
Subject: GRUB Bootmanager

Posted by [elturco](#) on Wed, 16 Jul 2008 21:43:02 GMT

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Hii,

I want to make some changes to start Ubuntu with OpenVz kernel. I am a newbie and want to be sure that is right what i want to do.

I will change in the menu.lst the default entry from 0 to 5, because the openvz kernel is on place 5. Started to count the kernels from 0. And then I want to change the root entry to (hd0,5).

```
title Ubuntu 7.10, kernel 2.6.18-12-fza-686-bigmem
root (hd0,5)
kernel /boot/vmlinuz-2.6.18-12-fza-686-bigmem
root=UUID=19eab690-e5bf-4663-81b2-b74d7fcab58f ro quiet splash
initrd /boot/initrd.img-2.6.18-12-fza-686-bigmem
quiet
```

Is it right what I want to do ? Can anyone help me...

Subject: Re: GRUB Bootmanager

Posted by [maratrus](#) on Thu, 17 Jul 2008 07:51:29 GMT

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Hi,

Quote:

I want to make some changes

Quote:

Is it right what I want to do ?

.

Quote:

I will change in the menu.lst the default entry from 0 to 5, because the openvz kernel is on place 5.

It was not necessary to do. During the boot time you are able to chose appropriate kernel to boot via the boot menu interface. timeout - is an option that sets interval (in seconds) before bootloader tries to load the kernel which number corresponds the default option.

Quote:

And then I want to change the root entry to (hd0,5).

This action allows you to chose GRUB root file system, i.e. where GRUB can take vmlinuz and initrd files. (GRUB root file system is not the Linux root file system).

The common Linux root filesystem you want to use bootloadet obtains from this line

```
kernel /boot/vmlinuz-2.6.18-12-fza-686-bigmem  
[CODE]root=UUID=19eab690-e5bf-4663-81b2-b74d7fcab58f[/CODE] ro quiet splash
```

Pay your attention to this

```
root=UUID=19eab690-e5bf-4663-81b2-b74d7fcab58f
```

This string tells to bootloader that your common (Linux) root file system locates on the disk with appropriate UUID.

If you have any other questions don't hesitate to ask them.
Hope this helps you.

Subject: Re: GRUB Bootmanager
Posted by [elturco](#) on Thu, 17 Jul 2008 08:37:35 GMT
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Thank you very much..

Sorry I'm a newbie, the questions are maybe strange for you..

Did I understand you correctly, should I give this here
Quote:kernel /boot/vmlinuz-2.6.18-12-fza-686-bigmem

as command, or do you mean that I should edit my Menu.lst with this parameters:
Quote:kernel /boot/vmlinuz-2.6.18-12-fza-686-bigmem
root=UUID=19eab690-e5bf-4663-81b2-b74d7fcab58f ro quiet splash

Could you recommend to use the startupmanager ?

Thank you very very much again...

greetings,

Subject: Re: GRUB Bootmanager
Posted by [maratrus](#) on Thu, 17 Jul 2008 08:54:58 GMT
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Hi,

I mean the following:

1. Most probably, you shouldn't change "root (hd0,5)" string in menu.lst file. Put it the same as the rest kernel have.
2. That's all. You shouldn't do anything else. Just reboot your node.

Quote:

Could you recommend to use the startupmanager ?

It's up to you I've never used it.

Subject: Re: GRUB Bootmanager
Posted by [elturco](#) on Thu, 17 Jul 2008 09:37:31 GMT
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I tried what you have mentioned before, but the openvz kernel that I have installed will not be loaded.

