

ОСМАН АЛИ НИКОЛАЙ – АРХИТЕКТУРА КОМПЬЮТЕР ЛАБ 1

УСТАНОВКА VIRTUAL BOX

```
anosman@anosman-GL553VD: /var/tmp/anosman/iso$ vboxmanage storageattach "${id} -un)_os-intro" --storagectl "IDE Controller" --port 0 --device 1 --type dvddrive --medium none
anosman@anosman-GL553VD: /var/tmp/anosman/iso$ vboxmanage startvm "${id} -un)_os-intro" --type gui
Waiting for VM "anosman_os-intro" to power on...
VM "anosman_os-intro" has been successfully started.
anosman@anosman-GL553VD: /var/tmp/anosman/iso$ vboxmanage storageattach "${id} -un)_os-intro" --storagectl "IDE Controller" --port 0 --device 1 --type dvddrive --medium "/var/tmp/${id} -u
n)/iso/Fedora-Sway-Live-x86_64-1.4.iso"
VBoxManage: error: No drive attached to device slot 1 on port 0 of controller 'IDE Controller'
VBoxManage: error: Details: code VBOX_E_OBJECT_NOT_FOUND (0x800bb0001), component SessionMachine, interface IMachine, callee nsISupports
VBoxManage: error: Context: "MountMedium(Bstr(pszCtl).raw(), port, device, pMedium2Mount, fForceUnmount)" at line 768 of file VBoxManageStorageController.cpp
anosman@anosman-GL553VD: /var/tmp/anosman/iso$ vboxmanage storageattach "${id} -un)_os-intro" --storagectl "IDE Controller" --port 0 --device 1 --type dvddrive --medium emptydrive
VBoxManage: error: Controller 'IDE Controller' does not support hot-plugging
VBoxManage: error: Details: code VBOX_E_INVALID_VM_STATE (0x800bb0002), component SessionMachine, interface IMachine, callee nsISupports
VBoxManage: error: Context: "AttachDeviceWithoutMedium(Bstr(pszCtl).raw(), port, device, devTypeRequested)" at line 442 of file VBoxManageStorageController.cpp
VBoxManage: error: No DVD/Floppy Drive attached to the controller 'IDE Controller' at the port: 0, device: 1
anosman@anosman-GL553VD: /var/tmp/anosman/iso$ vboxmanage controlvm "${id} -un)_os-intro" poweroff
0%..10%..20%..30%..40%..50%..60%..70%..80%..90%..100%
anosman@anosman-GL553VD: /var/tmp/anosman/iso$ # Add the DVD drive device
vboxmanage storageattach "${id} -un)_os-intro" --storagectl "IDE Controller" --port 0 --device 1 --type dvddrive --medium emptydrive

# Mount the ISO to the DVD drive
vboxmanage storageattach "${id} -un)_os-intro" --storagectl "IDE Controller" --port 0 --device 1 --type dvddrive --medium "/var/tmp/${id} -un)/iso/Fedora-Sway-Live-x86_64-1.4.iso"
anosman@anosman-GL553VD: /var/tmp/anosman/iso$ vboxmanage modifyvm "${id} -un)_os-intro" --boot1 dvd
anosman@anosman-GL553VD: /var/tmp/anosman/iso$ vboxmanage startvm "${id} -un)_os-intro" --type gui
Waiting for VM "anosman_os-intro" to power on...
VM "anosman_os-intro" has been successfully started.
anosman@anosman-GL553VD: /var/tmp/anosman/iso$ vboxmanage controlvm "${id} -un)_os-intro" poweroff
0%..10%..20%..30%..40%..50%..60%..70%..80%..90%..100%
anosman@anosman-GL553VD: /var/tmp/anosman/iso$ vboxmanage startvm "${id} -un)_os-intro" --type gui
Waiting for VM "anosman_os-intro" to power on...
VM "anosman_os-intro" has been successfully started.
anosman@anosman-GL553VD: /var/tmp/anosman/iso$ vboxmanage controlvm "${id} -un)_os-intro" poweroff
0%..10%..20%..30%..40%..50%..60%..70%..80%..90%..100%
anosman@anosman-GL553VD: /var/tmp/anosman/iso$ vboxmanage startvm "${id} -un)_os-intro" --type gui
Waiting for VM "anosman_os-intro" to power on...
VM "anosman_os-intro" has been successfully started.
anosman@anosman-GL553VD: /var/tmp/anosman/iso$ vboxmanage storageattach "${id} -un)_os-intro" --storagectl "IDE Controller" --port 0 --device 1 --type dvddrive --medium none
anosman@anosman-GL553VD: /var/tmp/anosman/iso$
```

