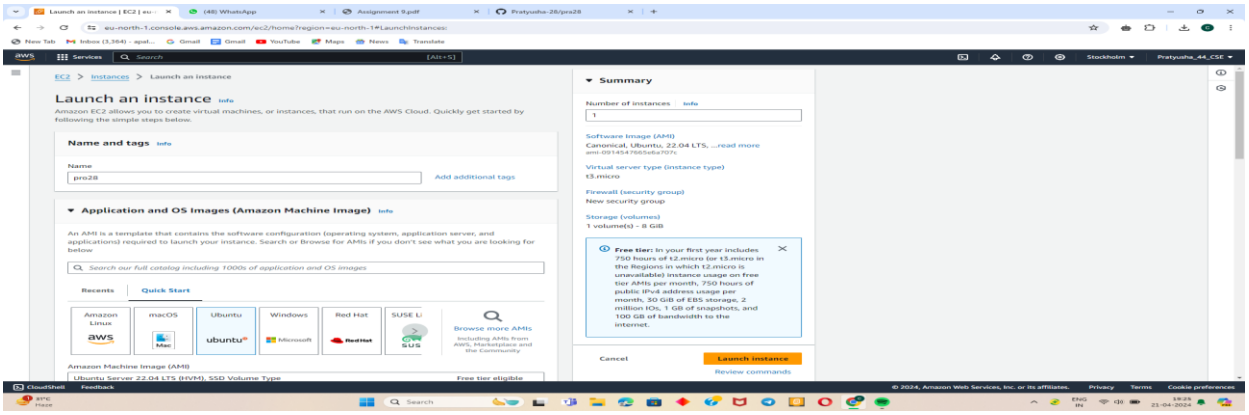
1. At first upload files(repo) to GitHub.



