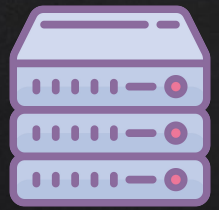
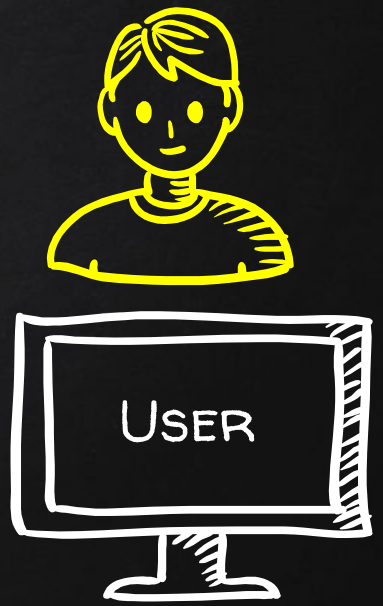
FACEBOOK WEB SERVER
195.44.2.1

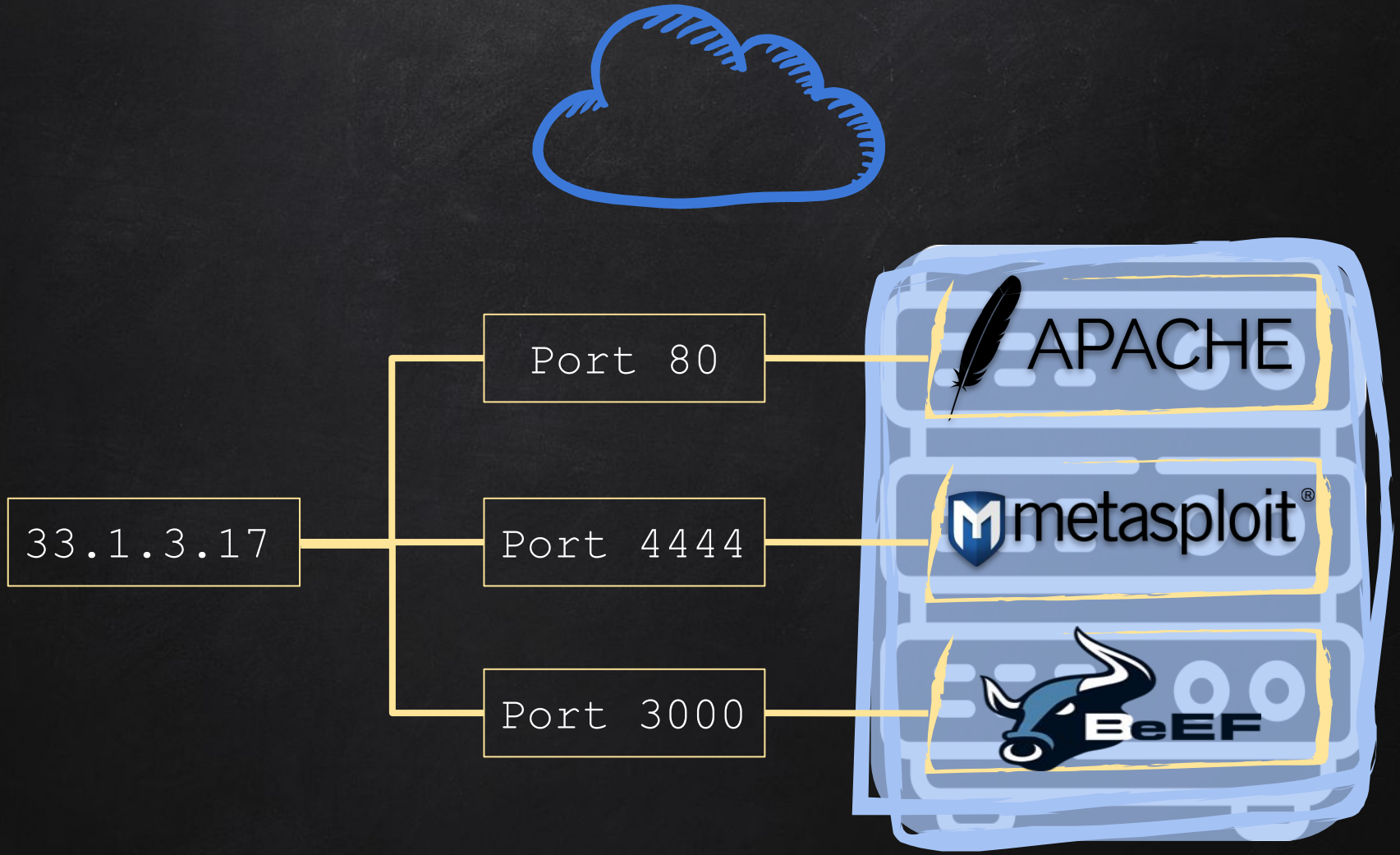
HACKER WEB SERVER
44.204.13.14