Установка fedora iso

```
anosman@anosman-GL553VD:~/Downloads$ vboxmanage createhd --filename "/var/tmp/${id -un}/${id -un}_os-intro/${id -un}_os-intro.vdi" --size 80000
0%...10%...20%...30%...40%...50%...60%...70%...80%...90%...NS_ERROR_INVALID_ARG
VBoxManage: error: Failed to create medium
VBoxManage: error: Cannot register the hard disk '/var/tmp/anosman/anosman_os-intro/anosman_os-intro.vdi' {5714be67-50b9-48e3-9a50-3a1563139a64} because a hard disk '/var/tmp/anosman/a
nosman_os-intro/anosman_os-intro.vdi' with UUID {103bcc35-4e8d-41de-a40a-785a35d91dcd} already exists
VBoxManage: error: Details: code NS_ERROR_INVALID_ARG (0x80070057), component VirtualBoxWrap, interface IVirtualBox
VBoxManage: error: Context: "RTEXITCODE handleCreateMedium(HandlerArg*)" at line 630 of file VBoxManageDisk.cpp
anosman@anosman-GL553VD:~/Downloads$ rm "/var/tmp/${id -un}/${id -un}_os-intro/${id -un}_os-intro.vdi"
anosman@anosman-GL553VD:~/Downloads$ vboxmanage closemedium disk "/var/tmp/${id -un}/${id -un}_os-intro/${id -un}_os-intro.vdi" --delete
0%...10%...20%...30%...40%...50%...60%...70%...80%...90%...100%
anosman@anosman-GL553VD:~/Downloads$ vboxmanage closemedium disk "/var/tmp/${id -un}/${id -un}_os-intro/${id -un}_os-intro.vdi" --delete
VBoxManage: error: Could not find file for the medium '/var/tmp/anosman/anosman_os-intro/anosman_os-intro.vdi' (VERR_FILE_NOT_FOUND)
VBoxManage: error: Details: code VBOX_E_FILE_ERROR (0x80bb0004), component MediumWrap, interface IMedium, callee nsISupports
VBoxManage: error: Context: "OpenMedium(Bstr(pszFilenameOrUuid).raw(), enmDevType, enmAccessMode, fForceNewUuidOnOpen, pMedium.asOutParam())" at line 197 of file VBoxManageDisk.cpp
anosman@anosman-GL553VD:~/Downloads$ vboxmanage list hdds
anosman@anosman-GL553VD:~/Downloads$ vboxmanage list hdds
anosman@anosman-GL553VD:~/Downloads$ mkdir -p "/var/tmp/${id -un}/${id -un}_os-intro"
anosman@anosman-GL553VD:~/Downloads$ rm -f "/var/tmp/${id -un}/${id -un}_os-intro/${id -un}_os-intro.vdi"
anosman@anosman-GL553VD:~/Downloads$ vboxmanage createhd --filename "/var/tmp/${id -un}/${id -un}_os-intro/${id -un}_os-intro.vdi" --size 80000
0%...10%...20%...30%...40%...50%...60%...70%...80%...90%...100%
Medium created. UUID: 823ea57d-a541-4d9a-9c15-820995a27a7e
anosman@anosman-GL553VD:~/Downloads$ # 4. Set the first boot device to the DVD drive (to boot from the ISO)
