# **arch-install-script**

[小凉弱弱](https://gitee.com/kua-rabbit) 提交于 2年前 . [Merge branch 'master' of https://git.oschina.net/kua-rabbit/arch-insta](https://gitee.com/kua-rabbit/arch-install/commit/02ba24af99f0bc7a0b9911d5a88a6d5093ace4da)ll

自己用的Archlinux快速安装脚本 （暂时不建议小白使用）

注意： 为了节省安装时间（不喜欢长时间看那字小得可怜的tty），在安装前请务必****检查并改好脚本内容****，改好要挂载的分区，改好自己用户名，加上自己想用软件，毕竟每个人的电脑和需求都不一样。 另外我很久没有装过arch了，install脚本内容已经过时，请自行修改后使用。

### **安装**

不清楚arch安装的萌新小白请参考熟悉安装过程 [Installation guide (简体中文)](https://gitee.com/link?target=https://wiki.archlinux.org/index.php/Installation_guide_(%E7%AE%80%E4%BD%93%E4%B8%AD%E6%96%87)) ****清楚每一行的意义后再试试该脚本****

一共要执行3个脚本

install - 安装基本系统（联网并进入archiso后执行）

setup - 配置系统，安装常用软件、桌面环境，设置用户名（执行完install脚本后，chroot进安装好的系统里执行）

conf\_restore - 还原配置文件及我自己的dotfiles（可选，重启成功进入系统后执行，建议用你自己的dotfile）

windows-uts-setting.bat - 将机器时间由地方时改成UTC，装windows双系统需要执行的脚本

reinstall-grub - grub重装脚本，用来识别并添加其他系统的grub引导项。系统完成安装后在arch-chroot后执行

安装前注意

修改 applist ，这是要安装的软件列表脚本，可单独执行，

install1.46 KB

[一键复制](https://gitee.com/kua-rabbit/arch-install/blob/master/install)[编辑](https://gitee.com/kua-rabbit/arch-install/edit/master/install" \o "只有登陆后才可以编辑)[Web IDE](https://gitee.com/-/ide/project/kua-rabbit/arch-install/edit/master/-/install" \t "https://gitee.com/kua-rabbit/arch-install/blob/master/_blank)[原始数据](https://gitee.com/kua-rabbit/arch-install/raw/master/install" \t "https://gitee.com/kua-rabbit/arch-install/blob/master/_blank)[按行查看](https://gitee.com/kua-rabbit/arch-install/blame/master/install)[历史](https://gitee.com/kua-rabbit/arch-install/commits/master/install)

[小凉弱弱](https://gitee.com/kua-rabbit) 提交于 2年前 . [Merge branch 'master' of https://git.oschina.net/kua-rabbit/arch-insta…](https://gitee.com/kua-rabbit/arch-install/commit/02ba24af99f0bc7a0b9911d5a88a6d5093ace4da)

