

Archlinux – Correction Installation

lundi 9 janvier 2023 15:54

Formateur : Loup FORMENT

Correction installation mode legacy :

```
root@archiso ~ # loadkeys fr
root@archiso ~ # lsblk
NAME  MAJ:MIN RM  SIZE RO TYPE MOUNTPOINTS
loop0  7:0    0 702.1M  1 loop /run/archiso/airootfs
sda    8:0    0 20.6G  0 disk
sr0   11:0   1 816.3M  0 rom
```

```
root@archiso ~ # lsblk
NAME  MAJ:MIN RM  SIZE RO TYPE MOUNTPOINTS
loop0  7:0    0 702.1M  1 loop /run/archiso/airootfs
sda    8:0    0 20.6G  0 disk
└─sda1  8:1    0 20.6G  0 part
sr0   11:0   1 816.3M  0 rom
```

```
root@archiso ~ # mkfs.ext4 /dev/sda1
mke2fs 1.46.5 (30-Dec-2021)
Creating filesystem with 5403312 4k blocks and 1351680 inodes
Filesystem UUID: 1e54f5f3-2012-4f8f-bbe2-cb1cf9ce02ff
Superblock backups stored on blocks:
      32768, 98304, 163840, 229376, 294912, 819200, 884736, 1605632, 2654208,
      4096000

Allocating group tables: done
Writing inode tables: done
Creating journal (32768 blocks): done
Writing superblocks and filesystem accounting information: done

root@archiso ~ # mount /dev/sda1 /mnt
```

```
root@archiso ~ # mount /dev/sda1 /mnt
root@archiso ~ # pacstrap / base linux linux-firmware vim networkmanager grub sudo _
```

```
root@archiso ~ # lsblk
NAME  MAJ:MIN RM  SIZE RO TYPE MOUNTPOINTS
loop0  7:0    0 702.1M  1 loop /run/archiso/airootfs
sda    8:0    0 20.6G  0 disk
└─sda1  8:1    0 20.6G  0 part /mnt
sr0   11:0   1 816.3M  0 rom
root@archiso ~ # arch-chroot /mnt
[root@archiso /]# grub-install /dev/sda
Installing for i386-pc platform.
Installation finished. No error reported.
```

```
[root@archiso /]# grub-mkconfig -o /boot/grub/grub.cfg
Generating grub configuration file ...
Found linux image: /boot/vmlinuz-linux
Found initrd image: /boot/initramfs-linux.img
Found fallback initrd image(s) in /boot: initramfs-linux-fallback.img
Warning: os-prober will not be executed to detect other bootable partitions.
Systems on them will not be added to the GRUB boot configuration.
Check GRUB_DISABLE_OS_PROBER documentation entry.
Adding boot menu entry for UEFI Firmware Settings ...
done
```

```
[root@archiso /]# passwd
New password:
Retype new password:
passwd: password updated successfully
[root@archiso /]#
exit
root@archiso ~ # genfstab -U /mnt
# /dev/sda1
```

```
# /etc/fstab
UUID=1e54f5f3-2012-4f8f-bbe2-cb1cf9ce02ff      /
ext4          rw,relatime   0 1
```

```
root@archiso ~ # genfstab -U /mnt > /mnt/etc/fstab
root@archiso ~ # reboot_
```

