

OS-Lab

Lab#4

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Screenshot:

```
root@ns3-virtual-machine:/home/ns3/Desktop# ls
linux-6.10.9.tar.xz
root@ns3-virtual-machine:/home/ns3/Desktop#
```

```
[sudo] password for ns3:
root@ns3-virtual-machine:/home/ns3# reboot #For Package Lock
```

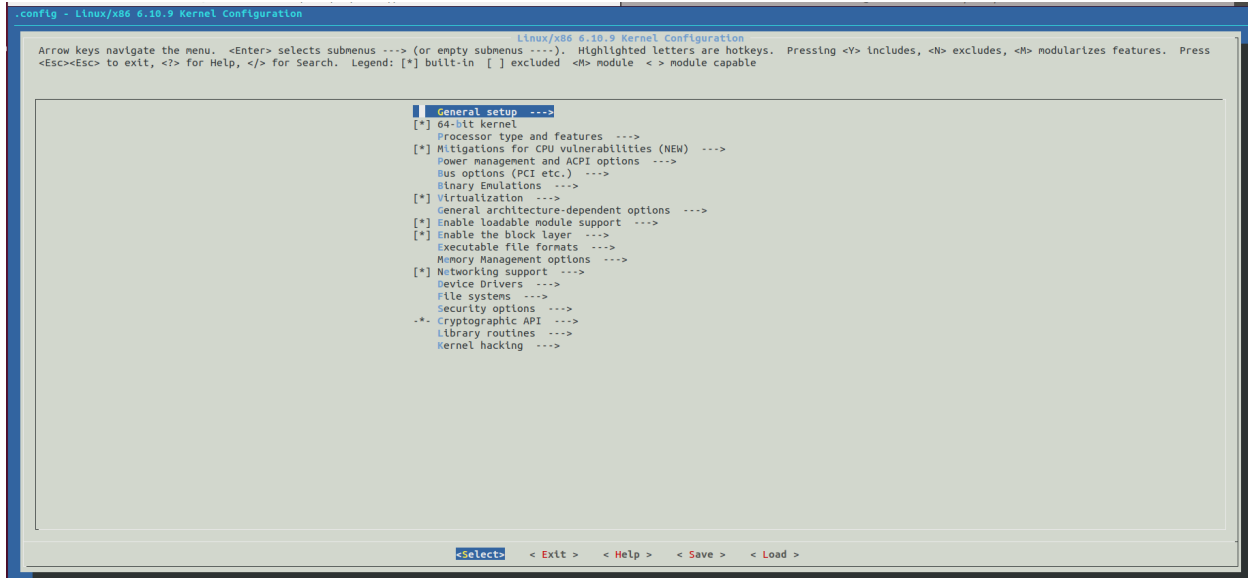
```
root@ns3-virtual-machine:/home/ns3# sudo apt-get install git fakeroot build-essential ncurses-dev xz-utils libssl-dev bc flex libelf-dev bison
Reading package lists... Done
Building dependency tree
Reading state information... Done
Note, selecting 'libncurses5-dev' instead of 'ncurses-dev'
bc is already the newest version (1.07.1-2).
bison is already the newest version (2:3.0.4.dfsg-1build1).
build-essential is already the newest version (12.4ubuntu1).
fakeroot is already the newest version (1.22-2ubuntu1).
flex is already the newest version (2.6.4-6).
Suggested packages:
  git-daemon-run | git-daemon-sysvinit git-doc git-el git-email git-gui gitk gitweb git-cvs git-mediawiki git-svn ncurses-doc libssl-doc
The following NEW packages will be installed:
  libelf-dev
The following packages will be upgraded:
  git libncurses5 libncurses5-dev libncursesw5 libssl-dev libssl1.1 libtinfo-dev libtinfo5 xz-utils
9 upgraded, 1 newly installed, 0 to remove and 671 not upgraded.
```

```
root@ns3-virtual-machine:/home/ns3/Desktop# ls #Extracted
linux-6.10.9 linux-6.10.9.tar.xz
root@ns3-virtual-machine:/home/ns3/Desktop#
```

```
root@ns3-virtual-machine:/home/ns3/Desktop# cd linux-6.10.9
root@ns3-virtual-machine:/home/ns3/Desktop/linux-6.10.9# ls
arch  certs  CREDITS  Documentation  fs      init      ipc      Kconfig  lib      MAINTAINERS  mm      README  samples  security  tools  virt
block  COPYING  crypto  drivers      include  io_uring  Kbuild  kernel  LICENSES  Makefile  net      rust    scripts  sound    usr
root@ns3-virtual-machine:/home/ns3/Desktop/linux-6.10.9#
```

