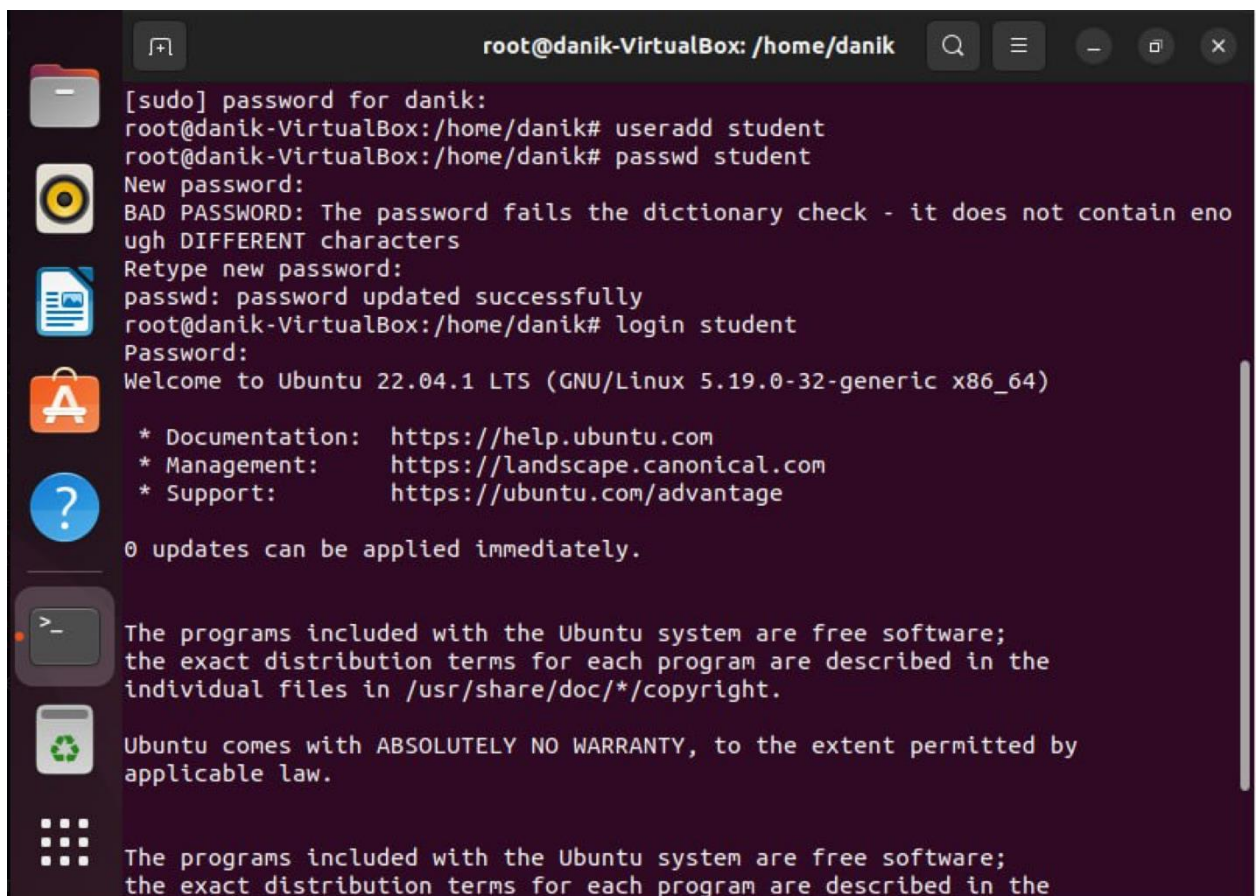


Template Final Exam

#	Full Name	Group
1	Bolegenov Aldiyar	CS-2112
2	Abdizhamal Madiyar	CS-2112
3	Kapanov Dias	CS-2112
4	Shakhmanov Batyrhan	CS-2112

Step-by-step task completion:**Task 1:**

```
root@danik-VirtualBox: /home/danik

[sudo] password for danik:
root@danik-VirtualBox:/home/danik# useradd student
root@danik-VirtualBox:/home/danik# passwd student
New password:
BAD PASSWORD: The password fails the dictionary check - it does not contain enough DIFFERENT characters
Retype new password:
passwd: password updated successfully
root@danik-VirtualBox:/home/danik# login student
Password:
Welcome to Ubuntu 22.04.1 LTS (GNU/Linux 5.19.0-32-generic x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/advantage

0 updates can be applied immediately.

The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
```

```

Activities  Terminal  Aқп 19 23:34
root@danik-VirtualBox: /home/danik

0 updates can be applied immediately.

The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

No directory, logging in with HOME=/
$ whoami
student
$ logouy
-sh: 2: logouy: not found
$ logout
-sh: 3: logout: not found
$ ^Z
$
$ exit
root@danik-VirtualBox: /home/danik#

```

Task 2:

Firstmethod: Direct IP connection to the Internet

```

root@futur1st-VirtualBox: /home/futur1st/Desktop

futur1st@futur1st-VirtualBox:~/Desktop$ sudo su
[sudo] password for futur1st:
root@futur1st-VirtualBox: /home/futur1st/Desktop# ifconfig
enp0s3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 10.0.2.15 netmask 255.255.255.0 broadcast 10.0.2.255
    inet6 fe80::3b57:dc33:d6f1:96ef prefixlen 64 scopeid 0x20<link>
    ether 08:00:27:9b:1f:53 txqueuelen 1000 (Ethernet)
    RX packets 1133 bytes 1435074 (1.4 MB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 707 bytes 76976 (76.9 KB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
    inet 127.0.0.1 netmask 255.0.0.0
    inet6 ::1 prefixlen 128 scopeid 0x10<host>
    loop txqueuelen 1000 (Local Loopback)
    RX packets 153 bytes 13951 (13.9 KB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 153 bytes 13951 (13.9 KB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

root@futur1st-VirtualBox: /home/futur1st/Desktop#