Installation UEFI + partition chiffré :

```
[root@archiso ~]# loadkeys ffr
loadkeys: Unable to open file: ffr: No such file or directory
1 root@archiso ~ # loadkeys fr
root@archiso ~ # lsblk
NAME MAJ:MIN RM SIZE RO TYPE MOUNTPOINTS
loop0 7:0 0 702.1M 1 loop /run/archiso/airootfs
sda 8:0 0 35.6G 0 disk
└─sda1 8:1 0 1G 0 part
└─sda2 8:2 0 34.6G 0 part
sr0 11:0 1 816.3M 0 rom
root@archiso ~ # _
```

```
root@archiso ~ # lsblk
NAME MAJ:MIN RM SIZE RO TYPE MOUNTPOINTS
loop0 7:0 0 702.1M 1 loop /run/archiso/airootfs
sda 8:0 0 35.6G 0 disk
└─sda1 8:1 0 1G 0 part
└─sda2 8:2 0 34.6G 0 part
sr0 11:0 1 816.3M 0 rom
root@archiso ~ # cryptsetup luksFormat /dev/sda2

WARNING!
=====
This will overwrite data on /dev/sda2 irreversibly.

Are you sure? (Type 'yes' in capital letters): YES
Enter passphrase for /dev/sda2:
```

```
root@archiso ~ # cryptsetup open /dev/sda2 cryptlum
Enter passphrase for /dev/sda2:
root@archiso ~ # _
```

```
root@archiso ~ # lsblk
NAME MAJ:MIN RM SIZE RO TYPE MOUNTPOINTS
loop0 7:0 0 702.1M 1 loop /run/archiso/airootfs
sda 8:0 0 35.6G 0 disk
└─sda1 8:1 0 1G 0 part
└─sda2 8:2 0 34.6G 0 part
└─cryptlum 253:0 0 34.6G 0 crypt
sr0 11:0 1 816.3M 0 rom
root@archiso ~ # pvcra
zsh: command not found: pvcra
127 root@archiso ~ # pvcreate /dev/mapper/cryptlum
Physical volume "/dev/mapper/cryptlum" successfully created.
root@archiso ~ # vgcreate arch /dev/mapper/cryptlum
Volume group "arch" successfully created
```

```
root@archiso ~ # volume group arch successfully created
root@archiso ~ # lvcreate arch -n root -l 50%VG
Logical volume "root" created.
root@archiso ~ # lvcreate arch -n home -l 50%VG
Logical volume "home" created.
root@archiso ~ # lsblk
NAME MAJ:MIN RM SIZE RO TYPE MOUNTPOINTS
loop0 7:0 0 702.1M 1 loop /run/archiso/airootfs
sda 8:0 0 35.6G 0 disk
└─sda1 8:1 0 1G 0 part
└─sda2 8:2 0 34.6G 0 part
└─cryptlum 253:0 0 34.6G 0 crypt
  ├─arch-root 253:1 0 17.3G 0 lvm
  └─arch-home 253:2 0 17.3G 0 lvm
sr0 11:0 1 816.3M 0 rom
```

```
root@archiso ~ # mkfs.fat -F32 /dev/sda1
```

```
mkfs.fat 4.2 (2021-01-31)
```

```
1 root@archiso ~ # ls /dev/mapper
arch-home arch-root control cryptlum
root@archiso ~ # ls /dev/arch
home root
root@archiso ~ # ls /dev/arch/home
/dev/arch/home
root@archiso ~ # ls /dev/mapper/arch-home
/dev/mapper/arch-home
root@archiso ~ #
```

```
root@archiso ~ # mkfs.ext4 /dev/mapper/arch-root
mke2fs 1.46.5 (30-Dec-2021)
Creating filesystem with 4529152 4k blocks and 1134240 inodes
Filesystem UUID: c983d04c-a2f5-402e-a08b-bc648ac85639