anosman@anosman-GL553VD:~/Downloads$ vboxmanage modifyvm "${id -un}_os-intro" --boot1 dvd
anosman@anosman-GL553VD:~/Downloads$ vboxmanage storagectl "${id -un}_os-intro" --name "IDE Controller" --add ide --controller PIIX4
anosman@anosman-GL553VD:~/Downloads$ vboxmanage storageattach "${id -un}_os-intro" --storagectl "IDE Controller" --port 0 --device 0 --type hdd --medium "/var/tmp/${id -un}/${id -un}_o
s-intro/${id -un}_os-intro.vdi"
anosman@anosman-GL553VD:~/Downloads$ vboxmanage storageattach "${id -un}_os-intro" --storagectl "IDE Controller" --port 0 --device 1 --type dvddrive --medium "/var/tmp/${id -un}/iso/Fe
dora-Sway-Live-x86_64-41-1.4.iso"
VBoxManage: error: Could not find file for the medium '/var/tmp/anosman/iso/Fedora-Sway-Live-x86_64-41-1.4.iso' (VERR_FILE_NOT_FOUND)
VBoxManage: error: Details: code VBOX_E_FILE_ERROR (0x80bb0004), component MediumWrap, interface IMedium, callee nsISupports
VBoxManage: error: Context: "OpenMedium(Bstr(pszFilenameOrUuid).raw(), enmDevType, enmAccessMode, fForceNewUuidOnOpen, pMedium.asOutParam())" at line 197 of file VBoxManageDisk.cpp
VBoxManage: error: Invalid UUID or filename "/var/tmp/anosman/iso/Fedora-Sway-Live-x86_64-41-1.4.iso"
anosman@anosman-GL553VD:~/Downloads$ ls -l "/var/tmp/${id -un}/iso/"
total 344
-rw-rw-r-- 1 anosman anosman 350830 Aug 28 22:31 index.html
anosman@anosman-GL553VD:~/Downloads$ cd "/var/tmp/${id -un}/iso"
anosman@anosman-GL553VD:~/var/tmp/anosman/iso$ wget -c https://download.fedoraproject.org/pub/fedora/linux/releases/41/Spins/x86_64/iso/Fedora-Sway-Live-x86_64-41-1.4.iso
--2025-09-03 03:07:16-- https://download.fedoraproject.org/pub/fedora/linux/releases/41/Spins/x86_64/iso/Fedora-Sway-Live-x86_64-41-1.4.iso
Resolving download.fedoraproject.org (download.fedoraproject.org)... 2a05:d014:10:7803:142c:f27e:9113:eb70, 2a05:d014:10:7803:e679:200f:1d55:a3d, 2a05:d01c:c6a:cc01:80a4:89a8:76d0:aa54
, ...
Connecting to download.fedoraproject.org (download.fedoraproject.org)[2a05:d014:10:7803:142c:f27e:9113:eb70]:443... connected.
HTTP request sent, awaiting response... 302 Found
Location: https://mirror.linux-tae4.org/fedora/fedora/linux/releases/41/Spins/x86_64/iso/Fedora-Sway-Live-x86_64-41-1.4.iso [following]
--2025-09-03 03:07:16-- https://mirror.linux-tae4.org/fedora/fedora/linux/releases/41/Spins/x86_64/iso/Fedora-Sway-Live-x86_64-41-1.4.iso
Resolving mirror.linux-tae4.org (mirror.linux-tae4.org)... 37.193.156.169
```