```

```
root@futurist-VirtualBox: /home/futurist/Desktop
GNU nano 6.2 /etc/netplan/01-network-manager-all.yaml *
# Let NetworkManager manage all devices on this system
network:
  version: 2
  renderer: NetworkManager

auto enp0s3
iface enp0s3 inet static
  address 10.0.2.15
  netmask 255.255.255.0
  gateway 10.0.2.255
```

```
root@futurist-VirtualBox: /home/futurist/Desktop
futurist@futurist-VirtualBox: ~/Desktop$ sudo su
[sudo] password for futurist:
root@futurist-VirtualBox: /home/futurist/Desktop# sudo ifup /etc/netplan/*.yaml
root@futurist-VirtualBox: /home/futurist/Desktop# ping google.com
PING google.com (142.250.74.14) 56(84) bytes of data:
64 bytes from arn09s21-in-f14.1e100.net (142.250.74.14): icmp_seq=1 ttl=57 time=90.7 ms
64 bytes from arn09s21-in-f14.1e100.net (142.250.74.14): icmp_seq=2 ttl=57 time=90.6 ms
64 bytes from arn09s21-in-f14.1e100.net (142.250.74.14): icmp_seq=3 ttl=57 time=91.1 ms
64 bytes from arn09s21-in-f14.1e100.net (142.250.74.14): icmp_seq=4 ttl=57 time=91.7 ms
64 bytes from arn09s21-in-f14.1e100.net (142.250.74.14): icmp_seq=5 ttl=57 time=89.7 ms
64 bytes from arn09s21-in-f14.1e100.net (142.250.74.14): icmp_seq=6 ttl=57 time=91.3 ms
```