Superblock backups stored on blocks:
    32768, 98304, 163840, 229376, 294912, 819200, 884736, 1605632, 2654208,
    4096000

Allocating group tables: done
Writing inode tables: done
Creating journal (32768 blocks): done
Writing superblocks and filesystem accounting information: done

root@archiso ~ # mkfs.ext4 /dev/mapper/arch-home
mke2fs 1.46.5 (30-Dec-2021)
Creating filesystem with 4529152 4k blocks and 1134240 inodes
Filesystem UUID: 009bfd13-cc00-4627-b0ee-cd628a6c7ef7
Superblock backups stored on blocks:
    32768, 98304, 163840, 229376, 294912, 819200, 884736, 1605632, 2654208,
    4096000

Allocating group tables: done
Writing inode tables: done
Creating journal (32768 blocks): done
Writing superblocks and filesystem accounting information: done

root@archiso ~ # lsblk
NAME      MAJ:MIN RM  SIZE RO TYPE  MOUNTPOINTS
loop0      7:0    0 702.1M  1 loop  /run/archiso/airootfs
sda        8:0    0 35.6G  0 disk
└─sda1     8:1    0   1G  0 part
└─sda2     8:2    0 34.6G  0 part
  └─cryptlum 253:0  0 34.6G  0 crypt
    ├─arch-root 253:1  0 17.3G  0 lvm
    └─arch-home 253:2  0 17.3G  0 lvm
sr0       11:0   1 816.3M  0 rom
```

```
root@archiso ~ # mount /dev/mapper/arch-root /mnt
root@archiso ~ # mount /dev/mapper/arch-home --mkdir /mnt/home
root@archiso ~ # mount /dev/sda1 --mkdir /mnt/boot
root@archiso ~ # lsblk
NAME      MAJ:MIN RM  SIZE RO TYPE  MOUNTPOINTS
loop0      7:0    0 702.1M  1 loop  /run/archiso/airootfs
sda        8:0    0 35.6G  0 disk
└─sda1     8:1    0   1G  0 part  /mnt/boot
└─sda2     8:2    0 34.6G  0 part
  └─cryptlum 253:0  0 34.6G  0 crypt
    ├─arch-root 253:1  0 17.3G  0 lvm
    └─arch-home 253:2  0 17.3G  0 lvm  /mnt/home
sr0       11:0   1 816.3M  0 rom
```

```
root@archiso ~ # pacstrap /mnt linux base linux-firmware vim networkmanager iom2 grub efiboot
==> Creating install root at /mnt
==> Installing packages to /mnt
:: Synchronizing package databases...
core
```

```

pacstrap /mnt linux base linux-firmware vim networkmanager lvm2 grub sudo 17.66s user 6.53s system 34% cpu 1:10.87 total
root@archiso ~ # lsblk
NAME      MAJ:MIN RM  SIZE RO TYPE MOUNTPOINTS
loop0      7:0    0 702.1M  1 loop /run/archiso/airootfs
sda        8:0    0 35.6G  0 disk 
└─sda1     8:1    0   16G  0 part /mnt/boot
  └─sda2     8:2    0   34.6G 0 part 
    └─crypt0  253:0  0   34.6G 0 crypt 
      ├─arch-root 253:1  0 17.3G 0 lvm  /mnt
      ├─arch-home 253:2  0 17.3G 0 lvm  /mnt/home
sr0       11:0   1 816.3M 0 rom