root@ns3-virtual-machine:/home/ns3/Desktop/linux-6.10.9

```
root@ns3-virtual-machine:/home/ns3/Desktop/linux-6.10.9# cp -v /boot/config-$(uname -r) .config
'/boot/config-4.15.0-88-generic' -> '.config'
root@ns3-virtual-machine:/home/ns3/Desktop/linux-6.10.9#
```



Enter a filename to which this configuration should be saved as an alternate. Leave blank to abort.

.config

< Ok >

< Help >

configuration written to .config

(100%)

< Exit >

```
root@ns3-virtual-machine: /home/ns3/Desktop/linux-6.10.9 x root@ns3-virtual-machine:
AR arch/x86/kernel/kprobes/built-in.a
LDS arch/x86/kernel/vmlinux.lds
AS arch/x86/kernel/head_64.o
CC arch/x86/kernel/head64.o
CC arch/x86/kernel/ebda.o
CC arch/x86/kernel/platform-quirks.o
CC arch/x86/kernel/process_64.o
CC arch/x86/kernel/signal.o
CC arch/x86/kernel/signal_64.o
CC arch/x86/kernel/traps.o
CC arch/x86/kernel/idt.o
CC arch/x86/kernel/irq.o
CC arch/x86/kernel/irq_64.o
CC arch/x86/kernel/dumpstack_64.o
CC arch/x86/kernel/time.o
CC arch/x86/kernel/loport.o
CC arch/x86/kernel/dumpstack.o
CC arch/x86/kernel/nmi.o
CC arch/x86/kernel/ldt.o
CC arch/x86/kernel/setup.o
CC arch/x86/kernel/x86_init.o
CC arch/x86/kernel/i8259.o
CC arch/x86/kernel/irqinit.o
CC arch/x86/kernel/jump_label.o
CC arch/x86/kernel/irq_work.o
CC arch/x86/kernel/probe_roms.o
CC arch/x86/kernel/sys_i32.o
CC arch/x86/kernel/signal_32.o
CC arch/x86/kernel/sys_x86_64.o
CC arch/x86/kernel/espfix_64.o
CC arch/x86/kernel/ksysfs.o
CC arch/x86/kernel/bootflag.o
CC arch/x86/kernel/e820.o
CC arch/x86/kernel/pci-dma.o
CC arch/x86/kernel/quirks.o
CC arch/x86/kernel/kdebugfs.o
CC arch/x86/kernel/alternative.o
CC arch/x86/kernel/i8253.o
CC arch/x86/kernel/hw_breakpoint.o
CC arch/x86/kernel/tsc.o
CC arch/x86/kernel/tsc_nsr.o
CC arch/x86/kernel/to_delay.o
CC arch/x86/kernel/rtc.o
CC arch/x86/kernel/resource.o
AS arch/x86/kernel/irqflags.o
CC arch/x86/kernel/static_call.o
CC arch/x86/kernel/process.o
CC arch/x86/kernel/ptrace.o
CC arch/x86/kernel/tls.o
CC arch/x86/kernel/step.o
CC arch/x86/kernel/tboot.o
CC arch/x86/kernel/i8237.o
CC arch/x86/kernel/stacktrace.o
CC arch/x86/kernel/reboot.o
S CC arch/x86/kernel/early-quirks.o
CC arch/x86/kernel/smp.o
```