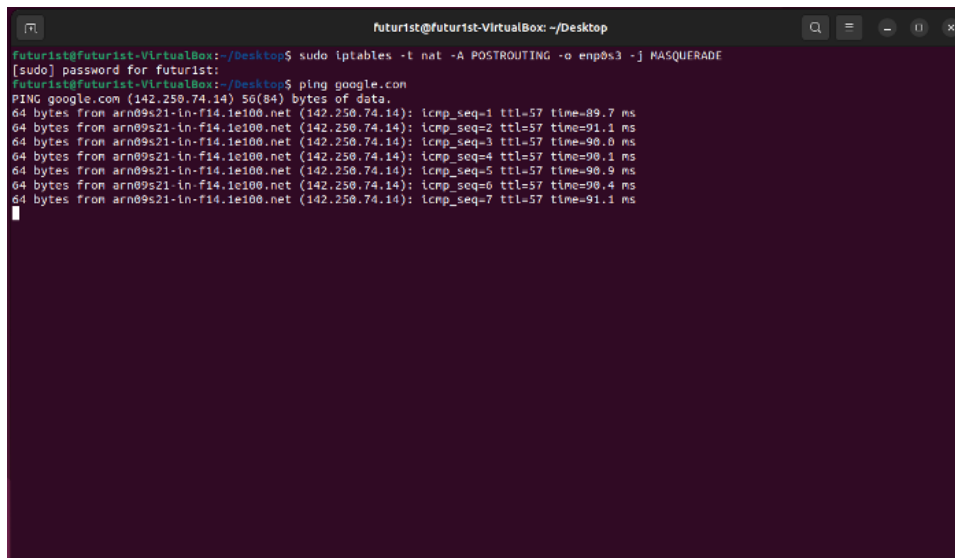
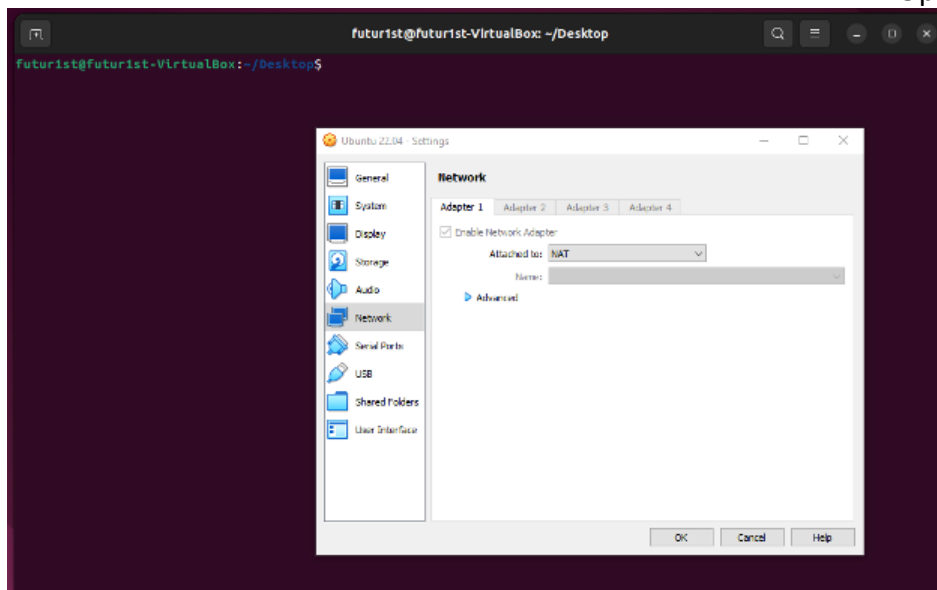
Second method: Proxy

```
futur1st@futur1st-VirtualBox: ~/Desktop
futur1st@futur1st-VirtualBox:~/Desktop$ export http_proxy=http://199.5.133.194:80
futur1st@futur1st-VirtualBox:~/Desktop$ ping google.com
PING google.com (142.250.74.14) 56(84) bytes of data:
64 bytes from arn09s21-in-f14.1e100.net (142.250.74.14): icmp_seq=1 ttl=57 time=94.0 ms
64 bytes from arn09s21-in-f14.1e100.net (142.250.74.14): icmp_seq=2 ttl=57 time=92.0 ms
64 bytes from arn09s21-in-f14.1e100.net (142.250.74.14): icmp_seq=3 ttl=57 time=94.7 ms
64 bytes from arn09s21-in-f14.1e100.net (142.250.74.14): icmp_seq=4 ttl=57 time=94.6 ms
64 bytes from arn09s21-in-f14.1e100.net (142.250.74.14): icmp_seq=5 ttl=57 time=93.1 ms
64 bytes from arn09s21-in-f14.1e100.net (142.250.74.14): icmp_seq=6 ttl=57 time=92.4 ms
64 bytes from arn09s21-in-f14.1e100.net (142.250.74.14): icmp_seq=7 ttl=57 time=92.0 ms
64 bytes from arn09s21-in-f14.1e100.net (142.250.74.14): icmp_seq=8 ttl=57 time=92.4 ms
64 bytes from arn09s21-in-f14.1e100.net (142.250.74.14): icmp_seq=9 ttl=57 time=94.9 ms
64 bytes from arn09s21-in-f14.1e100.net (142.250.74.14): icmp_seq=10 ttl=57 time=93.7 ms
64 bytes from arn09s21-in-f14.1e100.net (142.250.74.14): icmp_seq=11 ttl=57 time=94.1 ms
64 bytes from arn09s21-in-f14.1e100.net (142.250.74.14): icmp_seq=12 ttl=57 time=94.2 ms
64 bytes from arn09s21-in-f14.1e100.net (142.250.74.14): icmp_seq=13 ttl=57 time=94.4 ms
64 bytes from arn09s21-in-f14.1e100.net (142.250.74.14): icmp_seq=14 ttl=57 time=91.9 ms
64 bytes from arn09s21-in-f14.1e100.net (142.250.74.14): icmp_seq=15 ttl=57 time=93.9 ms
64 bytes from arn09s21-in-f14.1e100.net (142.250.74.14): icmp_seq=16 ttl=57 time=92.3 ms
64 bytes from arn09s21-in-f14.1e100.net (142.250.74.14): icmp_seq=17 ttl=57 time=94.6 ms
64 bytes from arn09s21-in-f14.1e100.net (142.250.74.14): icmp_seq=18 ttl=57 time=92.8 ms
64 bytes from arn09s21-in-f14.1e100.net (142.250.74.14): icmp_seq=19 ttl=57 time=93.5 ms
64 bytes from arn09s21-in-f14.1e100.net (142.250.74.14): icmp_seq=20 ttl=57 time=92.4 ms
64 bytes from arn09s21-in-f14.1e100.net (142.250.74.14): icmp_seq=21 ttl=57 time=92.4 ms
64 bytes from arn09s21-in-f14.1e100.net (142.250.74.14): icmp_seq=22 ttl=57 time=91.8 ms
64 bytes from arn09s21-in-f14.1e100.net (142.250.74.14): icmp_seq=23 ttl=57 time=93.8 ms
64 bytes from arn09s21-in-f14.1e100.net (142.250.74.14): icmp_seq=24 ttl=57 time=93.2 ms
64 bytes from arn09s21-in-f14.1e100.net (142.250.74.14): icmp_seq=25 ttl=57 time=94.9 ms
64 bytes from arn09s21-in-f14.1e100.net (142.250.74.14): icmp_seq=26 ttl=57 time=92.7 ms
64 bytes from arn09s21-in-f14.1e100.net (142.250.74.14): icmp_seq=27 ttl=57 time=93.3 ms
64 bytes from arn09s21-in-f14.1e100.net (142.250.74.14): icmp_seq=28 ttl=57 time=94.0 ms
64 bytes from arn09s21-in-f14.1e100.net (142.250.74.14): icmp_seq=29 ttl=57 time=93.3 ms
```

