Tech test

Task1 – to up and run the website on port 80 and should handle the Public traffic

Task2- clone the solution onto every EC2 instance

Task 1 Activity

1. To get Enviourment ready - I cleaned all the services before we start working on project by using these command ( systemctl stop httpd / systemctl stop http)
2. We check whether services stopped or not by using status command (systemctl status)
3. We cloned the git repo on the Folder WWW
4. In www folder we created git clone using - git clone https://github.com/whitesunset/wannacrypt\_balance
5. We added missing information on dockerfile - added RUN mkdir -p /run/nginx
6. We tried to build docker image and tried to launch the container image but there was error where I started troubleshoot (nginx: [emerg] open() "/run/nginx/nginx.pid" failed (2: No such file or directory). then we added RUN mkdir -p /run/nginx this command to dockerfile
7. We run the command sudo docker build -t webserver ( -t - Image name tagging)
8. Then we run this command where you can see we call webserver(tagged name) sudo docker run -dit -p 80:80 -v /home/ec2-user/tech-test/www:/www webserver
9. The problem occurred in step 5 is no more occurring and issue has been resolved.
10. We successfully able to browse the website of the git Repo which we clone in early steps

Feasible other automation solution -

* 1. To replicate the clone of this server (Ec2 Instance), we may need to use docker-compose.yml to automate the process
  2. EC2 automation AWS code deployment (CI/CD) vendor specific, Versioning, deploy, Commit, Push.
  3. Inside the Docker- We can use Nginx revers proxy to automatically Index the Github report ( No need to Gitrepo, we can directly use Nginx reverse proxy)
  4. docker- Compose.Yml – We thought about these solution by creating 2 different dockerfile , 1 for Nginx server/rever Proxy and 2 Git repo automatic update and then compose both together in Docker Composer, but was not sure whether this will help us or not.