

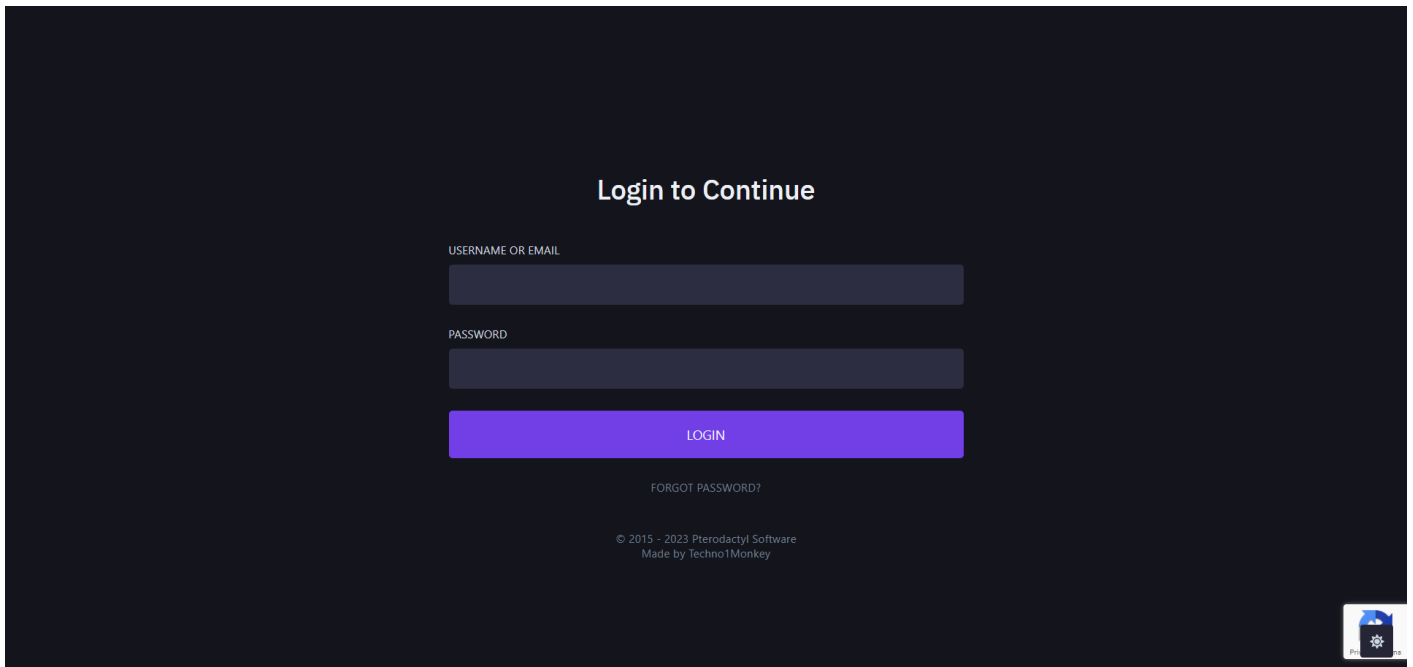
Geyser + Floodgate

- [Standalone \(Spigot & Forks\)](#)
- [Velocity](#)

Standalone (Spigot & Forks)

