

Quick-Start Examples

This is an overview of some quick-start computers you can use to create a server for your self-hosted cloud services.

- [Single-Board Computers](#)
- [Mini PC](#)
- [Workstation Computer](#)

Single-Board Computers

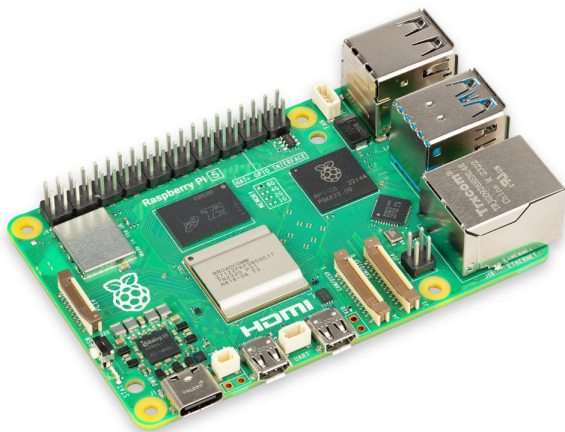
The [Raspberry Pi](#) - who popularized this style of computer - currently sell three versions of their board: [3B+](#), [4](#), and [5](#). Other options include: similar vendors such as [Banana Pi](#), [Orange Pi](#) and [Pine Board](#); the completely open hardware [Libre Board](#); the Asus [TinkerBoard](#) and the Texas Instruments [Beagle Board](#).