СОЗДАНИЕ ПАМЯТЬ

```
anosman@anosman-GL553VD:~$ cd /var/tmp
anosman@anosman-GL553VD:~$ mkdir /var/tmp/id -un
anosman@anosman-GL553VD:~$ VirtualBox &
[1] 5262
anosman@anosman-GL553VD:~$ vboxmanage createvm --name "${id}_os-intro" --ostype Fedora_64 --register
Virtual machine 'anosman_os-intro' is created and registered.
UUID: 81899724-a139-4821-89ad-7a6d39ecfe10
Settings file: '/var/tmp/anosman/anosman_os-intro/anosman_os-intro.vbox'
anosman@anosman-GL553VD:~$ vboxmanage modifyvm "${id}_os-intro" --memory 2048 --acpi on --nic1 nat
anosman@anosman-GL553VD:~$ vboxmanage createhd --filename "${vboxmanage list systemproperties | grep 'Default machine folder:' | cut -d':' -f2 | tr -d ' '}/${id}_os-intro/${id}_os-intro.vdi" --size 80000
0%..10%..20%..30%..40%..50%..60%..70%..80%..90%..100%
Medium created. UUID: 103bcc35-4e8d-41de-a40a-785a35d91dcd
anosman@anosman-GL553VD:~$ mkdir -p "/var/tmp/${id}_os-intro/iso/"
anosman@anosman-GL553VD:~$ mv Fedora-Sway-Live-x86_64-39-1.5.iso "/var/tmp/${id}_os-intro/iso/"
mv: cannot stat 'Fedora-Sway-Live-x86_64-39-1.5.iso': No such file or directory
anosman@anosman-GL553VD:~$ mv Fedora-Sway-Live-x86_64-39-1.5.iso
Fedora-Sway-Live-x86_64-39-1.5.iso: command not found
anosman@anosman-GL553VD:~$ cd "/var/tmp/${id}_os-intro/iso/"
anosman@anosman-GL553VD:~$ wget -c https://fedoraproject.org/spins/sway/download/index.html
--2025-09-02 23:37:38-- https://fedoraproject.org/spins/sway/download/index.html
Resolving fedoraproject.org (fedoraproject.org)... 2a05:d014:10:7803:142c:f27e:9113:eb70, 2a05:d014:10:7803:e679:200f:1d55:a3d, 2a05:d01c:c6a:cc01:80a4:89a8:76d0:aa54, ...
Connecting to fedoraproject.org (fedoraproject.org)[2a05:d014:10:7803:142c:f27e:9113:eb70]:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 350838 (343K) [text/html]
Saving to: 'index.html'

index.html          100%[=====] 342.62K  587KB/s   in 0.6s

2025-09-02 23:37:39 (587 KB/s) - 'index.html' saved [350838/350838]

anosman@anosman-GL553VD:~$ wget -c /afs/dk.scl.pfu.edu.ru/common/files/iso.
/afs/dk.scl.pfu.edu.ru/common/files/iso.: Scheme missing.
anosman@anosman-GL553VD:~$ wget -c https://fedoraproject.org/spins/sway/download/index.html/afs/dk.scl.pfu.edu.ru/common/files/iso.
--2025-09-02 23:39:19-- https://fedoraproject.org/spins/sway/download/index.html/afs/dk.scl.pfu.edu.ru/common/files/iso.
Resolving fedoraproject.org (fedoraproject.org)... 2a05:d014:10:7803:142c:f27e:9113:eb70, 2a05:d014:10:7803:e679:200f:1d55:a3d, 2a05:d01c:c6a:cc01:80a4:89a8:76d0:aa54, ...
Connecting to fedoraproject.org (fedoraproject.org)[2a05:d014:10:7803:142c:f27e:9113:eb70]:443... connected.
HTTP request sent, awaiting response... 404 Not Found
2025-09-02 23:39:21 ERROR 404: Not Found.

anosman@anosman-GL553VD:~$ wget -c https://fedoraproject.org/spins/sway/download/index.htmlFedora-Sway-Live-x86_64-41-1.4.iso
--2025-09-02 23:39:54-- https://fedoraproject.org/spins/sway/download/index.htmlFedora-Sway-Live-x86_64-41-1.4.iso
Resolving fedoraproject.org (fedoraproject.org)... 2a05:d014:10:7803:e679:200f:1d55:a3d, 2a05:d014:10:7803:142c:f27e:9113:eb70, 2a05:d01c:c6a:cc01:80a4:89a8:76d0:aa54, ...
Connecting to fedoraproject.org (fedoraproject.org)[2a05:d014:10:7803:e679:200f:1d55:a3d]:443... connected.
HTTP request sent, awaiting response... 404 Not Found
```

