
Linux From Scratch

— Because 'Why not?' —

The Scope

This presentation talks about what had to be done in order to build a new Linux from source.

The problems faced, the result, and also what can still be done.

How it works

Step 1

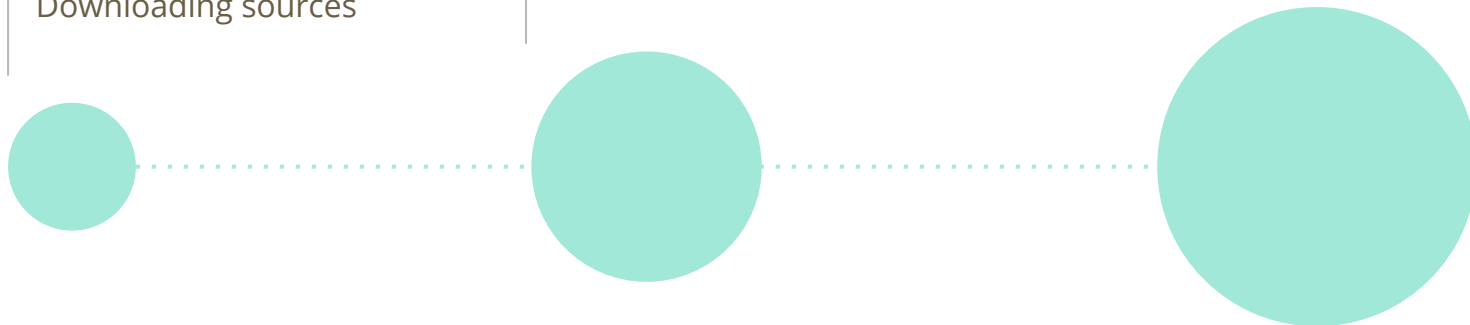
New partition
New unprivileged user
Downloading sources

Step 2

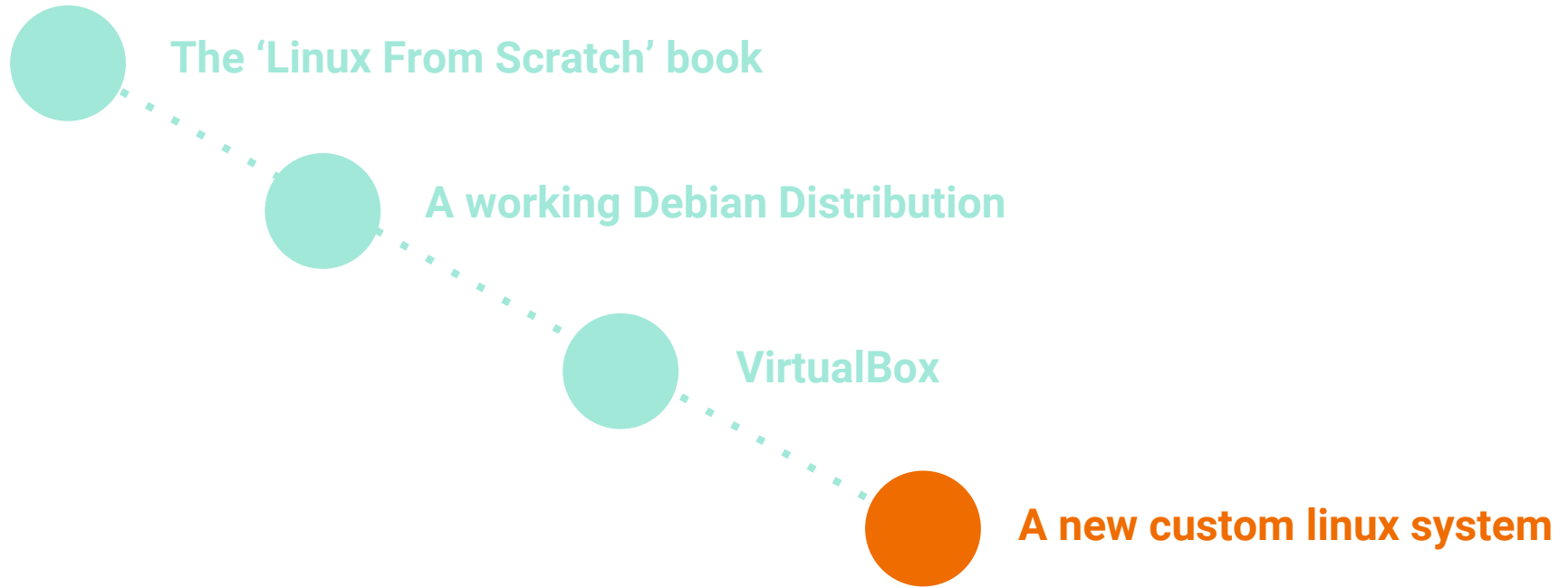
Building a minimal System
Building the toolchain
Installing the Basic System

Step 3

System Configuration
Booting it up!



What was used



The work done

Clone it!



github
SOCIAL CODING

<https://github.com/Drakesinger/LFS>

The Result

A new Linux distribution
with a console.

Bash prompt.

VIM, gcc, etc...

```
hpet          ptmx          tty          tty31        tty55        vcs5
hwrng         pts           tty0         tty32        tty56        vcs6
initctl       random        tty1         tty33        tty57        vcsa
input         rfkill        tty10        tty34        tty58        vcsa1
kmem          rtc           tty11        tty35        tty59        vcsa2
kmsg          rtc0          tty12        tty36        tty6         vcsa3
log           sda           tty13        tty37        tty60        vcsa4
loop0         sda1          tty14        tty38        tty61        vcsa5
loop1         sda2          tty15        tty39        tty62        vcsa6
loop2         sda5          tty16        tty4         tty63        vga_arbiter
loop3         sdb           tty17        tty40        tty7         zero
loop4         sdb1          tty18        tty41        tty8

-bash-4.3# cd ..
-bash-4.3# ls
bin  dev  home  lost+found  mnt  proc  run  sources  sys  tools  var
boot  etc  lib  media      opt  root  sbin  srv      tmp  usr

-bash-4.3# cd home/
-bash-4.3# ls
-bash-4.3# mkdir root
-bash-4.3# ls
root
-bash-4.3# cd root
-bash-4.3# pwd
/home/root
-bash-4.3# _
```

All that with one PROBLEM

It's in French...

And the font doesn't speak French.

Oops!

```

VIM - Vi Amélioré

version 7.4
par Bram Moolenaar et al.
Vim est un logiciel libre

Devenez un utilisateur de Vim enregistré !

tapez :help register<Entrée> pour plus d'informations

tapez :q<Entrée> pour sortir du programme
tapez :help<Entrée> ou <F1> pour accéder à l'aide en ligne
tapez :help version7<Entrée> pour lire les notes de mise à jour

```

What now? What's left?

Change the locale and the font.