Sell

Cost

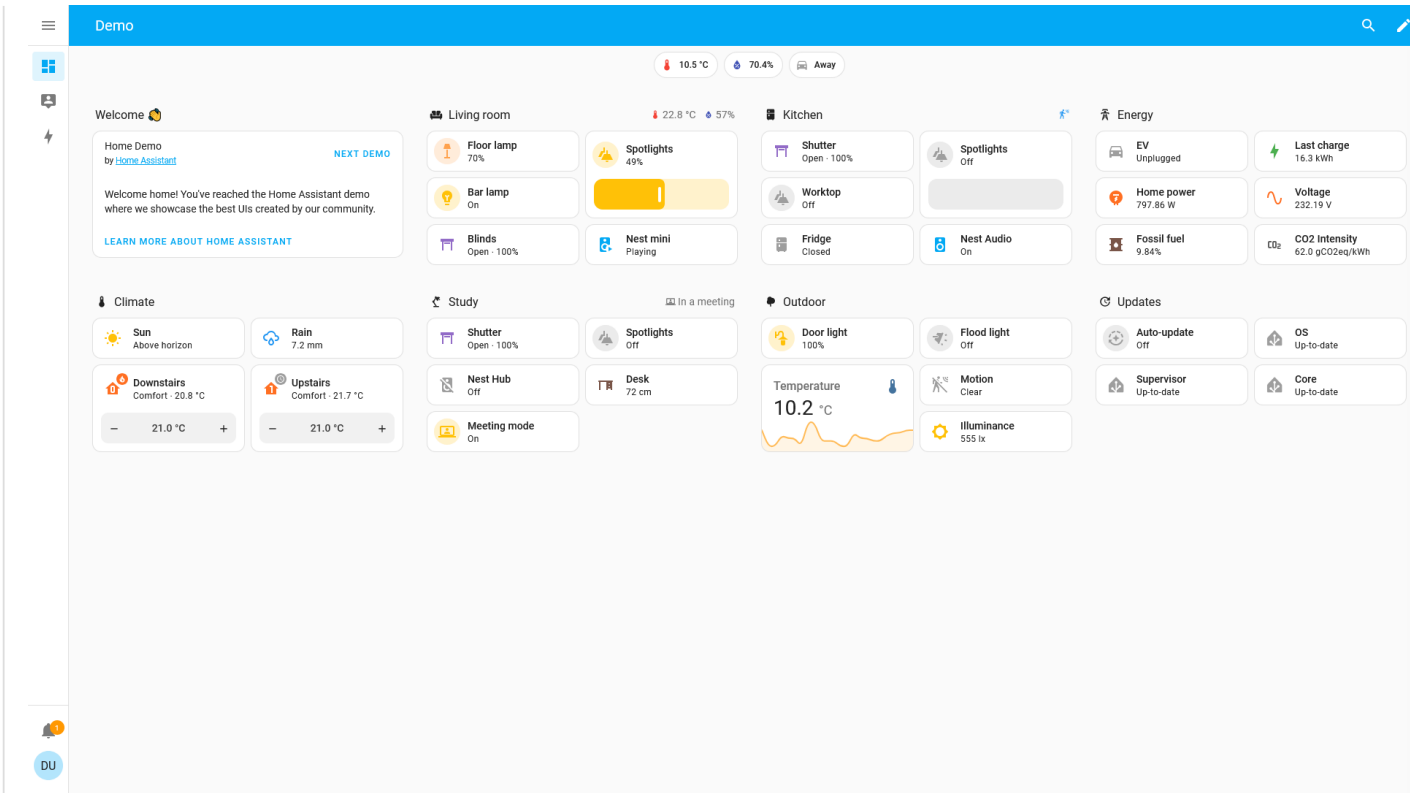
\$50 - \$200

Single-board computers work well for small servers, but can struggle under heavy usage. While cost-effective, they are also examples of single-board computers that can run for months without needing to be restarted.