VIRTUAL BOX УСТАНОВЛЕН



```
change: error: Controller 'IDE Controller' does not support hot-plugging
```

anosman_os-intro [Running] - Oracle VM VirtualBox

File Machine View Input Devices Help

1 foot 40% 100%

1 foot 40% 100%

1 foot 40% 100%

```
foot
```

```
root@10:~# mount -o remount,rw /
root@10:~# fsck -y /dev/sda1
fsck from util-linux 2.40.2
e2fsck 1.47.1 (20-May-2024)
ext2fs_open2: Bad magic number in super-block
fsck.ext2: Superblock invalid, trying backup blocks...
fsck.ext2: Bad magic number in super-block while trying to open /dev/sda1

The superblock could not be read or does not describe a valid ext2/ext3/ext4
filesystem. If the device is valid and it really contains an ext2/ext3/ext4
filesystem (and not swap or ufs or something else), then the superblock
is corrupt, and you might try running e2fsck with an alternate superblock:
    e2fsck -b 8193 <device>
or
    e2fsck -b 32768 <device>
```

```
root@10:~# ^C
```

```
root@10:~# fdisk -l
```

```
Disk /dev/sda: 78.13 GiB, 83886080000 bytes, 163840000 sectors
```

```
Disk model: VBOX HARDDISK
```

```
Units: sectors of 1 * 512 = 512 bytes
```

```
Sector size (logical/physical): 512 bytes / 512 bytes
```

```
I/O size (minimum/optimal): 512 bytes / 512 bytes
```

```
Disklabel type: gpt
```

Disk identifier: 3D7AAECE-17CD-4B37-AF2B-2E0B517E3F3B

Device	Start	End	Sectors	Size	Type
hda	0	1000000000	1000000000	1000 MB	ATA

```
1 /dev/sda1    2048      4095      2048      1M BIOS boot
```

```
/dev/sda2    4096    2101247    2097152    1G Linux extended boot
```

```
/dev/sda3 2101248 163837951 161736704 77.1G Linux filesystem
```

```
Disk /dev/zram0: 1.91 GiB, 2055208960 bytes, 501760 sectors
```

```
Units: sectors of 1 * 4096 = 4096 bytes
```

```
Sector size (logical/physical): 4096 bytes / 4096 bytes
```

```
I/O size (minimum/optimal): 4096 bytes / 4096 bytes
```

```
root@10:~# tmux
```

```
[exited]
```

```
root@10:~# dmseg grep -i "sda.*mounted"
```

```
-bash: dmseg: command not found
```

```
root@10:~# exit
```

[logout](#)

```
anosman@10:~$ dmsseg | grep -i "mhz processor"
```

```
-bash: dmseg: command not found
```

```
anosman@10:~$
```

```
[0] 0:bash*
```

```

anosman@GL553VD: /var/tmp/anosman/cso$ VBoxManage startvm $(cat -n)_os-intro --
ing for VM "anosman_os-intro" to power on...

```

```
hosman_os-intro" has been successfully started.
```

```
an@anosman-GL553VD:/var/tmp/anosman/iso$
```

```
change: error: Controller 'IDE Controller' does not support hot-plugging
```