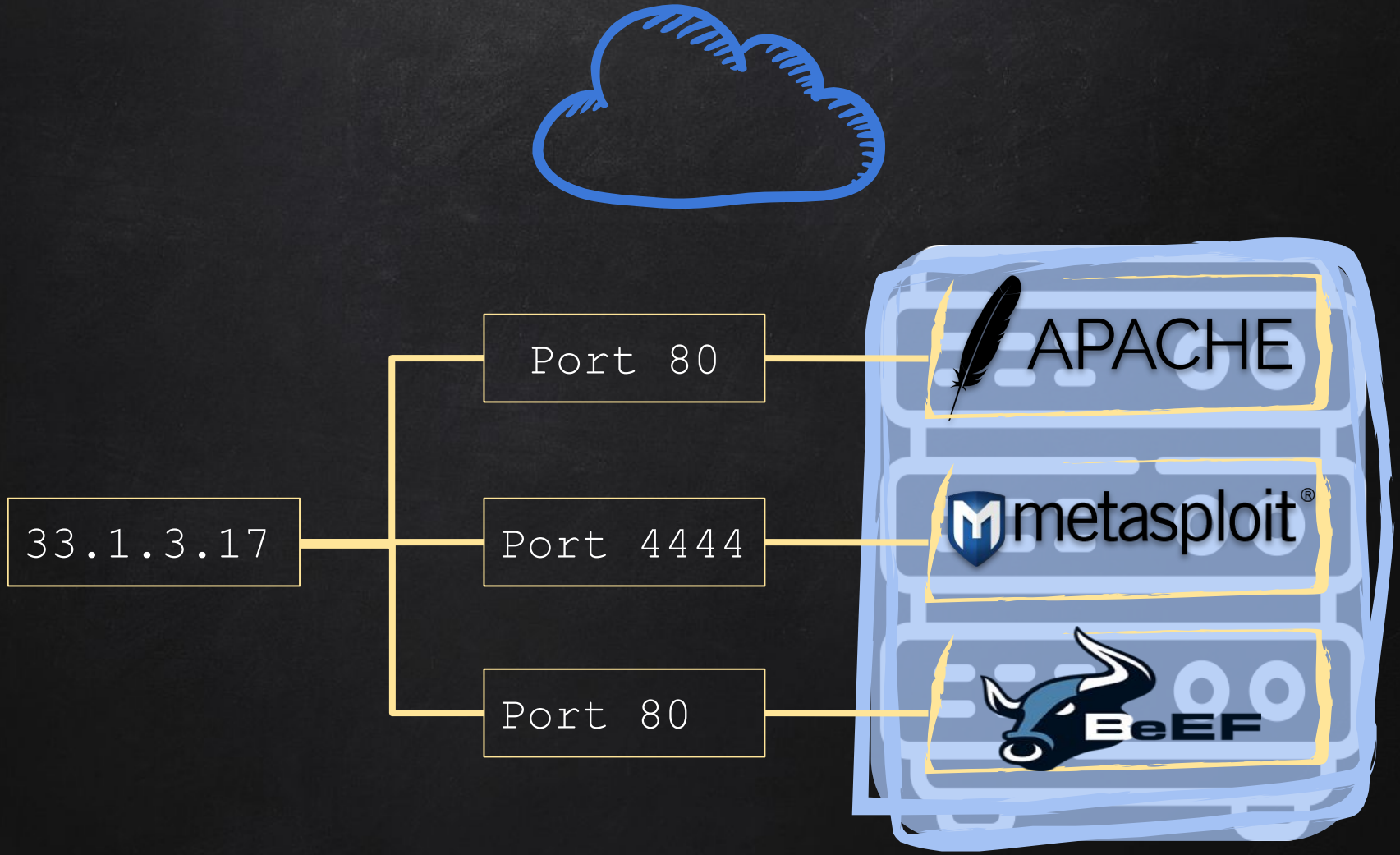
GOOGLE WEB SERVER
204.79.197.200

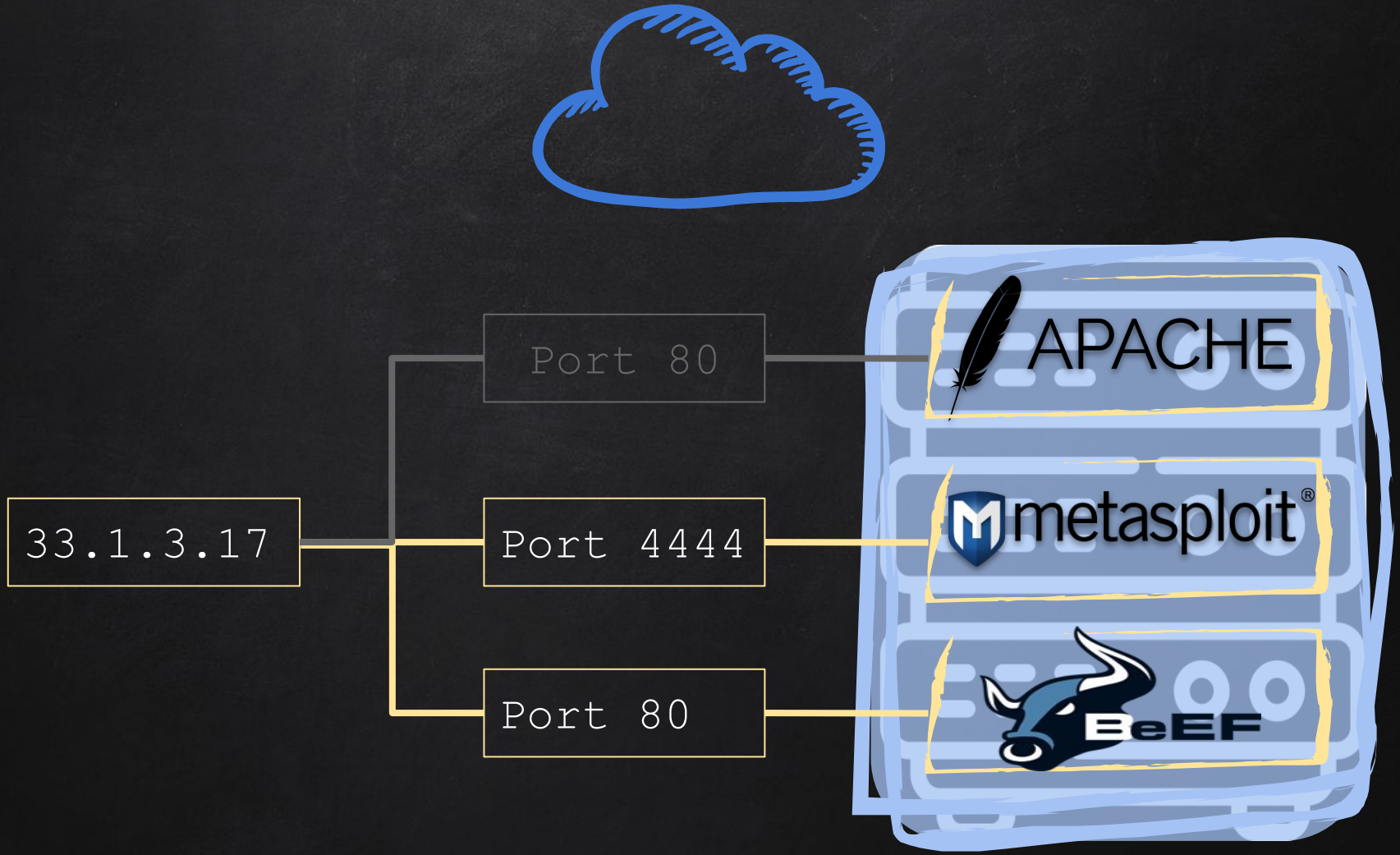


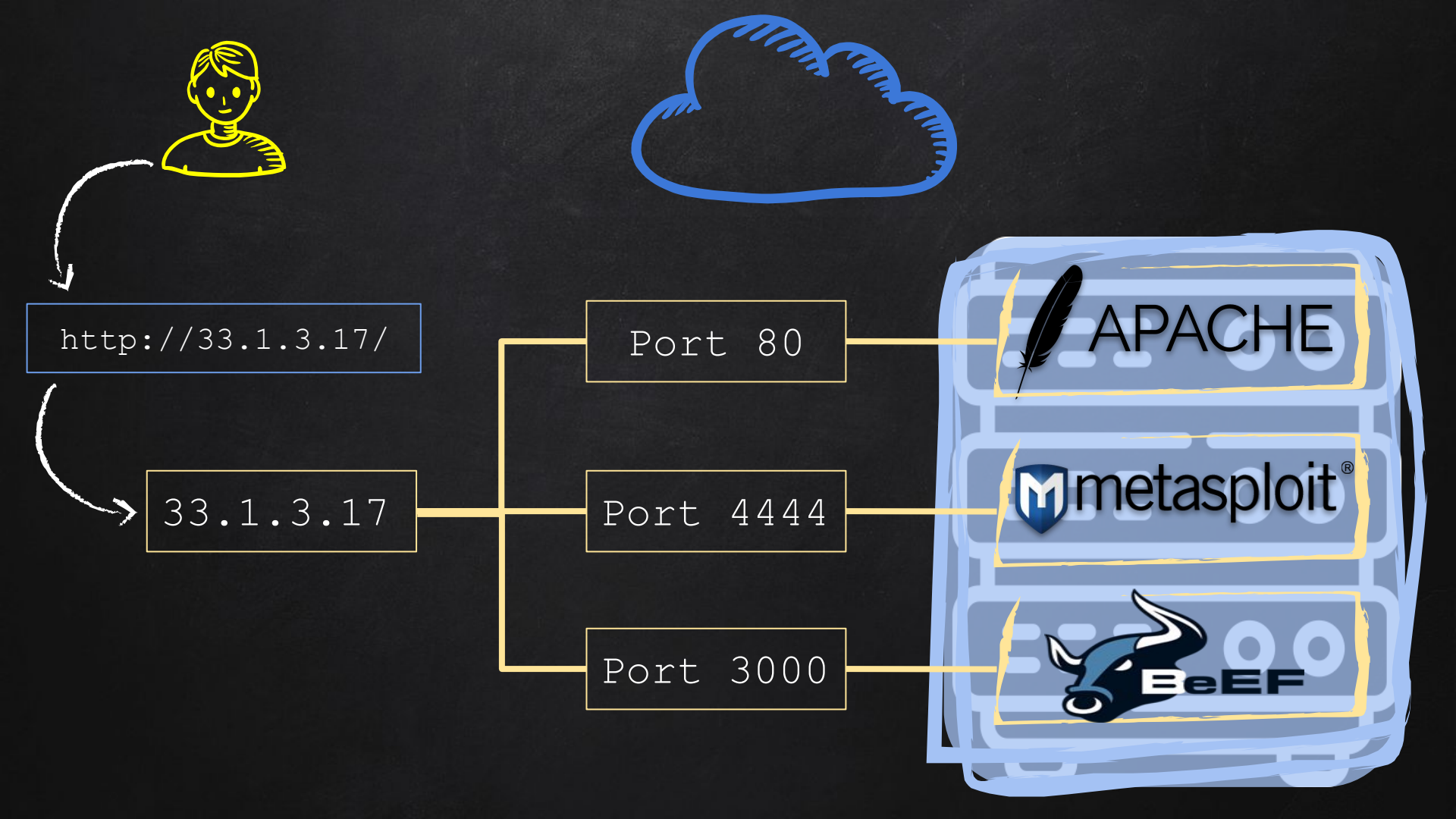
DNS SERVER




Port 80
