

**KEAMANAN SISTEM DAN JARINGAN KOMPUTER**  
**TryHackMe: Networking Services 2**



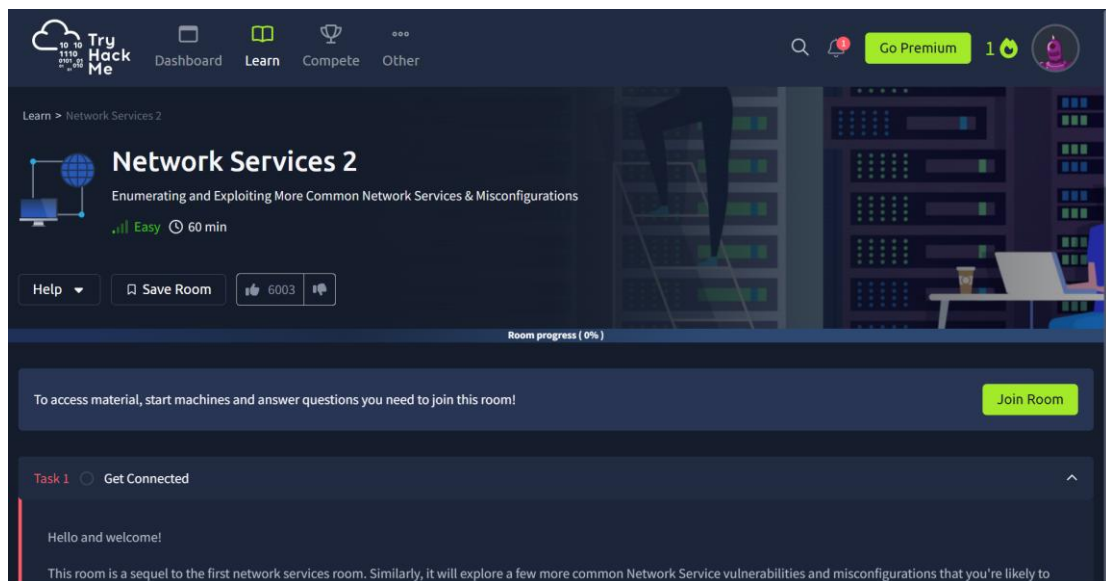
Nama :

Aldi Nur Fahmi

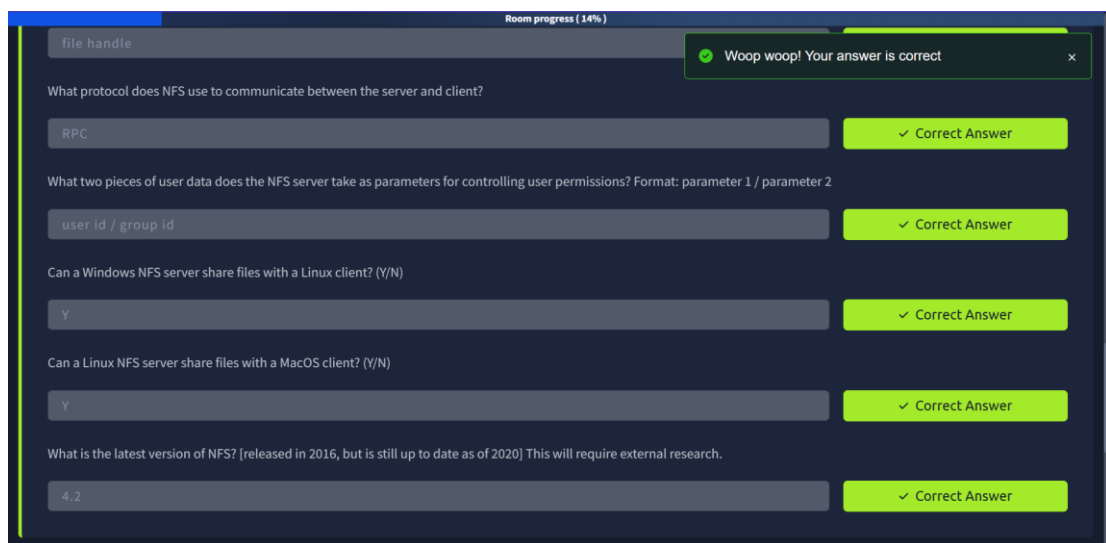
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**2025**



## 1. Join ke network services 2



## 2. Menyelesaikan task 2

Room progress (26%)

Woop woop! Your answer is correct

cappuccino

Have a look inside this directory, look at the files. Looks like we're inside a user's home directory...

No answer needed

✓ Correct Answer

Interesting! Let's do a bit of research now, have a look through the folders. Which of these folders could contain keys that would give us remote access to the server?

.ssh

✓ Correct Answer

Which of these keys is most useful to us?

id\_rsa

✓ Correct Answer

🔑 Hint

Copy this file to a different location your local machine, and change the permissions to "600" using "chmod 600 [file]".

Assuming we were right about what type of directory this is, we can pretty easily work out the name of the user this key corresponds to.