Third method: Connection to NAT

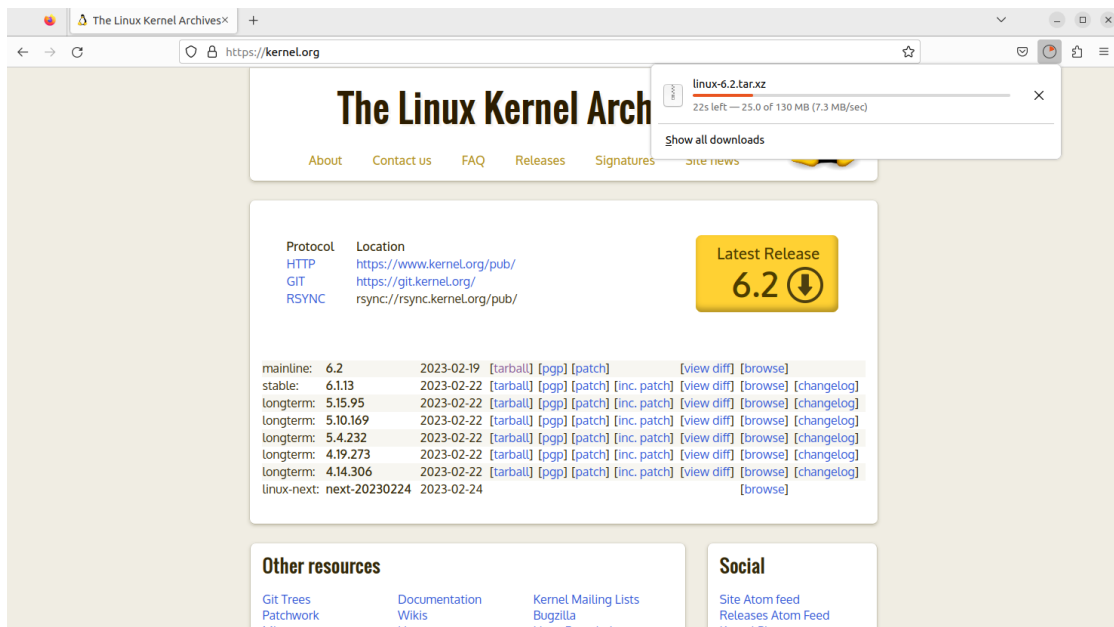
```
futur1st@futur1st-VirtualBox: ~/Desktop
GNU nano 0.2 /etc/netplan/01-network-manager-all.yaml
# Let NetworkManager manage all devices on this system
network:
  version: 2
  renderer: NetworkManager

auto enp0s3
iface enp0s3 inet dhcp
```



Task 3:

```
root@futura1st-VirtualBox: /home/futura1st/Desktop
Get:1 http://kz.archive.ubuntu.com/ubuntu jammy-updates/main amd64 zlib1g-dev amd64 1:1.2.11.dfsg-2ubuntu9.2 [164 kB]
Get:2 http://kz.archive.ubuntu.com/ubuntu jammy/main amd64 libelf-dev amd64 0.186-1build1 [64,4 kB]
Fetched 228 kB in 1s (272 kB/s)
Selecting previously unselected package zlib1g-dev:amd64.
(Reading database ... 203944 files and directories currently installed.)
Preparing to unpack .../zlib1g-dev_1%3a1.2.11.dfsg-2ubuntu9.2_amd64.deb ...
Unpacking zlib1g-dev:amd64 (1:1.2.11.dfsg-2ubuntu9.2) ...
Selecting previously unselected package libelf-dev:amd64.
Preparing to unpack .../libelf-dev_0.186-1build1_amd64.deb ...
Unpacking libelf-dev:amd64 (0.186-1build1) ...
Setting up zlib1g-dev:amd64 (1:1.2.11.dfsg-2ubuntu9.2) ...
Setting up libelf-dev:amd64 (0.186-1build1) ...
Processing triggers for man-db (2.10.2-1) ...
root@futura1st-VirtualBox: /home/futura1st/Desktop# sudo apt-get install bison
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following package was automatically installed and is no longer required:
  systemd-hwe-hwdb
Use 'sudo apt autoremove' to remove it.
Suggested packages:
  bison-doc
The following NEW packages will be installed:
  bison
0 upgraded, 1 newly installed, 0 to remove and 175 not upgraded.
Need to get 748 kB of archives.
After this operation, 2 519 kB of additional disk space will be used.
Get:1 http://kz.archive.ubuntu.com/ubuntu jammy/main amd64 bison amd64 2:3.8.2+dfsg-1build1 [748 kB]
Fetched 748 kB in 2s (487 kB/s)
Selecting previously unselected package bison.
(Reading database ... 203989 files and directories currently installed.)
Preparing to unpack .../bison_2%3a3.8.2+dfsg-1build1_amd64.deb ...
Unpacking bison (2:3.8.2+dfsg-1build1) ...
Setting up bison (2:3.8.2+dfsg-1build1) ...
update-alternatives: using /usr/bin/bison.yacc to provide /usr/bin/yacc (yacc) in auto mode
Processing triggers for man-db (2.10.2-1) ...
root@futura1st-VirtualBox: /home/futura1st/Desktop#
```

