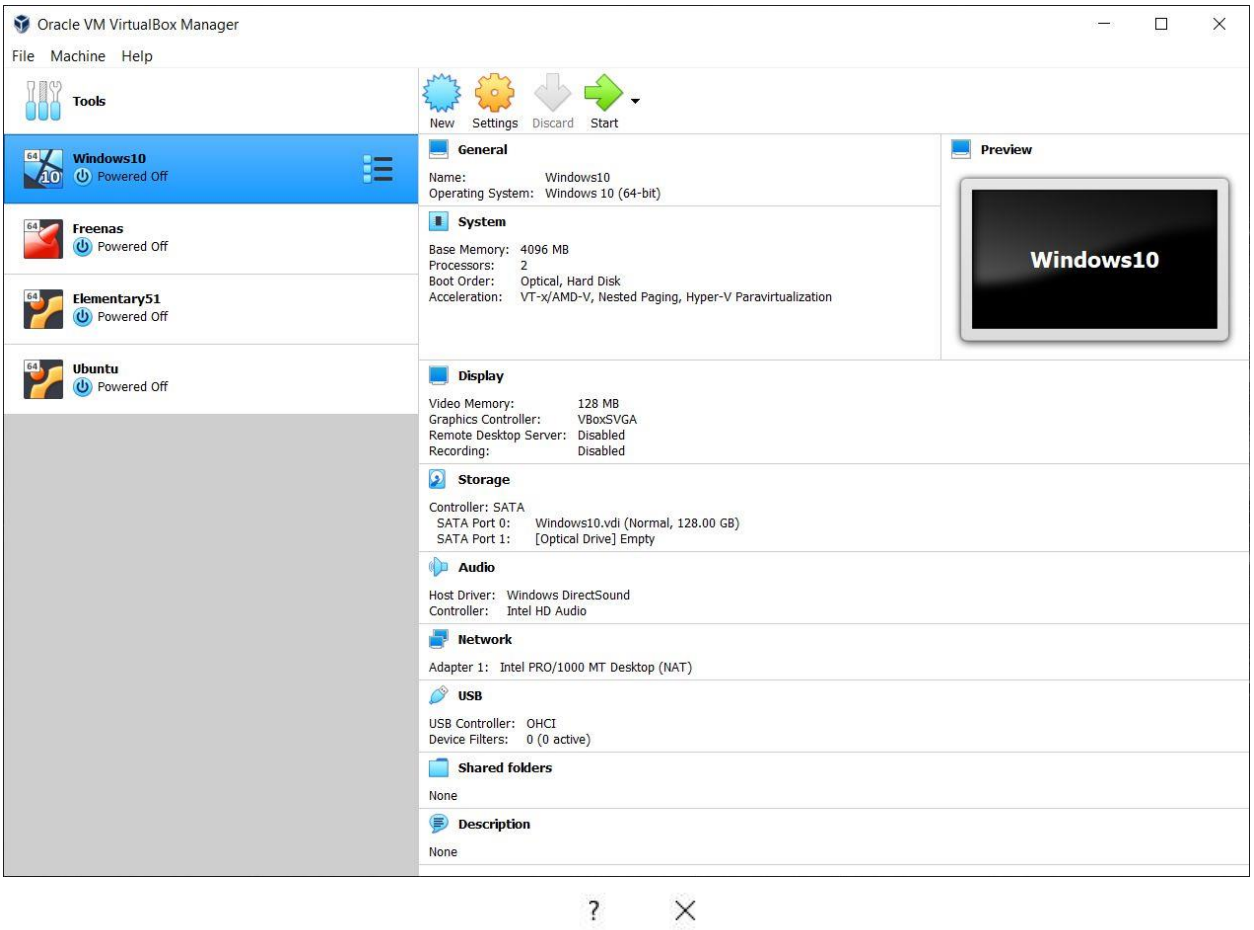
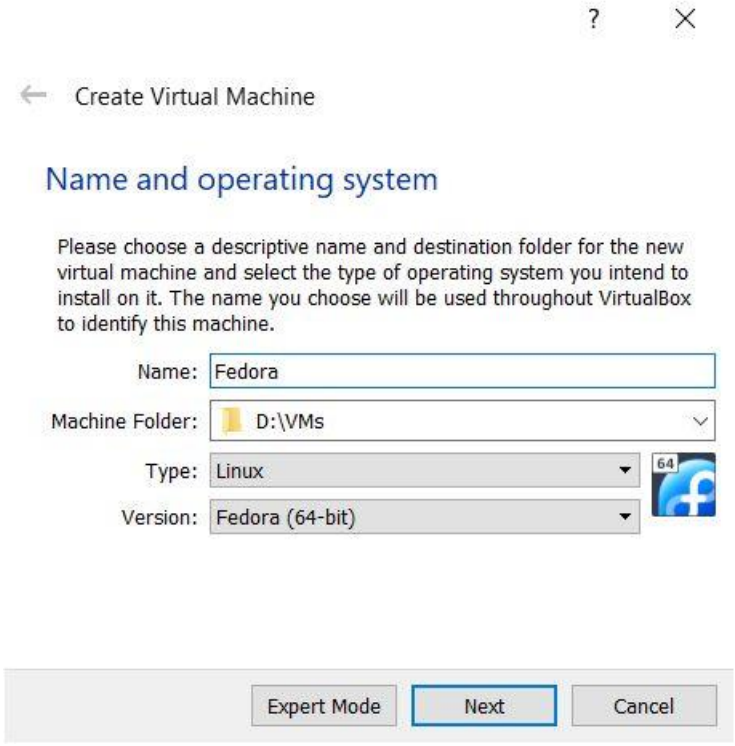
