Underpass

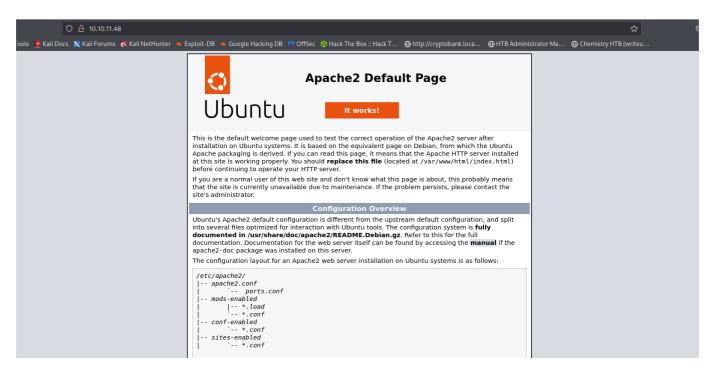


I started by scanning the UnderPass machine on Hack The Box, finding open SSH, HTTP, and SNMP ports. SNMP enumeration revealed the hostname "UnderPass.htb," leading me to Daloradius. Directory fuzzing found a login panel, and using default credentials, I accessed the operator dashboard. I discovered an MD5-hashed password for svcMosh, cracked it, and gained SSH access. After running sudo -l, I found that mosh-server could be executed as root. Using mosh-server and its session key, I escalated privileges and gained root access.

Scanning Network:

I initiated the assessment by conducting an Nmap scan, which identified open TCP ports 22 (OpenSSH) and 80 (Apache HTTPD version 2.4.52) on the target host. This provided insight into the services available for further enumeration and potential exploitation.

Enumeration:



I will utilize the snmp-check tool to gather in-depth information regarding the target system.

```
(root@kali)=[~]
# snmp-check -c public 10.10.11.48
snmp-check v1.9 - SNMP enumerator
Copyright (c) 2005-2015 by Matteo Cantoni (www.nothink.org)

[+] Try to connect to 10.10.11.48:161 using SNMPv1 and community 'public'

[*] System information:

Host IP address : 10.10.11.48
Hostname : UnDerPass.htb is the only daloradius server in the basin!
Description : Linux underpass 5.15.0-126-generic #136-Ubuntu SMP Wed Nov 6 10:38:22 UTC 2024 x86_64-CC operation of the Apache2 ser
Contact : steve@underpass.htb
Location : Nevada, U.S.A. but not Vegas
Uptime snmp : 10:45:55.71
Uptime system : 10:45:55.72
Uptime system : 10:45:55.72
System date : 2025-3-25 12:07:52.0
```

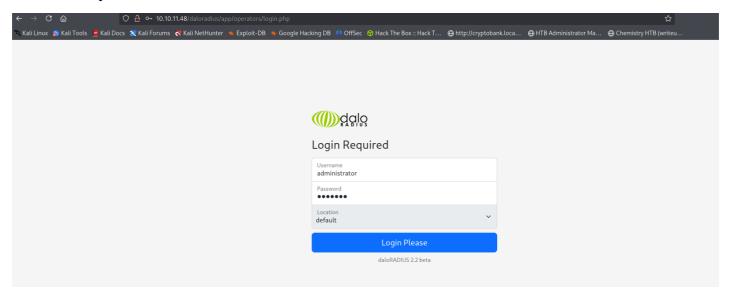
While analyzing the output, I discovered the hostname "UnderPass.htb" and that a Daloradius server was being used. I added the hostname to the /etc/hosts file with the target IP. Daloradius is an open-source management tool for FreeRADIUS, accessible via http:///daloradius, with default credentials of administrator:radius. Next, I'll perform directory fuzzing on http://underpass.htb/daloradius.

```
Target: http://underpass.htb/

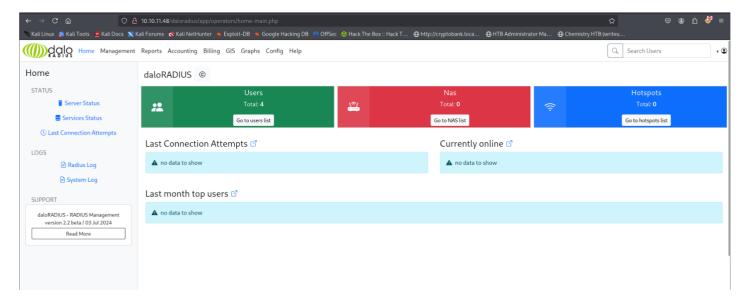
[5553:09] Starting: daloradius/app/
[65:53:29] Starting: daloradius/app/
[65:53:29] Starting: daloradius/app/
[65:53:29] Starting: daloradius/app/common → http://underpass.htb/daloradius/app/common/
[65:53:63] 301 - 3298 - /daloradius/app/users/ → home-main.php

Task Completed
```

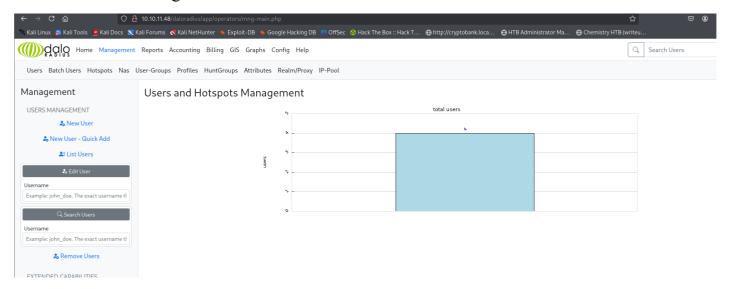
During directory fuzzing, I found login page. I will now explore them to assess their functionality.



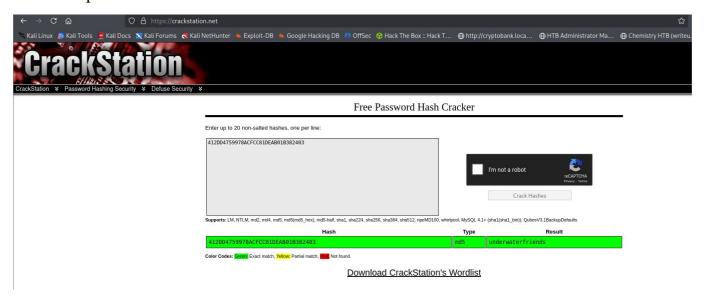
I will proceed by utilizing the default credentials for the **Daloradius** server, which are **administrator:radius**, to attempt login on the identified login page. This step involves authenticating with the default username and password combination in order to gain access to the **Daloradius** management interface. This is a common technique when dealing with web applications that may still be running with their factory-default configurations, providing an opportunity to assess the system's security posture.



I successfully logged in as an operator. While navigating the portal, I found a list of users under the User Management section.



While browsing the portal, I discovered a list of users under User Management, and the password for svcMosh was stored as an MD5 hash in plaintext. I will use an online tool to crack the password.



After successfully cracking the password for svcMosh, I attempted to log in through SSH.

Here we have found first flag: user.txt

I will run sudo -l to review the list of commands that the current user can execute with elevated privileges using sudo.

Let's run the mosh-server.

```
svcMosh@underpass:-$ sudo -l
Matching Defaults entries for svcMosh on localhost:
    env_reset, mail_badpass, secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/shin\:/sh
```

I found second flag: root.txt

f inally completed the underpass lab and earned 30 points

