Pre-Installation

Verify signature

gpg --keyserver pgp.mit.edu --keyserver-options auto-key-retrieve --verify *archlinux-version-x86_64.iso.sig*

Boot the live environment

The live environment can be booted from a USB flash drive, an optical disc or a network with PXE

Set the keyboard layout

ls /usr/share/kbd/keymaps/**/*.map.gz
loadkeys us

Set the console font

ls /usr/share/kbd/consolefonts
setfont Lat2-Terminus16

Verify boot mode

ls /sys/firmware/efi/efivars

Connect to the Internet

ping archlinux.org

Update the system clock

timedatectl set-ntp true

Partition the disk

fdisk -l
fdisk /dev/sda

Format the partitions

mkswap /dev/sda1
swapon /dev/sda1
mkfs.ext4 /dev/sda2

Mount the file systems

mount /dev/sda2 /mnt

Installation

Select the mirrors

pacman -Sy
pacman -S pacman-contrib
curl -s "https://www.archlinux.org/mirrorlist/?country=IN&protocol=http&protocol=https&ip_version=4&use_mirror_status=on" | sed -e 's/^#Server/Server/' -e '/^#/d' | rankmirrors -n 5 - > /etc/pacman.d/mirrorlist

Install the base packages

pacstrap /mnt base base-devel

Configuration

Fstab

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

Chroot

arch-chroot /mnt

Time zone

ln -sf /usr/share/zoneinfo/Asia/Kolkata /etc/localtime
hwclock --systohc

Localization

vi /etc/locale.gen
locale-gen
echo 'LANG=en_US.UTF-8' > /etc/locale.conf
echo 'KEYMAP=us' > /etc/vconsole.conf
echo 'FONT=Lat2-Terminus16' >> /etc/vconsole.conf

Network configuration

echo 'localhost' > /etc/hostname

Initramfs

mkinitcpio -p linux

Root password

passwd

Boot loader

pacman -S grub
grub-install --target=i386-pc /dev/sda
grub-mkconfig -o /boot/grub/grub.cfg