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## can't get Oracle VirtualBox to work on my SUSE Linux so far

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I have been working with Tsur Triger on the FaceBook discussion forum for this class to attempt to find out what is wrong with my Oracle Virtual Box installation on SUSE Linux. I have been trying to start a Ubuntu VM that I obtained from a different class (GPS maps spatial computing Ubuntu VM) and I have not yet tried the Ubuntu VM from this class, because that one gives an error (but perhaps I should try a different Ubuntu VM) but I don't think that is the issue, not sure. It seems that my SUSE Linux 12.3 has issues with the latest Oracle Virtual Box and the Ubuntu VM, so if I cannot get these issues worked out soon, I will have to withdraw from the course.

I did receive a decent pre-requisite grade on the quiz (16.5/20), and on the Week 1 material, I received a 34/37, but without being able to do the projects, I may have to withdraw and will let you know.

I hope to workout the problem, but so far have not, and I know the project is due next Monday, in about 6 days.

↑ 0 ↓ · flag

[Alex Kot](#)


Signature Track

· 7 days ago

I had issues downloading the VM. I am running a windows computer and when I downloaded the file off google chrome the size was 2.0 GB. When I downloaded via IE it was 2.2 GB. With SUSE try downloading the VM via another web browser or try wget. Hope this helps.

↑ 0 ↓ · flag

[+ Comment](#)

Baby Lingampalli Signature Track · 7 days ago 

try compressed format (mooc-vm2.ova) . It worked for me

↑ 0 ↓ · flag

[+ Comment](#)

Marc F · 7 days ago 

Hi Karen,

Would you please provide the error you get when you try to start your vm?

↑ 1 ↓ · flag



Karen West · 6 days ago 



Good morning. I uninstalled Oracle Virtual Box from the new SUSE Linux 13.1 version, and I just re-installed it. I just tried to start Oracle Virtual Box - and given I have already downloaded the GPS-maps class (spatial computing) Ubuntu VM for that class - I tried to start virtualbox using that Ubuntu VM - and I'm very disappointed to report that after all that effort to save my entire disk yesterday, followed by taking quite awhile to upgrade my SUSE Linux from 12.3 to 13.1 version - with that VM - it gets the exact same error as before I upgraded my SUSE Linux. It's as if what ever was broken appeared to uninstall--but it must not have, since the error is still there.

I just imported the mooc-vm for this class into my re-installed Oracle Virtual Box as instructed in assignment 1 - and it fails with the same error as I received in the other class's Ubuntu VM - and I did as instructed and updated my SUSE Linux from 12.3 to 13.1. Here is the error message I just received:

RTR3InitEx failed with rc=-1912 (rc=-1912)

The VirtualBox kernel modules do not match this version of VirtualBox. The installation of VirtualBox was apparently not successful. Executing

'/etc/init.d/vboxdrv setup'

may correct this. Make sure that you do not mix the OSE version and the PUEL version of VirtualBox.

Please let me know if you either know how to fix this problem with the VM - OR - if you have another way of doing the assignments - for example - I also own a netbook laptop that has a copy of Ubuntu Linux on it - can you do the assignments directly on that instead of using the VM? Otherwise - I guess you would recommend withdrawal from the class? I did think I could

do the assignments, with grades of 16.5/20 on the pre-req quiz, and 34/37 on the week 1 quiz, but if there is no way to proceed with doing the projects, I am assuming I must withdraw from the course.

I just made this same post to the FB discussion forum that Tsur Triger is running there for this class as well.

Please let me know ASAP what is recommended. Thank you!

↑ 0 ↓ · flag

🗑️ A post was deleted

[+ Comment](#)

Marc F · 6 days ago 🔒

Hi,

It seems that you upgraded to a new version of virtualbox but virtualbox kernel modules are still the ones from a previous version.

Would you please try to recompile the virtualbox kernel modules for the version virtualbox you have. The command is provided in the error message.

Open a terminal and run the command below as root.

```
'/etc/init.d/vboxdrv setup'
```

If you have an error by executing this command, please paste the error.

thanks

↑ 0 ↓ · flag



Karen West · 6 days ago 🔒



I'll try that again and post the error here - I'll respond to this message posting now. Sorry for re-posting but I wanted to raise attention to the issue since it is looking like I may have to withdraw even though I know what's going on in this course due to my troubles getting the

tools installed, which is why I re-posted with new subject to raise that attention. But I'll respond here now with the error message and feel free to delete my error in re-posting elsewhere.