[1](https://gitee.com/kua-rabbit/arch-install/blob/master/install" \l "L1)[2](https://gitee.com/kua-rabbit/arch-install/blob/master/install" \l "L2)[3](https://gitee.com/kua-rabbit/arch-install/blob/master/install" \l "L3)[4](https://gitee.com/kua-rabbit/arch-install/blob/master/install" \l "L4)[5](https://gitee.com/kua-rabbit/arch-install/blob/master/install" \l "L5)[6](https://gitee.com/kua-rabbit/arch-install/blob/master/install" \l "L6)[7](https://gitee.com/kua-rabbit/arch-install/blob/master/install" \l "L7)[8](https://gitee.com/kua-rabbit/arch-install/blob/master/install" \l "L8)[9](https://gitee.com/kua-rabbit/arch-install/blob/master/install" \l "L9)[10](https://gitee.com/kua-rabbit/arch-install/blob/master/install" \l "L10)[11](https://gitee.com/kua-rabbit/arch-install/blob/master/install" \l "L11)[12](https://gitee.com/kua-rabbit/arch-install/blob/master/install" \l "L12)[13](https://gitee.com/kua-rabbit/arch-install/blob/master/install" \l "L13)[14](https://gitee.com/kua-rabbit/arch-install/blob/master/install" \l "L14)[15](https://gitee.com/kua-rabbit/arch-install/blob/master/install" \l "L15)[16](https://gitee.com/kua-rabbit/arch-install/blob/master/install" \l "L16)[17](https://gitee.com/kua-rabbit/arch-install/blob/master/install" \l "L17)[18](https://gitee.com/kua-rabbit/arch-install/blob/master/install" \l "L18)[19](https://gitee.com/kua-rabbit/arch-install/blob/master/install" \l "L19)[20](https://gitee.com/kua-rabbit/arch-install/blob/master/install" \l "L20)[21](https://gitee.com/kua-rabbit/arch-install/blob/master/install" \l "L21)[22](https://gitee.com/kua-rabbit/arch-install/blob/master/install" \l "L22)[23](https://gitee.com/kua-rabbit/arch-install/blob/master/install" \l "L23)[24](https://gitee.com/kua-rabbit/arch-install/blob/master/install" \l "L24)[25](https://gitee.com/kua-rabbit/arch-install/blob/master/install" \l "L25)[26](https://gitee.com/kua-rabbit/arch-install/blob/master/install" \l "L26)[27](https://gitee.com/kua-rabbit/arch-install/blob/master/install" \l "L27)[28](https://gitee.com/kua-rabbit/arch-install/blob/master/install" \l "L28)[29](https://gitee.com/kua-rabbit/arch-install/blob/master/install" \l "L29)[30](https://gitee.com/kua-rabbit/arch-install/blob/master/install" \l "L30)[31](https://gitee.com/kua-rabbit/arch-install/blob/master/install" \l "L31)[32](https://gitee.com/kua-rabbit/arch-install/blob/master/install" \l "L32)[33](https://gitee.com/kua-rabbit/arch-install/blob/master/install" \l "L33)[34](https://gitee.com/kua-rabbit/arch-install/blob/master/install" \l "L34)[35](https://gitee.com/kua-rabbit/arch-install/blob/master/install" \l "L35)[36](https://gitee.com/kua-rabbit/arch-install/blob/master/install" \l "L36)[37](https://gitee.com/kua-rabbit/arch-install/blob/master/install" \l "L37)[38](https://gitee.com/kua-rabbit/arch-install/blob/master/install" \l "L38)[39](https://gitee.com/kua-rabbit/arch-install/blob/master/install" \l "L39)[40](https://gitee.com/kua-rabbit/arch-install/blob/master/install" \l "L40)[41](https://gitee.com/kua-rabbit/arch-install/blob/master/install" \l "L41)[42](https://gitee.com/kua-rabbit/arch-install/blob/master/install" \l "L42)[43](https://gitee.com/kua-rabbit/arch-install/blob/master/install" \l "L43)[44](https://gitee.com/kua-rabbit/arch-install/blob/master/install" \l "L44)[45](https://gitee.com/kua-rabbit/arch-install/blob/master/install" \l "L45)[46](https://gitee.com/kua-rabbit/arch-install/blob/master/install" \l "L46)[47](https://gitee.com/kua-rabbit/arch-install/blob/master/install" \l "L47)[48](https://gitee.com/kua-rabbit/arch-install/blob/master/install" \l "L48)[49](https://gitee.com/kua-rabbit/arch-install/blob/master/install" \l "L49)[50](https://gitee.com/kua-rabbit/arch-install/blob/master/install" \l "L50)[51](https://gitee.com/kua-rabbit/arch-install/blob/master/install" \l "L51)[52](https://gitee.com/kua-rabbit/arch-install/blob/master/install" \l "L52)[53](https://gitee.com/kua-rabbit/arch-install/blob/master/install" \l "L53)[54](https://gitee.com/kua-rabbit/arch-install/blob/master/install" \l "L54)[55](https://gitee.com/kua-rabbit/arch-install/blob/master/install" \l "L55)[56](https://gitee.com/kua-rabbit/arch-install/blob/master/install" \l "L56)[57](https://gitee.com/kua-rabbit/arch-install/blob/master/install" \l "L57)[58](https://gitee.com/kua-rabbit/arch-install/blob/master/install" \l "L58)[59](https://gitee.com/kua-rabbit/arch-install/blob/master/install" \l "L59)[60](https://gitee.com/kua-rabbit/arch-install/blob/master/install" \l "L60)[61](https://gitee.com/kua-rabbit/arch-install/blob/master/install" \l "L61)[62](https://gitee.com/kua-rabbit/arch-install/blob/master/install" \l "L62)[63](https://gitee.com/kua-rabbit/arch-install/blob/master/install" \l "L63)[64](https://gitee.com/kua-rabbit/arch-install/blob/master/install" \l "L64)[65](https://gitee.com/kua-rabbit/arch-install/blob/master/install" \l "L65)[66](https://gitee.com/kua-rabbit/arch-install/blob/master/install" \l "L66)[67](https://gitee.com/kua-rabbit/arch-install/blob/master/install" \l "L67)[68](https://gitee.com/kua-rabbit/arch-install/blob/master/install" \l "L68)[69](https://gitee.com/kua-rabbit/arch-install/blob/master/install" \l "L69)[70](https://gitee.com/kua-rabbit/arch-install/blob/master/install" \l "L70)[71](https://gitee.com/kua-rabbit/arch-install/blob/master/install" \l "L71)[72](https://gitee.com/kua-rabbit/arch-install/blob/master/install" \l "L72)

#!/bin/bash

# 安装arch系统脚本,于livecd上运行

# 自行设定分区的位置

SYSTEM=/dev/sda5 # / 根目录

HOME=/dev/sda6 # home 目录

VAR=/dev/sda7 # var 目录

SWAP=/dev/sda8 # swap 分区

################

displayMountPoint(){

lsblk

echo -e "Please confirm all mount points at right partition again.