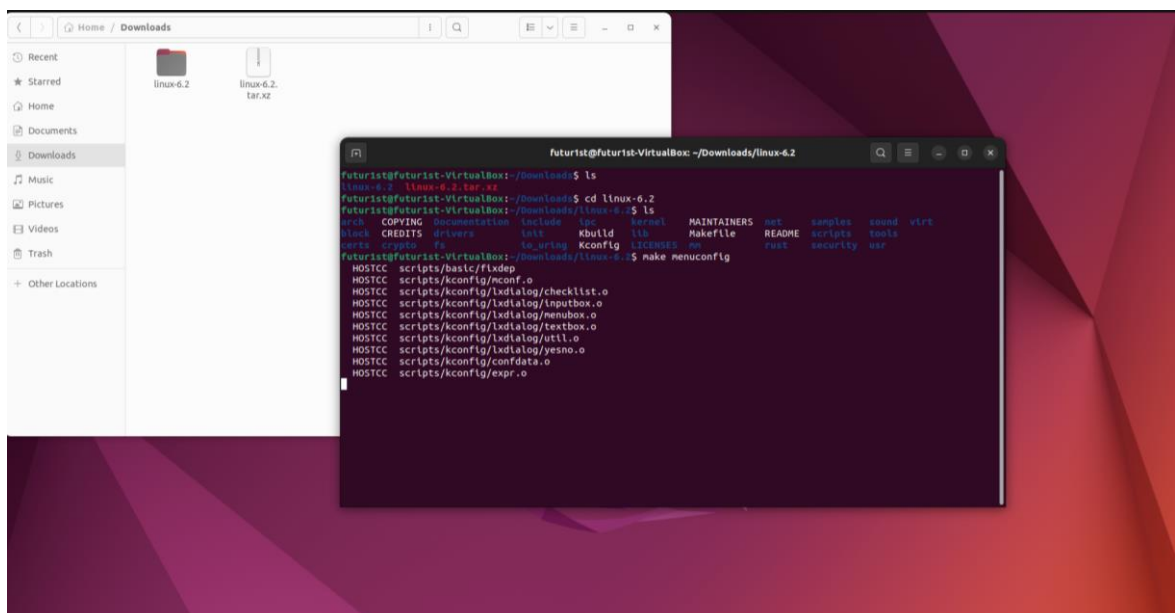
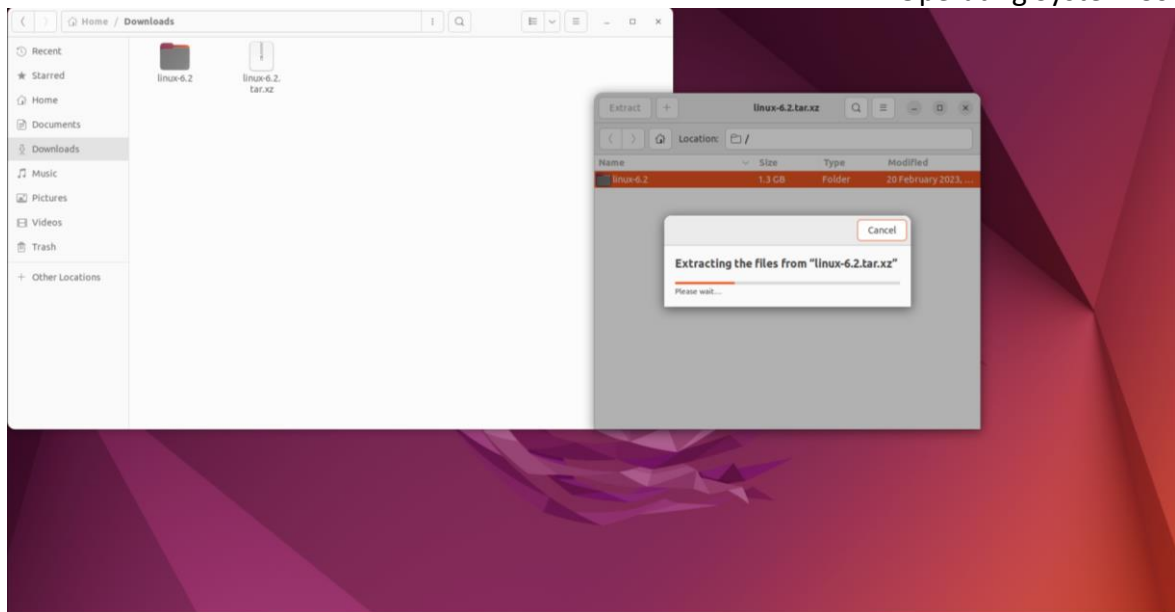


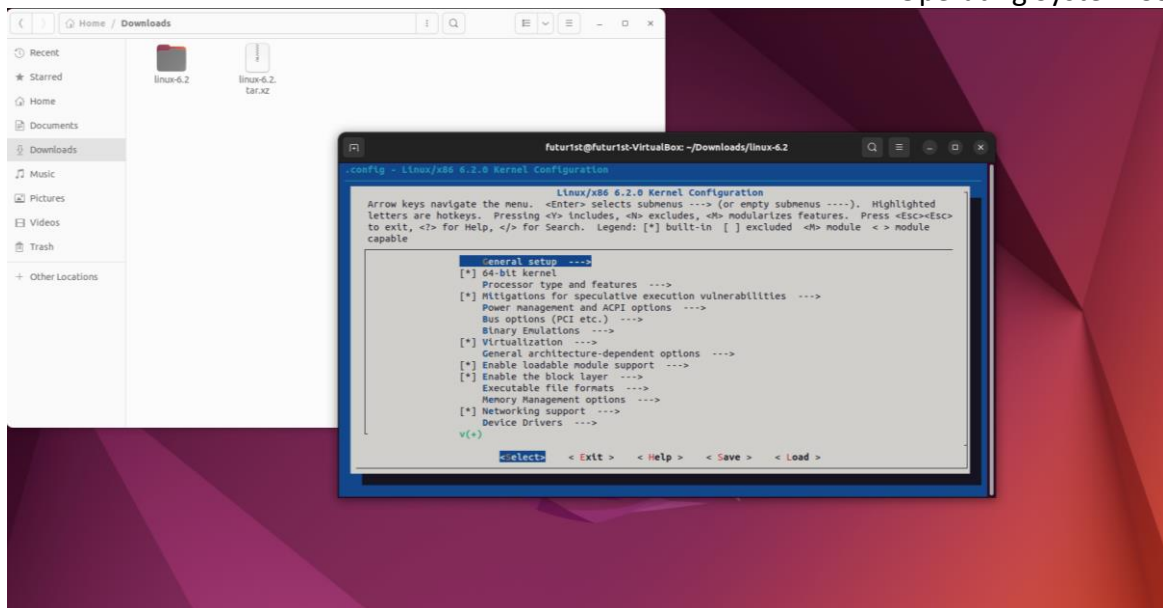
The Linux Kernel Archives website is displayed in a web browser. The page features a navigation bar with links for About, Contact us, FAQ, Releases, and Signatures. A prominent yellow button labeled "Latest Release 6.2" with a download icon is visible. Below this, a table lists various kernel versions and their release dates. A download progress bar for "linux-6.2.tar.xz" is shown in the top right corner.