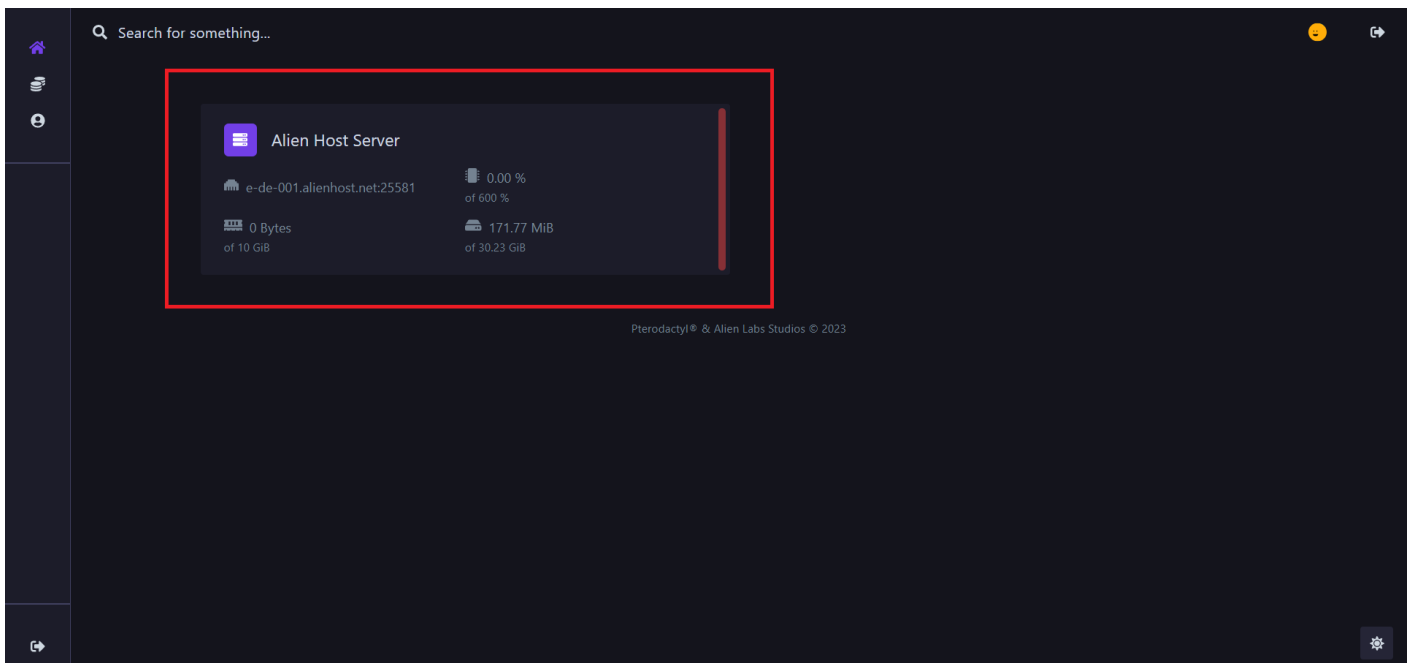
1. Login

Get started by logging into the panel [here](#)

A screenshot of the Pterodactyl login interface. The background is dark blue. In the center, the text "Login to Continue" is displayed in white. Below this, there are two input fields: "USERNAME OR EMAIL" and "PASSWORD", both with dark blue borders. A red "LOGIN" button is positioned below the password field. Under the button, there is a link for "FORGOT PASSWORD?". At the bottom center, the copyright notice "© 2015 - 2023 Pterodactyl Software" and "Made by Techno1Monkey" are visible. In the bottom right corner, there is a small Pterodactyl logo featuring a blue pterosaur head.

2. Panel

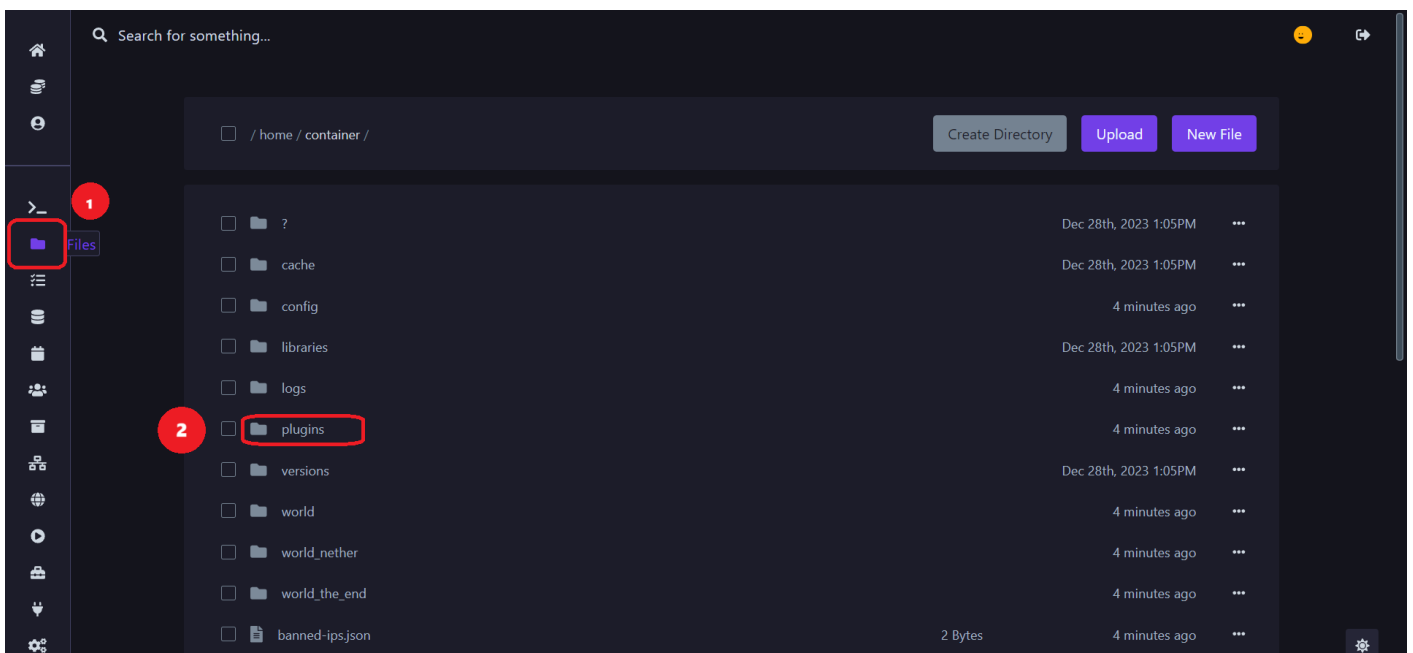
After you log into your account (or if you're already logged in), click on the server where you want to allow bedrock support.