```

```

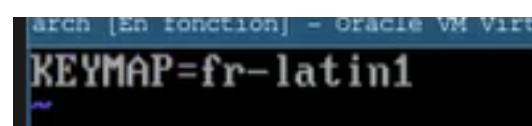
## NOTE: If you have /usr on a separate partition, you MUST include the
##       _usr and fsck hooks.
HOOKS=(base systemd autodetect modconf kms keyboard sd-ucosole keymap consolefont block sd-encrypt lvm2_filesystems fsck)

```

```

[root@archiso ~]# mkinitcpio -P
==> Building image from preset: /etc/mkinitcpio.d/linux.preset: 'default'
  -> -k /boot/vmlinuz-linux -c /etc/mkinitcpio.conf -g /boot/initramfs-linux.img
==> Starting build: 6.1.4-arch1-1
  -> Running build hook: [base]
  -> Running build hook: [systemd]
  -> Running build hook: [autodetect]
  -> Running build hook: [modconf]
  -> Running build hook: [kms]
  -> Running build hook: [keyboard]
  -> Running build hook: [sd-ucosole]
==> ERROR: file not found: '/etc/ucosole.conf'
  -> Running build hook: [keymap]
  -> Running build hook: [consolefont]
==> WARNING: consolefont: no font found in configuration
  -> Running build hook: [block]
  -> Running build hook: [sd-encrypt]
==> WARNING: Possibly missing firmware for module: qat_4xxx
  -> Running build hook: [lvm2]
  -> Running build hook: [filesystems]
  -> Running build hook: [fsck]
==> Generating module dependencies
==> Creating zstd-compressed initcpio image: /boot/initramfs-linux.img
==> WARNING: errors were encountered during the build. The image may not be complete.
==> Building image from preset: /etc/mkinitcpio.d/linux.preset: 'fallback'
  -> -k /boot/vmlinuz-linux -c /etc/mkinitcpio.conf -g /boot/initramfs-linux-fallback.img -S autodetect
==> Starting build: 6.1.4-arch1-1
  -> Running build hook: [base]
  -> Running build hook: [systemd]
  -> Running build hook: [modconf]
  -> Running build hook: [kms]
==> WARNING: Possibly missing firmware for module: ast
  -> Running build hook: [keyboard]
==> WARNING: Possibly missing firmware for module: xhci_pci

```



```

==> Generating module dependencies
==> Creating zstd-compressed initcpio image: /boot/initramfs-linux-fallback.img
==> Image generation successful
[root@archiso ~]#

```

```

# GRUB boot loader configuration

GRUB_DEFAULT=0
GRUB_TIMEOUT=5
GRUB_DISTRIBUTOR="Arch"
GRUB_CMDLINE_LINUX_DEFAULT="loglevel=3 quiet"
GRUB_CMDLINE_LINUX=""

# Preload both GPT and MBR modules so that they are not missed
GRUB_PRELOAD_MODULES="part_gpt part_msdos"

# Uncomment to enable booting from LUKS encrypted devices
#GRUB_ENABLE_CRYPTODISK=y

# Set to 'countdown' or 'hidden' to change timeout behavior,
# press ESC key to display menu.
GRUB_TIMEOUT_STYLE=menu

# Uncomment to use basic console

```

```
# GRUB_TERMINAL_INPUT=console

# GRUB boot loader configuration

GRUB_DEFAULT=0
GRUB_TIMEOUT=5
GRUB_DISTRIBUTOR="Arch"
GRUB_CMDLINE_LINUX_DEFAULT="loglevel=3 quiet rd.luks.name=xx=cryptlum root=/dev/mapper/arch-root"
GRUB_CMDLINE_LINUX=""
```

```
[root@archiso ~]# blkid
/dev/mapper/arch-root: UUID="c983d04c-a2f5-402e-a08b-bc648ac85639" BLOCK_SIZE="4096" TYPE="ext4"
/dev/sr0: UUID="2040" UUID="2023-01-01-15-36-04-00" LABEL="ARCH_202301" TYPE="iso9660" PTUUID="3fbe2d0c" PTTYPE="dos"
/dev/mapper/arch-home: UUID="009bfd13-cc00-4627-b0ee-cd628a6c7ef7" BLOCK_SIZE="4096" TYPE="ext4"
/dev/loop0: TYPE="squashfs"
/dev/mapper/cryptlum: UUID="db7Ea1-90GQ-4j6a-J46H-ahdu-22X1-vai8ju" TYPE="LVM2_member"
/dev/sda2: UUID="3229b04-7638-4298-8ea5-7144c18ac640" TYPE="crypto_LUKS" PARTUUID="46cia29f-7424-6b40-a3a2-ebZcf0dcf6b8"
/dev/sda1: UUID="ECCB-C6A2" BLOCK_SIZE="512" TYPE="vfat" PARTUUID="ecb093c2-56d3-3842-be3e-a52f31f7db73"
[root@archiso ~]# lsblk
NAME      MAJ:MIN RM  SIZE RO TYPE MOUNTPOINTS
loop0      7:0    0 782.1M 1 loop
sda       8:0    0 35.6G 0 disk
└─sda1     8:1    0   16M 0 part /boot
└─sda2     8:2    0   34.6G 0 part
  └─cryptlum 253:0  0   34.6G crypt
    ├─arch-root 253:1  0   17.3G 0 lvm /
    └─arch-home 253:2  0   17.3G 0 lvm /home
sr0       11:0   1 816.3M 0 rom
[root@archiso ~]# blkid -s UUID
[root@archiso ~]# blkid -s UUID
/dev/mapper/arch-root: UUID="c983d04c-a2f5-402e-a08b-bc648ac85639"
/dev/sr0: UUID="2023-01-01-15-36-04-00"
/dev/mapper/arch-home: UUID="009bfd13-cc00-4627-b0ee-cd628a6c7ef7"
/dev/mapper/cryptlum: UUID="db7Ea1-90GQ-4j6a-J46H-ahdu-22X1-vai8ju"
/dev/sda2: UUID="3229b04-7638-4298-8ea5-7144c18ac640"
/dev/sda1: UUID="ECCB-C6A2"
[root@archiso ~]# blkid -s UUID -o value /dev/sda2
a3229b04-7638-4298-8ea5-7144c18ac640
```