Protocol	Location
HTTP	https://www.kernel.org/pub/
GIT	https://git.kernel.org/
RSYNC	rsync://rsync.kernel.org/pub/

mainline:	6.2	2023-02-19	[tarball]	[pgp]	[patch]	[view diff]	[browse]
stable:	6.1.13	2023-02-22	[tarball]	[pgp]	[patch]	[inc. patch]	[view diff] [browse] [changelog]
longterm:	5.15.95	2023-02-22	[tarball]	[pgp]	[patch]	[inc. patch]	[view diff] [browse] [changelog]
longterm:	5.10.169	2023-02-22	[tarball]	[pgp]	[patch]	[inc. patch]	[view diff] [browse] [changelog]
longterm:	5.4.232	2023-02-22	[tarball]	[pgp]	[patch]	[inc. patch]	[view diff] [browse] [changelog]
longterm:	4.19.273	2023-02-22	[tarball]	[pgp]	[patch]	[inc. patch]	[view diff] [browse] [changelog]
longterm:	4.14.306	2023-02-22	[tarball]	[pgp]	[patch]	[inc. patch]	[view diff] [browse] [changelog]
linux-next:	next-20230224	2023-02-24					[browse]

Other resources	Social
Git Trees	Site Atom feed
Patchwork	Releases Atom Feed
Mirrors	Kernel Planet
Documentation	
Wikis	
Linux.com	
Kernel Mailing Lists	
Bugzilla	
Linux Foundation	





```

root@futura1st-VirtualBox: /home/futura1st/Downloads/linux-6.2
futura1st@futura1st-VirtualBox:~/Downloads$ ls
linux-6.2  linux-6.2.tar.xz
futura1st@futura1st-VirtualBox:~/Downloads$ sudo su
[sudo] password for futura1st:
root@futura1st-VirtualBox:/home/futura1st/Downloads# cd linux-6.2
root@futura1st-VirtualBox:/home/futura1st/Downloads/linux-6.2# make menuconfig
#
# using defaults found in /boot/config-5.19.0-32-generic
#
.config:7986:warning: symbol value 'm' invalid for USB_FOTG210_HCD
.config:8220:warning: symbol value 'm' invalid for USB_FOTG210_UDC
.config:10297:warning: symbol value 'm' invalid for ANDROID_BINDER_IPC
.config:10298:warning: symbol value 'm' invalid for ANDROID_BINDERFS

*** End of the configuration.
*** Execute 'make' to start the build or try 'make help'.

root@futura1st-VirtualBox:/home/futura1st/Downloads/linux-6.2#
root@futura1st-VirtualBox:/home/futura1st/Downloads/linux-6.2#
root@futura1st-VirtualBox:/home/futura1st/Downloads/linux-6.2#