Port 4444
Port 3000
33.1.3.17
APACHE
metasploit
BeEF


Port 80
33.1.3.17
Port 4444
Port 80
APACHE
metasploit®
BeEF


Port 80
33.1.3.17
Port 4444
Port 80
APACHE
metasploit®
BeEF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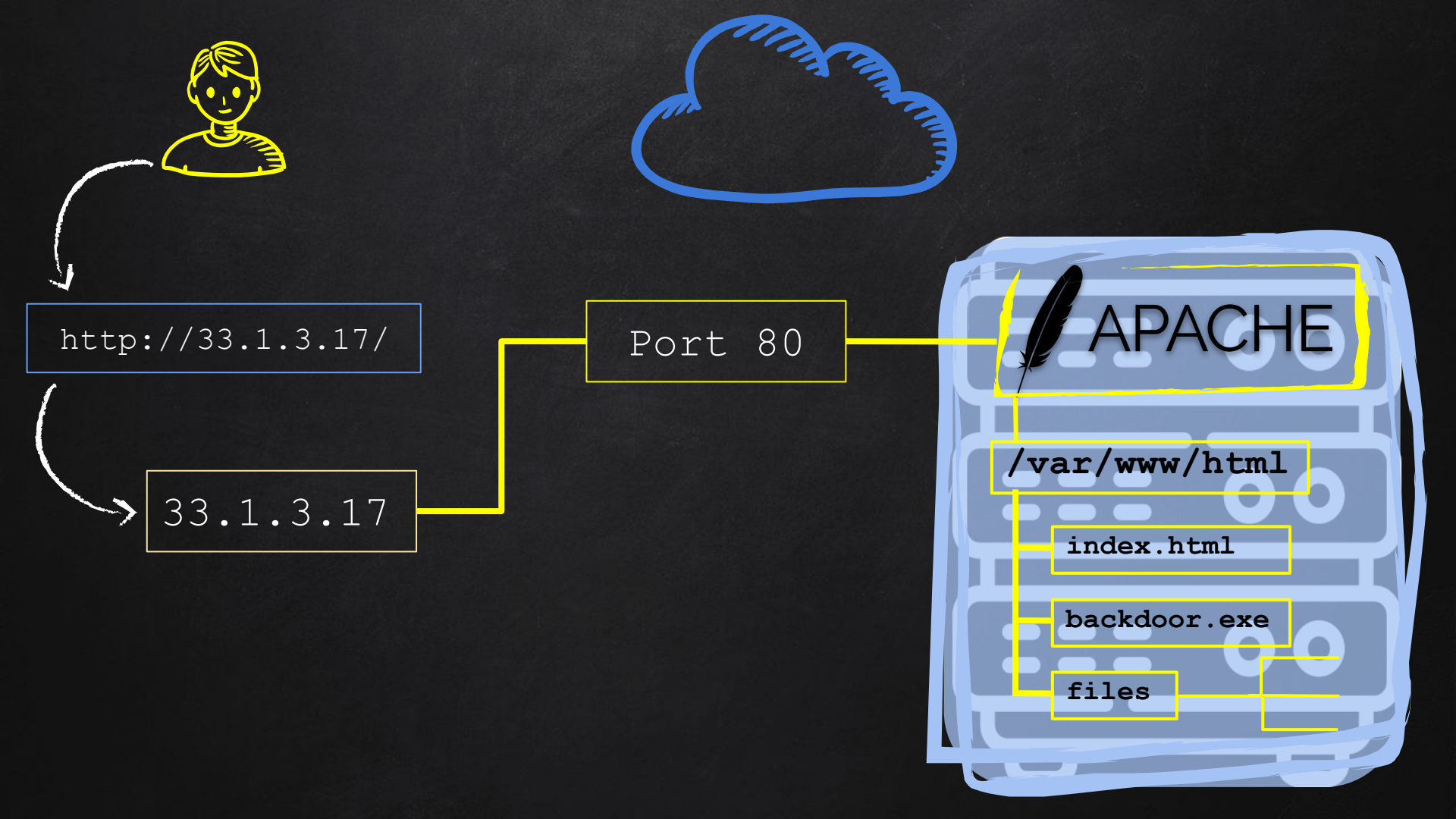
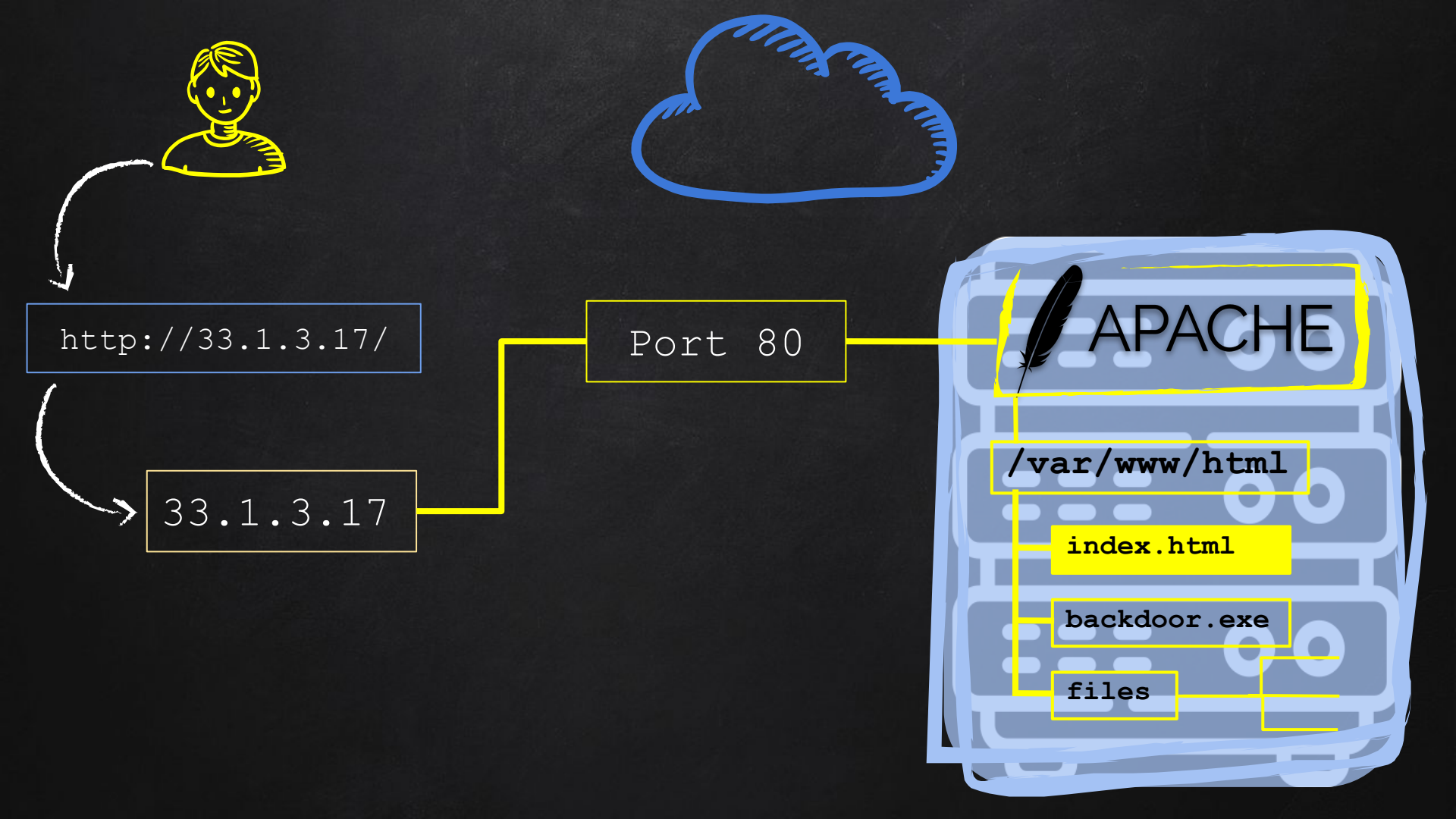
33.1.3.17
Port 80
Port 4444
Port 3000
APACHE
metasploit®
BeEF