Here is the error when executing the:

```
/etc/init.d/vboxdrv setup
```

```
karen@scary:~> /etc/init.d/vboxdrv setup
Stopping VirtualBox kernel modules                                     failed
(Cannot unload module vboxpci)
```

↑ 0 ↓ · flag

Marc F · 6 days ago 🔒

Karen,

As said previously. please execute this command as root user.

↑ 0 ↓ · flag



Karen West · 6 days ago 🔒



My mistake - I just ran as root and received the following output. I did re-start Oracle VirtualBox and the mooc-vm for this class, and it still had the same problem. Here is the output:

```
scary:/home/karen # /etc/init.d/vboxdrv setup
Stopping VirtualBox kernel modules                                     done
Uninstalling old VirtualBox DKMS kernel modules
done
Removing old VirtualBox pci kernel module                             done
Removing old VirtualBox netadp kernel module
done
Removing old VirtualBox netflt kernel module                         done
Removing old VirtualBox kernel module                               done
Trying to register the VirtualBox kernel modules using DKMSmktemp: failed to create file via
template '/var/tmp/dkms/dkms.XXXXXX': No such file or directory
Error! Unable to make temporary file.
/usr/sbin/dkms: line 78: : No such file or directory
mktemp: failed to create file via template '/var/tmp/dkms/dkms.XXXXXX': No such file or
directory
Error! Unable to make temporary file.
```

```
/usr/sbin/dkms: line 78: : No such file or directory
Error! Build of vboxdrv.ko failed for: 3.11.10-21-desktop (x86_64)
Consult the make.log in the build directory
/var/lib/dkms/vboxhost/4.3.18/build/ for more information.
```

failed

```
(Failed, trying without DKMS)
Recompiling VirtualBox kernel modules/usr/sbin/dkms: line 73: : No such file or directory
/usr/sbin/dkms: line 73: : No such file or directory
```

done

Starting VirtualBox kernel modules

done

↑ 0 ↓ · flag

[Marc F](#) · 6 days ago 🔗

Ok,

the virtualbox modules build fails because dkms command is not found

```
/usr/sbin/dkms: line 78: : No such file or directory
```

this command is provided by dkms package.

please try to install it as root and provide the output.

```
zypper install dkms
```

↑ 0 ↓ · flag

[Karen West](#) · 6 days ago 🔗

Here is the output when I tried to install the dkms package - apologies in advance as doing these types of things are new to me:

```
cary:/home/karen # zypper install dkms
```

```
Loading repository data...
```

```
Reading installed packages...
```

```
'dkms' is already installed.
```

```
No update candidate for 'dkms-2.2.0.3-14.3.noarch'. The highest available version is already installed.
```

```
Resolving package dependencies...
```

Nothing to do.

↑ 0 ↓ · flag

Marc F · 6 days ago 🔗

mmmh strange.

Would you please provide the output of the following commands

```
id -a
```

```
rpm -ql dkms-2.2.0.3-14.3.noarch
```

```
ls -l /usr/sbin/dkms
```

↑ 0 ↓ · flag



Karen West · 6 days ago 🔗



Hi Marc - here is the output you requested above:

```
scary:/home/karen # id -a
uid=0(root) gid=0(root) groups=0(root)
```

```
scary:/home/karen # rpm -ql dkms-2.2.0.3-14.3.noarch
/etc/bash_completion.d/dkms
/etc/default/dkms
/etc/dkms
/etc/dkms/framework.conf
/etc/dkms/template-dkms-mkrpm.spec
/etc/dkms/template-dkms-redhat-kmod.spec
/etc/kernel
/etc/kernel/postinst.d
/etc/kernel/postinst.d/dkms
/etc/kernel/prerm.d
```

```
/etc/kernel/prerm.d/dkms
/usr/lib/dkms
/usr/lib/dkms/common.postinst
/usr/lib/dkms/dkms_automounter
/usr/lib/dkms/find-provides
/usr/lib/dkms/lsb_release
/usr/lib/dkms/mkkerneloth
/usr/lib/systemd/system/dkms.service
/usr/lib/systemd/system/dkms.systemd
/usr/sbin/dkms
/usr/sbin/rcdkms
/usr/share/doc/packages/dkms
/usr/share/doc/packages/dkms/AUTHORS
/usr/share/doc/packages/dkms/COPYING
/usr/share/doc/packages/dkms/README.dkms
/usr/share/doc/packages/dkms/sample-suse-10-mkkmp.spec
/usr/share/doc/packages/dkms/sample-suse-9-mkkmp.spec
/usr/share/doc/packages/dkms/sample.conf
/usr/share/doc/packages/dkms/sample.spec
/usr/share/man/man8/dkms.8.gz
/var/lib/dkms
/var/lib/dkms/dkms_dbversion
```

```
scary:/home/karen # ls -l /usr/sbin/dkms
-rwxr-xr-x 1 root root 128058 Oct 21 04:34 /usr/sbin/dkms
```

```
scary:/home/karen #
```

