



# Raspberry Pi Server Essentials

*Piotr J. Kula*

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**Transform your Raspberry Pi into a server for hosting websites, games, or even your Bitcoin network**

## About This Book

- Unlock the various possibilities of using Raspberry Pi as a server
- Configure a media center for your home or sharing with friends
- Connect to the Bitcoin network and manage your wallet

## Who This Book Is For

This book is targeted towards all Raspberry Pi enthusiasts who are interested in exploring the potential of Pi as a server. Even if you have no prior experience with the Raspberry Pi, you can pick up this book and develop a wide range of projects.

## What You Will Learn

- Use Raspberry Pi as a low cost network storage device
- Configure a webserver using PHP and work with databases
- Host multi-player games by using Pi as a game server to get graphical content
- Share files and use hardware RAID on the Pi
- Mine Bitcoins and make your own digital currency
- Turn your Raspberry Pi into a media server to stream media to your network
- Enable extra features such as installing a wireless adapter, enabling the hardware watchdog, and updating and upgrading the distro

## In Detail

Raspberry Pi makes a good server that facilitates you with eminently achievable to the massively ambitious ideas. It is a capable computer that can perform tasks that involve spreadsheets, word processing, and games. It also plays high-definition video. If you are looking for a way to set up a low cost web server, primarily to be used as a testing environment or to store files, then Raspberry Pi is perfect for you.

This book demonstrates Raspberry Pi's ability to perform tasks that a mini computer would, in an efficient manner using a minimum number of power resources. You can connect your Raspberry Pi to the Internet at home to share files, host multi-player games, or even host a website.

Starting with the pre-requisites and installation of Pi, you will learn how to setup Pi as a web server with MySQL. This book progresses with building Pi as a file server and knowing about using the various file transfer protocols. It also guides you to install Bitcoin/ Litecoin and set up Bitcoin wallet. You will learn

how to stream a webcam to watch movies in HD or camera module.

Complete your journey by learning how to use Pi as a game server by using basic console commands to get graphical content.

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