http://33.1.3.17/
33.1.3.17
Port 80
APACHE
/var/www/html
index.html
backdoor.exe
files


http://33.1.3.17/
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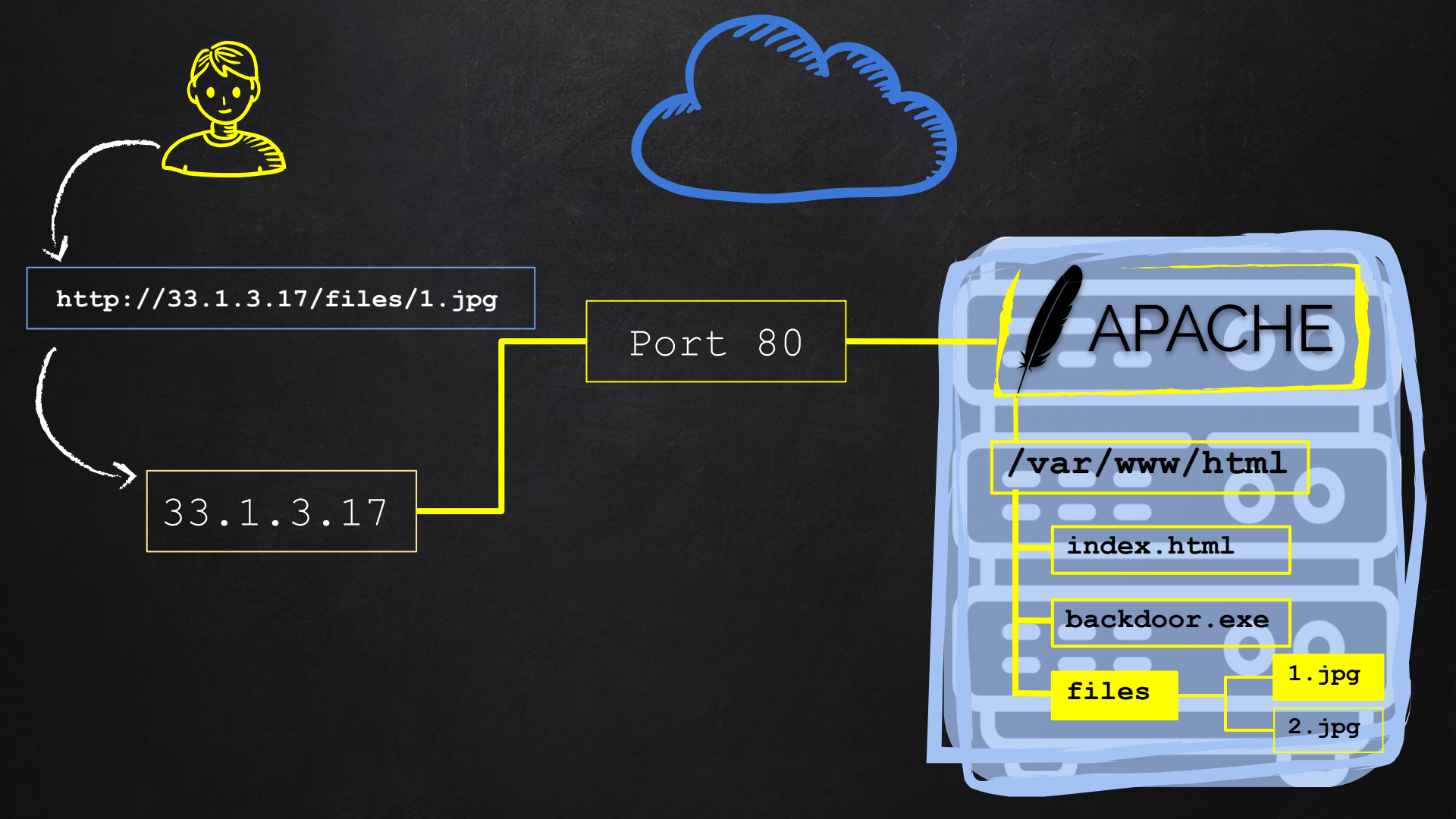
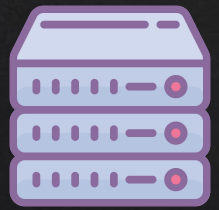
Port 80
APACHE
/var/www/html
index.html
backdoor.exe
files


http://33.1.3.17/files/1.jpg
33.1.3.17
Port 80
APACHE
/var/www/html
index.html
backdoor.exe
files
1.jpg
2.jpg