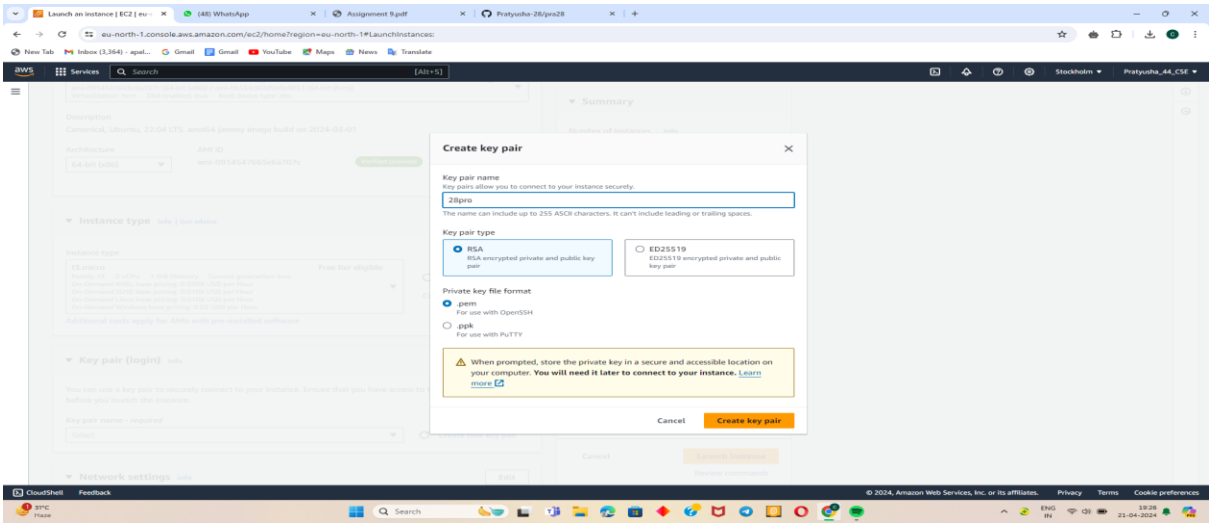

2. Now open EC2 and go to Launch Instance.



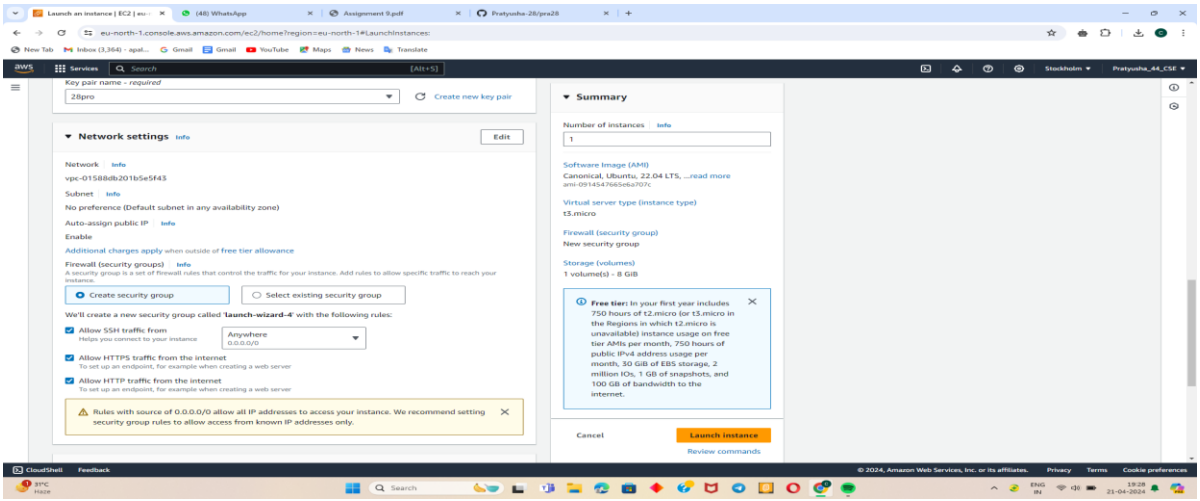

3. Now give name of server which should be unique and select Ubuntu application and OS image inside quick start.



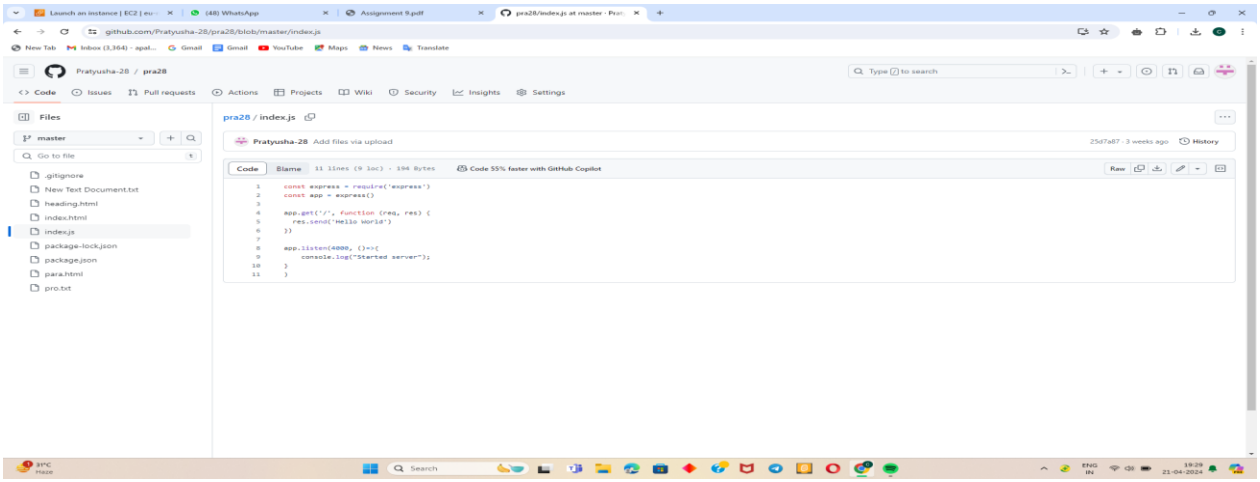

4. Now generate new key pair, give name(unique) and now click Create Key Pair and also download the document.



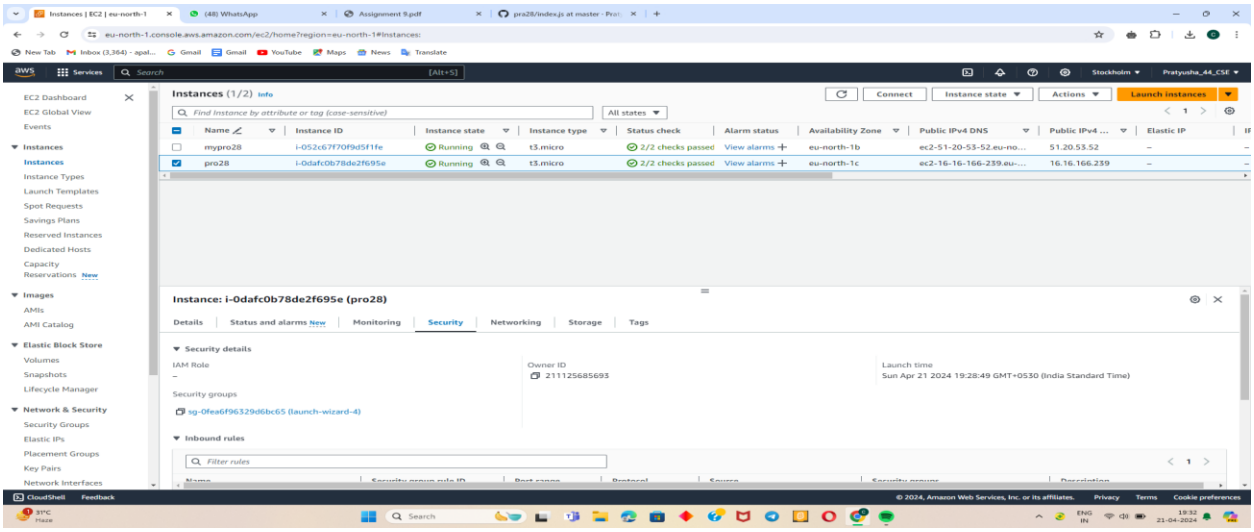

5. After that select Create security group and click all checkboxes bellow it. After it click on Launch Instance.



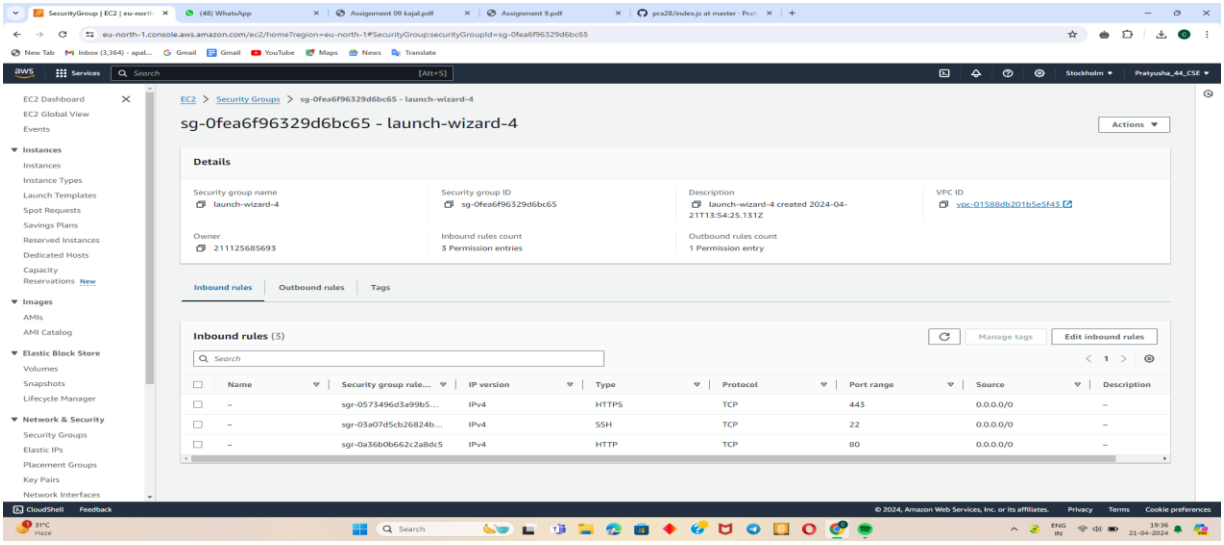
6. Now go to GitHub that project and then to index.js ,there you can see 4000 in app.listen which is port no that will be added to custom TCP.



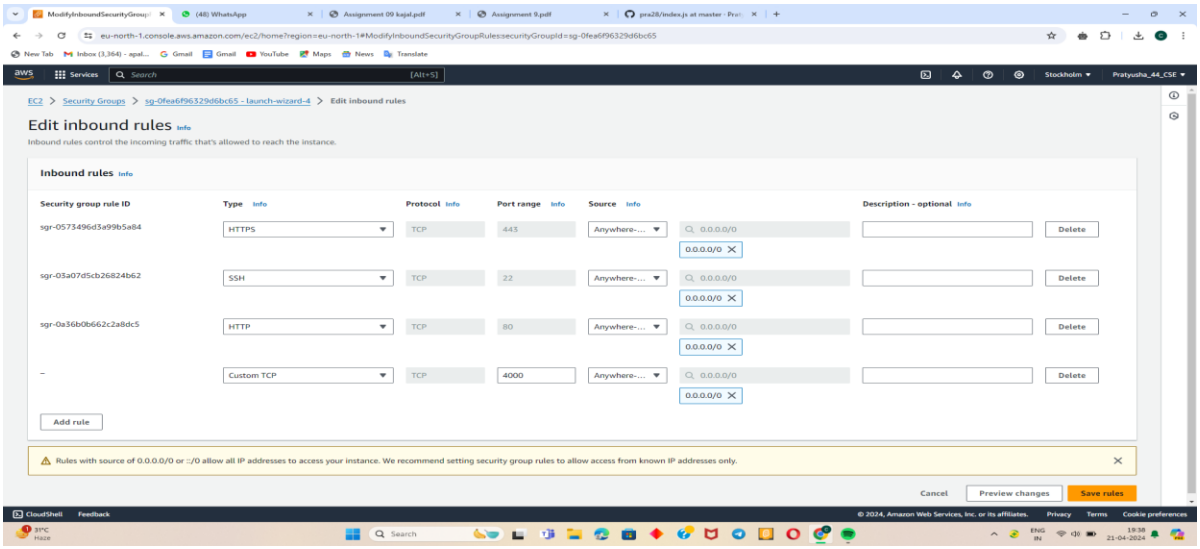

7. After it go back to EC2 instances then select that instance newly made and click on Security tab and then Security groups.



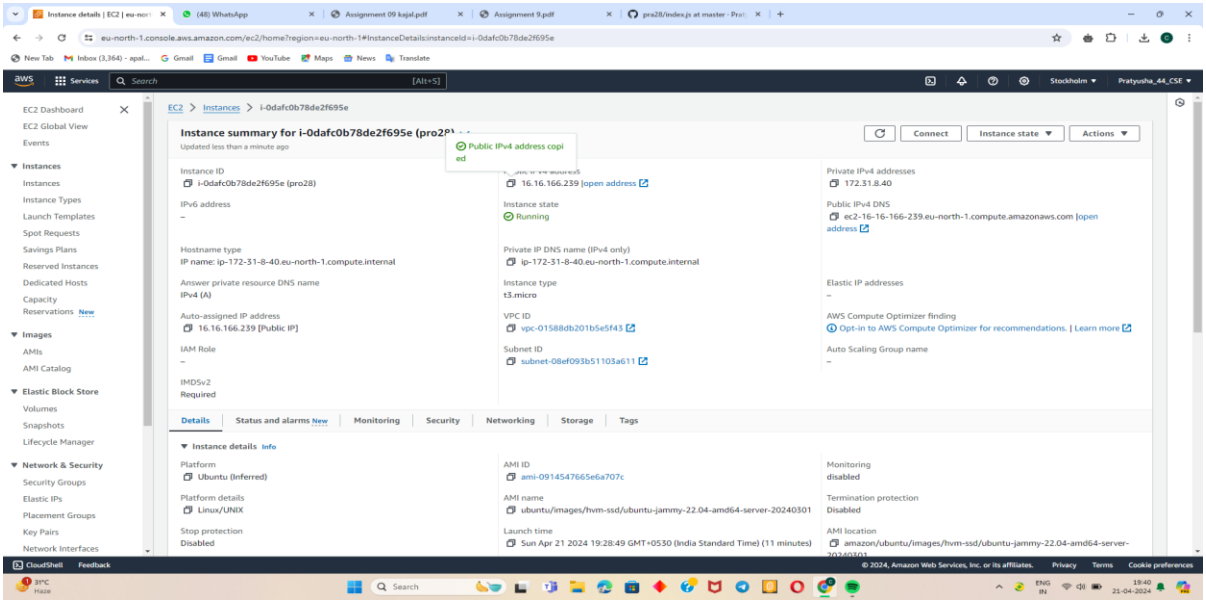
8. After in Inbound rules section click on Edit inbound rules.