3. Navigate to the directory

Begin by starting your server if it's not already running.

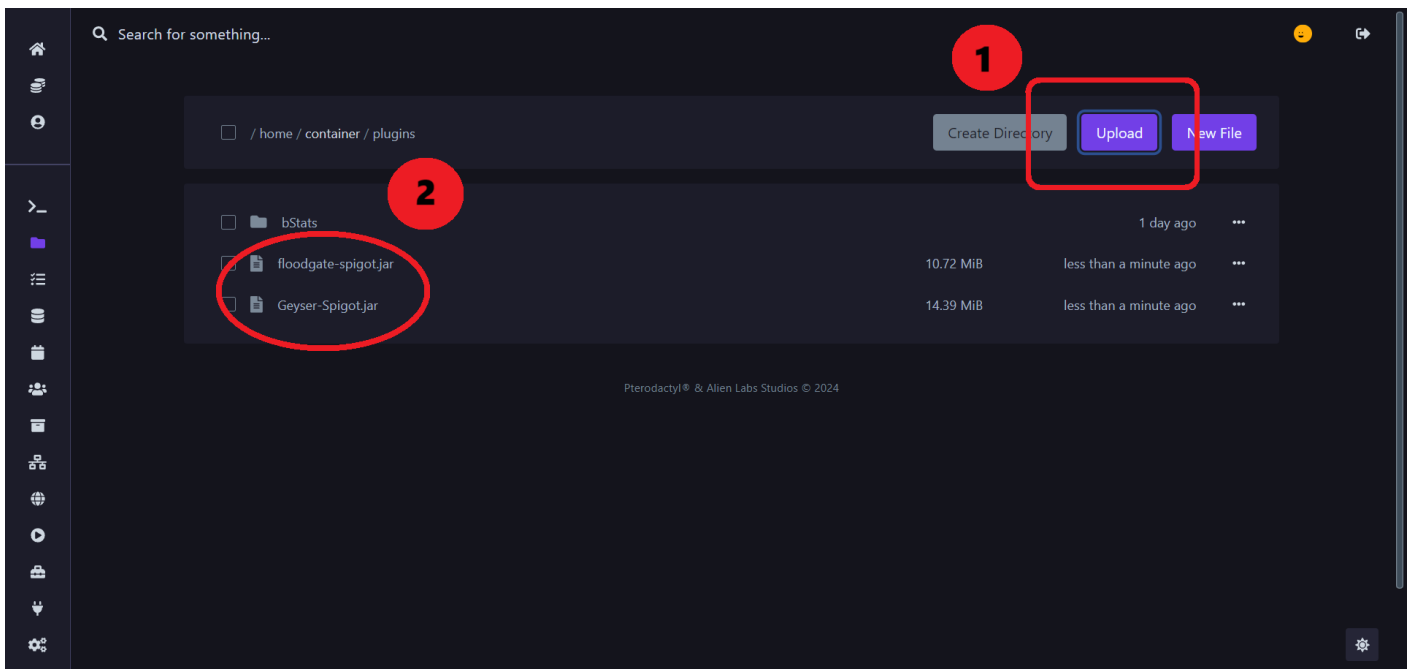
1. Next, go to the file manager.
2. Within the file manager, locate and navigate to the plugins folder