↑ 0 ↓ · flag



Karen West · 6 days ago 🔗



Do you have any recommendations as of yet as to what is wrong with my dkms installation, that is preventing me from doing these projects?

↑ 0 ↓ · flag

Marc F · 6 days ago 🔗

Another check.

Would you please check if /var/tmp/dkms/ directory exists?

```
ls -ld /var/tmp/dkms
```

if not, please create it manually as root and then retry to execute the command that builds the vb kernel modules.

```
mkdir /var/tmp/dkms
chmod 755 /var/tmp/dkms ; chown root:root /var/tmp/dkms
/etc/init.d/vboxdrv setup
```

The provide again the output

Thanks

↑ 0 ↓ · flag



Karen West · 6 days ago 🔗



Here is the output from the above commands - I did have to create the /var/tmp/dkms dir - let me know if I can now try to start VirtualBox again with the mooc-vm - thank you for your help.

```
scary:/home/karen # ls -ld /var/tmp/dkms
ls: cannot access /var/tmp/dkms: No such file or directory
```

```
scary:/home/karen # mkdir /var/tmp/dkms
scary:/home/karen # chmod 755 /var/tmp/dkms ; chown root:root /var/tmp/dkms
```

```
scary:/home/karen # /etc/init.d/vboxdrv setup
Stopping VirtualBox kernel modules
Uninstalling old VirtualBox DKMS kernel modules
done
Removing old VirtualBox pci kernel module
done
Removing old VirtualBox netadp kernel module
done
Removing old VirtualBox netflt kernel module
done
Removing old VirtualBox kernel module
done
Trying to register the VirtualBox kernel modules using DKMS
done
Starting VirtualBox kernel modules
done
```



↑ 0 ↓ · flag



Karen West · 6 days ago



I just received the same error when I started VirtualBox, after running the command above. Please let me know if you have any more recommendations. Someone said perhaps the mooc-vm would work if I try downloading VMware's player instead? They said it may have a "trial period" but that perhaps it may work with this vm better, but I really am out of my realm of knowledge here, and don't know what to try next. Time is also starting to run out, but we'll see how it goes - have not given up and withdrawn as of yet.

↑ 0 ↓ · flag

Marc F · 6 days ago

Are you sure this is the same error because the modules could be build and loaded this time.

Would you please provide the info about the modules that has been loaded?

```
modinfo vboxdrv
```

The version of this module should match with the version of virtualbox(menu help -> about virtualbox) you have installed.

↑ 0 ↓ · flag



Karen West · 6 days ago



```
scary:/home/karen # modinfo vboxdrv
filename:      /lib/modules/3.11.10-21-desktop/updates/vboxdrv.ko
version:      4.3.18 (0x001a0008)
license:      GPL
description:   Oracle VM VirtualBox Support Driver
author:       Oracle Corporation
srcversion:    3C1AFD9E2EA41A373992707
depends:
vermagic:     3.11.10-21-desktop SMP preempt mod_unload modversions
parm:         force_async_tsc:force the asynchronous TSC mode (int)
```

From the Oracle Virtual Box Help->About menu, the version came up as:  
4.3.18 r96516 Copyright 2014 Oracle Corp.

The kernel module vboxdrv appears to match the version of Oracle's VirtualBox when I start it up?

