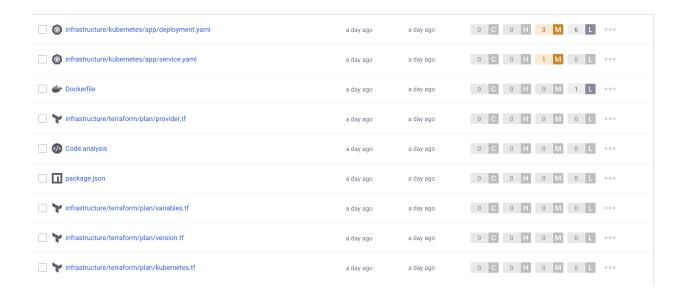
Security Audit - Hackathon 2024

Code Analysis

We've audited the full repository using Snyk code.

The tool found several vulnerabilities in the code with mostly medium severity.

Here is the result:



TypeScript Code

No vulnerabilities have been found in the code during the test.

Config & Package files

All packages are up-to-date and no vulnerabilities have been found in the package.json file.

Three medium vulnerabilities have been detected in the Kubernetes deployment file (infrastructure/kubernetes/app/service.yaml):

 The first one means that processes could elevate current privileges via known vectors, for example SUID binaries

Container is running without privilege escalation control



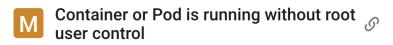


SNYK-CC-K8S-9

```
18
          labels:
19
           app: global-digital
20
        spec:
21
          containers:
22
         - image: ghcr.io/william-wtr92/global-digital:main
23
           name: global-digital
24
           ports:
25
           - containerPort: 3000
26
           resources: {}
```



 The second one shows us that container could be running with full administrative privileges



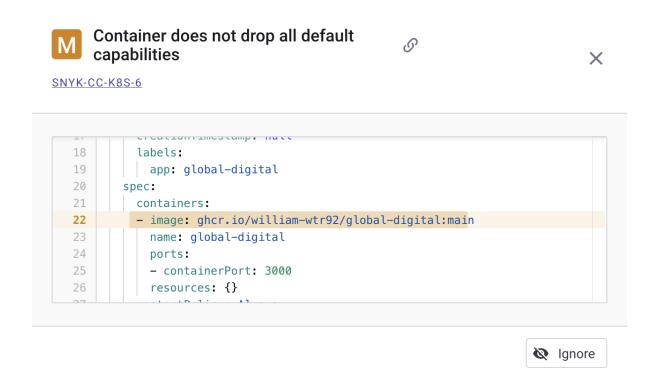
X

SNYK-CC-K8S-10

```
containers:
22
         - image: ghcr.io/william-wtr92/global-digital:main
           name: global-digital
23
24
           ports:
25
           - containerPort: 3000
26
          resources: {}
27
         restartPolicy: Always
         imagePullSecrets:
28
29
         - name: regcred
30 status: {}
```



 The third one informs us that containers are running with potentially unnecessary privileges



Finally, one medium vulnerability was found in the Kubernetes service file (infrastructure/kubernetes/app/service.yaml):

It warns us that defining a Load balancer Service without setting the **loadBalancerSourceRanges** property will use the default value of 0.0.0.0/0. Therefore, this allows access to any traffic to the Node Security Group(s), potentially meaning everyone can access your service.

M Service does not restrict ingress sources



SNYK-CC-K8S-15

```
app: global-digital
 7
     name: global-digital
     namespace: app-ns
9 spec:
    ports:
10
    - port: 3000
11
     protocol: TCP
12
     targetPort: 3000
13
    selector:
14
15
    app: global-digital
```

