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How to install Fedora 15 on an encrypted btrfs file system

May 25, 2011

Fedora 15, the latest stable release of the Red Hat-sponsored Linux distribution, is the first <u>Fedora</u> relea btrfs, the <u>B-tree File System</u> (also called Butter F S), as a file system option during the installation pr earlier versions, you would have had to...

л*и*....

Dual-booting Windows 7 and Ubuntu 10.10

Tutorials/Tips, ubuntu | January 28, 2011 3:31 pm

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This is the second article on dual-booting Windows 7 and <u>Ubuntu</u> <u>10.10</u> on a computer with one hard disk. The first, <u>how to dual-boot</u> <u>Ubuntu 10.10 and Windows 7</u>, showed how to accomplish the task with GRUB 2, the boot loader used by <u>Ubuntu</u>, installed on the Master Boot Record (MBR) of the hard disk. That is, GRUB is responsible for the dual-booting task. The problem with that configuration is that GRUB files tend to be overwritten when you upgrade Windows. To get around that problem, the recommended

method is to install GRUB not on the MBR, but on the boot partition of Ubuntu.

That is the purpose of this tutorial. To show how to dual-boot Windows 7 and Ubuntu 10.10 where the Windows Boot Manager is responsible for dual-booting both Operating systems.

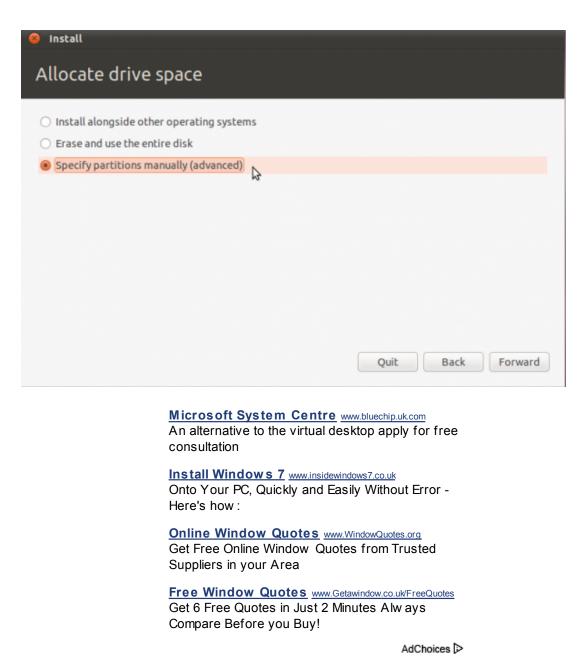
Note that this tutorial assumes installation on a computer with an existing installation of Windows 7. Here are the tasks involved:

- Download Ubuntu Ubuntu 10.10 Desktop edition is used for this tutorial
- Install Ubuntu the key point at this step is to remember to install GRUB in the boot partition
- After installation, boot into Windows and download and install EasyBCD. Use EasyBCD to add an entry for Ubuntu in the Windows boot menu

The result is shown below. Any time you reboot the computer, the Windows boot menu will give you the option to boot into either Windows 7 or Ubuntu 10.10. Note that with this configuration, you will still have access to the GRUB menu, if you decide to boot into Ubuntu.

Windows Boot Manager				
Choose an operating system to start, or press TAB to select a tool: (Use the arrow keys to highlight your choice, then press ENTER.)				
Windows 7				
Ubuntu 10.10				
Tools:				
Windows Memory Diagnostic				

Now, lets start. To reduce the number of images used, the tutorial begins at the disk partitioning step. You have three options. The first might seem like the best option, but if you select that, you will have no say on where GRUB is installed. The installer will actually install GRUB in the MBR, overwriting the Windows boot files. The second option is obviously out of the question. That leaves the last option, and that is the option you want to select. So, select it and click *Forward*.



The images used in this tutorial were obtained from a test installation in a virtual environment with about 100 GB of disk space. The default partitions created by Windows are shown below. The first, /dev/sda1, is the system partition. The second, /dev/sda2, is the data partition. To install Ubuntu, we are going to resize this data partition, and install Ubuntu in the reclaimed space. How much space can we reclaim? It depends on the amount of space used by Windows (the last column in the image gives you that figure). For this installation, you can see that I can reclaim a sizable chunk of the space left. To resize the partition, select it and click the *Change* button.

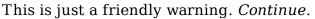
😣 Install					
Allocat	e dı	ive spac	e		
sda1 (ntf: 104.9 MB		sda2 (ntfs) 107.3 GB			
Device	Туре	Mount point	Format?	Size	Used
/dev/sda					
/dev/sda1	ntfs			104 MB	35 MB
/dev/sda2	ntfs			107267 MB	в 6917 МВ 👃
New Partit		Add	Change	Delete	Revert
	-	ader installati	on:		
/dev/sda A	TAVB	OX HARDDISK	(107.4 GB)	*
					Quit Back Install Now

For this tutorial, I am going to reduce the partition's size by about 56 GB. The remaining space should be more than enough for Windows 7. By how much you reduce your own partition will, of course, depend on the size of the disk you are working with.