↑ 0 ↓ · flag

+ Comment



Karen West · 6 days ago



Thank you all who tried to help me solve my issues with Oracle Virtual Box on my newly upgraded SUSE Linux. Given it still is not working, and one of the students in the class even took control of my computer using a tool I had not heard of called teamviewer, and I tried many different people's advice on how to get this to work for me, and having tried every option recommended, and it continues not to work. I guess these things happen for a reason. I'll decide for sure tomorrow, but I guess there is no choice but to withdraw from the course at this point. But I wanted to thank those that tried to help.

↑ 0 ↓ · flag

Marc F · 5 days ago

Hi Karen,

The version of the modules and virtualbox is the same so you shouldn't the same error.

Would you please post again the error message when you try to start the vm. Take a screenshot please.

↑ 0 ↓ · flag

+ Comment



Sai Uday Shankar Korlimarla

Signature Track

· 6 days ago

Dear Karen West

You need not withdraw at all. I think this reason is a far too silly reason. You've been doing great so far. 16.5 and 34/37 is simply very good. I got a 29/37 in first attempt and 37/37 in second attempt and am learning things that will help me solve the project on time.

We are in the same boat.

In the worst case scenario, Download Windows 8.1/Windows 8 Evaluation copy (90 days trial via TechNet.microsoft.com) OR Download Windows 10 (Free till February-april 2015), Create a partition on disk using diskpart utilities

and Install Windows Carefully only on that partition. Do backup all your files on SUSE. It is working for me on windows.

I strongly recommend you to do this if nothing works and urge you not to leave this course unless you are no longer interested OR time is a constraint. This course has been fantastic so far and I am sure

there is a lot of learning here as key takeaways.

Please do Keep us posted here. Someone will always be of help OR be able to provide solutions via the forums.

↑ 0 ↓ · flag



Karen West · 4 days ago



Thank you for your comment. I have no machine I can put Windows on - my husband has a dual boot machine upstairs with SUSE Linux and Windows 8.1 but that one is not mine to use. ;-)

My son has an old lap top with Win7 on it but I tried borrowing that once last spring - he's filled it with Minecraft stuff - it's impossible to use and not enough disk space. So what I'm going to attempt today as my last attempt is to download VMware's stuff and see if that works with the mooc-vm from Ubuntu. My daughter has a Ubuntu linux netbook but that won't grade correctly they tell me with the autograders for a mooc set up for so many people with so many different machines all over the world - has to be that way. So my last attempt is to download VMware's VM stuff and see if that works - however - I have to download a trial version (no money!) and I also do not know what I'm doing - so if anyone can advise here on which one I download, please let me know! Here is what I found (for desk top and end-user computing list - not the other lists of versions of their tools): If anyone knows which trial version I should download, please let me know! Time is not up yet - it's Friday and my kids are celebrating Halloween tonight - but who knows - I may pull it off - since I do know C, some OS and architecture stuff fairly well - it's the VM tools that I'm lost on! ;-)

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- See more at: <https://my.vmware.com/web/vmware/downloads#sthash.jVOF58I.dpuf>

↑ 0 ↓ · flag



Karen West · 4 days ago 🔗



I downloaded and installed: file:///home/karen/Downloads/VMware-Player-6.0.4-2249910.x86\_64.bundle

and imported the mooc-vm Ubuntu linux for this class, but it was rejected and said it was "non-compliant" although

it sometimes does import .ova files. Does anyone know why or the solution? It's beginning to look like I cannot in any path forward do the projects for this class!

↑ 0 ↓ · flag

Gwyn Evans · 4 days ago 🔗

Did you try running VB on Ubuntu? Either your daughters or possibly (no idea how practical) running it from a LiveUSB on your laptop then running VB on that - maybe with a USB stick as storage?

↑ 0 ↓ · flag



Karen West · 3 days ago 🔗



I could try that - my worry is disk space - it almost seems silly to be running VB on my daughter's netbook that is running Ubuntu Linux itself, just to then run as a VM another Ubuntu Linux - but I understand - it's a MOOC, many people all over the world taking it, auto-graders that have to do checks based on what's built into the VM, etc - so if there is enough disk space Gwyn on my daughter's netbook - that may work! ;-) I also just heard this morning there is a deadline extension - so perhaps that will now allow me to catch up after all the tool installation troubles I've had - if I can get the tools to work either on the Ubuntu netbook, or else where. Thanks!