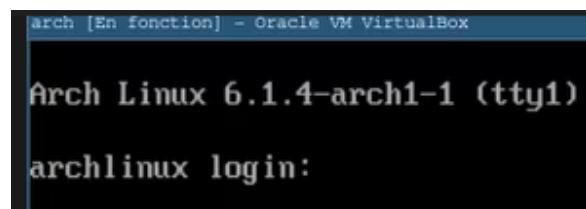
```
[root@archiso ~]# blkid -s UUID -o value /dev/sda2
a3229b04-7638-4298-8ea5-7144c18ac640
[root@archiso ~]# blkid -s UUID -o value /dev/sda2 >> /etc/default/grub
```

```
[root@archiso ~]# grub-install --target=x86_64-efi --efi-directory=/boot
Installing for x86_64-efi platform.
Installation finished. No error reported.
```

```
Installation finished. No error reported.
[root@archiso ~]# grub-mkconfig -o /boot/grub/grub.cfg
Generating grub configuration file ...
Found linux image: /boot/vmlinuz-linux
Found initrd image: /boot/initramfs-linux.img
Found fallback initrd image(s) in /boot: initramfs-linux-fallback.img
Warning: os-prober will not be executed to detect other bootable partitions.
Systems on them will not be added to the GRUB boot configuration.
Check GRUB_DISABLE_OS_PROBER documentation entry.
Adding boot menu entry for UEFI Firmware Settings ...
done
```

```
[root@archiso ~]# mount -U /mnt
root@archiso ~ # genfstab -U /mnt
# /dev/mapper/arch-root
UUID=c983d04c-a2f5-402e-a08b-bc648ac85639          /           ext4        rw,relatime   0 1
# /dev/mapper/arch-home
UUID=009bfd13-cc00-4627-b0ee-cd628a6c7ef7        /home        ext4        rw,relatime   0 2
# /dev/sda1
UUID=ECCB-C6A2          /boot        vfat        rw,relatime,fmask=0022,dmask=0022,codepage=437,iocharset=ascii,shortname
=mixed,utf8,errors=remount-ro  0 2
root@archiso ~ # genfstab -U /mnt > /mnt/etc/fstab
root@archiso ~ # umount -R /mnt
root@archiso ~ # lsblk
```

Reboot ->



```
[root@archlinux ~]# systemctl enable --now NetworkManager
Created symlink /etc/systemd/system/multi-user.target.wants/NetworkManager.service → /usr/lib/systemd/system/NetworkManager.service.
Created symlink /etc/systemd/system/dbus-org.freedesktop.nm-dispatcher.service → /usr/lib/systemd/system/NetworkManager-dispatcher.service.
Created symlink /etc/systemd/system/network-online.target.wants/NetworkManager-wait-online.service → /usr/lib/systemd/system/NetworkManager-wait-online.service.
```

```
[root@archlinux ~]# useradd -m -G wheel darksasuke
```

```
[root@archlinux ~]# vim /etc/sudoers_
```