Here are the kernel on my machine:

title Ubuntu 7.10, kernel 2.6.22-15-generic

root (hd0,0)

kernel /boot/vmlinuz-2.6.22-15-generic root=UUID=19eab690-e5bf-4663-81b2-b74d7fcab58f ro
quiet splash

initrd /boot/initrd.img-2.6.22-15-generic

quiet

title Ubuntu 7.10, kernel 2.6.22-15-generic (recovery mode)

root (hd0,0)

kernel /boot/vmlinuz-2.6.22-15-generic root=UUID=19eab690-e5bf-4663-81b2-b74d7fcab58f ro
single

initrd /boot/initrd.img-2.6.22-15-generic

title Ubuntu 7.10, kernel 2.6.22-14-generic

root (hd0,0)

kernel /boot/vmlinuz-2.6.22-14-generic root=UUID=19eab690-e5bf-4663-81b2-b74d7fcab58f ro
quiet splash

initrd /boot/initrd.img-2.6.22-14-generic

quiet

```
title Ubuntu 7.10, kernel 2.6.22-14-generic (recovery mode)
root (hd0,0)
kernel /boot/vmlinuz-2.6.22-14-generic root=UUID=19eab690-e5bf-4663-81b2-b74d7fcab58f ro
single
initrd /boot/initrd.img-2.6.22-14-generic
```

```
title Ubuntu 7.10, kernel 2.6.18-12-fza-686-bigmem
root (hd0,0)
kernel /boot/vmlinuz-2.6.18-12-fza-686-bigmem
root=UUID=19eab690-e5bf-4663-81b2-b74d7fcab58f ro quiet splash
initrd /boot/initrd.img-2.6.18-12-fza-686-bigmem
quiet
```

```
title Ubuntu 7.10, kernel 2.6.18-12-fza-686-bigmem (recovery mode)
root (hd0,0)
kernel /boot/vmlinuz-2.6.18-12-fza-686-bigmem
root=UUID=19eab690-e5bf-4663-81b2-b74d7fcab58f ro single
initrd /boot/initrd.img-2.6.18-12-fza-686-bigmem
```

```
title Ubuntu 7.10, kernel 2.6.18-12-fza-686
root (hd0,0)
kernel /boot/vmlinuz-2.6.18-12-fza-686 root=UUID=19eab690-e5bf-4663-81b2-b74d7fcab58f ro
quiet splash
initrd /boot/initrd.img-2.6.18-12-fza-686
quiet
```

```
title Ubuntu 7.10, kernel 2.6.18-12-fza-686 (recovery mode)
root (hd0,0)
kernel /boot/vmlinuz-2.6.18-12-fza-686 root=UUID=19eab690-e5bf-4663-81b2-b74d7fcab58f ro
single
initrd /boot/initrd.img-2.6.18-12-fza-686
```

```
title Ubuntu 7.10, kernel 2.6.18-12-fza-486
root (hd0,0)
kernel /boot/vmlinuz-2.6.18-12-fza-486 root=UUID=19eab690-e5bf-4663-81b2-b74d7fcab58f ro
quiet splash
initrd /boot/initrd.img-2.6.18-12-fza-486
quiet
```

```
title Ubuntu 7.10, kernel 2.6.18-12-fza-486 (recovery mode)
root (hd0,0)
kernel /boot/vmlinuz-2.6.18-12-fza-486 root=UUID=19eab690-e5bf-4663-81b2-b74d7fcab58f ro
single
initrd /boot/initrd.img-2.6.18-12-fza-486
```

```
title Ubuntu 7.10, memtest86+
root (hd0,0)
```

kernel /boot/memtest86+.bin
quiet

My problem is, I dont how to say my bootmanager to load the openvz kernel.. Do you know what I mean ?

Subject: Re: GRUB Bootmanager
Posted by [maratrus](#) on Thu, 17 Jul 2008 10:24:36 GMT
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Hi,

Quote:

I tried what you have mentioned before, but the openvz kernel that I have installed will not be loaded.

What does it mean?

You have rebooted the system, chosen OpenVZ kernel and what's happened after that?

Quote:

/boot/vmlinuz-2.6.18-12-fza-686-bigmem root=UUID=19eab690-e5bf-4663-81b2-b74d7fcab58f ro
single

why do you want to boot in single-mode?

P.S. try

/boot/vmlinuz-2.6.18-12-fza-686-bigmem root=UUID=19eab690-e5bf-4663-81b2-b74d7fcab58f ro
quiet splash

Subject: Re: GRUB Bootmanager
Posted by [elturco](#) on Thu, 17 Jul 2008 11:00:07 GMT
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Marartus the point ist, I dont know how to choose the OpenVz Kernel. Should I do it with command line or by editing the menu.lst file.

