Started with an Nmap scan, which revealed four open ports:

21 – FTP (vsftpd 3.0.3) 22 – SSH 8081 – Node.js backend 31331 – (Apache httpd 2.4.29)

Performed a Gobuster scan on port 8081 and found two accessible routes:

/auth /ping

Visiting /ping caused an error, indicating the route expected a parameter. I used **FFUF** to fuzz for parameter names and discovered it required an ip parameter.

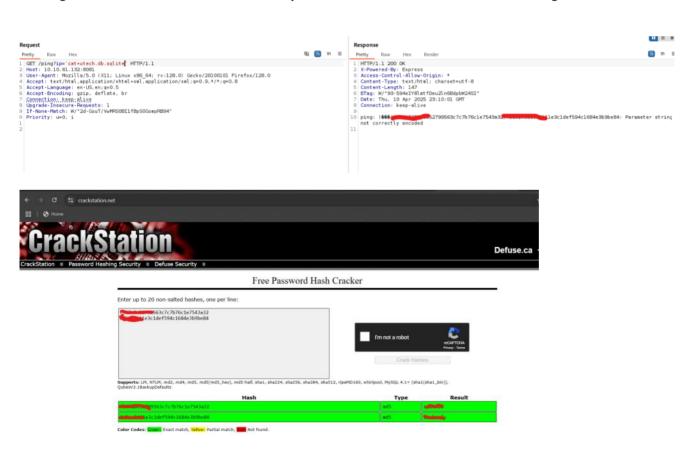




The ip parameter was vulnerable to **command injection**. By injecting commands like ls, I discovered a local SQLite database file.



Reading the database revealed two users with password hashes. I cracked a the hashes using CrackStation.



I used the credentials to log in to /partners.html, but it wasn't useful.







I tried to use the same credentials on **SSH** and successfully logged in.

I saw my user was in the docker group. This lets me run containers as root and access the host system.

I found a local bash image and used it to run a container. I mounted the host's / into the container and used chroot to switch into it. This gave me full root access.

I then read the root user's private SSH key.

Docker Command used:

docker run: start container

--rm: auto-remove-it: interactive shell-v /:/mnt: mount host /bash: use bash image

chroot /mnt bash: switch to host system as root