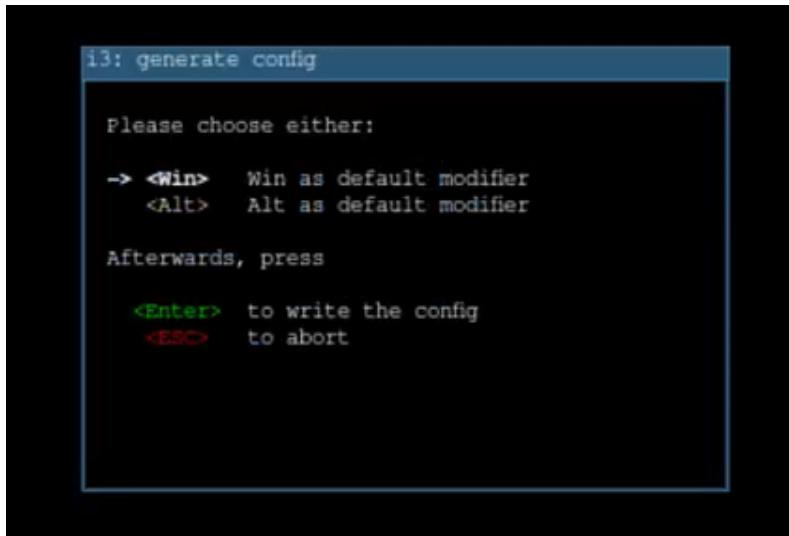
```
## Uncomment to allow members of group wheel to execute any command
#wheel ALL=(ALL:ALL) ALL

## Same thing without a password
# %wheel ALL=(ALL:ALL) NOPASSWD: ALL

## Uncomment to allow members of group sudo to execute any command
# %sudo ALL=(ALL:ALL) ALL

## Uncomment to allow any user to run sudo if they know the password
## of the user they are running the command as (root by default).
# Defaults targetpw # Ask for the password of the target user
# ALL ALL=(ALL:ALL) ALL # WARNING: only use this together with 'Defaults targetpw'

## Read drop-in files from /etc/sudoers.d
@includedir /etc/sudoers.d
"/etc/sudoers" 99L, 3317B written
[root@archlinux ~]#
```



```
arch [Em function] - Oracle VM VirtualBox
# This file has been auto-generated by i3-config-wizard(1).
# It will not be overwritten, so edit it as you like.
#
# Should you change your keyboard layout some time, delete
# this file and re-run i3-config-wizard(1).
#
# i3 config file (v4)
#
# Please see https://i3wm.org/docs/userguide.html for a complete reference!
set $mod Mod4

# Font for window titles. Will also be used by the bar unless a different font
# is used in the bar @ block below.
font pango:monospace 8

# This font is widely installed, provides lots of unicode glyphs, right-to-left
# text rendering and scalability on retina/hidpi displays (thanks to pango).
#font pango:DejaVu Sans Mono 8

# Start XDG autostart .desktop files using dex. See also
# https://wiki.archlinux.org/index.php/XDG_autostart
exec --no-startup-id dex --autostart --environment i3

# The combination of xss-lock, nm-applet and pactl is a popular choice, so
# they are included here as an example. Modify as you see fit.

# xss-lock grabs a logind suspend inhibit lock and will use i3lock to lock the
# screen before suspend. Use logind lock-session to lock your screen.
exec --no-startup-id xss-lock --transfer-sleep-lock -- i3lock --nofork

# NetworkManager is the most popular way to manage wireless networks on Linux,
# and nm-applet is a desktop environment-independent system tray GUI for it.
exec --no-startup-id nm-applet

# Use pactl to adjust volume in PulseAudio.
set $refresh_i3status killall -SIGUSR1 i3status
bindsym XF86AudioRaiseVolume exec --no-startup-id pactl set-sink-volume @DEFAULT_SINK@ +10% && $refresh_i3status
bindsym XF86AudioLowerVolume exec --no-startup-id pactl set-sink-volume @DEFAULT_SINK@ -10% && $refresh_i3status
bindsym XF86AudioMute exec --no-startup-id pactl set-sink-mute @DEFAULT_SINK@ toggle && $refresh_i3status
bindsym XF86AudioMicMute exec --no-startup-id pactl set-source-mute @DEFAULT_SOURCE@ toggle && $refresh_i3status

# Use Mouse+$mod to drag floating windows to their wanted position
floating_modifier $mod

# move tiling windows via drag & drop by left-clicking into the title bar,
#_config/i3/config".190L_6942B
```