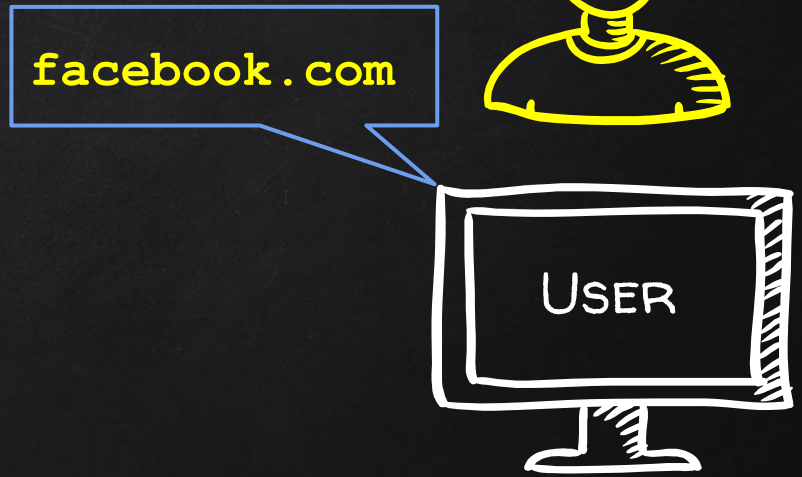
FACEBOOK WEB SERVER
195.44.2.1

HACKER WEB SERVER
44.204.13.14

GOOGLE WEB SERVER
204.79.197.200



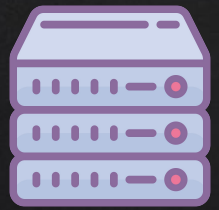
DNS SERVER



FACEBOOK WEB SERVER
195.44.2.1

HACKER WEB SERVER
44.204.13.14

GOOGLE WEB SERVER
204.79.197.200

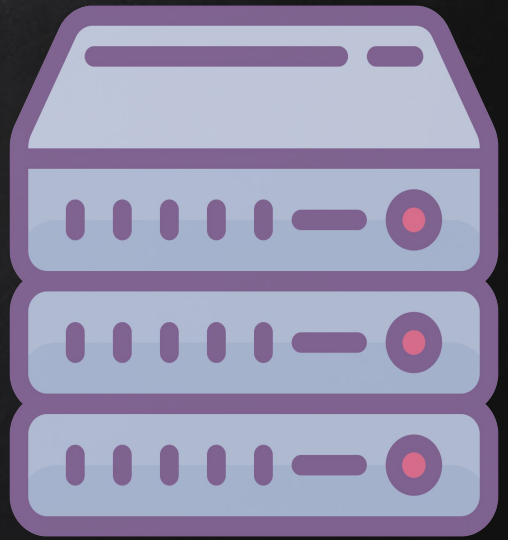


DNS SERVER

FACEBOOK.COM

DNS Records

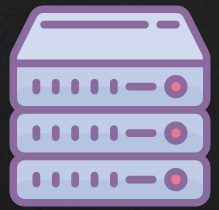
google.com	A	204.79.197.200
facebook.com	A	195.44.2.1
zsecurity.org	A	104.27.153.174
……..etc		