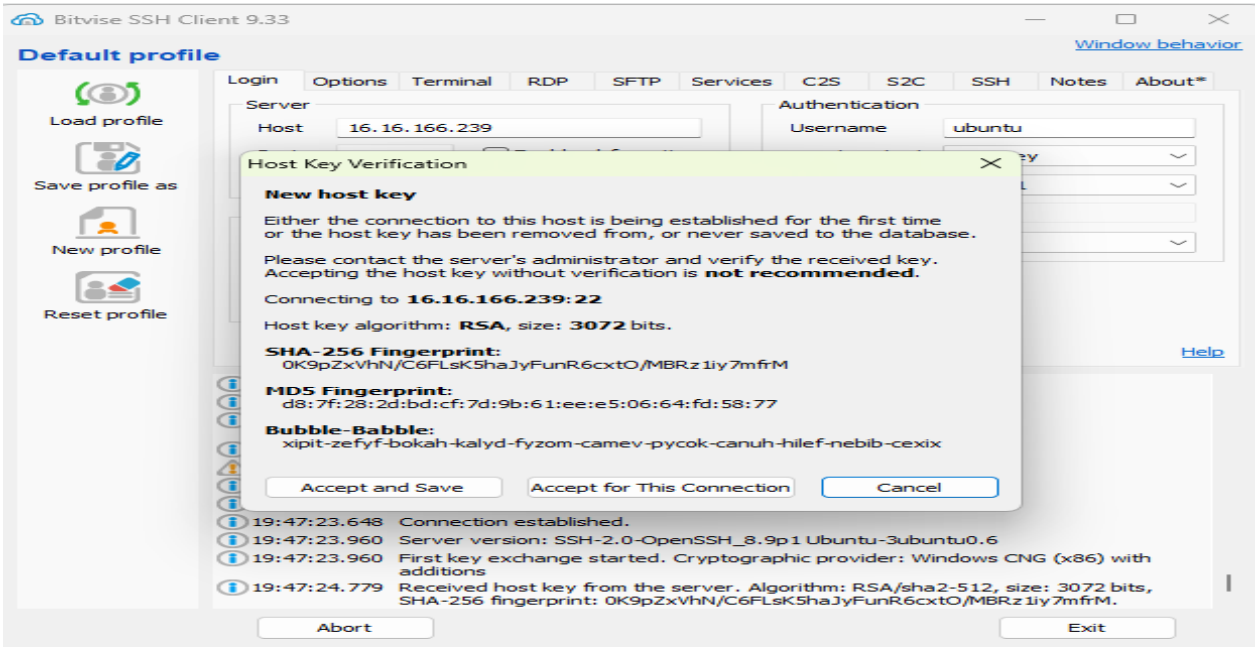

9. Then in inbound rules, click on Add rule select Custom TCP ,give port range 4000 and select 0.0.0.0/0 and then click on Save rules.



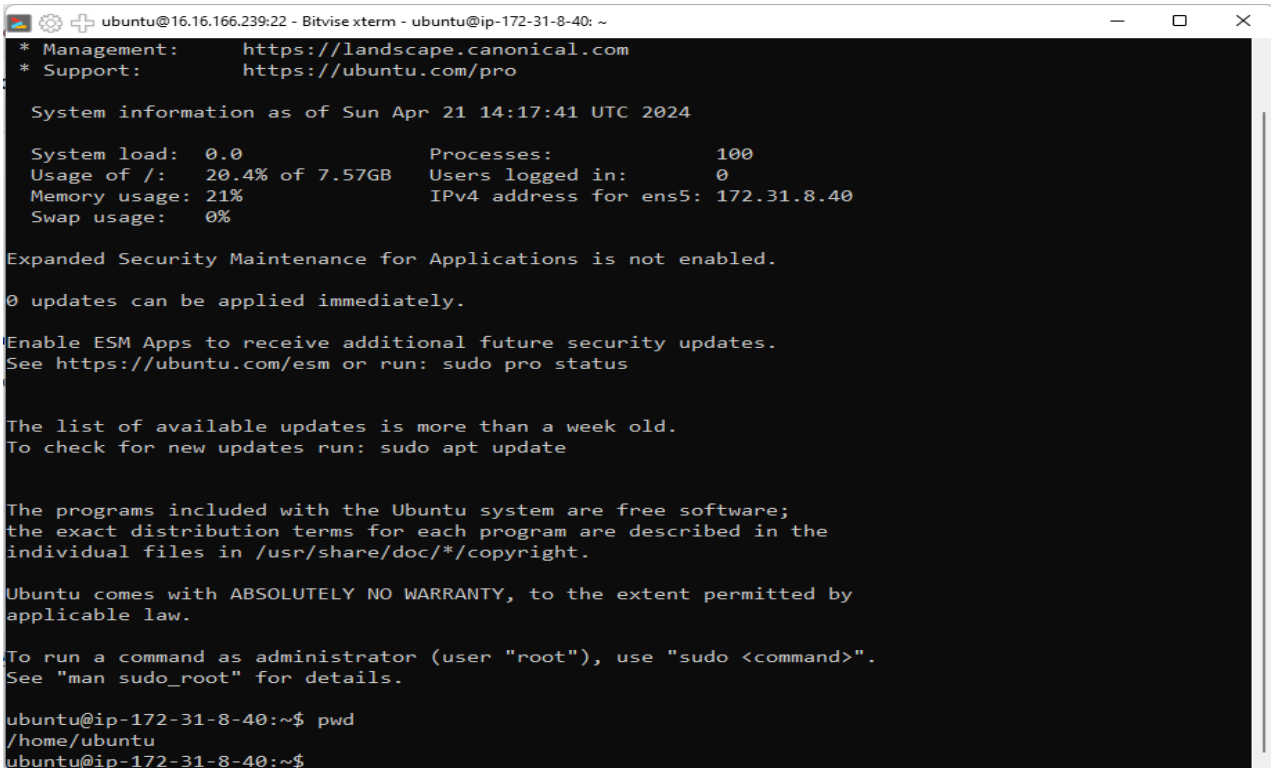
10. Now go back to EC2 recently created instance and copy the public IPv4 address.