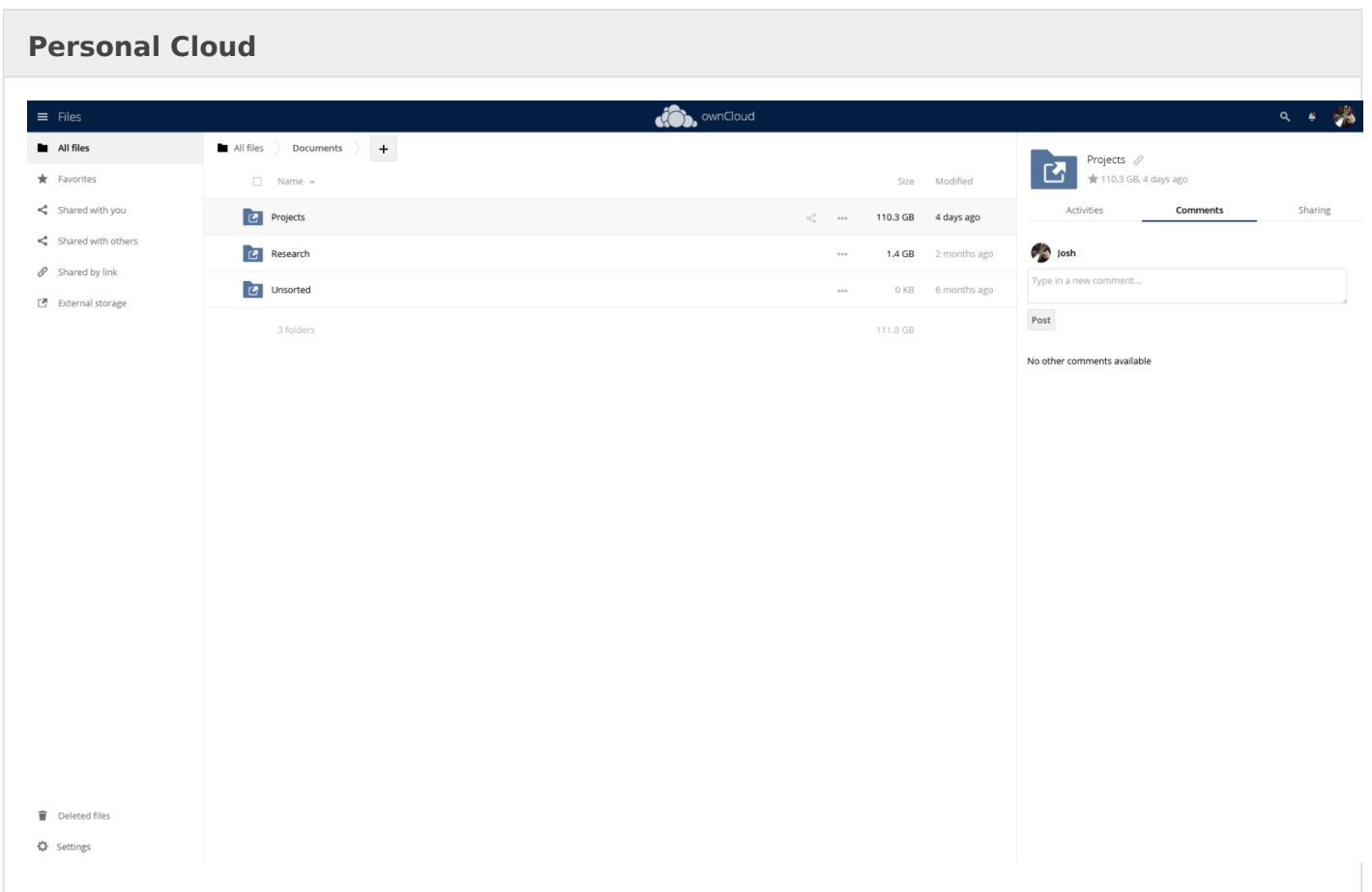


Great for hosting a small server where you run services only for yourself.