Correction Arch – Full Encrypted

```
archlinux login: root
Password:
Last login: Mon Jan  9 16:55:23 on tty1
[root@archlinux ~]# lsblk
NAME      MAJ:MIN RM  SIZE RO TYPE MOUNTPOINTS
sda        8:0    0 35.6G  0 disk
└─sda1     8:1    0   1G  0 part /boot
  └─sda2     8:2    0 34.6G  0 part
    └─crypt0  254:0  0 34.6G  0 crypt
      ├─arch-root 254:2  0 32.9G  0 lvm /
      ├─arch-home 254:3  0 17.3G  0 lvm /home
sdb        8:16   0 15.7G  0 disk
└─crypt1  254:1  0 15.7G  0 crypt
  └─arch-root 254:2  0 32.9G  0 lvm /
sdc        8:32   0   1G  0 disk
sr0       11:0   1 816.3M 0 rom
[root@archlinux ~]# _
```

```
[root@archlinux ~]# mkfs.ext4 /dev/sdu
mke2fs 1.46.5 (30-Dec-2021)
The file /dev/sdu does not exist and no size was specified.
[root@archlinux ~]# mkfs.ext4 /dev/sdc
mke2fs 1.46.5 (30-Dec-2021)
Creating filesystem with 262144 4k blocks and 65536 inodes
Filesystem UUID: 183dc805-f4a8-4a82-b219-030cd3d2e5fd
Superblock backups stored on blocks:
            32768, 98304, 163840, 229376

Allocating group tables: done
Writing inode tables: done
Creating journal (8192 blocks): done
Writing superblocks and filesystem accounting information: done
```

```
[root@archlinux ~]# ls /mnt/
lost+found sda2 sdb
[root@archlinux ~]#
```

```
[root@archlinux ~]# blkid | grep sdc
/dev/sdc: UUID="183dc805-f4a8-4a82-b219-030cd3d2e5fd" BLOCK_SIZE="4096" TYPE="ext4"
[root@archlinux ~]# blkid | grep sdc >> /etc/default/grub
```

```
GRUB_DISTRIBUTOR= "Arch"
GRUB_CMDLINE_LINUX_DEFAULT="loglevel=3 quiet rd.luks.name=a3229b04-7638-4298-8ea5-7144c18ac640=crypt0 rd.luks.name=3d0730b9-4c19-4508-a680-c1af21bf9a73=crypt1 rd.luks.key=a3229b04-7638-4298-8ea5-7144c18ac640=/sda2= root=/dev/mapper/arch-root"
```

Tip: The whole `rd.luks.key` parameter can be omitted if the keyfile is included as `/etc/cryptsetup-keys.d/name.key`.

If the keyfile is on another device:

```
rd.luks.key=XXXXXXXX-XXXX-XXXX-XXXX-XXXXXXXXXXXX=/path/to/keyfile:UUID=ZZZZZZZZ-ZZZZ-ZZZZ-ZZZZ-ZZZZZZ
ZZZZZZ
```

Replace `UUID=ZZZZZZZZ-ZZZZ-ZZZZ-ZZZZ-ZZZZZZZZZZ` with the identifier of the device on which the keyfile is located.