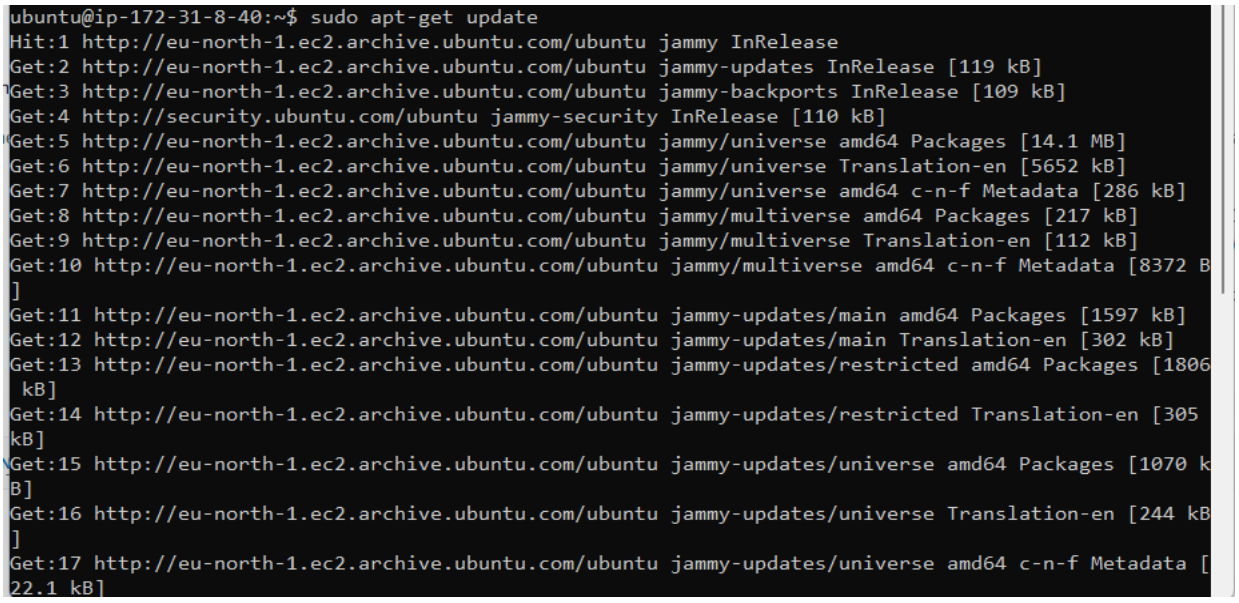

11. Now open Bitvise SSH, go to Client key manager and import that downloaded key and then after that paste the copied IPv4 public address in host and then login and also do Accept and Save, also set publickey as global 2 .



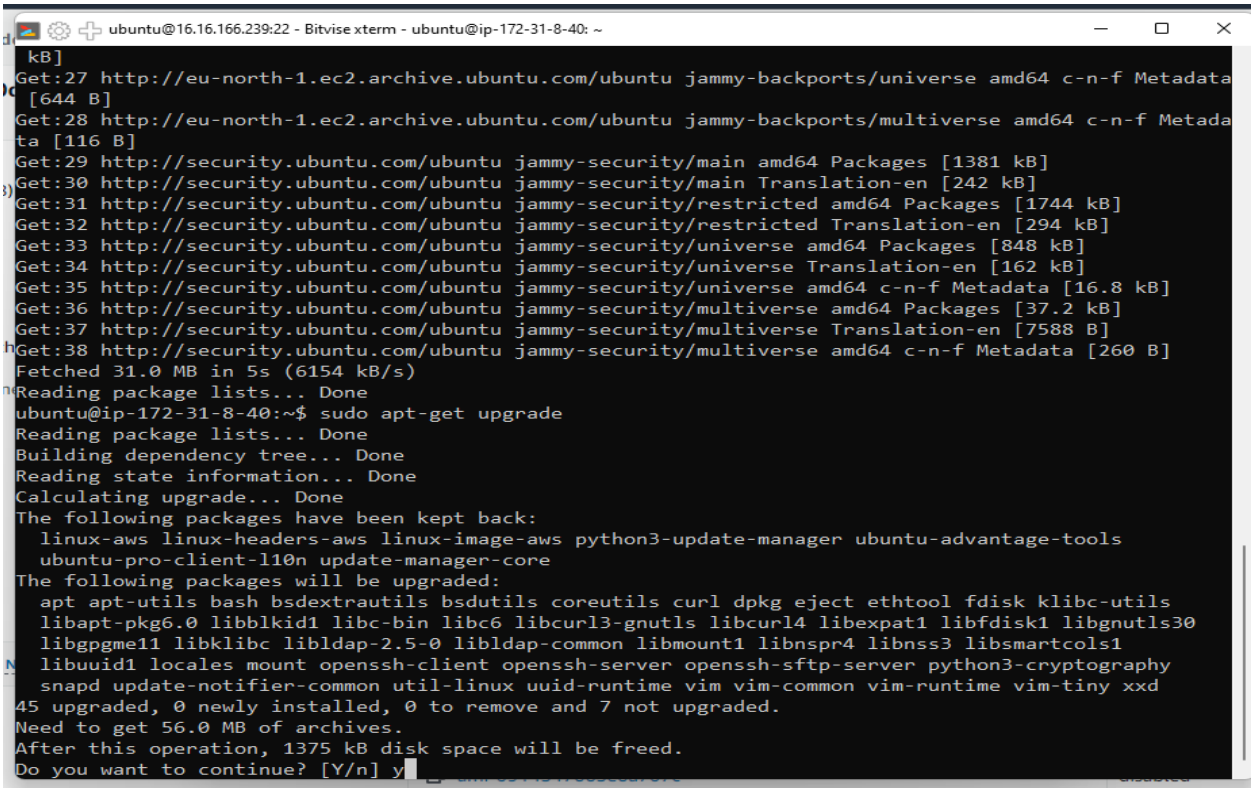
12. Now open new terminal and write pwd, we are in ubuntu.