↑ 0 ↓ · flag

Gwyn Evans · 2 days ago

If you've got a 8GB USB stick, you should have all you need, as you'll need to create a 2nd partition after the boot one (which you can't do while running off the USB stick itself) I'm writing this on an Ubuntu running from a USB stick - I've downloaded VB and run that, although the VM itself is still downloading, but there should be no issues...

↑ 0 ↓ · flag

+ Comment

Andrew McLean · 4 days ago

I didn't want to install VirtualBox just for this class, so I opted to use KVM/QEMU. I was able to get the correct answers for the first project running the provided image in this manner.

```
tar -xvf mooc-vm2.ova
qemu-img convert -f vmdk -O raw mooc-vm-disk1.vmdk mooc-vm-disk1.img
qemu-system-x86_64 -enable-kvm -m 8G mooc-vm-disk1.img
```

Might be worth a shot if nothing else has worked yet.

↑ 0 ↓ · flag



Karen West · 3 days ago



Thanks Andrew - I will try that too. ;-)

↑ 0 ↓ · flag



Karen West · 3 days ago



Hi Andrew - I installed KVM QEMU today and started to convert the mooc-vm to give it a try - and I ran into trouble again - here is the output - do you know what the problem is here (I know you said it worked for you):

```
scary:/home/karen/dev/softwareSecurity # tar -xvf mooc-vm.ova
mooc-vm.ovf
mooc-vm-disk2.vmdk
```

```
scary:/home/karen/dev/softwareSecurity # qemu-img convert -f vmdk -O raw mooc-vm-
disk2.vmdk mooc-vm-disk2.img
qemu-img: 'image' uses a vmdk feature which is not supported by this qemu version: VMDK
version 3
qemu-img: Could not open 'mooc-vm-disk2.vmdk': Wrong medium type
qemu-img: Could not open 'mooc-vm-disk2.vmdk'
```

↑ 0 ↓ · flag



Karen West · 3 days ago 🔗



Also - Andrew - do you know if KVM QEMU will work with .vdi files? In another class in which I was supposed to use VirtualBox, they provided a Ubuntu Linux VM with a .vdi extension instead of .ova, and VirtualBox did not like that VM either. So I was wondering what I could try with the commands you provided to convert the .vdi image to work with KVM QEMU. Thanks.

↑ 0 ↓ · flag

Herwin Weststrate · 2 days ago 🔗

Some versions of qemu are able to run vmdk files directly, so you might be able to skip the conversion step. It would probably depend on the version and compile options of qemu.

↑ 0 ↓ · flag

Kulemin Mikhail · 2 days ago 🔗

It is possible to convert vmdk to raw with simple hack.

1) unpack ova file with tar

tar -xvf <ova file>

2) You already mentioned that qemu-kvm and qemu-img return error "'image' uses a vmdk feature which is not supported by this qemu version: VMDK version 3". Sometimes it is possible to change 2 bytes in file and overpass checking the version of vmdk. This method described in article <http://blog.carlos-spitzer.com/2013/12/26/how-to-convert-vmdk-3-images-to-qcow2-even-when-qemu-img-f...>

Use script from article to modify vmdk image

3) Convert vmdk to raw with qemu-img

qemu-img convert -f vmdk -O raw mooc-vm-disk2.vmdk mooc-vm-disk2.img

↑ 0 ↓ · flag

Attila Csikai · 2 days ago 🔗

Thanks

This was really useful.

However based on the link I converted to qcow2 format instead of raw.

↑ 0 ↓ · flag



Karen West · a day ago 🔗



To Kulemin Mikhail and Attila Csikai:

Thank you - That helped - but it chokes on the next command Andrew McLean recommended above for KVM QEMU-

Here is what happened:

```
scary:/home/karen/dev/softwareSecurity # ./vmdk3-hack.sh mooc-vm-disk2.vmdk
```

mooc-vm-disk2.vmdk is VMDK3.n Patching to VMDK2.n Run this script again when you're done to patch it back.

```
scary:/home/karen/dev/softwareSecurity # qemu-img convert -f vmdk -O raw mooc-vm-disk2.vmdk mooc-vm-disk2.img
```

```
scary:/home/karen/dev/softwareSecurity # ls
courseInfo mooc-vm      mooc-vm-disk2.vmdk mooc-vm.ovf
week0
.directory mooc-vm-disk2.img mooc-vm.ova      vmdk3-hack.sh week1
```