Home Server

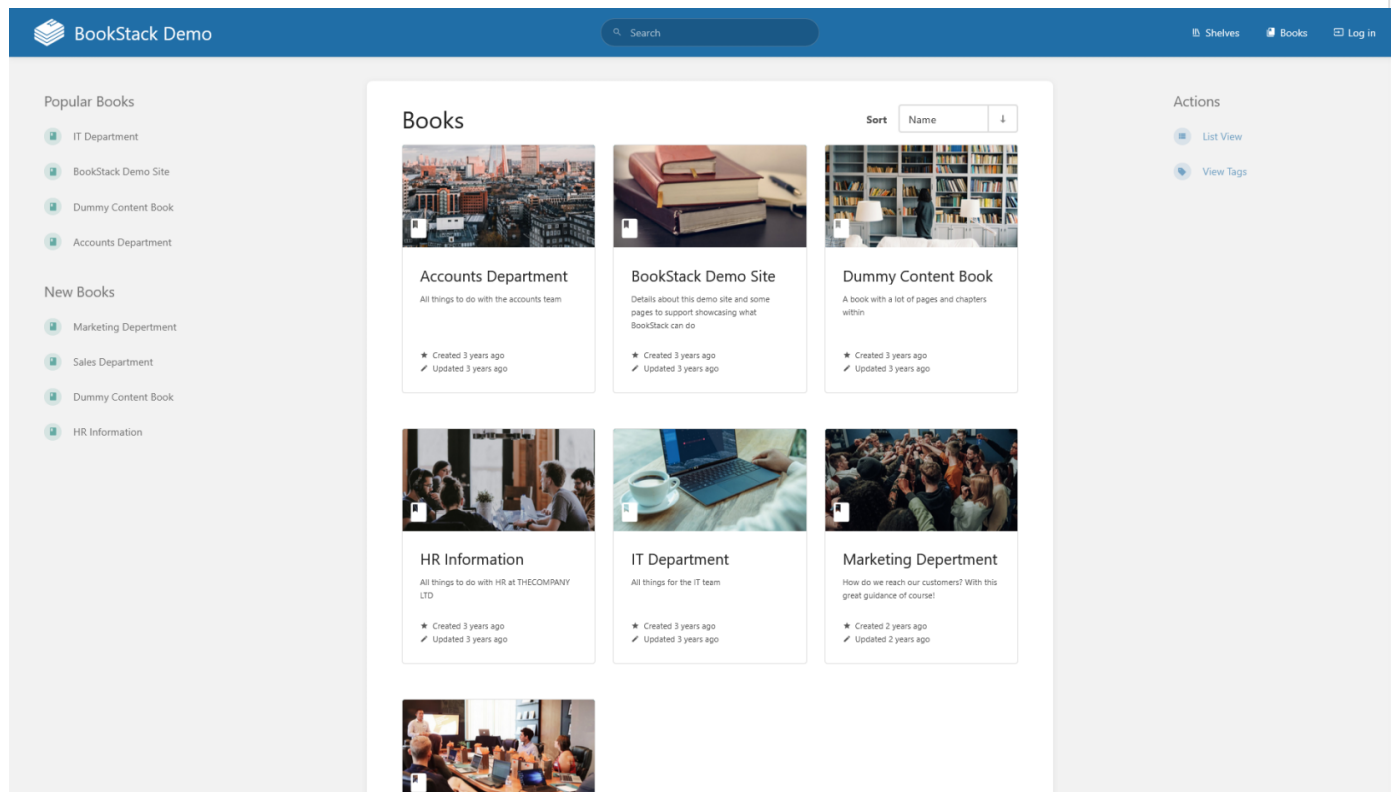


Use a [Raspberry Pi 4](#) for [Home Assistant](#) to manage your smart devices and [Grocy](#) to keep track of your kitchen inventory.



The [Raspberry Pi 5](#) and a USB 3.0 Hard Drive can be a personal [OwnCloud](#) server for your calendar, contacts and files. Add [Collabora](#) to edit documents, slideshows and spreadsheets directly in your browser.

Personal Wiki



The screenshot displays the BookStack Demo interface. At the top, there is a blue header with the BookStack logo, a search bar, and navigation links for Shelves, Books, and Log in. The main content area is divided into three sections: Popular Books, New Books, and a central grid of Books. The Popular Books section lists IT Department, BookStack Demo Site, Dummy Content Book, and Accounts Department. The New Books section lists Marketing Department, Sales Department, Dummy Content Book, and HR Information. The central grid shows a list of books with their covers, titles, descriptions, and creation/update dates. The Actions section on the right includes List View and View Tags.

Use the [Libre Computer Solitude](#) for hosting your own [BookStack](#) to keep track of your personal knowledge.

Your experiences may vary.

Always make sure to test for stability when installing new services.

This class of commodity computers use ARM processors that are part of a system-on-a-chip. They are extremely power efficient with performance specifics being dependent on the model you purchase. Generally, they are powered using a USB connector and a high-quality cable.

By default, many come with an Ethernet port, Wi-Fi, Bluetooth, USB, HDMI and 3.5mm audio output. These board also come with a GPIO port which offers programmable pins for HAT add-ons and project development.

Minimum Specifications

Developer_board

Where Processor

- 1.5GHz
- Quad-Core

Mini PC

Small form-factor traditional computers have become popular for creating your own personal media server and set-top boxes using [Plex](#) or [Jellyfin](#). These are sold by many notable PC manufacturers, such as [Intel NUCs](#) or Dell's [OptiPlex](#) and [Precision](#) series. There are other direct-to-consumer options like [System76](#), [BeeLink](#) and [GeekomPC](#).

Sell

Cost

\$150 - \$1500

Mini PCs can work well for a small pe multiple users. Many computers in t hard drives. High-speed NVME hard