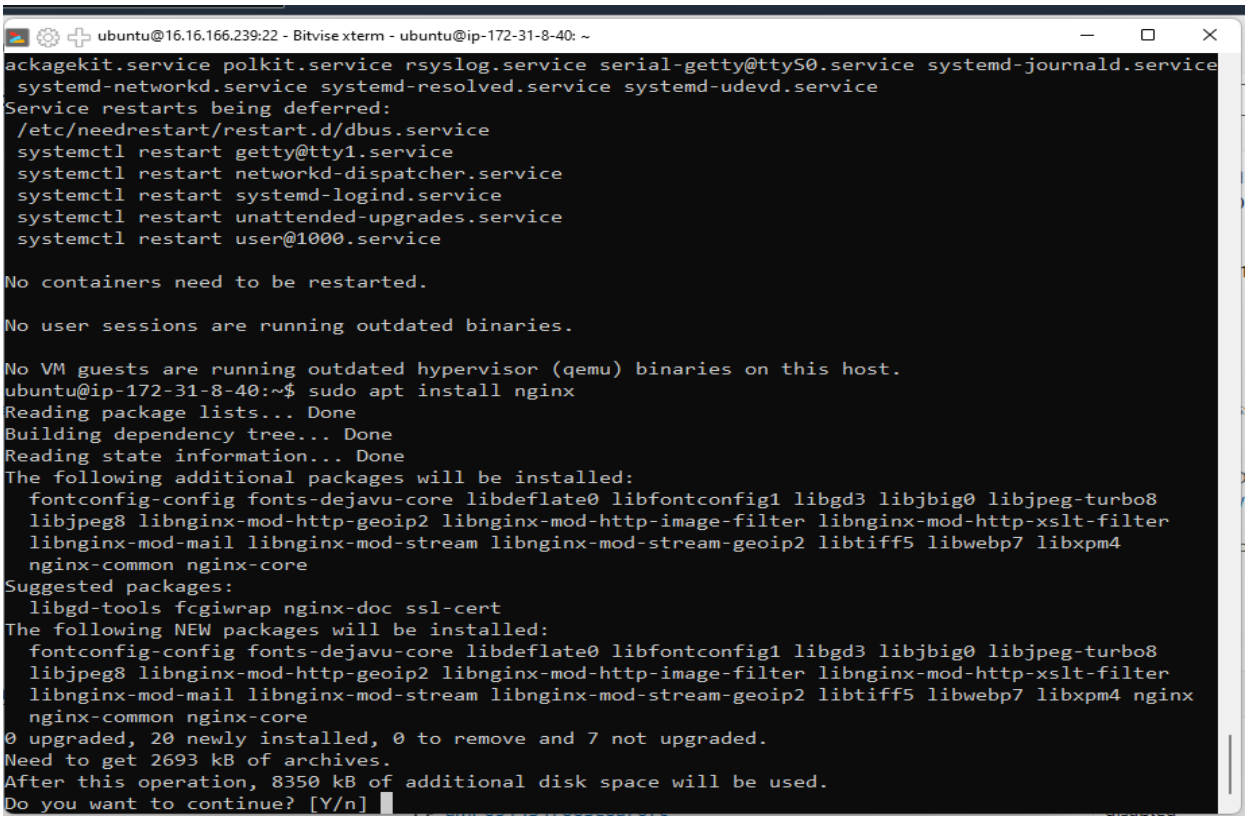

13. Now write command “sudo apt-get update” to fetch all packages.



14. Write “sudo apt-get upgrade” to upgrade all outdated packages.

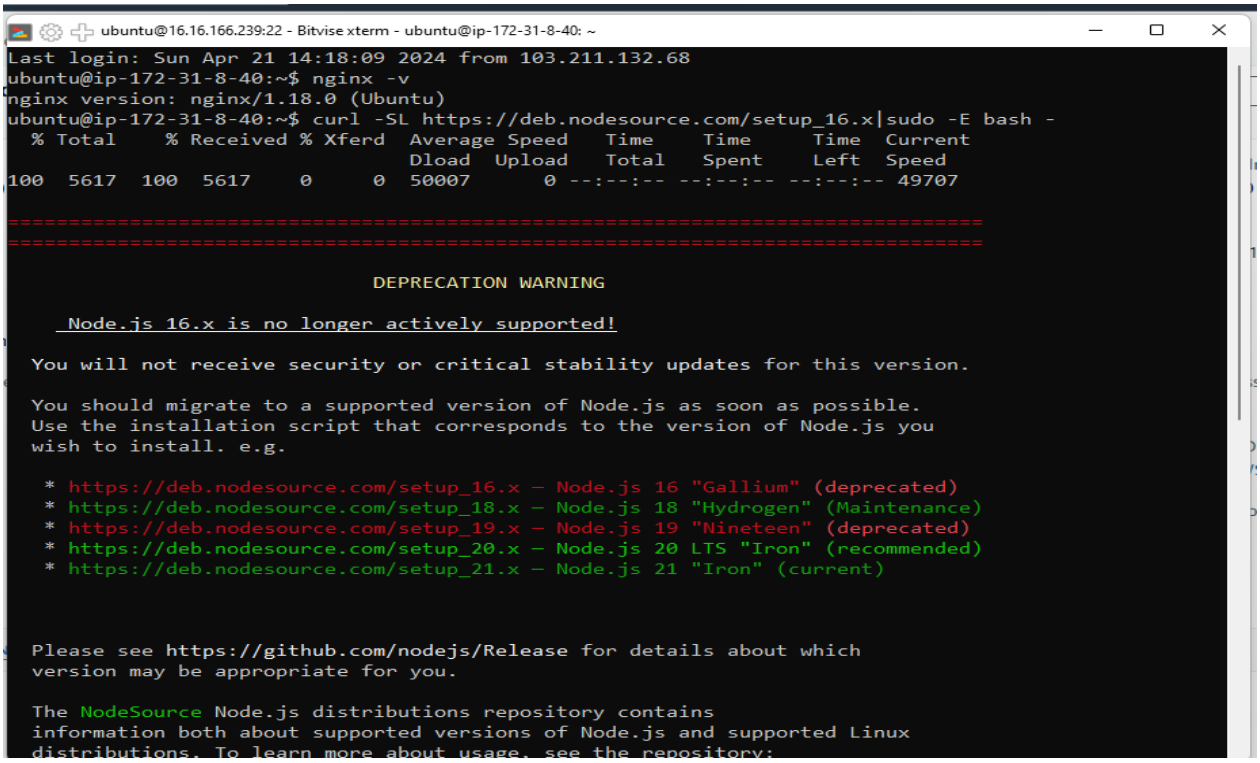



15. Now write command “sudo apt install nginx” to install webserver.

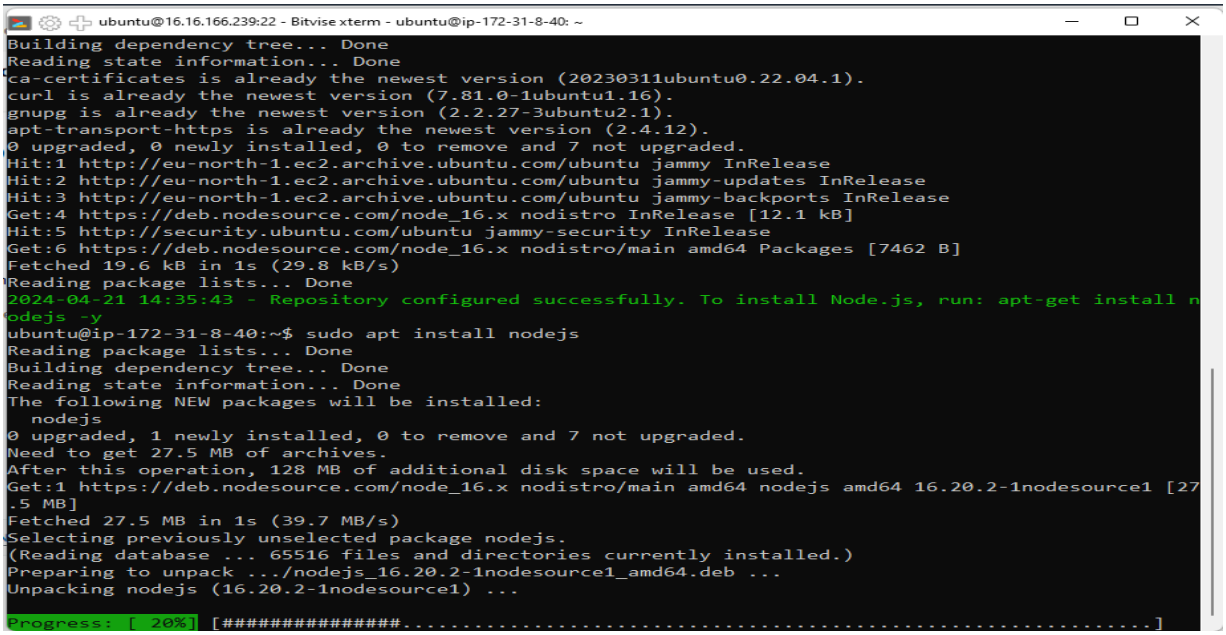



16. Now to execute javascript, we need to install nodejs.Write command

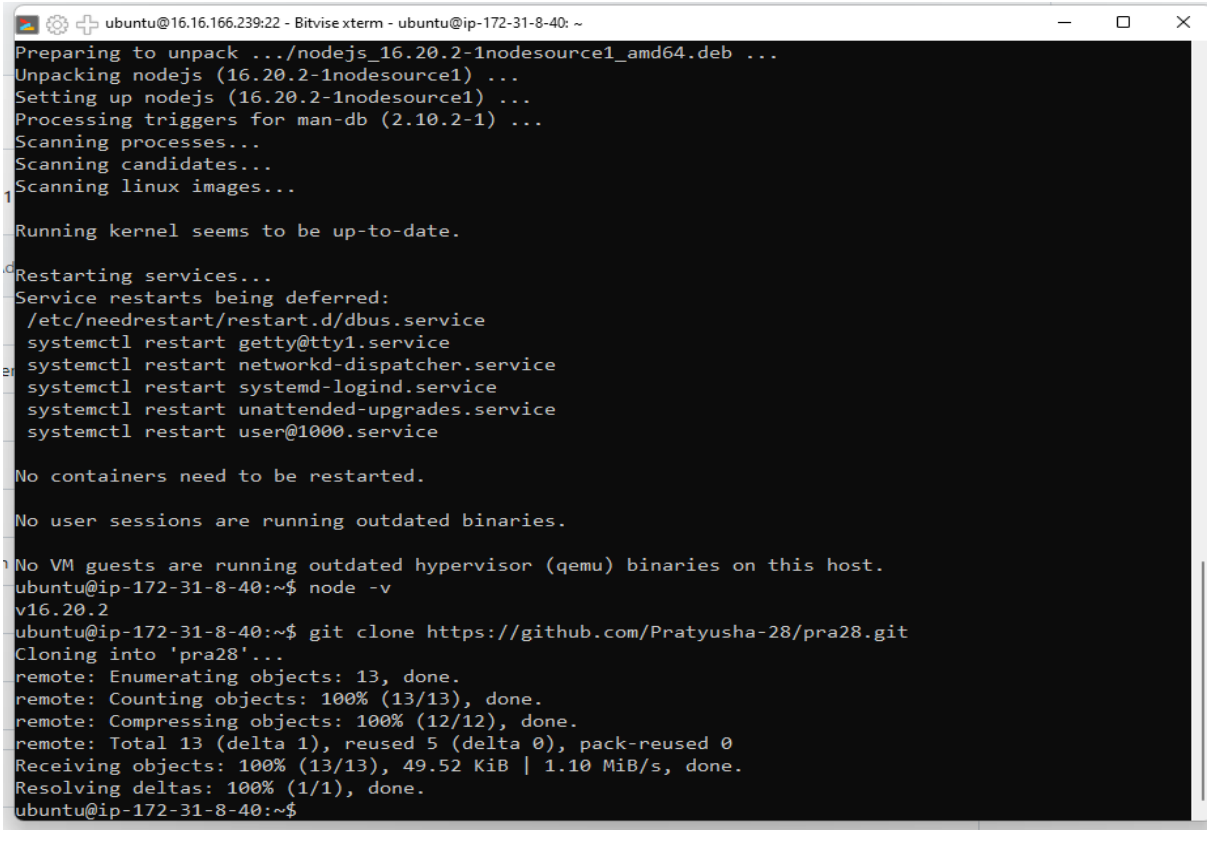
“ curl -SL https://deb.nodesource.com/setup_16.x | sudo -E bash – “ .



