How To Make A Paper Server In Minecraft - TheBreakdown.xyz

This article will show you how to make a Paper Minecraft server. PaperMC is Minecraft server software that is based on Bukkit/Spigot. However, Paper improves Minecraft's performance, reduces lag, and overall, gives you a much better Minecraft server experience. So much of a better experience in fact, that we do not recommend starting a Minecraft server unless you are using a Paper server jar. Thus, in this video, we will show you how to start a Paper Minecraft server to start getting the best performance possible out of your Minecraft server!

How To Start A Paper Minecraft Server in Minecraft

Step 1) Download Paper

The first step of making a Paper Minecraft server is downloading the Paper.jar. To this, simply click here or the big yellow download button above to get to the official PaperMC download page. Once you are on the Paper download page, download the most recent build of Paper by click on the number under 'Build'. In the screen shot above, this is #591. However, for each new Minecraft release (1.18 for example), the build number resets. Because of this, your build number may be lower. That's why we say just download the version at the very top! Once you click the build number button, your download will begin. You will need to keep/save the file depending on your browser.

Step 2) Create A New Folder For Your Server

Now that you have downloaded the Paper server jar, you need to create a folder to host your server in. I typically do this on the desktop so it is easily accessible. You can call this new folder whatever you want just make sure it is easily identifiable so you don't accidentally delete it and lose your entire server. After you have created the new folder, drag the Paper file you downloaded into it.

Step 3) Create Your run.bat File

Once you've got your PaperMC file in its own folder, you will then need to create a file to actually get it up and running. To this, we will create a new text document with notepad. In this new text document paste the following code. You also need to rename the .jar file you downloaded to 'paper.jar' in order for this to work.

java -Xmx2048M -jar paper.jar -o true PAUSE

After you've pasted the above code into the notepad document, you want to click 'File' and then 'Save As'. This will then open up the save dialogue box where you want to name the file 'run.bat'. After that, you want to make sure you change 'Save as type:" from 'Text Documents' to 'All Files'. Once that is done, you can click save. You can now close out of all the Notepad documents you have open.

Step 4) Run Your Server & Accept The EULA

Now that you have created the 'run.bat' file it is time to double-click on it. When you do this, a CMD box will open, do somethings, and then tell you to press any key to continue. When do this, the command prompt will close. You'll notice, however, some folders and text documents have magically appeared in your Paper server folder. You want to click on the one title 'EULA' and open it in Notepad. Once it has opened, simply find the line that says 'EULA=false' and change it to say 'EULA=true'. This says you are agreeing to the Minecraft EULA, so be sure you have read it and accept it before making this change. Next, click save and move on to step 5!

Step 5) Run The Server Again & Let Everything Download

Now that you have accepted the EULA, you'll want to double-click on the 'run.bat' file again. This will then cause everything else in regards to the server to download. This make take server minutes. Just watch the CMD until it says 'Done'. Once it finally says that, you can go ahead and type 'stop' and hit enter. This will then close out the server. You should now have tons of different folders and files in the Paper Minecraft server folder you created earlier. This is good. At this point, you and anyone else on your own network, think in the same house as you, can join your server using 'localhost' as the IP address. Just start the server and you're done. If however, you want to allow people from across the street or across the world to join your server, you'll need to press on!

Creating a server on your own PC too difficult? Check out Apex Minecraft Hosting where you can get a DDOS protected Paper server for just $5 per month!

Step 6) Find Your IPv4 Address & Default Gateway

Your server is setup, but to be able to actually play with people online, you need to do a few more things. First off, you need to open up your command prompt. To do this, go to the Start Menu and search 'CMD'. A program will show up, and you need to right click on it and select 'Run As Administrator'.

After you've opened command prompt, simply type 'ipconfig' and hit enter. This will make a bunch of random information come through the command prompt. Once it is done, find your IPv4 address and default gateway. Wanna Talk About Minecraft You will need both of these numbers in order to make your server publicly available. Take note of them by either copying them to a notepad document or just leave the CMD open. Once you've got these numbers, you can move on.

Step 7) Login To Your Router

Now, we need to login to your router. In order to do this, simply take your default gateway and type it into your browser as a website. A login box will appear on your screen. Here you want to enter your router's username and password. This is different from your wifi password. There are many different methods to find this information, and you can find our in-depth guide by clicking here.

Check out our in-depth guide to getting your router's password.

Step 8) Port Forward Your Router

Now that you are logged into your router, it is time to port forward it. This is actually really simple once you find the correct place to go. Just look for 'Port Forwarding', 'Apps & Gaming', 'Single Port Forward', or something similar. It could also be in 'advanced' or 'security', so just click around your router until you find it. You aren't going to mess anything up, so don't worry about that.

Once you've found the port forwarding section of your router, it is time to actually port forward. You are going to want to add a new port forward with a starting/internal port of '25565' and ending/external port of 25565. You want the protocol to be 'UDP/TCP', 'UDP & TCP', or 'Both'. No matter what option you have, you are going to want to make sure that both TCP and UDP protocols are selected. For your IP address, this is going to be the IPv4 address that we found earlier. After you've entered all of that information, save the port forward. Congrats! The hard part is done.

Step 9) Launch Into Your Server

All you need to do now is launch your server! To do this, go back to the folder you created in step 2, and double-click the 'Run.bat' file we created in step 3. A command prompt window will open up, and the server will start up. To join the server, simply open up Minecraft, click 'Multiplayer', and then click 'Direct Connect' in the bottom center of the screen. Here, you will enter your IPv4 address, and click "Join Server'. You will then launch into your PaperMC server!

Note: If you want your friends or family to play on your server, they will need to join with your public IP address. To find this, simply click here, and you will see your public IP address in the center of the screen. Give this IP address to your friends to join your server. If your friends have any issues joining off your public IP, check to make sure your port forward was done correctly. Then, if they still can't join, disable your router's and computer's firewalls. This is not recommended, but it may let your friends join if they can't.

Step 10) Install Some Paper Plugins

It's kind of pointless to start a Paper server if you don't get any plugins on it. Thus, you need to get some plugins installed! Luckily for you, we've got an in-depth video on how to do exactly that! You can watch it above or click here to check it out! It will show you everything that you need to know about downloading and install PaperMC plugins in Minecraft.

Step 11) Have Some Fun!

Congratulations! You now have a Paper server up and running in Minecraft! Paper Minecraft servers are absolutely awesome, and if you set up a plugin like Tebex, you can actually monetize your server and start making money from it! You can also get incredible plugins like WorldEdit, LuckPerms, and EssentialsX in order to improve Minecraft and make it even more fun.

If you do have any more questions or issues getting your Paper server up and running in Minecraft, please post in the comment below. We are more than happy to help you out in any way we can. Our goal is to help you get your PaperMC server up and running! Also, be sure to check out our video tutorial on how to start a Paper server in Minecraft by clicking here. Nevertheless, thanks for reading, and we hope you love your Paper Minecraft server!

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