3a. Upload the files

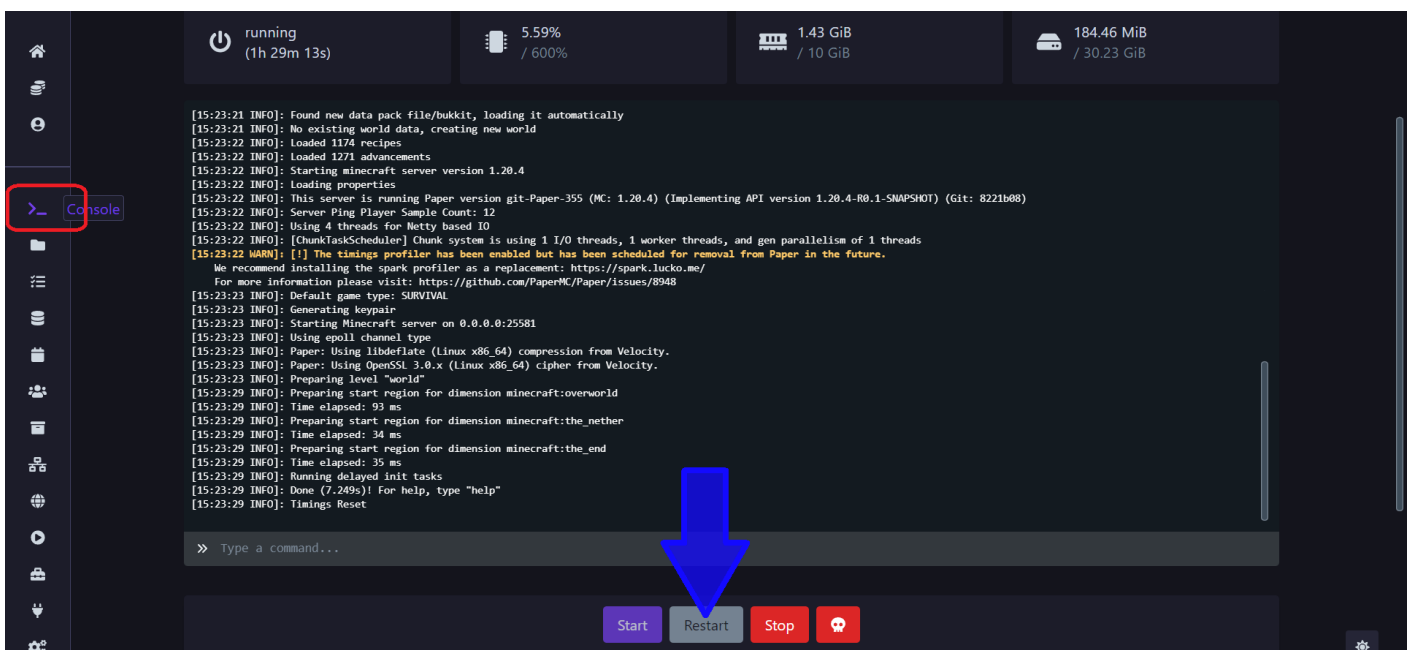
Inside the **plugins** folder, upload Geyser & Floodgate

1. To do this, click on the upload button (as shown in the picture below).
2. Once the upload is complete, the files will be visible in the file manager.