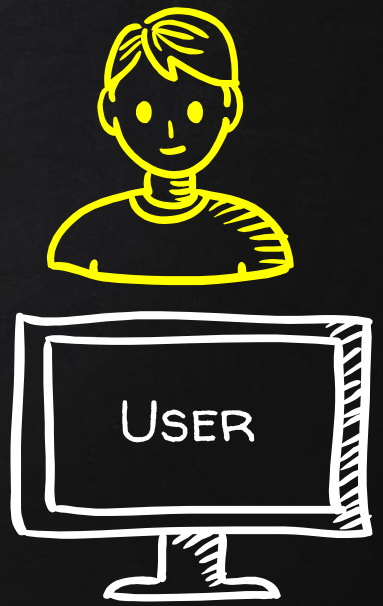
FACEBOOK WEB SERVER
195.44.2.1

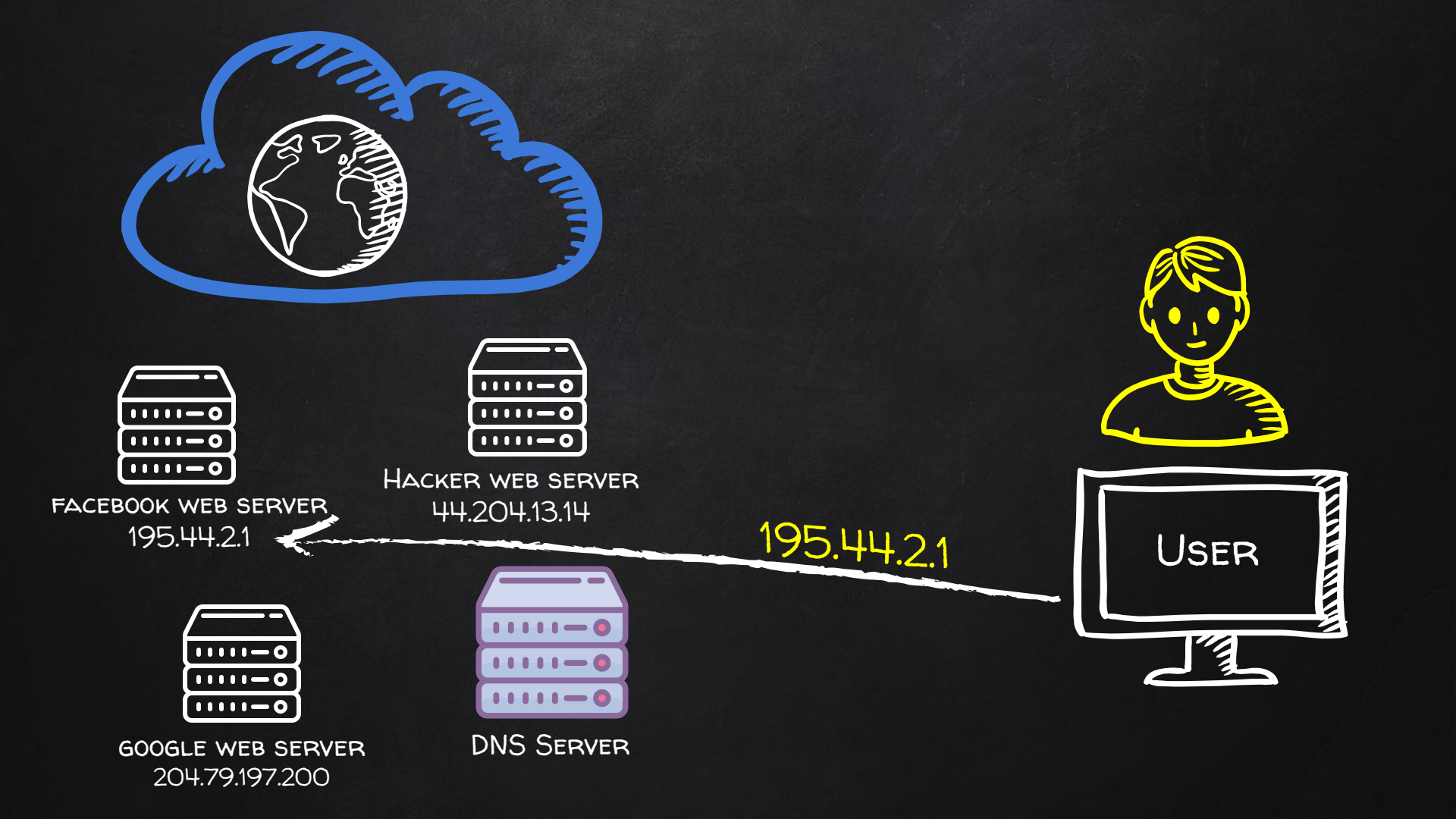
HACKER WEB SERVER
44.204.13.14

GOOGLE WEB SERVER
204.79.197.200



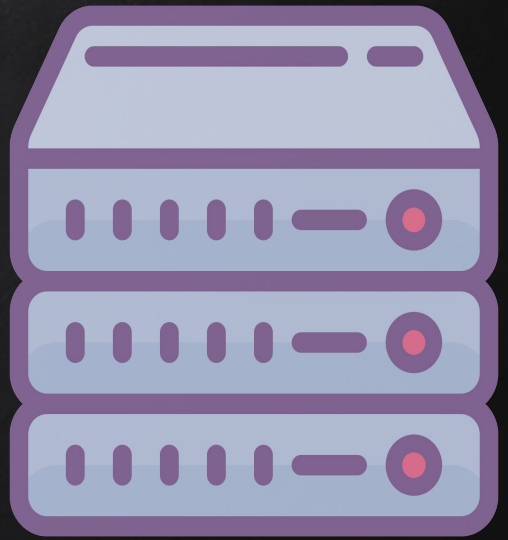
DNS SERVER




FACEBOOK WEB SERVER
195.44.2.1
HACKER WEB SERVER
44.204.13.14
195.44.2.1
USER
GOOGLE WEB SERVER
204.79.197.200
DNS SERVER

DNS Records

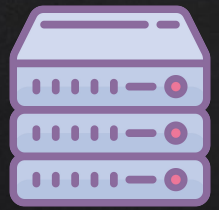
google.com	A	204.79.197.200
facebook.com	A	195.44.2.1
zsecurity.org	A	104.27.153.174
loginpage.com	A	44.204.13.14



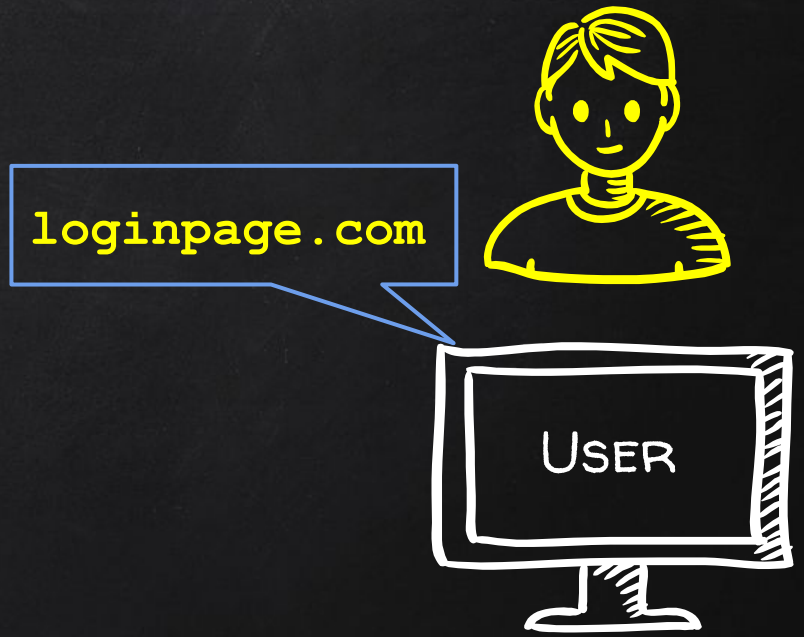
FACEBOOK WEB SERVER
195.44.2.1

HACKER WEB SERVER
44.204.13.14

GOOGLE WEB SERVER
204.79.197.200



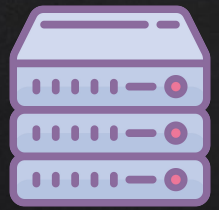
DNS SERVER



FACEBOOK WEB SERVER
195.44.2.1

HACKER WEB SERVER
44.204.13.14

GOOGLE WEB SERVER
204.79.197.200

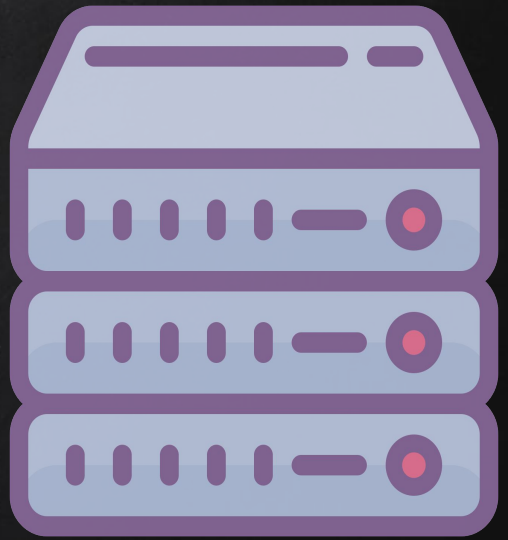


DNS SERVER

LOGINPAGE.COM

DNS Records

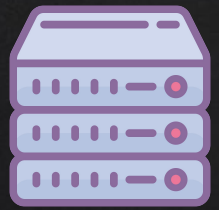
google.com	A	204.79.197.200
facebook.com	A	195.44.2.1
zsecurity.org	A	104.27.153.174
loginform.com	A	44.204.13.14