This is my question.

Is it right, that Ubuntu normally will always load the Kernel with the higher Version number ?

Subject: Re: GRUB Bootmanager
Posted by [maratrus](#) on Thu, 17 Jul 2008 11:15:13 GMT
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Hi,

1. what kind of access to your computer do you have?

Is it a common computer with common display, or you only have a ssh connection, or there is some kind of processor manager that allows you to control the remote machine?

2. If it is a common computer please put additional "timeout=15" string to menu.lst file (for example after default field):

```
default=5  
timeout=15
```

then reboot your system.

You must have a chance to chose the kernel you want to boot into.

If you are not able to boot into OpenVZ kernel, please describe what do you see on your display.

Subject: Re: GRUB Bootmanager
Posted by [elturco](#) on Thu, 17 Jul 2008 12:05:07 GMT
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its a common computer with common display

now, I can not reboot anymore, Im getting the error message unknown interrupt or fault..

What should I do now ?

Subject: Re: GRUB Bootmanager
Posted by [elturco](#) on Thu, 17 Jul 2008 12:14:25 GMT
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Maratrus, thank you very much...

Now I can reboot my desired kernel.. If I let the time count down I getting the error message, that I mentioned before..

But after pressing the ESC button I can choose the kernel. Can you say me which of the kernels

should I take to make simulations in OpenVz.

I Can choose between this kernels here:

- 2.6.18-12-fza-686-bigmern
- 2.6.18-12-fza-686
- 2.6.18-12-fza-486

Thank you very much again...

Subject: Re: GRUB Bootmanager
Posted by [maratrus](#) on Thu, 17 Jul 2008 12:26:04 GMT
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Hi,

in our situation it doesn't matter which kernel do we chose.
Try -2.6.18-12-fza-686.

Please show here the exact error message you'll see on the display!
(if you want you can make a picture).

What architecture does your computer have?

Subject: Re: GRUB Bootmanager
Posted by [elturco](#) on Thu, 17 Jul 2008 12:39:18 GMT
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I am running Ubuntu on a virtuell Machine,
my Architecture is i86.
I have send a picture about the error message.

File Attachments

1) [Error-Message.JPG](#), downloaded 246 times

Subject: Re: GRUB Bootmanager
Posted by [maratrus](#) on Thu, 17 Jul 2008 13:05:56 GMT
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What kernel did you chose?
Try -2.6.18-12-fza-686.
If it doesn't boot
try to change menu.lst

try this one and boot into -2.6.18-12-fza-686 kernel

```
/boot/vmlinuz-2.6.18-12-fza-686 root=UUID=19eab690-e5bf-4663-81b2-b74d7fcab58f ro quiet splash
```

then if it doesn't work try this one,

```
/boot/vmlinuz-2.6.18-12-fza-686 root=UUID=19eab690-e5bf-4663-81b2-b74d7fcab58f ro quiet splash noapic
```

Subject: Re: GRUB Bootmanager
Posted by [elturco](#) on Thu, 17 Jul 2008 13:15:17 GMT
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I can load the desired Kernel marartus. But as I mentioned before, if I let the timeout count down to 0, Im getting the error message..

But If I press the ESC button during the timeout, I can choose from a list which kernel I want to load..

Thank you, you helped me very much.. but is it common to get an error message when the timeout is over ?

Subject: Re: GRUB Bootmanager
Posted by [maratrus](#) on Thu, 17 Jul 2008 13:35:38 GMT
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Hi,

please change default value in menu.lst to 7. And everything should be ok.

Please, show the output "cat /proc/cpuinfo" after you will boot into OpenVZ kernel.

Subject: Re: GRUB Bootmanager
Posted by [elturco](#) on Thu, 17 Jul 2008 13:59:00 GMT
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Marartus, do you have experience by building a real test setup for olsr or batman routing protocols ??