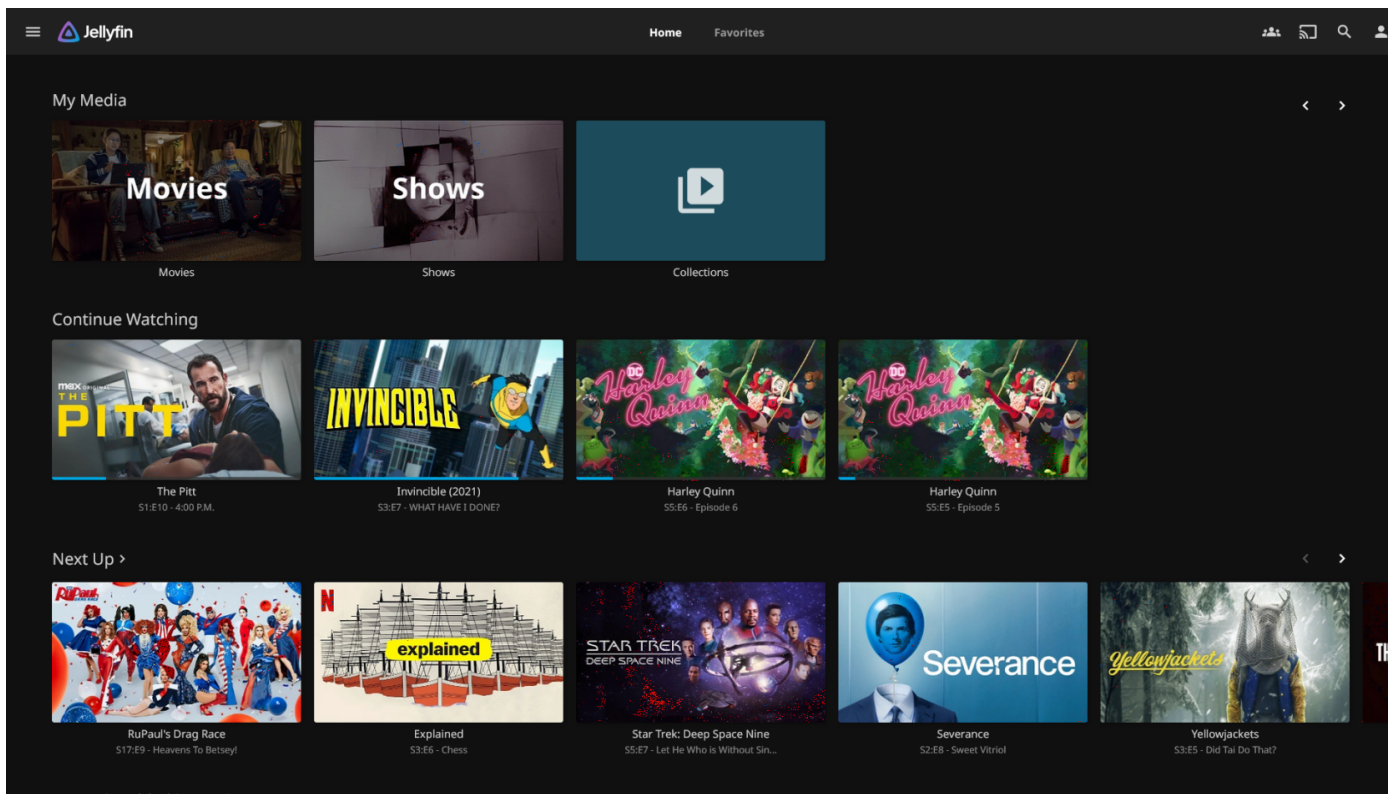
power to support :ard or additional rproving



performance for basic cloud servers.