```



```
root@futur1st-VirtualBox: /home/futur1st/Downloads/linux-6.2

futur1st@futur1st-VirtualBox:~/Downloads$ ls
linux-6.2  linux-6.2.tar.xz
futur1st@futur1st-VirtualBox:~/Downloads$ sudo su
[sudo] password for futur1st:
root@futur1st-VirtualBox:/home/futur1st/Downloads# cd linux-6.2
root@futur1st-VirtualBox:/home/futur1st/Downloads/linux-6.2# make menuconfig
#
# using defaults found in /boot/config-5.19.0-32-generic
#
.config:7986:warning: symbol value 'm' invalid for USB_FOTG210_HCD
.config:8220:warning: symbol value 'm' invalid for USB_FOTG210_UDC
.config:10297:warning: symbol value 'm' invalid for ANDROID_BINDER_IPC
.config:10298:warning: symbol value 'm' invalid for ANDROID_BINDERFS

*** End of the configuration.
*** Execute 'make' to start the build or try 'make help'.

root@futur1st-VirtualBox:/home/futur1st/Downloads/linux-6.2#
root@futur1st-VirtualBox:/home/futur1st/Downloads/linux-6.2#
root@futur1st-VirtualBox:/home/futur1st/Downloads/linux-6.2# make
SYNC      include/config/auto.conf.cmd
HOSTCC    scripts/kconfig/conf.o
HOSTLD    scripts/kconfig/conf
SYSHDR    arch/x86/include/generated/uapi/asm/unistd_32.h
SYSHDR    arch/x86/include/generated/uapi/asm/unistd_64.h
SYSHDR    arch/x86/include/generated/uapi/asm/unistd_x32.h
SYSTBL    arch/x86/include/generated/asm/syscalls_32.h
SYSHDR    arch/x86/include/generated/asm/unistd_32_ia32.h
SYSHDR    arch/x86/include/generated/asm/unistd_64_x32.h
```

```
LD [M] net/9p/9pnet_rdma.ko
LD [M] net/caif/caif.ko
LD [M] net/caif/chnl_net.ko
LD [M] net/caif/caif_socket.ko
LD [M] net/caif/caif_usb.ko
LD [M] net/6lowpan/6lowpan.ko
LD [M] net/6lowpan/nhc_dest.ko
LD [M] net/6lowpan/nhc_fragment.ko
LD [M] net/6lowpan/nhc_hop.ko
LD [M] net/6lowpan/nhc_ipv6.ko
LD [M] net/6lowpan/nhc_mobility.ko
LD [M] net/6lowpan/nhc_routing.ko
LD [M] net/6lowpan/nhc_udp.ko
LD [M] net/ieee802154/6lowpan/ieee802154_6lowpan.ko
LD [M] net/ieee802154/ieee802154.ko
LD [M] net/ieee802154/ieee802154_socket.ko
LD [M] net/mac802154/mac802154.ko
LD [M] net/ceph/libceph.ko
LD [M] net/batman-adv/batman-adv.ko
LD [M] net/nfc/nfc.ko
LD [M] net/nfc/ncl/ncl.ko
LD [M] net/nfc/ncl/ncl_spi.ko
LD [M] net/nfc/ncl/ncl_uart.ko
LD [M] net/nfc/hci/hci.ko
LD [M] net/nfc/nfc_digital.ko
LD [M] net/psample/psample.ko
LD [M] net/life/life.ko
LD [M] net/openvswitch/openvswitch.ko
LD [M] net/openvswitch/vport-vxlan.ko
LD [M] net/openvswitch/vport-geneve.ko
LD [M] net/openvswitch/vport-gre.ko
LD [M] net/vmw_vsock/vsock.ko
LD [M] net/vmw_vsock/vsock_diag.ko
LD [M] net/vmw_vsock/vmw_vsock_vmci_transport.ko
LD [M] net/vmw_vsock/vmw_vsock_virtio_transport.ko
LD [M] net/vmw_vsock/vmw_vsock_virtio_transport_common.ko
LD [M] net/vmw_vsock/hv_vsock.ko
LD [M] net/vmw_vsock/vsock_loopback.ko
LD [M] net/nsh/nsh.ko
LD [M] net/hsr/hsr.ko
LD [M] net/qrtr/qrtr.ko
LD [M] net/qrtr/qrtr_snd.ko
LD [M] net/qrtr/qrtr_tun.ko
LD [M] net/qrtr/qrtr_nhl.ko
futur1st@futur1st-VirtualBox:~/Downloads/linux-6.2$
```

```
futur1st@futur1st-VirtualBox: ~/Downloads/linux-6.2
SIGN /lib/modules/6.2.0/kernel/net/openvswitch/vport-gre.ko
INSTALL /lib/modules/6.2.0/kernel/net/vmw_vsock/vsock.ko
SIGN /lib/modules/6.2.0/kernel/net/vmw_vsock/vsock.ko
INSTALL /lib/modules/6.2.0/kernel/net/vmw_vsock/vsock_diag.ko
SIGN /lib/modules/6.2.0/kernel/net/vmw_vsock/vsock_diag.ko
INSTALL /lib/modules/6.2.0/kernel/net/vmw_vsock/vmw_vsock_vmci_transport.ko
SIGN /lib/modules/6.2.0/kernel/net/vmw_vsock/vmw_vsock_vmci_transport.ko
INSTALL /lib/modules/6.2.0/kernel/net/vmw_vsock/vmw_vsock_virtio_transport.ko
SIGN /lib/modules/6.2.0/kernel/net/vmw_vsock/vmw_vsock_virtio_transport.ko
INSTALL /lib/modules/6.2.0/kernel/net/vmw_vsock/vmw_vsock_virtio_transport_common.ko
SIGN /lib/modules/6.2.0/kernel/net/vmw_vsock/vmw_vsock_virtio_transport_common.ko
INSTALL /lib/modules/6.2.0/kernel/net/vmw_vsock/hv_sock.ko
SIGN /lib/modules/6.2.0/kernel/net/vmw_vsock/hv_sock.ko
INSTALL /lib/modules/6.2.0/kernel/net/vmw_vsock/vsock_loopback.ko
SIGN /lib/modules/6.2.0/kernel/net/vmw_vsock/vsock_loopback.ko
INSTALL /lib/modules/6.2.0/kernel/net/nsh/nsh.ko
SIGN /lib/modules/6.2.0/kernel/net/nsh/nsh.ko
INSTALL /lib/modules/6.2.0/kernel/net/hsr/hsr.ko
SIGN /lib/modules/6.2.0/kernel/net/hsr/hsr.ko
INSTALL /lib/modules/6.2.0/kernel/net/qrtr/qrtr.ko
SIGN /lib/modules/6.2.0/kernel/net/qrtr/qrtr.ko
INSTALL /lib/modules/6.2.0/kernel/net/qrtr/qrtr-smd.ko
SIGN /lib/modules/6.2.0/kernel/net/qrtr/qrtr-smd.ko
INSTALL /lib/modules/6.2.0/kernel/net/qrtr/qrtr-tun.ko
SIGN /lib/modules/6.2.0/kernel/net/qrtr/qrtr-tun.ko
