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# BUILD & RUN YOUR OWN MINECRAFT SERVER

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We walk-through how to build your own Minecraft server & run it for under €10 a month. This video was inspired by one of our kids that required a Minecraft server to play on with friends.

We have hosted the following open Minecraft server should you want to test before building. <https://hendcraft.com/hcaws/>

Note: The aim is to show you how to build a minecraft server. What we don't cover in this setup is how to secure the server. Highly recommend that you always follow industry security & hardening standards.

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--Start--

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URL's used

Hetzner Cloud - <https://accounts.hetzner.com/login>

Minecraft Server Download - <https://www.minecraft.net/en-us/download/server/>

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--Steps--

1. Navigate to <https://accounts.hetzner.com/login> and commission your selected ubuntu server.
2. Open your ssh client and ssh to the server you just commissioned.

***ssh root@your-server-ip***

2. Enter the password that was provided to you in the mail from Hetzner. It will prompt you to select a new password. input your password and again to confirm it.
3. update your server instances software

***apt-get update***

***apt-get upgrade***

4. Next install Java as Minecraft version we installing requires it. When prompted if you want to continue select yes.

***apt-get install openjdk-14-jdk***

5. Validate the JDK install

***java --version***

6. Create a directory for the Minecraft server to run.

***cd /opt***

***mkdir minecraft***

***cd /opt/minecraft***

7. Download the "server.jar" from the minecraft.net site.

***wget <https://launcher.mojang.com/v1/objects/a412fd69db1f81db3f511c1463fd304675244077/server.jar>***

8. Install screen. Screen provides the ability to run multiple shell sessions from a single ssh session. This will allow us to launch the minecraft server and detach from the session allowing the Minecraft server to continue to run.

***apt-get install screen***

9. Launch the Minecraft server for the first time.

```
cd /opt/minecraft
```

```
java -Xmx2GB -Xms1G -jar server.jar -nogui
```

10. You will be prompted to agree to the eula. Open the eula file with a file editor like vi or nano.

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vi eula.txt. (Update the line "eula=false to eula=true")
```

11. Once the eula has been accepted. Launch the Minecraft server again. Once running you can disconnect from the screen session with Ctrl+a+d

```
cd /opt/minecraft
```

```
java -Xmx2GB -Xms1G -jar server.jar -nogui
```

12. Launch your minecraft client. Select Play.

13. Select Multiplayer

14. Select Add Server

15. Input the details of your server. Provide a name and enter your server public IP. The select done.

16. Select the server entry you just added and click on "Join Server"

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## PDF Version

<https://www.hendgrow.com/ugs/BUILD-AND-RUN-YOUR-OWN-MINECRAFT-SERVER.pdf>

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## HendGrow walk-through Video

<https://hendgrow.com/2020/07/19/build-run-your-own-minecraft-server/>

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