anosman_os-intro [Running] - Oracle VM VirtualBox

File Machine View Input Devices Help

1 foot 40% 100%

1 foot 40% 100%

1 foot 40% 100%

```
foot
```

```
root@10:~# mount -o remount,rw /
root@10:~# fsck -y /dev/sda1
fsck from util-linux 2.40.2
e2fsck 1.47.1 (20-May-2024)
ext2fs_open2: Bad magic number in super-block
fsck.ext2: Superblock invalid, trying backup blocks...
fsck.ext2: Bad magic number in super-block while trying to open /dev/sda1

The superblock could not be read or does not describe a valid ext2/ext3/ext4
filesystem. If the device is valid and it really contains an ext2/ext3/ext4
filesystem (and not swap or ufs or something else), then the superblock
is corrupt, and you might try running e2fsck with an alternate superblock:
    e2fsck -b 8193 <device>
or
    e2fsck -b 32768 <device>
```

```
root@10:~# ^C
```

```
root@10:~# fdisk -l
```

```
Disk /dev/sda: 78.13 GiB, 83886080000 bytes, 163840000 sectors
```

```
Disk model: VBOX HARDDISK
```

```
Units: sectors of 1 * 512 = 512 bytes
```

```
Sector size (logical/physical): 512 bytes / 512 bytes
```

```
I/O size (minimum/optimal): 512 bytes / 512 bytes
```

```
Disklabel type: gpt
```

Disk identifier: 3D7AAECE-17CD-4B37-AF2B-2E0B517E3F3B

Device	Start	End	Sectors	Size	Type
hda	0	1023	1024	1024	ATA

```
1 /dev/sda1    2048      4095      2048      1M BIOS boot
```

```
/dev/sda2    4096    2101247    2097152    1G Linux extended boot
```

```
/dev/sda3 2101248 163837951 161736704 77.1G Linux filesystem
```

```
Disk /dev/zram0: 1.91 GiB, 2055208960 bytes, 501760 sectors
```

```
Units: sectors of 1 * 4096 = 4096 bytes
```

```
Sector size (logical/physical): 4096 bytes / 4096 bytes
```

```
I/O size (minimum/optimal): 4096 bytes / 4096 bytes
```

```
root@10:~# tmux
```

```
[exited]
```

```
root@10:~# dmseg grep -i "sda.*mounted"
```

```
-bash: dmseg: command not found
```

```
root@10:~# exit
```

[logout](#)

```
anosman@10:~$ dmsseg | grep -i "mhz processor"
```

```
-bash: dmseg: command not found
```

```
anosman@10:~$
```

```
[0] 0:bash*
```

```

anosman@GL553VD: /var/tmp/anosman/cso$ VBoxManage startvm $(cat -n)_os-intro --
ing for VM "anosman_os-intro" to power on...

