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# Minecraft Server

This is a guide to install a Minecraft server that will start on boot.  
I have based this guide on Ubuntu 16.04 LTS

## Update & Upgrade

First we must update the system using these commands.

```
sudo apt-get update  
sudo apt-get dist-upgrade
```

## Install Dependencies

Next we will install the dependencies required

```
sudo apt-get install openjdk-8-jre openjdk-8-jre-headless curl screen nano  
bash grep -y
```

## Setup User

Switch user to root:

```
su -
```

Add the user and group 'Minecraft':

```
adduser minecraft  
groupadd minecraft
```

Add the Minecraft user to the related group:

```
usermod -a -G minecraft minecraft
```

Make home directory for Minecraft user

```
mkdir /home/minecraft
```

## Setup Minecraft Server

Open port on the firewall to allow the Minecraft server traffic:

```
sudo ufw allow 25565/tcp
```

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Switch to the Minecraft user:

```
su minecraft
```

Change to the Minecraft home directory:

```
cd
```

Download the Minecraft server jar file:

Either download from [Minecraft Server](#)

or use the command:

```
wget  
https://launcher.mojang.com/mc/game/1.12.2/server/886945bfb2b978778c3a0288fd  
7fab09d315b25f/server.jar
```

Test that the server works with:

```
java -Xmx1024M -Xms1024M -jar minecraft_server.jar nogui
```

I'm using 1GB, you can use more if you want

Accept the EULA in order to use the server software:

```
sed -i.orig 's/eula=false/eula=true/g' eula.txt
```

Test the server again. It should run this time as we have accepted the EULA.

```
java -Xmx2048M -Xms2048M -jar minecraft_server.jar nogui
```

After this you can configure the settings in the relevant files stored within the server.

## Making the Systemd Unit File

Switch to root user:

```
su
```

Create the systemd file to boot the server on launch:

```
nano /etc/systemd/system/minecraft-server.service
```

Copy and paste this text into the file, change your settings accordingly (if you have followed this guide, leave as default.)

```
[Unit] Description=start and stop the minecraft-server  
  
[Service] WorkingDirectory=/home/minecraft  
User=mincraft
```

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```
Group=mincraft
Restart=on-failure
RestartSec=20 5
ExecStart=/usr/bin/java -Xms2048M -Xmx2048M -jar server.jar nogui

[Install] WantedBy=multi-user.target
Alias=mincraft.service
```

Start the server with:

```
systemctl start minecraft-server.service
```

Stop the server with:

```
systemctl stop minecraft-server.service
```

To start the server on boot, run:

```
systemctl enable minecraft-server.service
```