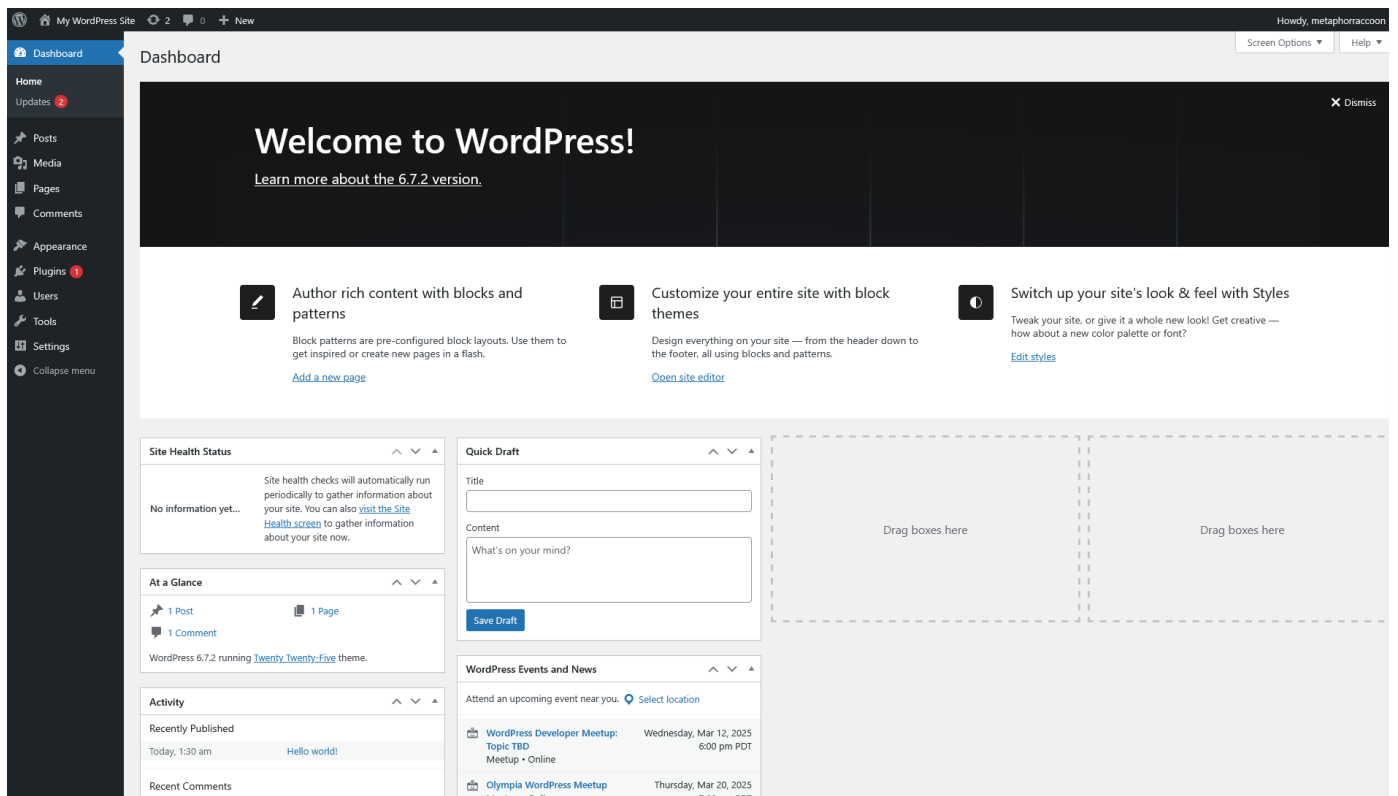
Great option for hosting a small media server or a cloud solution for your family.

Media Manager and Server



Host your own [Jellyfin](#) media server to stream your media remotely. Personal media managers like [Radarr](#), [Sonarr](#), [Lidarr](#), [Readarr](#) and [Bazarr](#) can help keep track of your media, while [Prowlarr](#) can aggregate search results for missing media to send to your peer-to-peer [qBittorrent](#) server.

Personal Blog, Website and Wiki



Express yourself with a [WordPress](#) blog, build a knowledge base with [MediaWiki](#) and host your own [personal website](#) or [resume](#).

Your experiences may vary.

Always make sure to test for stability when installing new services.

These types of computers use the traditional x86 architecture which gives them more processing power at the cost of more power usage. Depending on the model, they may use a desktop or mobile processor and have differing levels of extensibility for add-ons like graphics cards or hard drives.

These computers can be reasonably priced with a traditional x86 processor and expandable storage. Many mini PCs come with different connectivity options such as USB, HDMI, 3.5mm audio, optical audio, Ethernet, Wi-Fi and Bluetooth.