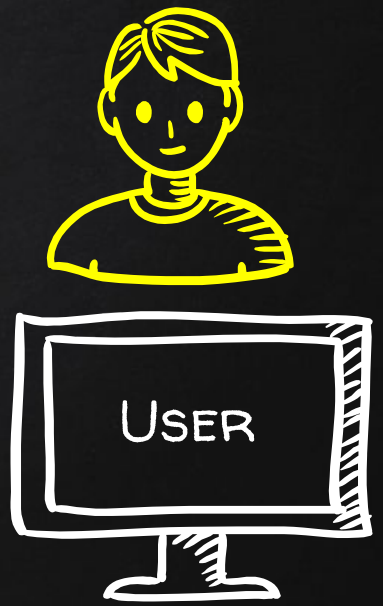
FACEBOOK WEB SERVER
195.44.2.1

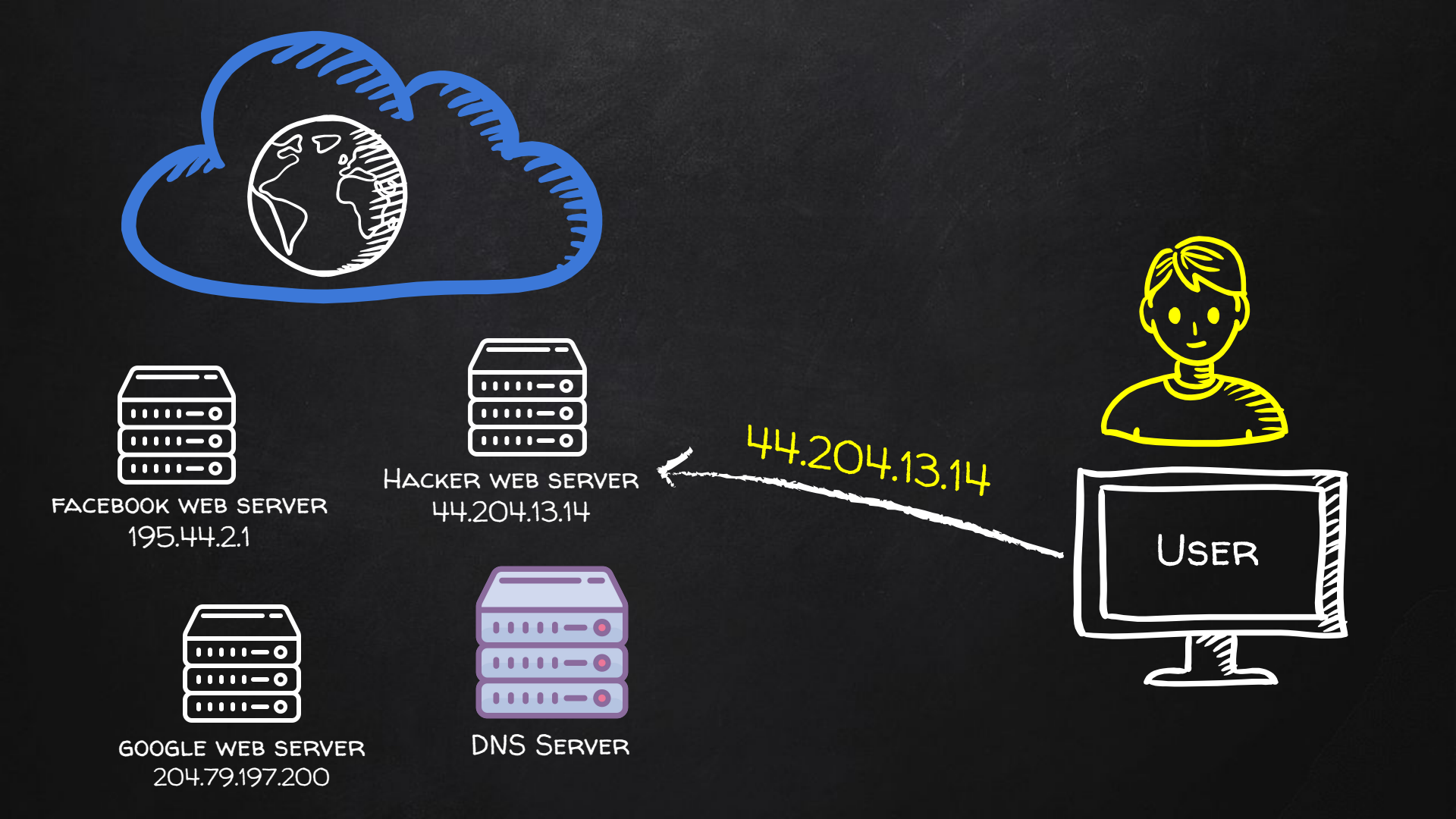
HACKER WEB SERVER
44.204.13.14

GOOGLE WEB SERVER
204.79.197.200

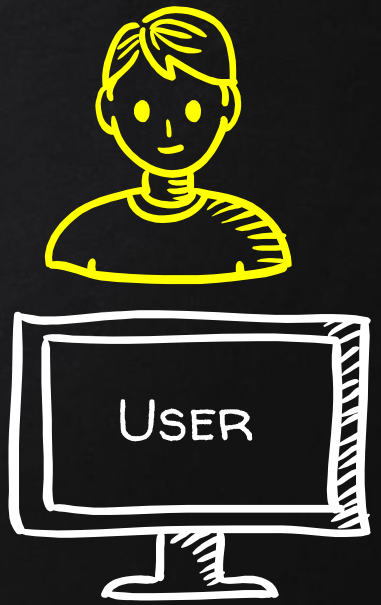


DNS SERVER




FACEBOOK WEB SERVER
195.44.2.1
HACKER WEB SERVER
44.204.13.14
44.204.13.14
USER
GOOGLE WEB SERVER
204.79.197.200
DNS SERVER

Hacker web server
44.204.13.14



HTTPS

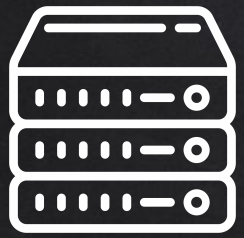
HTTPS
Secure
SSL / TLS

HTTP

Google.com

Password

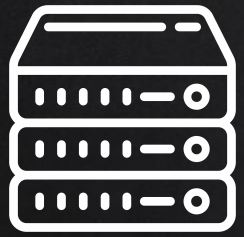
HTTP



Google.com

Password

HTTPS



Google.com

****

Private Key

Public Key

Google.com

Private Key

Google.com

TLS Certificate

Private Key

Google.com

TLS
Certificate

TLS
Certificate

Private Key

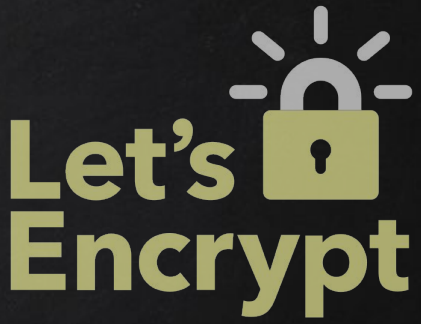
TLS Certificate

Google.com

TLS Certificate

What is a Let's Encrypt?

- Certificate authority.
- Non-profit organisation.



→ Can be used to generate **free** TLS certificates.