```

```
hosman_os-intro" has been successfully started.
```

```
an@anosman-GL553VD:/var/tmp/anosman/iso$
```

```
File Machine View Input Devices Help
1 foot 40% 100% 1
foot
[anosman@10 ~]$ dmseg: command not found
[anosman@10 ~]$ dmseg | grep -i "detected mhz processor"
bash: dmseg: command not found
[anosman@10 ~]$ cat /proc/cpuinfo | grep -i "model name"
model name      : Intel(R) Core(TM) i5-7300HQ CPU @ 2.50GHz
[anosman@10 ~]$ cat /proc/cpuinfo | grep -i "mhz"
cpu MHz          : 2496.004
[anosman@10 ~]$ cpufreq-info
bash: cpufreq-info: command not found
[anosman@10 ~]$ dmseg | grep -i "Linux version"
bash: dmseg: command not found
[anosman@10 ~]$ sudo dmseg | grep -i "Linux version"
[sudo] password for anosman:
sudo: dmseg: command not found
[anosman@10 ~]$ uname -r
6.11.4-301.fc41.x86_64
[anosman@10 ~]$ free -h
              total        used        free      shared  buff/cache   available
Mem:           1.9Gi       444Mi       344Mi        7.7Mi        1.3Gi        1.5Gi
Swap:          1.9Gi       201Mi       1.7Gi
[anosman@10 ~]$ df -Th
Filesystem      Type      Size  Used Avail Use% Mounted on
/dev/sda3        btrfs     78G   3.7G   72G   5% /
devtmpfs        devtmpfs  4.0M   0     4.0M   0% /dev
tmpfs           tmpfs     981M   4.3M   976M   1% /dev/shm
tmpfs           tmpfs     393M   1.1M   391M   1% /run
tmpfs           tmpfs     1.0M   0     1.0M   0% /run/credentials/systemd-network-generator.service
tmpfs           tmpfs     1.0M   0     1.0M   0% /run/credentials/systemd-journald.service
tmpfs           tmpfs     1.0M   0     1.0M   0% /run/credentials/systemd-udev-load-credentials.service
tmpfs           tmpfs     1.0M   0     1.0M   0% /run/credentials/systemd-sysctl.service
tmpfs           tmpfs     1.0M   0     1.0M   0% /run/credentials/systemd-tmpfiles-setup-dev-early.service
tmpfs           tmpfs     1.0M   0     1.0M   0% /run/credentials/systemd-tmpfiles-setup-dev.service
tmpfs           tmpfs     981M   4.0K   981M   1% /tmp
/dev/sda3        btrfs     78G   3.7G   72G   5% /home
/dev/sda2        ext4      974M   269M   638M   30% /boot
tmpfs           tmpfs     1.0M   0     1.0M   0% /run/credentials/systemd-tmpfiles-setup.service
tmpfs           tmpfs     1.0M   0     1.0M   0% /run/credentials/systemd-resolved.service
tmpfs           tmpfs     1.0M   0     1.0M   0% /run/credentials/systemd-vconsole-setup.service
tmpfs           tmpfs     197M   96K   196M   1% /run/user/1000
[anosman@10 ~]$ system-detect-virt
bash: system-detect-virt: command not found
[anosman@10 ~]$ cat /proc/cpuinfo | grep -i "hypervisor"
flags           : fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov pat pse36 clflush mmx fxsr sse sse2 ht syscall nx rdtscp
i pclmulqdq monitor ssse3 cx16 pcid sse4_1 sse4_2 x2apic movbe popcnt aes xsave avx rdrand hypervisor lahf_lm abm 3dnowprefetch pti fsgsb
capabilities
[anosman@10 ~]$
```

1

foot

40% 100%

10

foot

```
checking for llc11... no
checking for llc... no
checking for opt-15... no
checking for opt-15.0... no
checking for opt15... no
checking for opt-14... no
checking for opt-14.0... no
checking for opt14... no
checking for opt-13... no
checking for opt-13.0... no
checking for opt13... no
checking for opt-12... no
checking for opt-12.0... no
checking for opt12... no
checking for opt-11... no
checking for opt-11.0... no
checking for opt11... no
checking for opt... no
checking version of gcc... checking version of gcc... 14.3.1
14.3.1
  whether CC supports -no-pie... yes
  for extra options to pass gcc when compiling via C...
  Setting up CFLAGS, LDFLAGS, IGNORE_LINKER_LD_FLAGS and CPPFLAGS... done
checking Setting up CONF_CC_OPTS_STAGE0, CONF_GCC_LINKER_OPTS_STAGE0, CONF_LD_LINKER_OPTS_STAGE0 and CONF_CPP_OPTS_STAGE0... done
checking Setting up CONF_CC_OPTS_STAGE1, CONF_GCC_LINKER_OPTS_STAGE1, CONF_LD_LINKER_OPTS_STAGE1 and CONF_CPP_OPTS_STAGE1... done
checking Setting up CONF_CC_OPTS_STAGE2, CONF_GCC_LINKER_OPTS_STAGE2, CONF_LD_LINKER_OPTS_STAGE2 and CONF_CPP_OPTS_STAGE2... done
checking C++ standard library flavour... ./configure: line 7836: g++: command not found
configure: error: Failed to compile test program
root@10:~# sed -n '2,41p' /root/.ghcup/logs/ghc-configure.log
sed: can't read /root/.ghcup/logs/ghc-configure.log: No such file or directory
root@10:~# gcc --version
gcc (GCC) 14.3.1 20250808 (Red Hat 14.3.1-3)
Copyright (C) 2024 Free Software Foundation, Inc.
This is free software; see the source for copying conditions.  There is NO
warranty; not even for MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.

root@10:~# make --version
GNU Make 4.4.1
Built for x86_64-redhat-linux-gnu
Copyright (C) 1988-2023 Free Software Foundation, Inc.
License GPLv3+: GNU GPL version 3 or later <https://gnu.org/licenses/gpl.html>
This is free software; you are free to change and redistribute it.
There is NO WARRANTY, to the extent permitted by law.
root@10:~# sed -n '2,41p' /root/.ghcup/logs/ghc-configure.log
```