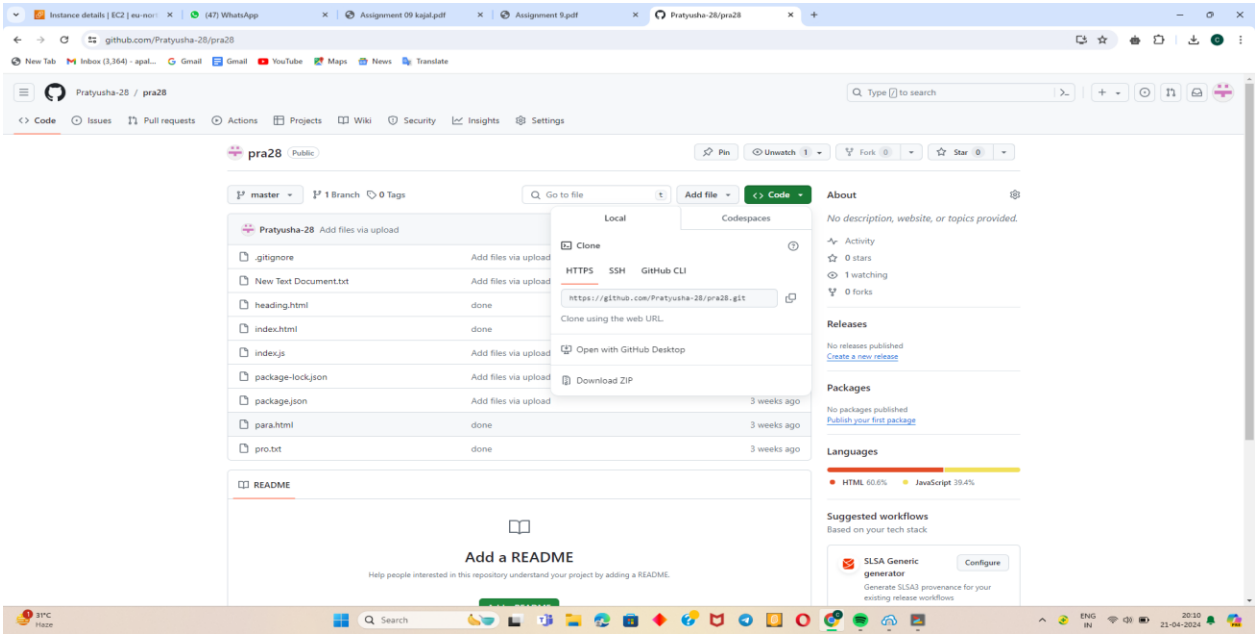
17. Now to install write “sudo apt-get install nodejs”.