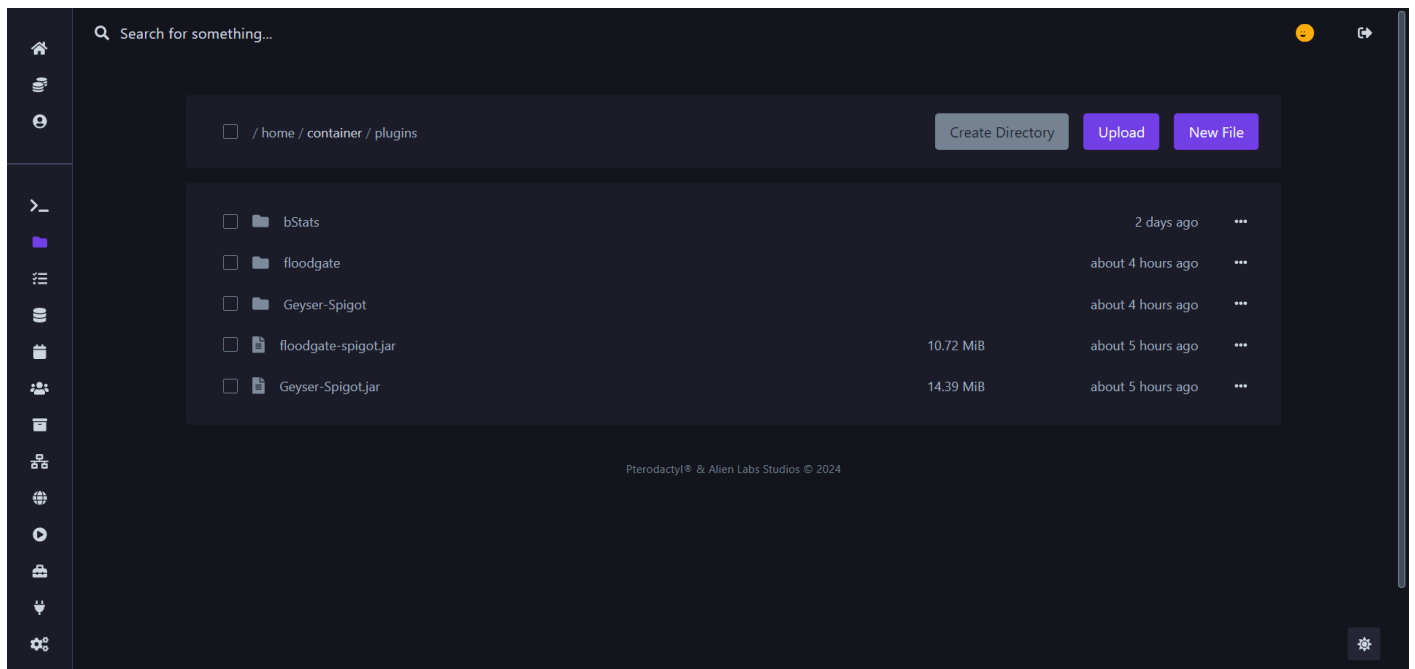
4. Restart the server

Return to the console and press the "restart" button. (to load the plugins folder)



5. Configure

Now, return to the plugins folder as you did in steps 3 and 3a. You will see two new folders named "Geyser-Spigot" and "floodgate".



5a. Geyser

Click on the folder labeled "Geyser-Spigot"

Inside, you will find a file named config.yml , open it

default config.yml

```
# -----  
# Geyser Configuration File  
#  
# A bridge between Minecraft: Bedrock Edition and Minecraft: Java Edition.  
#  
# GitHub: https://github.com/GeyserMC/Geyser  
# Discord: https://discord.gg/geysermc  
# Wiki: https://wiki.geysermc.org/  
#  
# NOTICE: See https://wiki.geysermc.org/geyser/setup/ for the setup guide. Many video tutorials are  
# outdated.  
# In most cases, especially with server hosting providers, further hosting-specific configuration is required.  
# -----  
  
bedrock:  
# The IP address that will listen for connections.  
# Generally, you should only uncomment and change this if you want to limit what IPs can connect to your
```

server.

#address: 0.0.0.0

The port that will listen for connections

port: 19132

Some hosting services change your Java port everytime you start the server and require the same port to be used for Bedrock.

This option makes the Bedrock port the same as the Java port every time you start the server.

This option is for the plugin version only.

clone-remote-port: false

The MOTD that will be broadcasted to Minecraft: Bedrock Edition clients. This is irrelevant if

"passthrough-motd" is set to true

If either of these are empty, the respective string will default to "Geyser"

motd1: "Geyser"

motd2: "Another Geyser server."

The Server Name that will be sent to Minecraft: Bedrock Edition clients. This is visible in both the pause menu and the settings menu.

server-name: "Geyser"

How much to compress network traffic to the Bedrock client. The higher the number, the more CPU usage used, but

the smaller the bandwidth used. Does not have any effect below -1 or above 9. Set to -1 to disable.

compression-level: 6

Whether to enable PROXY protocol or not for clients. You DO NOT WANT this feature unless you run UDP reverse proxy

in front of your Geyser instance.

enable-proxy-protocol: false

A list of allowed PROXY protocol speaking proxy IP addresses/subnets. Only effective when "enable-proxy-protocol" is enabled, and

should really only be used when you are not able to use a proper firewall (usually true with shared hosting providers etc.).

Keeping this list empty means there is no IP address whitelist.

Both IP addresses and subnets are supported.

