

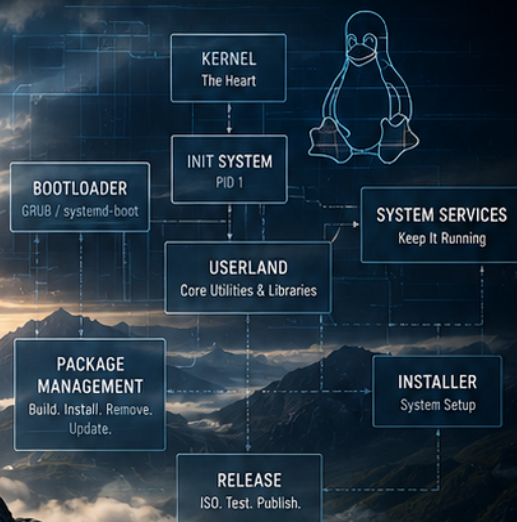
# BUILDING YOUR OWN LINUX DISTRIBUTION FROM SCRATCH

A COMPLETE STEP-BY-STEP GUIDE TO DESIGNING,  
BUILDING, AND PUBLISHING A CUSTOM **LINUX OPERATING SYSTEM**

```
# Initialize system
load_kernel /boot/vmlinuz
initramfs /boot/initrd.img
> mount -t proc proc /proc
> mount -t sysfs sys /sys
> mount -t devtmpfs udev /dev
> udevd --daemon
> swapon -a
> /sbin/init
```

```
$ configure
$ make
$ make install
$ make iso
$ ./create-media.sh
```

BUILD COMPLETE.  
YOUR DISTRO. YOUR WAY.



BUILD FROM  
SOURCE



PACKAGE  
MANAGEMENT



BOOTLOADERS &  
INIT SYSTEMS



INSTALLERS &  
SYSTEM TOOLS



BUILD, TEST,  
RELEASE.

STEVE T.

# Building Your Own Linux Distribution from Scratch

A Complete Step-by-Step Guide to Designing, Building, and Publishing a Custom Linux Operating System

Steve T.

This book is available at

<https://leanpub.com/buildingyourownlinuxdistributionfromscratch>

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# Building Your Own Linux Distribution from Scratch

## A Complete Step-by-Step Guide to Designing, Building, and Publishing a Custom Linux Operating System

**About this book:** This book takes you from the fundamentals of how a Linux operating system is assembled to the point where you can independently design, build, maintain, and publish your own distribution. You will learn what every major component does under the hood, why different distributions make different choices, and how to make those same choices for your own system. By the end, you will have built a bootable custom Linux distribution from source code, complete with a package management infrastructure, bootloader configuration, and installation media. Whether you are a system administrator building a hardened server image, a developer who needs a deterministic build environment, or an enthusiast who wants full control over every byte on disk, this book gives you the knowledge and the practical tools to do it.

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## Build Environment Hardening Checklist

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