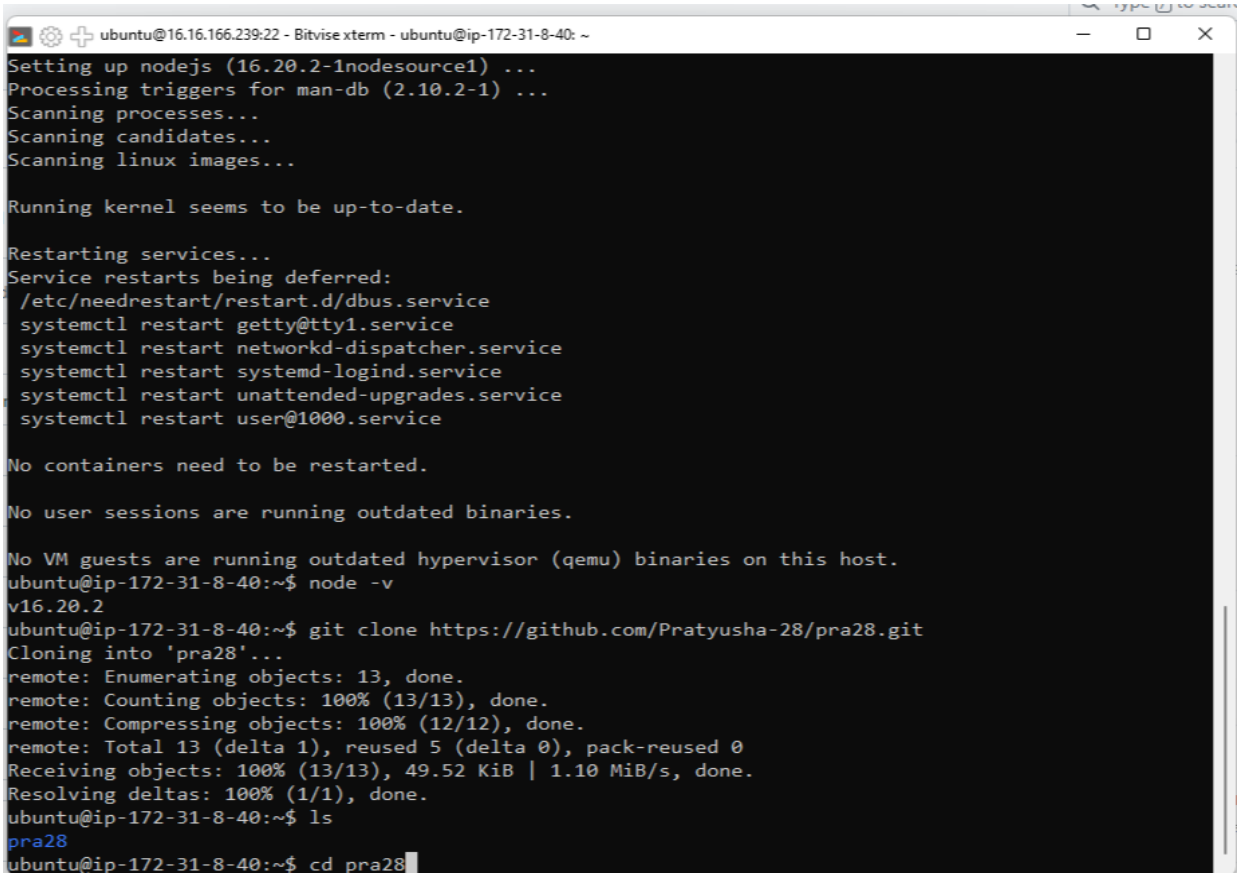

18. Write “node –version” to see what version of nodejs installed.



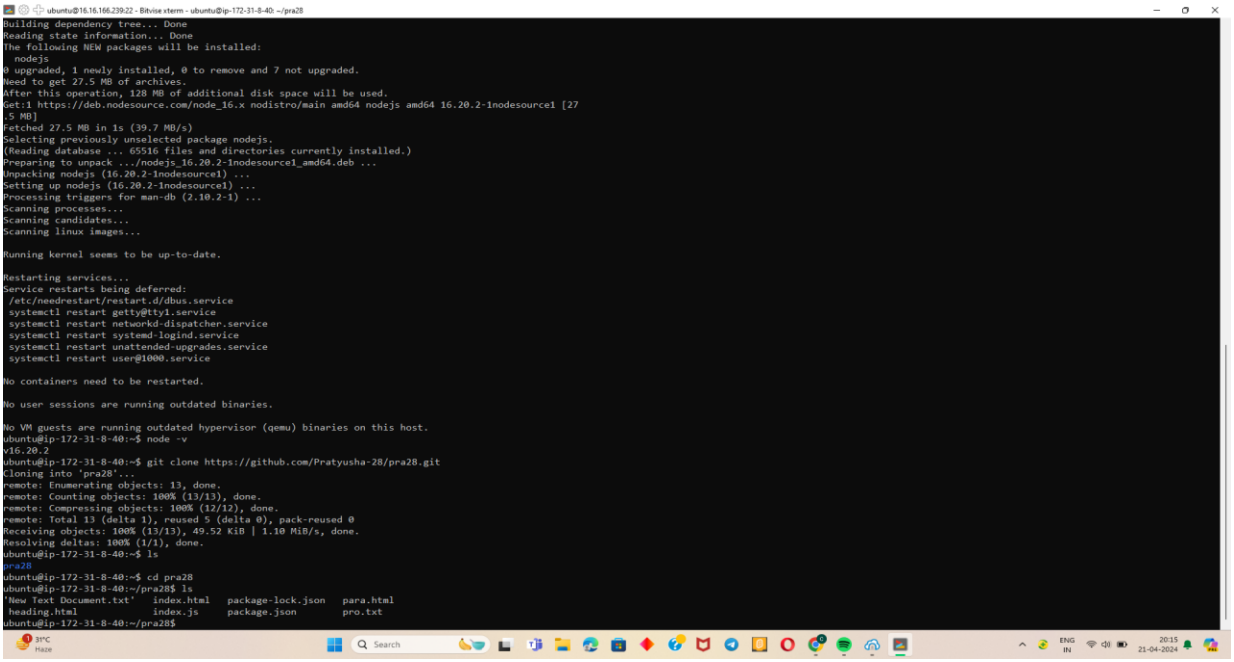
19. Now go back to GitHub and in code copy HTTPS URL.



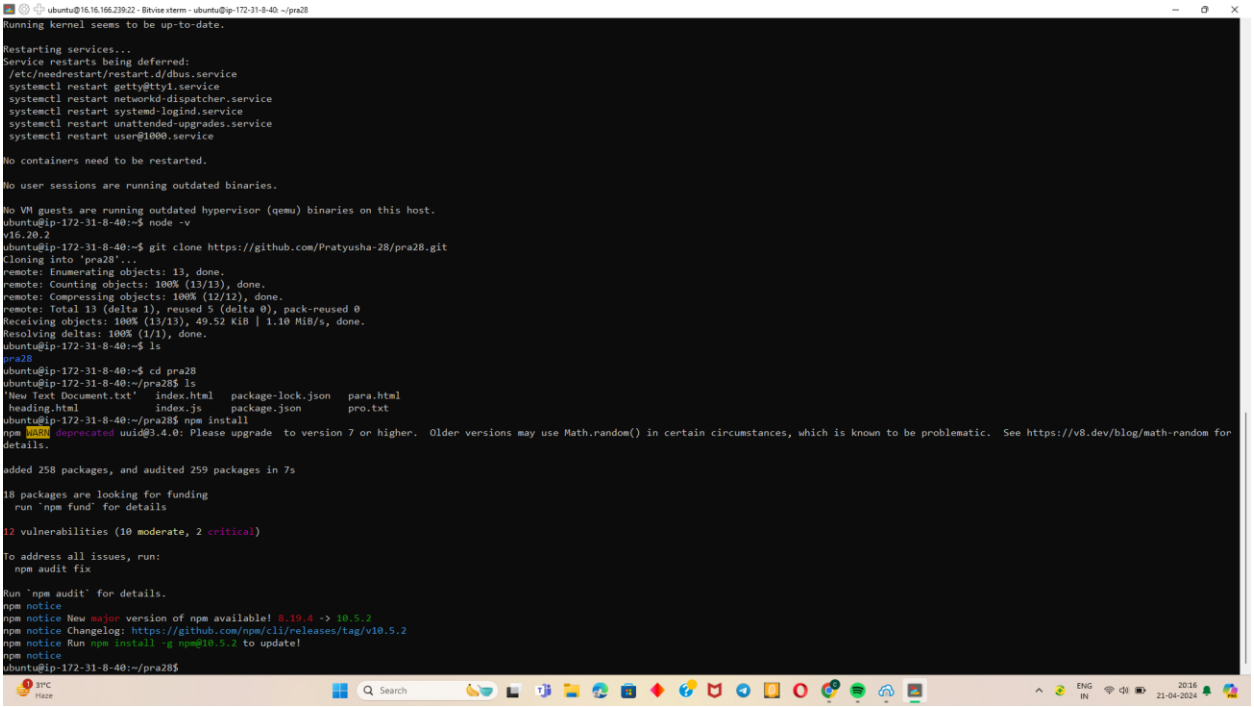

22. Now write git clone and paste that URL and write ls to see if project has been cloned or not.



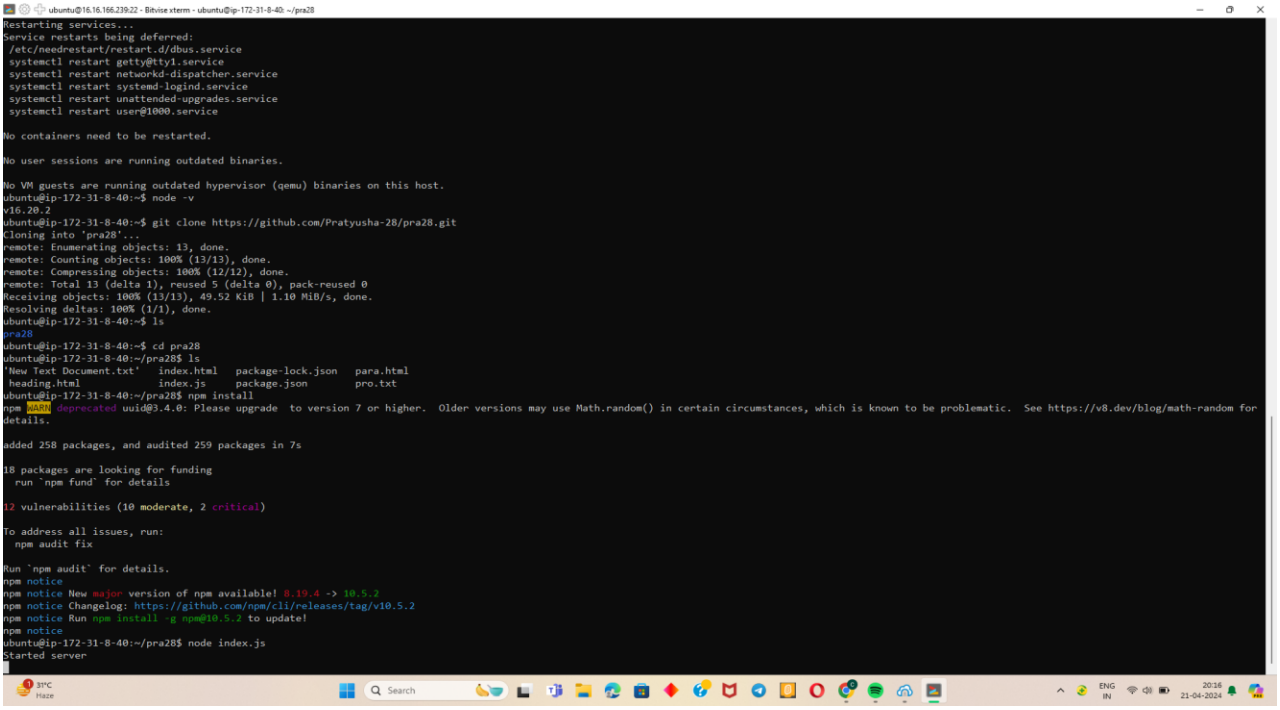
20. After it write command cd (project name) to enter into project and then ls to see what files have been uploaded.