So you can see that running your script you recommended helped and I got beyond the `qemu-img convert`. However - it fails on the next thing Andrew recommended above - do you know how to fix this (allocation issue)? Thank you for your help.

```
scary:/home/karen/dev/softwareSecurity # qemu-system-x86_64 -enable-kvm -m 8G
mooc-vm-disk2.img
```

Warning: default mac address being used, creating potential for address conflict  
Failed to allocate 8589934592 B: Cannot allocate memory  
Aborted

↑ 0 ↓ · flag

[Andreas Perstinger](#) · a day ago 🔗

[Disclaimer: I don't know anything about QEMU and just looked through the docs for about 2 minutes]

According to the QEMU docs, the `-m`` option specifies the virtual RAM for the VM. From the error message it looks like you don't have 8G of free memory available (and you don't need that much for the provided VM). Try using just 1G.

↑ 0 ↓ · flag



[Karen West](#) · a day ago 🔗



To: all those that helped here- THANK YOU!

It finally works - KVM QEMU is running the mooc-vm for this class. Now I can finally attempt the project depending on when it is due - it only took me week to get the VM stuff working! But in any case - thank you all for your help in making it work. ;-)

↑ 0 ↓ · flag

+ Comment

Dardan Prebreza Signature Track · 3 days ago 🔗

I'm a openSUSE user and I had the same problem when I had to install VirtualBox on openSUSE 13.1. If I remember it well, I finished to follow this tutorial to make it work:

<http://www.unixmen.com/install-virtualbox-4-3-opensuse-13-1/>

Give it a try, or maybe the best solution is to go to openSUSE forums and ask for help (if the above link doesn't work for you).

↑ 0 ↓ · flag



Karen West · 3 days ago 🔗



Worth a try - thanks for trying to help. ;-)

↑ 0 ↓ · flag



Karen West · 2 days ago 🔗



Thank you all for your help.

I followed the instructions in the link you shared Dardan - it just does not work for me.

My husband has designed his own virtualized operating system for this machine and he says it works perfectly fine on this machine - but it's just a research project - but it does so far run Linux on it - it's called Quest-V and so far it can run Linux as a VM - so he told me try his since he knows that works here - but it's just his research group's project for his Ph.D. students (which I am not and never will be!) - if something went wrong I would not know what's going on. It's not a released product - but he said if I really want to do these online courses that require VMs that just won't work on my SUSE Linux box that perhaps I should consider running Quest-V instead. ;-)

I think I've tried everything suggested - so even with the deadline extension, my guess is withdrawal is the only option at this point, unless I want to run Quest-V on this machine! It's only ever been used by his research group so I admit it's a bit intimidating for me to consider it.



So here is my system set up that keeps rejecting all the latest VM distributions out there. I've tried Oracle Virtual Box, VMware Player (and my husband worked there one year too while on sabbatical, designed their caching system, so I know he has used that tool that year too), and yesterday I also tried KVM QEMU. If there are any suggestions left out there please let me know. I don't think I can use Quest-V.

```
karen@scary:~> lscpu
Architecture:      x86_64
CPU op-mode(s):    32-bit, 64-bit
Byte Order:        Little Endian
CPU(s):            4
On-line CPU(s) list: 0-3
Thread(s) per core: 2
Core(s) per socket: 2
Socket(s):         1
NUMA node(s):      1
Vendor ID:         GenuineIntel
CPU family:        6
Model:            42
Model name:        Intel(R) Core(TM) i3-2100 CPU @ 3.10GHz
Stepping:         7
CPU MHz:           3069.000
BogoMIPS:          6185.69
Virtualization:    VT-x
L1d cache:         32K
L1i cache:         32K
L2 cache:          256K
L3 cache:          3072K
NUMA node0 CPU(s): 0-3
```

↑ 0 ↓ · flag



Karen West · 2 days ago 🔗



Also - forgot the rest of the system info - that was just for the cpu - here is the SUSE Linux OS info:

```
karen@scary:~> uname -r
3.11.10-21-desktop
karen@scary:~> cat /etc/issue
Welcome to openSUSE 13.1 "Bottle" - Kernel \r (\l).
```

↑ 0 ↓ · flag

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