Can we log into the machine using `ssh -i <key-file> <username>@<ip> ?` (Y/N)

Y

✓ Correct Answer

### 3. Menyelesaikan task 3

Room progress (48%)

✓ Correct Answer

No answer needed

✓ Correct Answer

Download the bash executable to your Downloads directory. Then use "cp ~/Downloads/bash ." to copy the bash executable to the NFS share. The copied bash shell must be owned by a root user, you can set this using "sudo chown root bash"

No answer needed

✓ Correct Answer

Now, we're going to add the SUID bit permission to the bash executable we just copied to the share using "sudo chmod +[permission] bash". What letter do we use to set the SUID bit set using chmod?

s

✓ Correct Answer

Let's do a sanity check, let's check the permissions of the "bash" executable using "ls -la bash". What does the permission set look like? Make sure that it ends with -sr-x.

-rwsr-sr-x

✓ Correct Answer

Now, SSH into the machine as the user. List the directory to make sure the bash executable is there. Now, the moment of truth. Lets run it with ". /bash -p". The -p persists the permissions, so that it can run as root with SUID- as otherwise bash will sometimes drop the permissions.

No answer needed

✓ Correct Answer

Great! If all's gone well you should have a shell as root! What's the root flag?

THM[nfs\_got\_pwned]

✓ Correct Answer

### 4. Menyelesaikan task 4

Room progress ( 48% )

SMTP handshake ✓ Correct Answer

What is the default SMTP port?

25 ✓ Correct Answer

Where does the SMTP server send the email if the recipient's server is not available?

smtp.queue ✓ Correct Answer

On what server does the Email ultimately end up on?

POP/IMAP ✓ Correct Answer

Can a Linux machine run an SMTP server? (Y/N)

Y ✓ Correct Answer

Can a Windows machine run an SMTP server? (Y/N)

Y ✓ Correct Answer

## 5. Menyelesaikan task 5

Room progress ( 67% )

auxiliary/scanner/smtp/smtp\_enum ✓ Correct Answer

We're going to be using the "top-usernames-shortlist.txt" wordlist from the Usernames subsection of seclists ([just a note: wordlists/seclists/usernames if you have it installed](#)).

Seclists is an amazing collection of wordlists. If you're running Kali or Parrot you can install seclists with: "sudo apt install seclists" Alternatively, you can download the repository from [here](#).

What option do we need to set to the wordlist's path?

USER\_FILE ✓ Correct Answer

Once we've set this option, what is the other essential parameter we need to set?

RHOSTS ✓ Correct Answer

Now, run the exploit, this may take a few minutes, so grab a cup of tea, coffee, water. Keep yourself hydrated!

No answer needed ✓ Correct Answer

Okay! Now that's finished, what username is returned?

administrator ✓ Correct Answer

Woop woop! Your answer is correct

## 6. Menyelesaikan task 6

Room progress ( 70% )

-t 16	Number of parallel connections
-l [user]	Points to the user who's account you want to use
-P [path to dictionary]	Points to the file containing the list of possible passwords
-vV	Sets verbose mode to very verbose, shows the login+pass combination for each attempt
[machine IP]	The IP address of the target machine
ssh / protocol	Sets the protocol

Looks like we're ready to rock n roll!

Answer the questions below

What is the password of the user we found during our enumeration stage?

alejandro ✓ Correct Answer

Great! Now, let's SSH into the server as the user, what is contents of smtp.txt

THM{who\_knew\_email\_servers\_were\_cool?} ✓ Correct Answer

## 7. Menyelesaikan task 7

Room progress ( 78% )

Answer the questions below

What type of software is MySQL?

relational database management system ✓ Correct Answer

What language is MySQL based on?

SQL ✓ Correct Answer

What communication model does MySQL use?

client-server ✓ Correct Answer

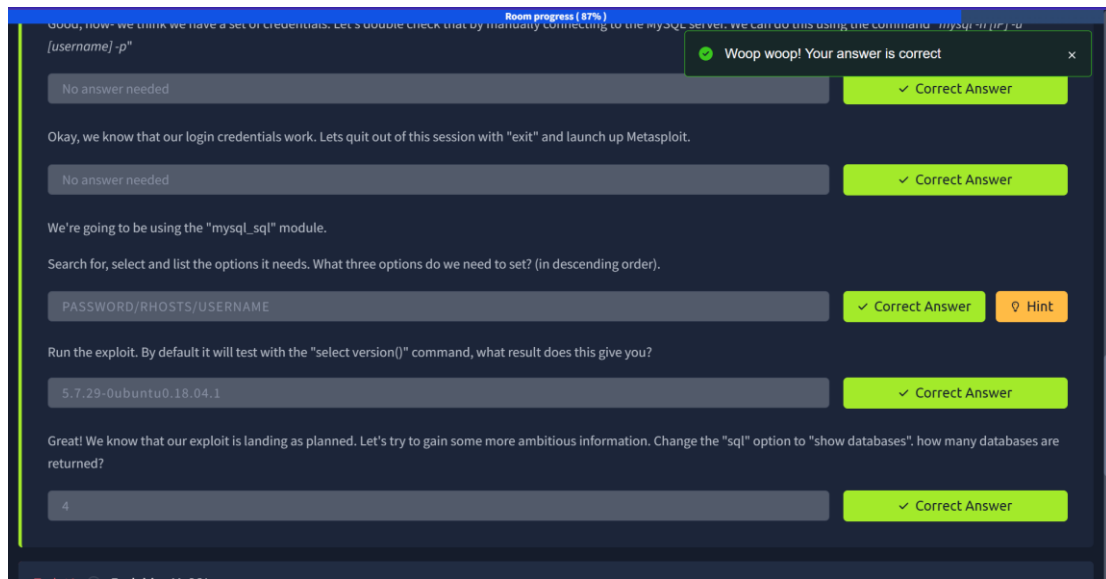
What is a common application of MySQL?