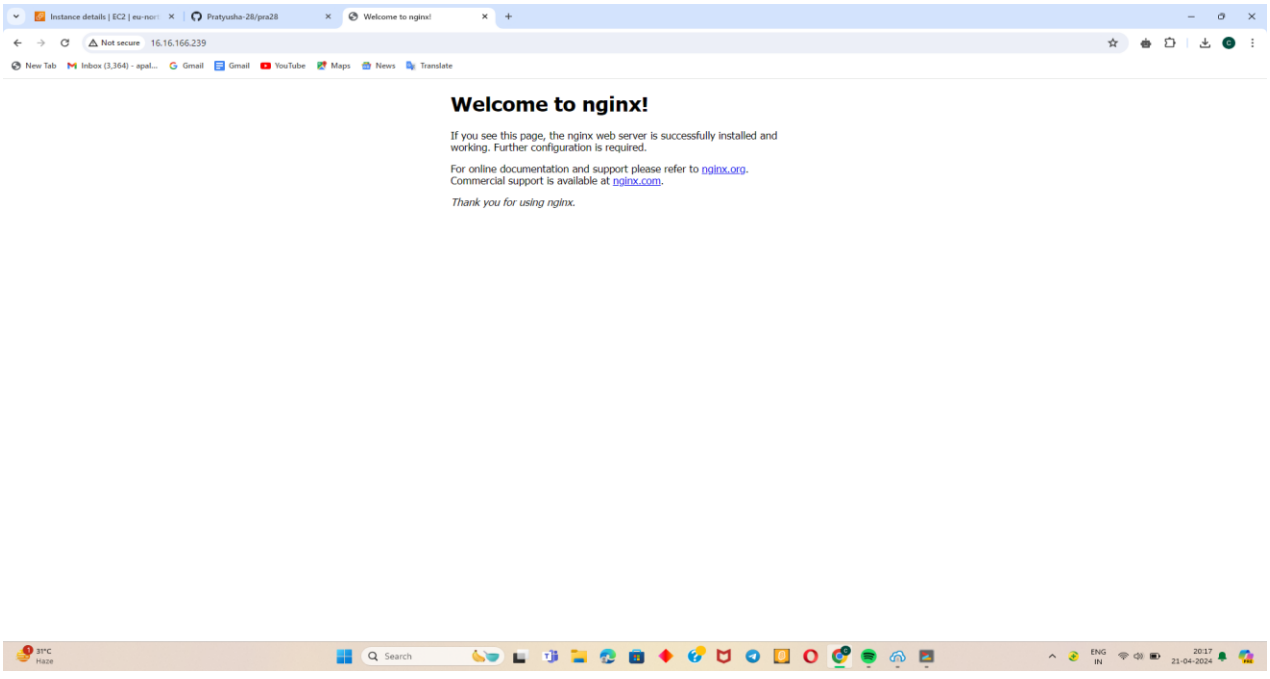

21. Now to execute node command we have to install node packet manager(npm). So write “npm install”.



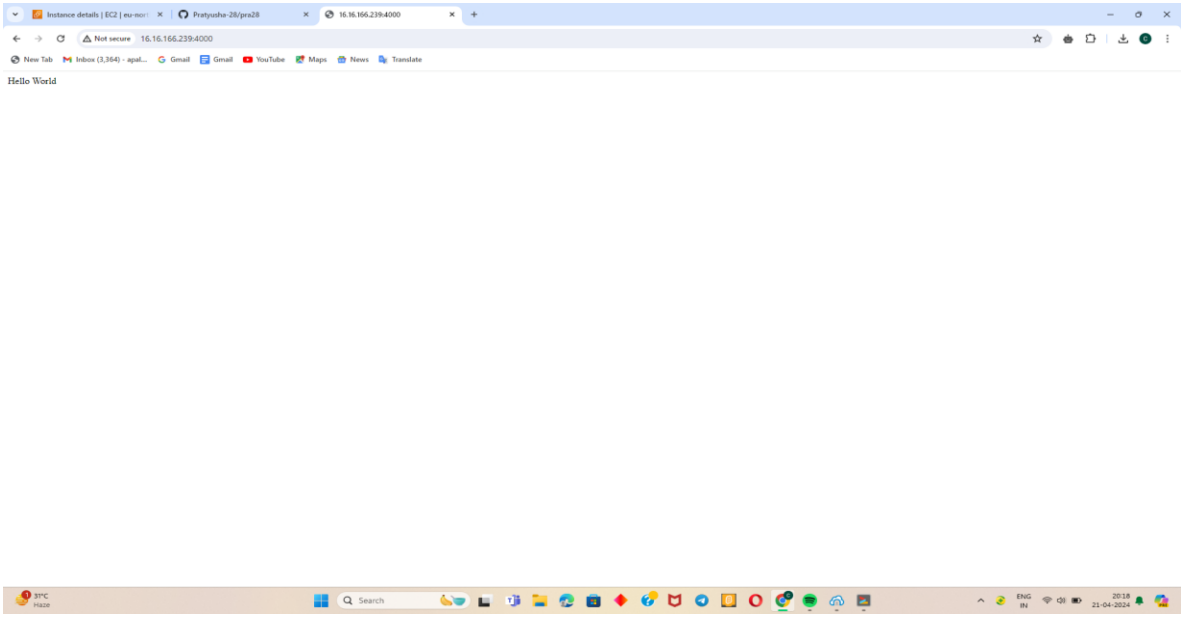
22. Now write node index.js.



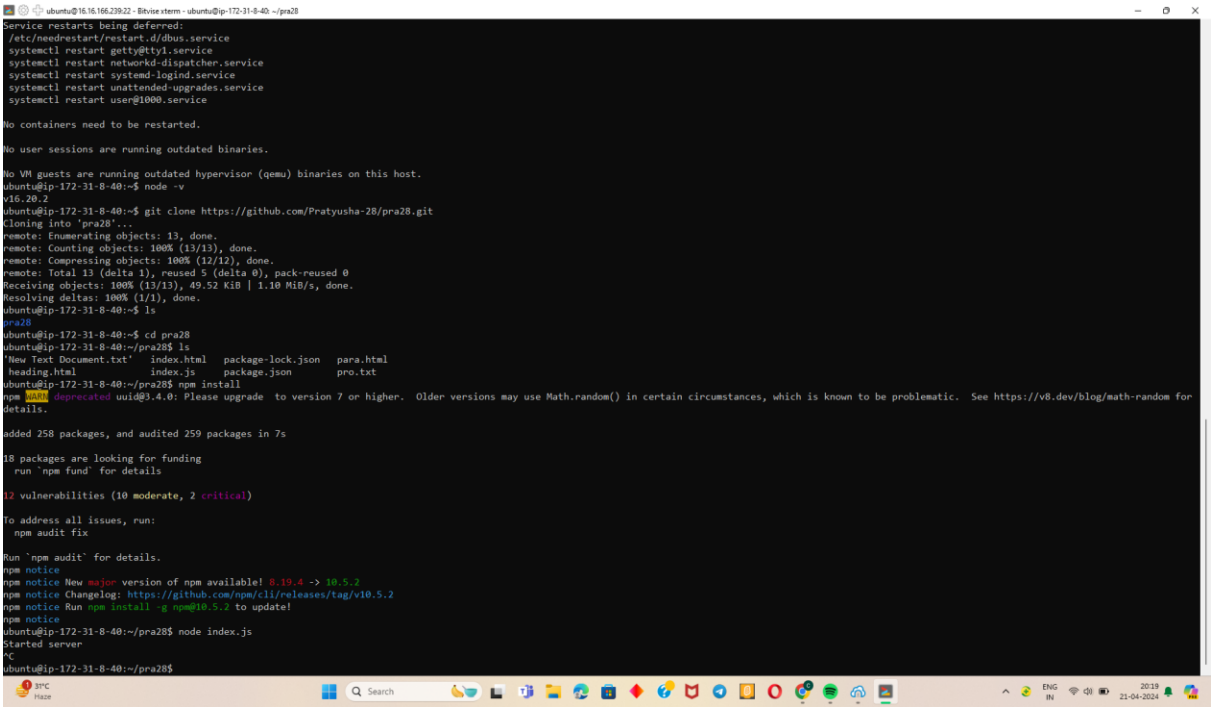

23. After it again copy public IPv4 address in EC2 instance and then paste it in another tab URL section.



24. At last in URL at end write :4000 to get your website.




25. Now to close server in new Terminal do (ctrl + c) to stop server and at last logout.




■ In this way we have deployed a project from GitHub to EC2.