\e[1;46m$SYSTEM\e[0m -> \e[1;46m'/'\e[0m

\e[1;46m$HOME\e[0m -> \e[1;46m'/home'\e[0m

\e[1;46m$VAR\e[0m -> \e[1;46m'/var'\e[0m

ctrl + C to exit"

#SWAP -> \e[1;46m$SWAP\e[0m

read

}

displayMountPoint

umount -R /mnt

# 格式化分区

#echo "是否格式化主目录分区"

echo -e "\e[1;46m - Partition the disks of / ? - \e[0m"

mkfs.ext4 "$SYSTEM"

#echo "是否格式化 /home 目录分区"

echo -e "\e[1;46m - Partition the disks of /home ? - \e[0m"

mkfs.ext4 "$HOME"

#echo "是否格式化 /var 目录分区"

echo -e "\e[1;46m - Partition the disks of /var ? - \e[0m"

mkfs.ext4 "$VAR"

#mkswap "$SWAP"

# 挂载分区

mount "$SYSTEM" /mnt

mkdir -p /mnt/home

mkdir -p /mnt/var

mount "$VAR" /mnt/var

mount "$HOME" /mnt/home

#swapon "$SWAP"

# 更新国内镜像源

cp ./mirrorlist /etc/pacman.d/mirrorlist

pacman -Syy

# 更新系统时间

timedatectl set-ntp true

# 安装基本文件系统

pacstrap /mnt base linux linux-firmware

# 配置fstab

genfstab -p -U /mnt > /mnt/etc/fstab

# 移动安装配置脚本

cp ./setup /mnt/

cp ./applist /mnt/

# chroot

arch-chroot /mnt /bin/bash

# 移除安装配置脚本

#rm /mnt/setup

#rm /mnt/applist

# umount -R /mnt

# reboot

请确认并修改自己要安装的软件。也可以等装完系统后再执行该脚本

修改 install setup 中要自行设定的变量（如分区挂载点，用户名等）

分区，不提供分区脚本，请自己先分好区再安装（脚本默认为uefi引导）

setup4.01 KB

[一键复制](https://gitee.com/kua-rabbit/arch-install/blob/master/setup)[编辑](https://gitee.com/kua-rabbit/arch-install/edit/master/setup" \o "只有登陆后才可以编辑)[Web IDE](https://gitee.com/-/ide/project/kua-rabbit/arch-install/edit/master/-/setup" \t "https://gitee.com/kua-rabbit/arch-install/blob/master/_blank)[原始数据](https://gitee.com/kua-rabbit/arch-install/raw/master/setup" \t "https://gitee.com/kua-rabbit/arch-install/blob/master/_blank)[按行查看](https://gitee.com/kua-rabbit/arch-install/blame/master/setup)[历史](https://gitee.com/kua-rabbit/arch-install/commits/master/setup)

[小凉弱弱](https://gitee.com/kua-rabbit) 提交于 2年前 . [Merge branch 'master' of https://git.oschina.net/kua-rabbit/arch-insta…](https://gitee.com/kua-rabbit/arch-install/commit/02ba24af99f0bc7a0b9911d5a88a6d5093ace4da)

#!/bin/bash

# 系统配置脚本，在arch-chroot后执行

# 自行设定

ESP=/dev/sda1 # EFI 分区

USERNAME="rabbit" # 设置新的用户名

HOSTNAME="kua-arch" # 设置主机名

SWAPFILE\_SIZE='1G' # 设置swap文件大小

source ./applist

# 预先要安装的软件

pacman -S --noconfirm --needed sudo wget ntfs-3g

system\_configure(){

# 添加新的用户

useradd -m -g users -s /bin/bash "$USERNAME" # 添加新的用户

sed "/root ALL=(ALL) ALL/i"$USERNAME" ALL=(ALL) ALL" -i /etc/sudoers

sed '/# %wheel ALL=(ALL) ALL/{s/# //}' -i /etc/sudoers

gpasswd -a "$USERNAME" wheel # 新的用户添加到wheel组

gpasswd -a "$USERNAME" games # 新的用户添加到game组

gpasswd -a "$USERNAME" storage # 新的用户添加到storage组(挂载设备免输密码)