8 Edit partition	
Edit a partition	
New partition size in megabytes (1000000 bytes):	107þ00 I
Use as:	do not use the partition 🔹
Format the partition:	
Mount point:	
	Cancel

This is the final cut. Note that the size is the only thing you change. Do not change any other thing or you will likely hose your Windows installation. *OK*.

8 Edit partition	
Edit a partition	
New partition size in megabytes (1000000 bytes):	51000
Use as:	do not use the partition 🔹
Format the partition:	
Mount point:	▼
	Cancel OK



Allocat	e dı	-iv	ve space	
sda1 (ntfs 104.9 MB	5) 🗖		la2 (ntfs) 17.3 GB	
Device	Туре	М	Write previous changes to disk and continue?	F
/dev/sda /dev/sda1	ntfs		Before you can select a new partition size, any previous changes have to be written to disk.	
/dev/sda2	ntfs		You cannot undo this operation.	
New Partiti	on Tab	ole	Please note that the resize operation may take a long time.	
Boot loader Device for boot loade		ad		
/dev/sda A	TA VB	ох	(HARDDISK (107.4 GB)	

With the free space reclaimed from the Windows partition, now you can start creating partitions for Ubuntu. Select the free space as shown and click *Add*. Note that you will have to repeat this step for all the partitions you will be creating.

For this tutorial, four partitions will be created. These will be used for /boot, /, swap, and /home file system directories. You can create as many partitions as you need, but for a typical desktop, these will be sufficient.

8 Install					
Allocate drive space					
sda1 (ntfs) 🔲 sda2 (ntfs) 🗌 Fr	ee space				
	5.3 GB				
Device Type Mount point For	rmat? Size	Used			
/dev/sda1 ntfs	0 104 MB	35 MB			
/dev/sda2 ntfs	51000 MB	6915 MB			
free space	56268 MB		U San		
New Partition Table Add	ange Delete	Revert			
Boot loader Device for boot loader installation:					
/dev/sda ATA VBOX HARDDISK (107	7.4.CB)				
Jacipad Antiboxinino Disk(io)					
		Quit	Back Install Now		
	1				
Bookmark on D	elicious				
• <u>Digg this post</u>					
Decommender	Feesheels				
Recommend on	<u>racebook</u>				
Share on Friend	lFeed				
Miyy it up					
• <u>Mixx it up</u>					
Share on netvib	<u>es</u>				
• share via Reddi	• share via Peddit				
Share on idention	<u>ca</u>				
Share with Stun	hlers				
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25 Comments

> V

1. ▲ *JohnPaul Adamovsky* says: June 24, 2011 at 4:21 pm

Hey Man,

Back in February, I left the second comment on this excellent guide, and it seems like its popularity has been gaining momentum since then.

I ran into a small problem recently:

Got some additional RAM, and my workstation began to crash in an arbitrary manner, when it used to be airtight and ironclad.

Used memtest86+ on the Grub2 boot-loader to determine which RAM sticks were causing the problem, and after I hard reset the machine a couple of times, the Ubuntu boot menu stopped working the way it used to.

Found the bad sticks, and took them out, my machine is Mr. Dependable again, but with 4 instead on 8 gigs RAM.

Now this happens when I choose Ubuntu 11.04 from the Windows boot-loader menu:

Try (hd0,0): NTFS5 No Ang0

.... a minute or two later Grub2 pops up and everything looks normal.

The partition layout appears to be the same, so:

What happened? Where is the problem located? How do I get it back to normal?

Thank you, and all the very best,

JohnPaul Adamovsky

<u>Reply</u>

2. *Gokul* says: June 23, 2011 at 4:01 pm

Very nice walkthrough over dual booting windows 7 and ubuntu. Much better than the ubuntu documentation itself.



3. Xuexue says: May 25, 2011 at 1:18 am

Hi,

Thanks for the guide.

Could you point out how to bring out the first

install Allocate Drive Space window?

Sorry for the basic questions.

Regards,

xuexue

<u>Reply</u>

• <u>*finid*</u> says: <u>May 25, 2011 at 2:07 am</u>

When you boot the computer using the installation disc, and keep clicking *Forward*, you will get to that window. I think it is 3 or 4 windows into the installation.

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<u>finid:</u> Considering that the boot partition will have to be formatted during installation, I don't...



finid: The same Swap? Yes. See ...

sd azli: can we use the same partition for boot loader, as it like the two of linux sharing the par...

<u>Sceptic:</u> I still don't see how all this crypto is going to protect you from someone with a \$5 hamme...

XXX

<u>Finalzone:</u> You are right, DxSepley. Wav is the generic format for Audio CD....

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