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# 1 Image prepare

## 1.1 Parting

Plan: part1 256M part2 7G

Part1:

2048 Sector Start

Size Part1[sectors]:  $(256 * 1024 * 1024 - 2048 * 512) / 512 = 522240$

Start Part2[Sectors]:  $256 * 2^{20} / 512 = 524288$

Size Part2[Sectors]:  $7 * 2^{30} / 512 = 14680064$

dd size:  $(7 * 2^{30} + 256 * 2^{20}) / 2^{20} = 7424$

## 2 Creating

TRAP: ArchLinux requires bigger first partition than Raspbian.

`tar -xvzf <file.tar.gz> -C <destination>`

??? -p preserve file attributes

Use script

`age.sh`

to get the ala archieve file

TRAP: use rpi-2 image for raspi 3 too

Use script

`make_image.sh`

To create an image for arch linux

change config.txt for USB Stick usage

## 3 First Install and Update

After starting image ... log into arch linux with putty

Login as alarm; su to root (both name = passwd)

*loadkeys de*

at Terminal usage.

Two commands by install advise

*pacman-key --init*

*pacman-key --populate archlinuxarm*

Init the update system

*pacman -Sy*  
*pacman -Su*

Special tool found necessary

*pacman -S mc*

install xorg in arch with optional lxde

*pacman -S xorg*  
*pacman -S xterm*  
*pacman -S lxde*  
*pacman -S xorg-xinit*

start with

*startx startlxde*

## **4 Prep 4 X**

## **5 Add JRE**

## 6 Links

### 6.1 *alarm*

<http://archlinuxarm.org>

<https://archlinuxarm.org/platforms/armv8/broadcom/raspberry-pi-3>

Hints about X Server

<https://wiki.archlinux.org/index.php/xorg>

### 6.2 *Hints*

WorkEnvironement/Doc/Javarpi2\_alarm.odt