Warning:

- If the type of file system is different than your root file system, you must include the kernel module for it in the initramfs.
- `rd.luks.key` with a keyfile on another device by default does not fallback to asking for a password if the device is not available. To fallback to a password prompt, specify the `keyfile-timeout=` option in `rd.luks.options`. E.g. for a 10 second timeout:

```
rd.luks.options=XXXXXXXX-XXXX-XXXX-XXXX-XXXXXXXXXX=keyfile-timeout=10s
```

```
GRUB_CMDLINE_LINUX_DEFAULT="loglevel=3 quiet rd.luks.key=a3229b04-7638-4298-8ea5-7144c18ac640=/sda2:UUID=183dc805-f4a8-4a82-b219-030cd3d2e5fd rd.luks.key=3d0730b9-4c19-4508-a688-c1af21bf9a73=/sdb:UUID=183dc805-f4a8-4a82-b219-030cd3d2e5fd root=/dev/mapper/arch-root"
GRUB_CMDLINE_LINUX=""
```

```
root@archiso ~ # lsblk
NAME      MAJ:MIN RM  SIZE RO TYPE MOUNTPOINTS
loop0      7:0    0 702.1M  1 loop /run/archiso/airootfs
sda        8:0    0 35.6G  0 disk 
└─sda1     8:1    0   1G  0 part 
  └─sda2     8:2    0 34.6G  0 part 
    └─crypt0  253:0  0 34.6G  0 crypt 
      ├─arch-root 253:2  0 32.9G  0 lvm 
      └─arch-home 253:3  0 17.3G  0 lvm 
sdb        8:16   0 15.7G  0 disk 
└─crypt0  253:1  0 15.7G  0 crypt 
  ├─arch-root 253:2  0 32.9G  0 lvm 
sdc        8:32   0   1G  0 disk 
sr0       11:0   1 816.3M 0 rom 

root@archiso ~ # mount /dev/mapper/arch-root /mnt
root@archiso ~ # mount /dev/mapper/arch-home /mnt/home
root@archiso ~ # mount /dev/sda1 /mnt/boot
root@archiso ~ # lsblk
NAME      MAJ:MIN RM  SIZE RO TYPE MOUNTPOINTS
loop0      7:0    0 702.1M  1 loop /run/archiso/airootfs
sda        8:0    0 35.6G  0 disk 
└─sda1     8:1    0   1G  0 part /mnt/boot 
  └─sda2     8:2    0 34.6G  0 part 
    └─crypt0  253:0  0 34.6G  0 crypt 
      ├─arch-root 253:2  0 32.9G  0 lvm /mnt 
      └─arch-home 253:3  0 17.3G  0 lvm /mnt/home 
sdb        8:16   0 15.7G  0 disk 
└─crypt0  253:1  0 15.7G  0 crypt 
  ├─arch-root 253:2  0 32.9G  0 lvm /mnt 
sdc        8:32   0   1G  0 disk 
sr0       11:0   1 816.3M 0 rom
```

```
GRUB_CMDLINE_LINUX_DEFAULT="loglevel=3 quiet rd.luks.uuid=a3229b04-7638-4298-8ea5-7144c18ac640 rd.luks.key=a3229b04-7638-4298-8ea5-7144c18ac640=/sda2:UUID=183dc805-f4a8-4a82-b219-030cd3d2e5fd rd.luks.key=3d0730b9-4c19-4508-a688-c1af21bf9a73 rd.luks.key=3d0730b9-4c19-4508-a688-c1af21bf9a73=/sdb:UUID=183dc805-f4a8-4a82-b219-030cd3d2e5fd root=/dev/mapper/arch-root"
# rd.luks.name=a3229b04-7638-4298-8ea5-7144c18ac640=crypt0 rd.luks.name=3d0730b9-4c19-4508-a688-c1af21bf9a73=crypt1
# Preload both GPT and MBR modules so that they are not missed
GRUB_PRELOAD_MODULES="part_gpt part_msdos"
```

