

Ubuntu Install

Posted by rip1999eternal - 2011/05/13 12:08

Ok, so i've installed Ubuntu through Vmware onto a vhd, added the vmware tools and all, now I want to natively boot from that vhd.

HOWEVER, i don't want to use the prebuilt initrd and vmlinuz kernels on the site. i want to use the ones installed. I added the vloop.ko driver into the installation. The steps were as follows:

- 1 - created vhd with windows 7 diskpart.
- 2 - in Vmware created new virtual machine using vhd as primary disk. The vhd is SDA and / is on sda1.
- 3 - after install, ran updates and installed vmware tools.
- 4 - obtained files vloop.ko and vlosetup from pre-built image available on this site, and put vlosetup in directory /sbin/ and vloop.ko in directory /lib/modules/...28-generic/extra/ on my vhd.
- 5 - edited /etc/modules and added vloop in the list of modules to load at boot time. did the same with /etc/initramfs-tools/modules/
- 6 - in a terminal ran 'sudo depmod' then 'sudo update-initramfs -u'
- 7 - dragged vmlinuz-2.6**** and initrd out of VMware and onto C: (renamed to vmlinuz and initrd.img)
- 8 - in grub.cfg in vboot directory i have lines:

```
menuentry "VHD Ubuntu 10.10" {
  insmod vhd
  insmod ntfs
  linux (hd0,1)/vmlinuz root=/dev/sda1 vloop=/ubuntu.vhd vlooppart=p1 quiet splash
  initrd (hd0,1)/initrd.img
}
```

where hd0,1 is my windows partition (drive c:). i ran search -f /ntldr just to verify and it confirmed hd0,1.

grub can load the kernel and initrd, and when the kernel starts to load I can see the vmlite vboot drivers loading up first as i would when i loaded the pre-built vhd provided on this site, however after a few seconds i get an error and it drops me to a command prompt. Ubuntu does not continue to load after that.

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Re: Ubuntu Install

Posted by admin - 2011/05/13 15:26

you need to modify some scripts, and regenerate a new initrd. It's a bit involving.

The easiest way is to copy the vloop folder from our pre-build vhd file to your vhd, then do "sudo make".

```
////////// readme file //////////
```

```
# Copyright (C) 2011 VMLite, Inc.
```

```
#
```

```
# http://www.vmlite.com
```

```
#
```

```
# Authors: Huihong Luo and Bin He
```

```
#
```

```
# This file is part of VMLite VBoot for Linux project, as available from http://www.vmlite.com.
```

```
# VBoot Linux is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY of any kind.
```

If your Linux Ubuntu system has exactly same version as VBoot supports, you can simply run the following to install VBoot:

```
"sudo make"
```

which installs VBoot drivers, modified initramfs scripts, as well as creating a new initrd file in /boot that can be used to boot from a virtual disk file.

This folder contains VBoot Linux binary files.

vloop.ko is the Linux kernel module that provides virtual disk support.

vlosetup is the user space program that you can use to mount virtual disk files. It supports VHD, VMDK and VDI formats.

The other folders contain scripts that must be modified in order to boot from a virtual disk file.

initramfs-tools --- the original Ubuntu scripts that VBoot patch is modified from.

initramfs-tools-vboot --- the modified scripts that supports VBoot. You can diff this folder to initramfs-tools to find our the difference. If your system has same scripts as inside initramfs-tools, then you can simply copy this modified version to overwrite your system files.

initramfs-backup --- if you run "make" to install the modified scripts in initramfs-tools-vboot, this folder contains the backup copy of your system's original files.

After you have install VBoot in your Linux system, you will need to use and configure VBoot Loader to boot the virtual disk file.

visit <http://www.vmlite.com> for more info.

```
=====
```

Re: Ubuntu Install

Posted by rip1999eternal - 2011/05/13 16:18

sweet. where is that folder located?

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Re: Ubuntu Install

Posted by admin - 2011/05/13 16:34

have you download the ubuntu-10.10 vhd? if so, it's inside the /home/user/vloop folder.

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Re:Ubuntu Install

Posted by rip1999eternal - 2011/05/14 02:47

thanks for the quick reply. will attempt and post results and steps.

Thanks again.

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Re:Ubuntu Install

Posted by rip1999eternal - 2011/05/16 16:25

ok so that was unexpectedly easy...

create vhd.

install ubuntu as normal in vm, run updates,

copy in /home/user/vloop... folder from pre-made vhd

in a terminal type 'make'

i looked that the init scripts to rebuild the initrd, pretty nifty. I could use that idea to load a custom filesystem.squashfs into ram and boot from that if i decide to do a ram boot...

i took a look through the contents of the vloop folder in the users home directory and found a few files. looks like the original vloop.c might have been taken out if there was one. any place i can find the original c source file to rebuild it?

<http://www.cyberciti.biz/tips/build-linux-kernel-module-against-installed-kernel-source-tree.html>

as per the above link, i can compile it from source against the kernel headers of another kernel version if i want to easily install it in another version.

Re:Ubuntu Install

Posted by admin - 2011/05/16 17:14

vloop.c is our source code, we haven't decided as whether to open source it, so it's not available at this time.

In addition, so far, we only made sure our vboot works well on Ubuntu and Fedora, for other distributions, it may not be that easy.

We are working on a new implementation that will not depend on Linux kernel, and one can deploy only the binaries to make a linux to boot from vhd. It's still not as performing as our vloop kernel module, which is holding its release.

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Re:Ubuntu Install

Posted by rip1999eternal - 2011/05/17 21:16

nvm. didnt see previous post...

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Posted by generic cialis - 2015/11/27 18:10

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