

# GNU/Linux Administration - Support #590

## Bare Vanilla Arch Installation

04/05/2015 11:14 AM - Daniel Curtis

<b>Status:</b>	Closed	<b>Start date:</b>	04/05/2015
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	Daniel Curtis	<b>% Done:</b>	100%
<b>Category:</b>		<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	Arch Linux	<b>Spent time:</b>	1.50 hour

### Description

This is a simple guide to setup a base minimal Arch Linux installation.

## Prepare the partition

- Format the hard drive using cfdisk:

```
cfdisk /dev/sda
```

- Create the filesystem:

```
mkfs.ext4 /dev/sda1
```

- Mount the partition:

```
mount /dev/sda1 /mnt  
mkdir /mnt/etc
```

## Install the Base System

- Generate an fstab:

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

- Now its time to install the base system:

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

## Setup the Environment

- chroot into the newly installed system:

```
arch-chroot /mnt
```

- Write your hostname to /etc/hostname:

```
echo 'archlinux' >> /etc/hostname
```

- Symlink /etc/localtime to /usr/share/zoneinfo/Zone/SubZone:

```
ln -s /usr/share/zoneinfo/America/Los_angeles /etc/localtime
```

- Uncomment the selected locale:

```
vi /etc/locale.gen
```

- And use the following to enable en\_US.UTF-8:

```
:%s/#en_US.UTF-8/en_US.UTF-8  
:wq
```

- Then generate locale with with:

```
locale-gen
```

- Configure /etc/mkinitcpio.conf as needed and create an initial RAM disk with:

```
mkinitcpio -p linux
```

- Set a root password:

```
passwd
```

- Configure the network again for newly installed environment:

```
cp /etc/netctl/examples/ethernet-dhcp /etc/netctl/wired  
systemctl enable systemd-networkd.service  
netctl enable wired
```

- (Optional) Disable systemd-resolved to allow netctl to set DNS:

```
systemctl disable systemd-resolved
```

- Enable SSH

```
systemctl enable sshd.service
```

## Add an Administrative User

- Add an unprivileged user, bob in this case:

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

- And set a password for the user:

```
passwd bob
```

- Add the sudo group:

```
groupadd sudo
```

- Edit the sudo file:

```
visudo
```

- And uncomment the sudo group line:

```
%sudo    ALL=(ALL) ALL
```

- Then add the user bob to the sudo group:

```
usermod -aG sudo bob
```

## Install the bootloader

- Now install GRUB:

```
grub-install --target=i386-pc --recheck --debug /dev/sda  
grub-mkconfig -o /boot/grub/grub.cfg
```

- Exit and reboot the out of the installation environment:

```
exit  
umount /mnt  
reboot
```

## History

---

### #1 - 04/05/2015 03:03 PM - Daniel Curtis

- Subject changed from *Vanilla Arch Installation* to *Bare Vanilla Arch Installation*
- Description updated
- Status changed from *New* to *Resolved*
- % Done changed from *0* to *100*

### #2 - 04/05/2015 03:05 PM - Daniel Curtis

- Description updated

### #3 - 04/11/2015 01:31 PM - Daniel Curtis

- Status changed from *Resolved* to *Closed*

### #4 - 05/02/2015 08:08 AM - Daniel Curtis

- Description updated

### #5 - 05/02/2015 08:34 AM - Daniel Curtis

- Description updated