#proxy-protocol-whitelisted-ips: ["127.0.0.1", "172.18.0.0/16"]

remote:

The IP address of the remote (Java Edition) server

If it is "auto", for standalone version the remote address will be set to 127.0.0.1,

for plugin versions, it is recommended to keep this as "auto" so Geyser will automatically configure address, port, and auth-type.

Leave as "auto" if floodgate is installed.

address: auto

```
# The port of the remote (Java Edition) server
# For plugin versions, if address has been set to "auto", the port will also follow the server's listening port.
port: 25565
# Authentication type. Can be offline, online, or floodgate (see
https://github.com/GeyserMC/Geyser/wiki/Floodgate).
# For plugin versions, it's recommended to keep the `address` field to "auto" so Floodgate support is
automatically configured.
# If Floodgate is installed and `address:` is set to "auto", then "auth-type: floodgate" will automatically be
used.
auth-type: online
# Allow for password-based authentication methods through Geyser. Only useful in online mode.
# If this is false, users must authenticate to Microsoft using a code provided by Geyser on their desktop.
allow-password-authentication: true
# Whether to enable PROXY protocol or not while connecting to the server.
# This is useful only when:
# 1) Your server supports PROXY protocol (it probably doesn't)
# 2) You run Velocity or BungeeCord with the option enabled in the proxy's main config.
# IF YOU DON'T KNOW WHAT THIS IS, DON'T TOUCH IT!
use-proxy-protocol: false
# Forward the hostname that the Bedrock client used to connect over to the Java server
# This is designed to be used for forced hosts on proxies
forward-hostname: false

# Floodgate uses encryption to ensure use from authorised sources.
# This should point to the public key generated by Floodgate (BungeeCord, Spigot or Velocity)
# You can ignore this when not using Floodgate.
# If you're using a plugin version of Floodgate on the same server, the key will automatically be picked up
from Floodgate.
floodgate-key-file: key.pem

# For online mode authentication type only.
# Stores a list of Bedrock players that should have their Java Edition account saved after login.
# This saves a token that can be reused to authenticate the player later. This does not save emails or
passwords,
# but you should still be cautious when adding to this list and giving others access to this Geyser instance's
files.
# Removing a name from this list will delete its cached login information on the next Geyser startup.
# The file that tokens will be saved in is in the same folder as this config, named "saved-refresh-
tokens.json".
```

saved-user-logins:

- ThisExampleUsernameShouldBeLongEnoughToNeverBeAnXboxUsername
- ThisOtherExampleUsernameShouldAlsoBeLongEnough

Specify how many seconds to wait while user authorizes Geyser to access their Microsoft account.

User is allowed to disconnect from the server during this period.

pending-authentication-timeout: 120

Bedrock clients can freeze when opening up the command prompt for the first time if given a lot of commands.

Disabling this will prevent command suggestions from being sent and solve freezing for Bedrock clients.

command-suggestions: true

The following three options enable "ping passthrough" - the MOTD, player count and/or protocol name gets retrieved from the Java server.

Relay the MOTD from the remote server to Bedrock players.

passthrough-motd: true

Relay the player count and max players from the remote server to Bedrock players.

passthrough-player-counts: true

Enable LEGACY ping passthrough. There is no need to enable this unless your MOTD or player count does not appear properly.

This option does nothing on standalone.

legacy-ping-passthrough: false

How often to ping the remote server, in seconds. Only relevant for standalone or legacy ping passthrough.

Increase if you are getting BrokenPipe errors.

ping-passthrough-interval: 3

Whether to forward player ping to the server. While enabling this will allow Bedrock players to have more accurate

ping, it may also cause players to time out more easily.

forward-player-ping: false

Maximum amount of players that can connect. This is only visual at this time and does not actually limit player count.

max-players: 100

If debug messages should be sent through console

debug-mode: false

Allow third party capes to be visible. Currently allowing:

OptiFine capes, LabyMod capes, 5Zig capes and MinecraftCapes

allow-third-party-capes: false

Allow third party deadmau5 ears to be visible. Currently allowing:

MinecraftCapes

allow-third-party-ears: false

Allow a fake cooldown indicator to be sent. Bedrock players otherwise do not see a cooldown as they still use 1.8 combat.