INSTALL /lib/modules/6.2.0/kernel/net/qrtr/qrtr-mhi.ko
SIGN /lib/modules/6.2.0/kernel/net/qrtr/qrtr-mhi.ko
DEPMOD /lib/modules/6.2.0
futur1st@futur1st-VirtualBox: ~/Downloads/linux-6.2$ sudo make install
INSTALL /boot
un-parts: executing /etc/kernel/postinst.d/initramfs-tools 6.2.0 /boot/vmlinuz-6.2.0
update-initramfs: Generating /boot/initrd.img-6.2.0
```

```
futur1st@futur1st-VirtualBox: ~/Downloads/linux-6.2
Systems on them will not be added to the GRUB boot configuration.
Check GRUB_DISABLE_OS_PROBER documentation entry.
done
futur1st@futur1st-VirtualBox: ~/Downloads/linux-6.2$ cd linux-6.2
bash: cd: linux-6.2: No such file or directory
futur1st@futur1st-VirtualBox: ~/Downloads/linux-6.2$ uname -r
5.19.0-32-generic
futur1st@futur1st-VirtualBox: ~/Downloads/linux-6.2$ sudo update-initramfs -c -k 6.2
update-initramfs: Generating /boot/initrd.img-6.2
W: missing /lib/modules/6.2
W: Ensure all necessary drivers are built into the linux image!
depmod: ERROR: could not open directory /lib/modules/6.2: No such file or directory
depmod: FATAL: could not search modules: No such file or directory
cat: /var/tmp/mkinitramfs.PrzNCG/lib/modules/6.2/modules.builtin: No such file or directory
W: Can't find modules.builtin.modinfo (for locating built-in drivers' firmware, supported in Linux >=5.2)
depmod: WARNING: could not open modules.order at /var/tmp/mkinitramfs.PrzNCG/lib/modules/6.2: No such file or directory
depmod: WARNING: could not open modules.builtin at /var/tmp/mkinitramfs.PrzNCG/lib/modules/6.2: No such file or directory
futur1st@futur1st-VirtualBox: ~/Downloads/linux-6.2$ sudo update-initramfs -c -k 6.2.0
update-initramfs: Generating /boot/initrd.img-6.2.0
futur1st@futur1st-VirtualBox: ~/Downloads/linux-6.2$ sudo update-grub2
Sourcing file /etc/default/grub
Sourcing file /etc/default/grub.d/init-select.cfg
Generating grub configuration file ...
Found linux image: /boot/vmlinuz-6.2.0
Found initrd image: /boot/initrd.img-6.2.0
Found linux image: /boot/vmlinuz-5.19.0-32-generic
Found initrd image: /boot/initrd.img-5.19.0-32-generic
Found linux image: /boot/vmlinuz-5.15.0-43-generic
Found initrd image: /boot/initrd.img-5.15.0-43-generic
Found memtest86+ image: /boot/memtest86+.elf
Found memtest86+ image: /boot/memtest86+.bin
Warning: os-prober will not be executed to detect other bootable partitions.
Systems on them will not be added to the GRUB boot configuration.
Check GRUB_DISABLE_OS_PROBER documentation entry.
done
futur1st@futur1st-VirtualBox: ~/Downloads/linux-6.2$
```

```
futur1st@futur1st-VirtualBox: ~/Desktop
futur1st@futur1st-VirtualBox:~/Desktop$ uname -r
6.2.0
futur1st@futur1st-VirtualBox:~/Desktop$
```

```
futur1st@futur1st-VirtualBox: ~/Project
futur1st@futur1st-VirtualBox:~/Project$ vim hello.c
Command 'vim' not found, but can be installed with:
sudo apt install vim          # version 2:8.2.3995-1ubuntu2.3, or
sudo apt install vim-tiny     # version 2:8.2.3995-1ubuntu2.3
sudo apt install neovim       # version 0.6.1-3
sudo apt install vim-athena    # version 2:8.2.3995-1ubuntu2.3
sudo apt install vim-gtk3      # version 2:8.2.3995-1ubuntu2.3
sudo apt install vim-nox       # version 2:8.2.3995-1ubuntu2.3
futur1st@futur1st-VirtualBox:~/Project$
```

```
futur1st@futur1st-VirtualBox: ~/Project
[1]+  Stopped                  vim hello.c
futur1st@futur1st-VirtualBox:~/Project$ sudo apt install vim-nox
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following packages were automatically installed and are no longer required:
  libflashrom1 libftdi1-2 libllvm13
Use 'sudo apt autoremove' to remove them.
Suggested packages:
  cscope vim-doc
The following NEW packages will be installed:
  vim-nox
0 upgraded, 1 newly installed, 0 to remove and 4 not upgraded.
Need to get 1 926 kB of archives.
After this operation, 4 562 kB of additional disk space will be used.
Get:1 http://kz.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 vim-nox amd64 2:8.2.3995-1ubuntu2.3 [1 926 kB]
Fetched 1 926 kB in 2s (995 kB/s)
Selecting previously unselected package vim-nox.
(Reading database ... 209377 files and directories currently installed.)
Preparing to unpack .../vim-nox_2%3a8.2.3995-1ubuntu2.3_amd64.deb ...
Unpacking vim-nox (2:8.2.3995-1ubuntu2.3) ...
Setting up vim-nox (2:8.2.3995-1ubuntu2.3) ...
futur1st@futur1st-VirtualBox:~/Project$ vim hello.c
[1]+  Stopped                  vim hello.c
futur1st@futur1st-VirtualBox:~/Project$ vim hello.c
[2]+  Stopped                  vim hello.c
futur1st@futur1st-VirtualBox:~/Project$
```

[illegible]

