

Choosing the Right Amount of Ram for Your Minecraft Server

Selecting the appropriate amount of RAM is crucial to ensuring your Minecraft server runs smoothly, supports your desired number of players, and handles plugins, mods, or large worlds effectively. This guide explains the key factors to consider and matches them with the server plans offered by Ridgeline Servers.

- [Our Plan Recommendations](#)
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Our Plan Recommendations

Portal Plan (1GB RAM)

- **Best for:** Proxy servers like BungeeCord or Waterfall.
 - **Features:**
 - 1-Click Plugin Installer
 - 5GB Storage
 - 2 CPU Cores
 - **Use Case:** Not recommended for gameplay. Specifically for linking multiple servers together.
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Iron Plan (4GB RAM)

- **Best for:** Small Vanilla or optimized servers running PaperMC or Purpur.
 - **Features:**
 - 1-Click Plugin Installer
 - 1-Click Modpack Installer
 - 50GB Storage
 - 4 CPU Cores
 - **Use Case:** Suitable for survival servers with light plugins or small modpacks, or modpacks for older versions.
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Diamond Plan (6GB RAM)

- **Best for:** Medium-sized modded or plugin-heavy servers.
 - **Features:**
 - 1-Click Plugin Installer
 - 1-Click Modpack Installer
 - 50GB Storage
 - 4 CPU Cores
 - **Use Case:** Ideal for modern and moderately resource-intensive modpacks or plugin-heavy setups.
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Redstone Plan (7GB+ RAM)

- **Best for:** Large servers with high player counts or advanced setups.
- **Features:**
 - 1-Click Plugin Installer
 - 1-Click Modpack Installer
 - Customizable RAM
 - 50GB Storage
 - 4 CPU Cores
- **Use Case:** Designed for large communities or servers with extensive resource needs.

Key Factors to Consider

Server Type

- **Vanilla:**
 - Moderate resource usage.
 - Ideal for unmodified Minecraft gameplay with few players.
 - Lacks performance optimizations, but works well for basic setups.
 - **Optimized Servers:**
 - **PaperMC** and **Purpur:**
 - Significantly reduce CPU strain and memory usage.
 - Allow more players and plugins to run smoothly on the same amount of RAM.
 - Highly recommended for plugin-heavy or high-player-count setups.
 - **Modded Servers:**
 - Resource-intensive due to mods, custom worlds, and their additional data requirements.
 - Unlike optimized server types (e.g., PaperMC), these lack inherent performance improvements, making them more demanding even without mods installed.
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Player Count

- The number of players directly affects RAM usage.
 - Higher player counts increase server workload due to player actions, loaded chunks, and entity processing.
 - Refer to the recommendations provided with each plan to align with your expected player base.
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Modpacks and Plugins

- **Modpacks:**
 - Popular modpacks from platforms like CurseForge or Feed The Beast require more RAM.
 - Larger modpacks with multiple mods running simultaneously are particularly demanding.
- **Plugins:**
 - Plugins add functionality but increase memory usage, especially if they manage player data or perform intensive calculations.

- **Mods Used:**

- Not all mods are equal in resource demand.
 - Mods like **The Twilight Forest** (dimension mods) typically use more resources than lighter mods like **Thermal Expansion** (focused on machines).
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World Size and Activity

- **Large Worlds:**

- Bigger maps require more disk space and memory for loading and storing chunks.

- **Builds and Redstone:**

- Complex structures and extensive Redstone contraptions increase memory consumption.

- **Player Exploration:**

- Frequent exploration generates new chunks, which can lead to significant RAM usage over time.

Tips for Choosing the Right Plan

1. **Start Small and Monitor Usage**

- Begin with a plan that fits your immediate needs and upgrade as required.

2. **Check Modpack Requirements**

- Refer to the recommended RAM listed by the modpack developers.

3. **Utilize Tools Like Spark**

- Use diagnostic tools to identify bottlenecks or inefficiencies in RAM usage.
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Additional Help

If you encounter any issues or need further assistance, open a support ticket via the [Billing Area](#). Our support team is ready to assist you.