[0] 0:sudo*

[0] 0:sudo*


```

[anosman@10 ~]$ dmseg | grep -i "mhz processor"
bash: dmseg: command not found
[anosman@10 ~]$ dmseg | grep -i "detected mhz processor"
bash: dmseg: command not found
[anosman@10 ~]$ cat /proc/cpuinfo | grep -i "model name"
model name      : Intel(R) Core(TM) i5-7300HQ CPU @ 2.50GHz
[anosman@10 ~]$ cat /proc/cpuinfo | grep -i "mhz"
cpu MHz          : 2496.004
[anosman@10 ~]$ cpufreq-info
bash: cpufreq-info: command not found
[anosman@10 ~]$ dmseg | grep -i "Linux version"
bash: dmseg: command not found
[anosman@10 ~]$ sudo dmseg | grep -i "Linux version"
[sudo] password for anosman:
sudo: dmseg: command not found
[anosman@10 ~]$ uname -r
6.11.4-301.fc41.x86_64
[anosman@10 ~]$ free -h
               total        used        free      shared  buff/cache   available
Mem:           1.9Gi         444Mi        344Mi         7.7Mi         1.3Gi         1.5Gi
Swap:          1.9Gi         201Mi        1.7Gi
[anosman@10 ~]$ df -Th
Filesystem      Type      Size  Used Avail Use% Mounted on
/dev/sda3       btrfs     78G   3.7G   72G   5% /
devtmpfs        devtmpfs  4.0M   0     4.0M   0% /dev
tmpfs           tmpfs     981M   4.3M  976M   1% /dev/shm
tmpfs           tmpfs     393M   1.1M  391M   1% /run
tmpfs           tmpfs     1.0M   0     1.0M   0% /run/credentials/systemd-network-generator.service
tmpfs           tmpfs     1.0M   0     1.0M   0% /run/credentials/systemd-journald.service
tmpfs           tmpfs     1.0M   0     1.0M   0% /run/credentials/systemd-udev-load-credentials.service
tmpfs           tmpfs     1.0M   0     1.0M   0% /run/credentials/systemd-sysctl.service
tmpfs           tmpfs     1.0M   0     1.0M   0% /run/credentials/systemd-tmpfiles-setup-dev-early.service
tmpfs           tmpfs     1.0M   0     1.0M   0% /run/credentials/systemd-tmpfiles-setup-dev.service
tmpfs           tmpfs     981M   4.0K  981M   1% /tmp
/dev/sda3       btrfs     78G   3.7G   72G   5% /home
/dev/sda2       ext4      974M   269M  638M  30% /boot
tmpfs           tmpfs     1.0M   0     1.0M   0% /run/credentials/systemd-tmpfiles-setup.service
tmpfs           tmpfs     1.0M   0     1.0M   0% /run/credentials/systemd-resolved.service
tmpfs           tmpfs     1.0M   0     1.0M   0% /run/credentials/systemd-vconsole-setup.service
tmpfs           tmpfs     197M   96K   196M   1% /run/user/1000
[anosman@10 ~]$ system-detect-virt
bash: system-detect-virt: command not found
[anosman@10 ~]$ cat /proc/cpuinfo | grep -i "hypervisor"
flags           : fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov pat pse36 clflush mmx fxsr ss

```