Please note: if the cooldown is enabled, some users may see a black box during the cooldown sequence, like below:

#

https://cdn.discordapp.com/attachments/613170125696270357/957075682230419466/Screenshot_from_2022-03-25_20-35-08.png

This can be disabled by going into Bedrock settings under the accessibility tab and setting "Text Background Opacity" to 0

This setting can be set to "title", "actionbar" or "false"

show-cooldown: title

Controls if coordinates are shown to players.

show-coordinates: true

Whether Bedrock players are blocked from performing their scaffolding-style bridging.

disable-bedrock-scaffolding: false

If set, when a Bedrock player performs any emote, it will swap the offhand and mainhand items, just like the Java Edition keybind

There are three options this can be set to:

disabled - the default/fallback, which doesn't apply this workaround

no-emotes - emotes will NOT be sent to other Bedrock clients and offhand will be swapped. This effectively disables all emotes from being seen.

emotes-and-offhand - emotes will be sent to Bedrock clients and offhand will be swapped

emote-offhand-workaround: "disabled"

The default locale if we dont have the one the client requested. Uncomment to not use the default system language.

default-locale: en_us

Specify how many days images will be cached to disk to save downloading them from the internet.

A value of 0 is disabled. (Default: 0)

cache-images: 0

Allows custom skulls to be displayed. Keeping them enabled may cause a performance decrease on older/weaker devices.

allow-custom-skulls: true

The maximum number of custom skulls to be displayed per player. Increasing this may decrease performance on weaker devices.

Setting this to -1 will cause all custom skulls to be displayed regardless of distance or number.

max-visible-custom-skulls: 128

The radius in blocks around the player in which custom skulls are displayed.

custom-skull-render-distance: 32

Whether to add any items and blocks which normally does not exist in Bedrock Edition.

This should only need to be disabled if using a proxy that does not use the "transfer packet" style of server switching.

If this is disabled, furnace minecart items will be mapped to hopper minecart items.

Geyser's block, item, and skull mappings systems will also be disabled.

This option requires a restart of Geyser in order to change its setting.

add-non-bedrock-items: true

Bedrock prevents building and displaying blocks above Y127 in the Nether.

This config option works around that by changing the Nether dimension ID to the End ID.

The main downside to this is that the entire Nether will have the same red fog rather than having different fog for each biome.

above-bedrock-nether-building: false

Force clients to load all resource packs if there are any.

If set to false, it allows the user to connect to the server even if they don't

want to download the resource packs.

force-resource-packs: true

Allows Xbox achievements to be unlocked.

THIS DISABLES ALL COMMANDS FROM SUCCESSFULLY RUNNING FOR BEDROCK IN-GAME, as otherwise Bedrock thinks you are cheating.

xbox-achievements-enabled: false

Whether player IP addresses will be logged by the server.

log-player-ip-addresses: true

Whether to alert the console and operators that a new Geyser version is available that supports a Bedrock version

that this Geyser version does not support. It's recommended to keep this option enabled, as many Bedrock platforms

auto-update.

notify-on-new-bedrock-update: true

Which item to use to mark unavailable slots in a Bedrock player inventory. Examples of this are the 2x2 crafting grid while in creative,

or custom inventory menus with sizes different from the usual 3x9. A barrier block is the default item.

unusable-space-block: minecraft:barrier

bStats is a stat tracker that is entirely anonymous and tracks only basic information

about Geyser, such as how many people are online, how many servers are using Geyser,

what OS is being used, etc. You can learn more about bStats here: <https://bstats.org/>.

<https://bstats.org/plugin/server-implementation/GeyserMC>

metrics:

If metrics should be enabled

enabled: true

UUID of server, don't change!

uuid: 638741bf-5803-41be-92a9-7e8677e7a73c

ADVANCED OPTIONS - DO NOT TOUCH UNLESS YOU KNOW WHAT YOU ARE DOING!

Geyser updates the Scoreboard after every Scoreboard packet, but when Geyser tries to handle

a lot of scoreboard packets per second can cause serious lag.

This option allows you to specify after how many Scoreboard packets per seconds

the Scoreboard updates will be limited to four updates per second.

scoreboard-packet-threshold: 20

Allow connections from ProxyPass and Waterdog.

See <https://www.spigotmc.org/wiki/firewall-guide/> for assistance - use UDP instead of TCP.

enable-proxy-connections: false

The internet supports a maximum MTU of 1492 but could cause issues with packet fragmentation.

1400 is the default.

mtu: 1400

Whether to connect directly into the Java server without creating a TCP connection.

This should only be disabled if a plugin that interfaces with packets or the network does not work correctly with Geyser.