# 更新hosts

cp /etc/hosts /etc/hosts.bak # 备份原hosts

sed "/localhost/s/$/\t**${**HOSTNAME**}**/g" -i /etc/hosts

# 设置主机名

echo "$HOSTNAME" > /etc/hostname

# 添加 [archlinuxcn] 源

cat << EOF >> /etc/pacman.conf

#Netease (网易源)

[archlinuxcn]

SigLevel = Optional TrustedOnly

Server = http://mirrors.163.com/archlinux-cn/\$arch

EOF

pacman -Syy --noconfirm archlinuxcn-keyring

sed '/#Color/{s/#//}' -i /etc/pacman.conf # pacman 彩色输出

# 设置时区与时间

timedatectl set-ntp true

ln -s /usr/share/zoneinfo/Asia/Shanghai /etc/localtime

timedatectl set-timezone Asia/Shanghai # 时区设置为 上海

hwclock --systohc --utc # 从当前系统时间设置硬件时钟并保持为 UTC 时间

#timedatectl set-local-rtc 0 # 硬件时间设置成 UTC

#timedatectl set-local-rtc 1 # 硬件时间设置成 RTC (本地时间)(不建议！)

# 设置系统支持的编码

#en\_US.UTF-8

#zh\_CN.GB18030 GB18030

#zh\_CN.GBK GBK

#zh\_CN.UTF-8 UTF-8

#zh\_CN GB2312

sed -e '/#en\_US.UTF-8\|#zh\_CN.GB18030\|#zh\_CN.GBK\|#zh\_CN GB2312\|#zh\_CN.UTF-8\|#ja\_JP.UTF-8 UTF-8\|#zh\_TW BIG5\|#zh\_TW.UTF-8/{s/#//}' -i /etc/locale.gen

locale-gen

echo 'LANG=en\_US.UTF-8' > /etc/locale.conf

}

install\_grub(){

# 挂载ESP分区

mkdir -p /boot/efi

mount "$ESP" /boot/efi

# 安装GRUB

pacman -S --noconfirm --needed dosfstools e2fsprogs grub efibootmgr os-prober

grub-install --target=x86\_64-efi --efi-directory=/boot/efi --bootloader-id=arch\_grub --recheck # UEFI方式安装

# grub-install --recheck /dev/<目标磁盘> # BIOS方式安装

grub-mkconfig -o /boot/grub/grub.cfg

}

install\_driver(){

# 安装显卡驱动

nvidia=`(lspci | grep -E 'VGA|3D|Display' | grep 'NVIDIA' )`

amd=`(lspci | grep -E 'VGA|3D|Display' | grep 'AMD' )`

intel=`(lspci | grep -E 'VGA|3D|Display' | grep 'Intel' )`

radeon=`(lspci | grep -E 'VGA|3D|Display' | grep 'Radeon')`

**if** [[ -n "$nvidia" ]]; **then**

pacman -S --noconfirm nvidia

**fi**

**if** [[ -n "$radeon" ]]; **then**

pacman -S --noconfirm xf86-video-ati

**fi**

**if** [[ -n "$amd" ]]; **then**

pacman -S --noconfirm xf86-video-amdgpu

**fi**

**if** [[ -n "$intel" ]]; **then**

pacman -S --noconfirm xf86-video-intel

**fi**

**if** [[ -n "$nvidia" && -n "$intel" ]]; **then**

pacman -S --noconfirm bumblebee

gpasswd -a "$USERNAME" bumblebee

systemctl enable bumblebeedg

**fi**

# 安装触摸板驱动

**if** [[ -n "`grep 'Synaptics TouchPad' /proc/bus/input/devices`" ]]; **then**

pacman -S --noconfirm xf86-input-synaptics

**fi**

}

install\_all(){

# 安装软件与桌面环境

pacman -S --noconfirm --needed "**${**DE\_packages[@]**}**"

pacman -S --noconfirm --needed "**${**APP\_packages[@]**}**"

#pacman -S --noconfirm --needed "${WM\_packages[@]}"

#pacman -R --noconfirm "${Remove\_packages[@]}"

}

user\_configure(){

#echo -e "\e[1;46m - 设置root账户密码 - \e[0m"

echo -e "\e[1;46m - Set Root Password - \e[0m"

passwd root # 设置root账户密码

#echo -e "\e[1;46m - 请设置新用户密码 - \e[0m"

echo -e "\e[1;46m - Set NewUser Password - \e[0m"

passwd "$USERNAME" # 设置新用户密码

echo "system config finish!"

}

system\_configure

install\_all

install\_driver

install\_grub

user\_configure

exit