Minimum Specifications

Memory

Memory

- 16GB or higher
- DDR4

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Graphics

- Integrated Graphics
- Shared Memory

Hard_drive

Storage

- 250GB SSD
- 2TB+ HDD

Lan

Connectivity

- Gigabit Ethernet
- BlueTooth
- USB 3.0

Where To Buy

Hardware

Online

Workstation Computer

These desktops offer the most versatility and can be upgraded over time. Desktop computers are reliant and extensible, making them a great option for always-on server. They can be upgraded over time, making it easy to add more storage, RAM or a more powerful graphics card as your user base grows.

Sell

Cost

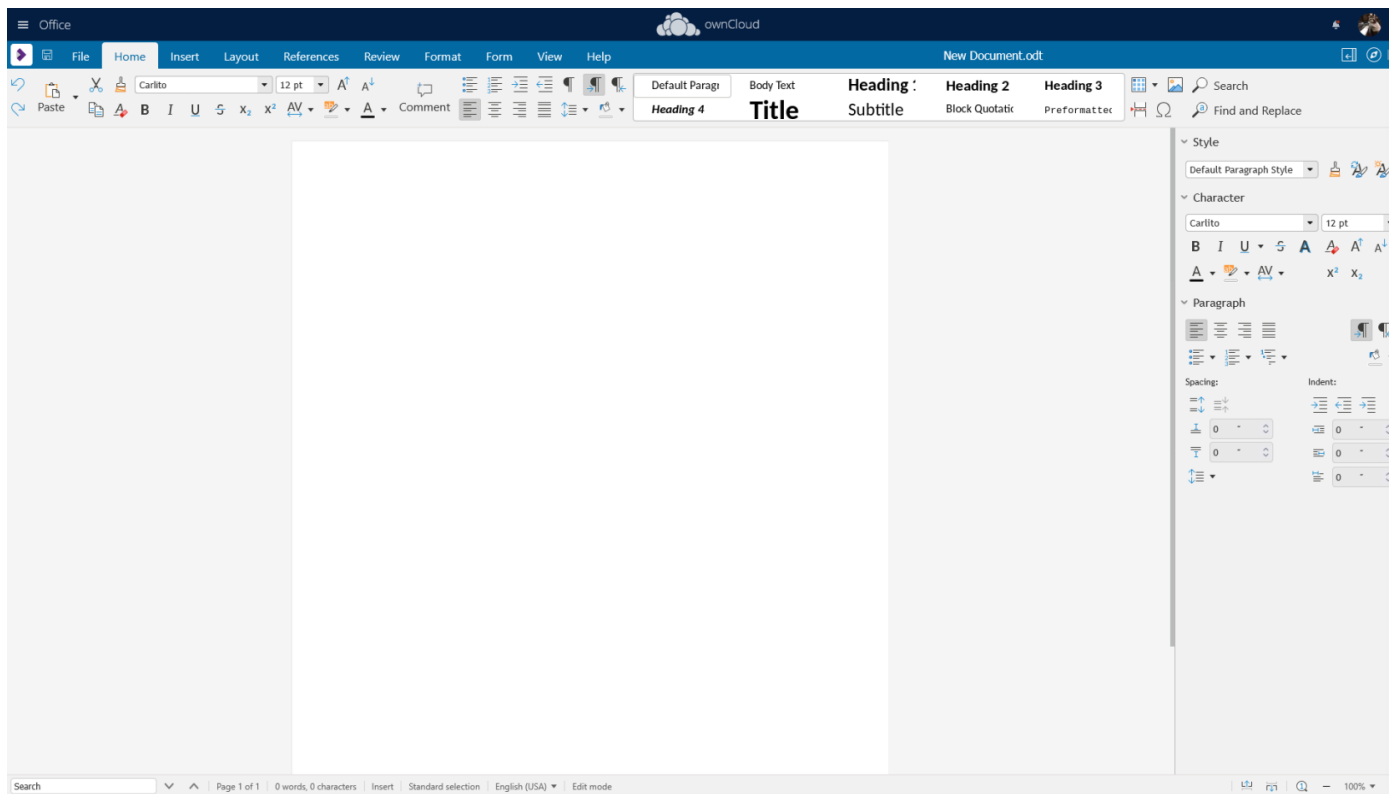
\$500 - \$2000

Desktop tower computers offer the most power and extensibility for a versatile personal server. They can run multi-purpose services including an [OwnCloud](#) personal cloud, [Collabora](#) office software, [Jellyfin](#) media server, [qBittorrent](#) peer-to-peer server and [procurement services](#) to curate your media.



Best option for hosting a server for use by yourself, friends and family.

Cloud Office Suite



Host [OwnCloud](#) for calendars, contacts and remote document access, as well as [Collabora](#) to edit files directly in your browser. Plan our your next project with [Vikunja](#), organize documents with [Paperless-NGX](#), and develop code right in your browser with [vscode](#). Manage your passwords, Two-Factor Authentication and secure documents using [BitWarden](#).

Online Community

[Start a Discussion](#)

[All Discussions](#)

[Tags](#)

[General](#)

[Latest](#)

[Refresh](#)

- D** Omnis reprehenderit et. 2.3K
↳ klokkoloz replied 4 hours ago
- F** Cum quam deleniti iste. 6
↳ marquis67 replied 4 hours ago
- T** Reiciendis dolores iste dolor. 16
↳ qmertz replied 4 hours ago
- T** Dolorem reiciendis debitis nulla cupiditate nemo distinctio. 8
