GNU/Linux Administration - Support #207

Vanilla Arch Linux Base Installation

09/27/2013 10:12 AM - Daniel Curtis

Status:	Closed	Start date:	09/27/2013
Priority:	Normal	Due date:	
Assignee:	Daniel Curtis	% Done:	100%
Category:		Estimated time:	2.00 hours
Target version:		Spent time:	2.00 hours

Description

I decided to finally try Arch Linux out, and found it to be fast and highly configurable. As such I will document what I did to get a Base installation for Arch. I booted Arch up from its live ISO and was dumped to a root shell.

This guide will use GRUB with a Master Boot Record; this is an older setup, but still useful.

Partition Hard Drive

• Use fdisk to setup the initial partition map:

```
fdisk /dev/sda
n
p
+1G
n
p
[Enter]
w
```

• Make file system and swap

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

• Mount the new file system

```
mount /dev/sda1 /mnt
```

• Bootstrap the base system installation

```
pacstrap /mnt base base-devel openssh grub sudo
```

Configure Base System

• Generate A File System Configuration

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

· Chroot Into The Base System

```
arch-chroot /mnt
```

04/08/2024 1/3

• Create a static ethernet connection

cp /etc/netctl/examples/ethernet-static /etc/netctl/wired
netctl enable wired

- NOTE: Edit /etc/netctl/wired to the correct network settings
- · Set host name

vi /etc/hostname

• Set the local time

ln -s /usr/share/zoneinfo/America/Los_Angeles /etc/localtime

• Create initial ram disk

mkinitcpio -p linux

• Change root password

passwd

• Create a non-privileged user

useradd -m -g users -s /bin/bash bob

• Add non-privileged user to sudo users

visudo

• Then add the following

bob ALL=(ALL) ALL

• Install grub boot files

grub-install --target=i386-pc --recheck --debug /dev/sda

• Generate grub config file

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

• Exit The Chroot Environment

exit

04/08/2024 2/3

Finalize The Install

At this point Arch is ready for use, however you can install packages for the new Base system before restarting the machine:

pacman -S gnome

• NOTE: Setting up Xorg or a Desktop Environment is outside the scope of this guide.

When all packages are finished installing unmount the Base system partition and reboot

umount /dev/sda1 reboot

History

#1 - 10/05/2014 12:08 AM - Daniel Curtis

- Description updated

#2 - 10/05/2014 12:09 AM - Daniel Curtis

- Description updated

#3 - 10/05/2014 12:10 AM - Daniel Curtis

- Description updated

#4 - 10/05/2014 12:18 AM - Daniel Curtis

- Description updated

04/08/2024 3/3