If enabled on plugin versions, the remote address and port sections are ignored

If disabled on plugin versions, expect performance decrease and latency increase

use-direct-connection: true

Whether Geyser should attempt to disable compression for Bedrock players. This should be a benefit as there is no need to compress data

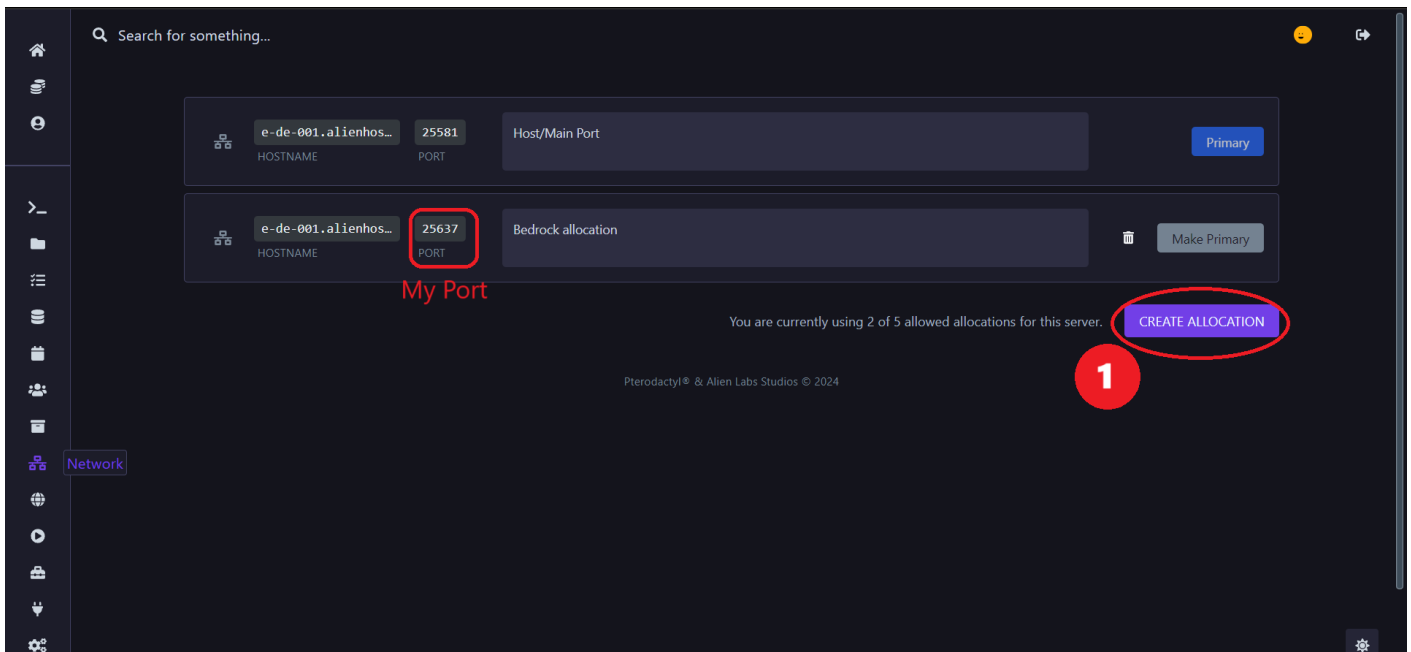
when Java packets aren't being handled over the network.

This requires use-direct-connection to be true.

disable-compression: true

config-version: 4

what you want to modify is the port variable (line 19) to your allocated port in the network tab,
[here a tutorial on how to](#)



the auth-type variable (line 53) should be set to "floodgate".

Now you are done, try & join

Velocity

Make sure to not be using "NONE" forwarding

You'll need an extra port for this tutorial

1. On Velocity

Go in your file manager

Go in plugins folder, upload [GeyserMC](#) and [Floodgate](#)

Restart the server

Go back in the plugins folder

Click on the "Geyser-Velocity" folder

in the Geyser folder, click on config.yml

in bedrock.port set that to your [extra port](#)

then, scroll down to remote.auth-type

set auth-type to floodgate.

In floodgate:

set set-floodgate-data to true.

2. On Backend (Spigot/Paper)

On all of your backend servers, upload [Floodgate-Spigot](#) in the plugins folder

restart the server to load the plugin

download the key.pem from Velocity's Floodgate

upload the downloaded key.pem in the Floodgate-Spigot's folder (on your backend)