↳ schoewalleroral replied 4 hours ago
- D** Facere debitis voluptate. 7
↳ schoewalleroral replied 4 hours ago
- T** Et sed aliquam laudantium. 12
↳ waltercharlotte replied 4 hours ago
- Q** Laboriosam ipsam quia similique nostrum quae. 10
↳ durganrobin replied 4 hours ago
- R** Illum quis quidem dolore facere. 8
↳ jaydon_cummerata replied 4 hours ago
- C** Voluptates. 6
↳ xstirthe replied 4 hours ago
- A** Rerum. 8
↳ gaylordgene replied 4 hours ago
- Q** Eum aliquam natus aut vel. 15
↳ wiertzmanin replied 4 hours ago
- J** Ex voluptatibus. 8
↳ qmertz replied 4 hours ago
- C** Est placeat dolor voluptates numquam officis et. 13
↳ leataa_booley replied 4 hours ago
- W** Possimus quas aperiam repudiandae rerum soluta rerum. 14
↳ jaydon_cummerata replied 4 hours ago
- M** Quo ullam ducimus et assumenda. 8
↳ mcnamell_busham capitant 4 hours ago

Host a [WordPress](#) blog to share updates, document a project using [MediaWiki](#), build community through a [Flarum](#) forum, and manage your own streaming with [OwnCast](#).

Your experiences may vary.

Always make sure to test for stability when installing new services.

These computers have space for a dedicated graphic cards, as well as both traditional hard drives and NVME solid state disks. There are even external USB or Thunderbolt storage options to use for your backup solutions. RAM can also be easily upgraded as needed to run more concurrent services.

Minimum Specifications

Memory

Memory

- 16GB or higher
- DDR4

View_in_ar

Graphics

- Dedicated Graphics
- 4GB or more
- AMD Preferred

Hard_drive

Storage

- 250GB SSD NVMe
- 6TB+ SATA HDD

Lan

Connectivity

- 1Gbit Ethernet
- USB 3.0

Where To Buy

Language

Online

- [System76](#)
- [Newegg](#)
- [MicroCenter](#)
- [GreenPC](#)
- [PCs For People](#)
- [Dell Refurbished](#)
- [HP Refurbished](#)
- other online marketplaces.

Storefront

In-Store

- [BestBuy](#)

