

**Name: Tushar Panchal** 

En.No: 21162101014

**Sub:** CS(Cloud Security)

**Branch: CBA** 

Batch:71

## 

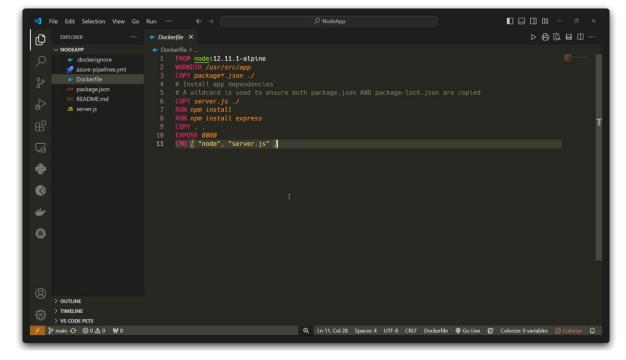
You are a DevOps engineer working for a software development company that is transitioning its applications to containerized environments using Docker. As part of the migration process, you are responsible for ensuring the security and reliability of containers and container images. Your team has developed a web application that is ready for deployment in a containerized environment.

Your task is to assess the security and integrity of the container and image for the web application before it is deployed to production. Your assessment should cover potential vulnerabilities, security best practices, and ensure that the containerized application is properly configured and functional.

## First we have to clone the file using cmd

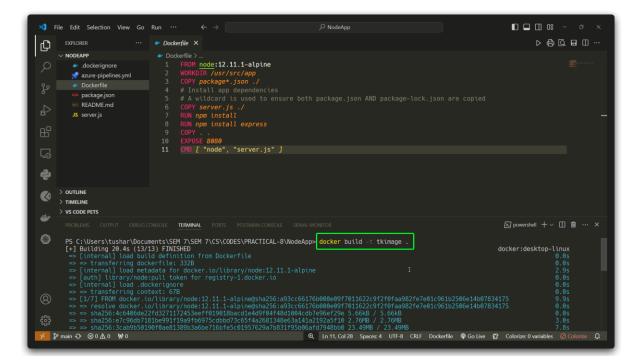
git clone <a href="https://github.com/singhdeepu/NodeApp.git">https://github.com/singhdeepu/NodeApp.git</a>

```
C:\Users\tushar\Documents\SEM 7\SEM 7\CS\CODES\PRACTICAL-8>git clone https://github.com/singhdeepu/NodeApp.git Cloning into 'NodeApp'...
remote: Enumerating objects: 437, done.
remote: Counting objects: 100% (437/437), done.
remote: Compressing objects: 100% (347/347), done.
remote: Compressing objects: 100% (347/347), done.
remote: Total 437 (delta 91), reused 403 (delta 76), pack-reused 0 (from 0)
Receiving objects: 100% (437/437), 576.14 kiB | 6.00 MiB/s, done.
Resolving deltas: 100% (91/91), done.
```



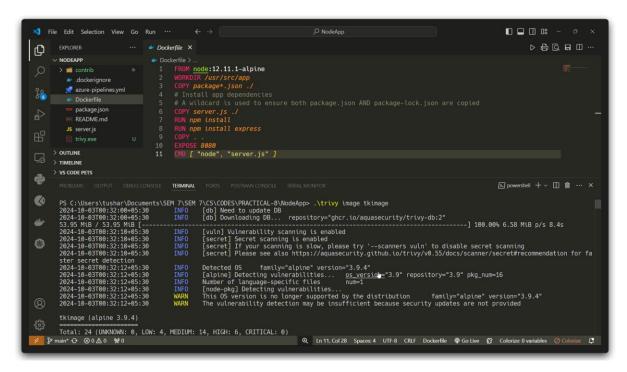
Now build the image using cmd

Docker build -t tkimage.

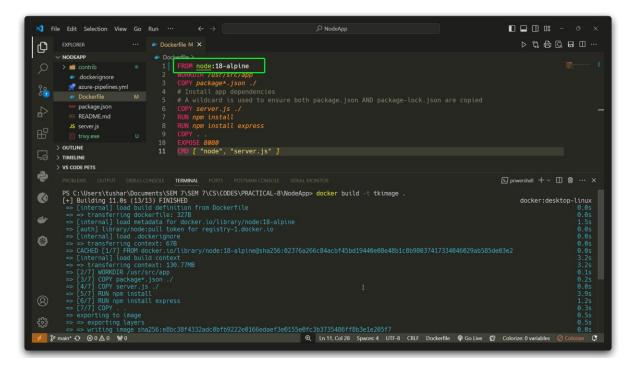


After that you have to run the trivy command to check vulnerability

## ./trivy image tkimage



Now make changes in the version of alpine and build the image.



Now you can see the zero vulnerability.