back end database ✓ Correct Answer

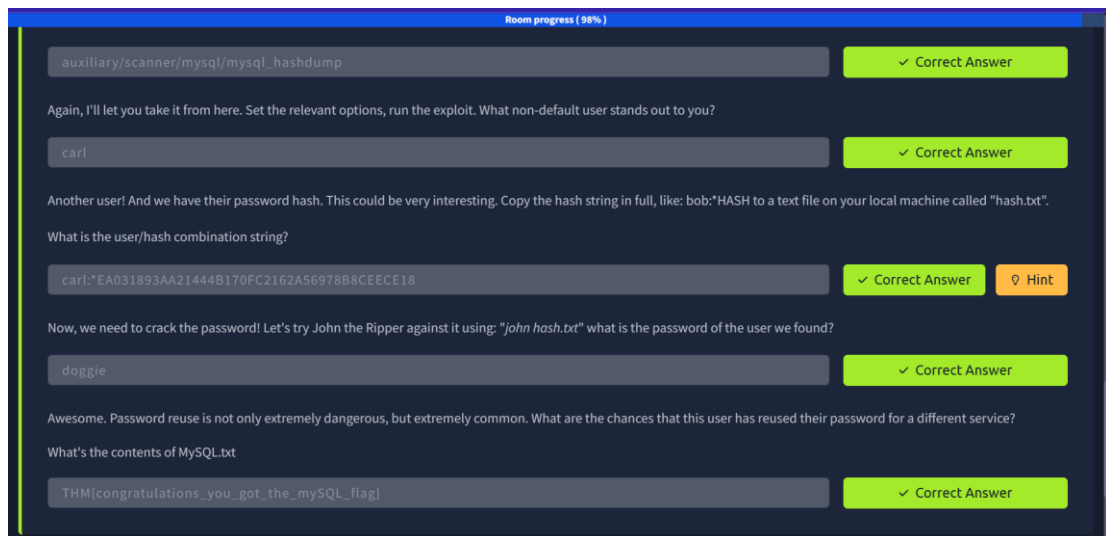
What major social network uses MySQL as their back-end database? This will require further research.

Facebook ✓ Correct Answer Hint

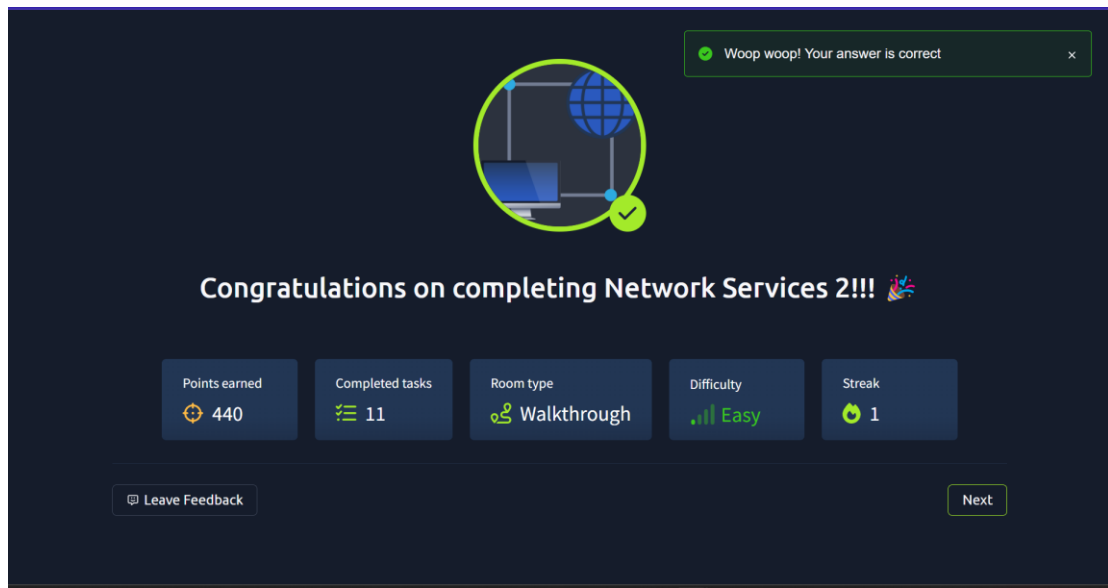
## 8. Menyelesaikan task 8



## 9. Menyelesaikan task 9



## 10. Menyelesaikan task 10



11. Semua task pada Network Services 2 selesai