

Getting Started

This page will act as a guide through the five books that make up this lesson. We will be exploring how to self-host your own server from home using Do-It-Yourself guides paired with educational resources exploring the history of computing. Along the way, we will critically reflect on what it means for our communities to host your own server.

0. Background

info

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Your Personal Cloud

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- [What is the Cloud?](#)
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Before getting started, we should know what we're building. Running your own server is an excellent avenue to explore what it means to think like a designer and a developer. By taking ownership of our own [digital security and privacy](#), we can help protect our families and communities.

Project Description `keyboard_arrow_right`

1. Hardware

host

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Hardware

- [What is a Server?](#)
- [Community Impact](#)
- [Quick-Start Examples](#)
- [Layers of Computing](#)
- [Firmware Configuration](#)

Now that we [understand our hardware requirements](#), we need to [find a machine that supports them](#). We can create an [open-source server using consumer hardware](#). Finally, there are some [firmware configuration](#) we should check before installing an operating system.

See the Hardware Guide [keyboard_arrow_right](#)

2. Software

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Software

- [What is Linux?](#)
- [An Open Ecosystem](#)
- [Installing an Operating System](#)
- [Configuring Debian](#)
- [Building Community](#)
- [Collectives and Identity](#)
- [What is Docker?](#)
- [Installing Docker](#)

We need to [install Debian Linux](#) onto our computer to form a foundation. We will use [Docker](#) to create [secure, self-contained "virtual operating systems"](#) that are easy to monitor and keep up-to-date. Importantly, we need to [create a backup](#) solution and [setup remote access](#) for our server.

[See the Software Guide](#) `keyboard_arrow_right`

3. Services

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Services

- [What is a Service?](#)
- [Considerations](#)
- [Evaluating Safety](#)
- [Selecting Your Services](#)
- [Managing Services](#)
- [Home Page](#)

Through [Portainer](#), an intuitive interface for installing Docker services through a browser. We will be using a simple structured syntax known as Docker Compose to pop-up services from pre-built images.

[See the Services Guide](#) `keyboard_arrow_right`

4. Monitoring & Maintenance

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Monitoring & Maintenance

- [Sustainable Solutions](#)
- [Network Access](#)
- [Backup Solutions](#)
- [Administration](#)
- [Troubleshooting](#)
- [Cleaning](#)

When running your own server, it's important to have ways to monitor your system and perform any required maintenance. This server will always be operating which makes it even more important to take our system apart to remove dust and dirt.

See the [Monitoring & Maintenance Guide](#) `keyboard_arrow_right`

5. World Wide Web

public

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World Wide Web

- [What are Computer Networks?](#)
- [How to Remotely Connect](#)
- [Virtual Private Network](#)
- [Web Domain Name](#)
- [Digital Stewardship](#)
- [Security & Privacy](#)
- [Router Configuration](#)
- [What Next?](#)

We will [configure our local network](#) through our router to prepare for connection. We will use [SWAG](#), a community-driven project to assist everyday people with creating a secure, self-hosted server. This solution uses a [reverse proxy server](#) to route traffic from a domain address to your hosted services. Finally, we will configure your router to [connect your server](#) to the internet.

[See the World Wide Web Guide](#) `keyboard_arrow_right`

Revision #65

Created 9 February 2025 10:04:17 by metaphorraccoon

Updated 15 June 2025 01:54:10 by metaphorraccoon