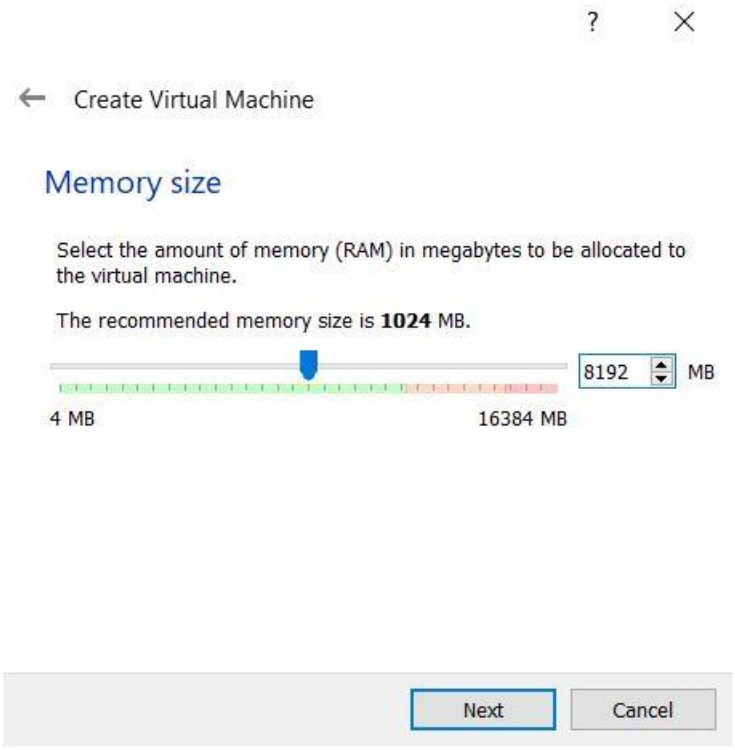
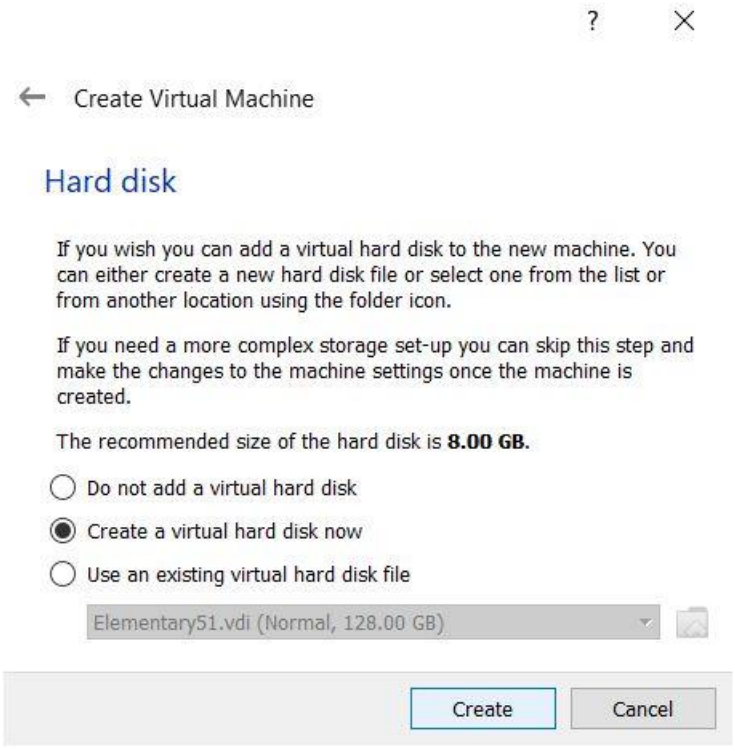
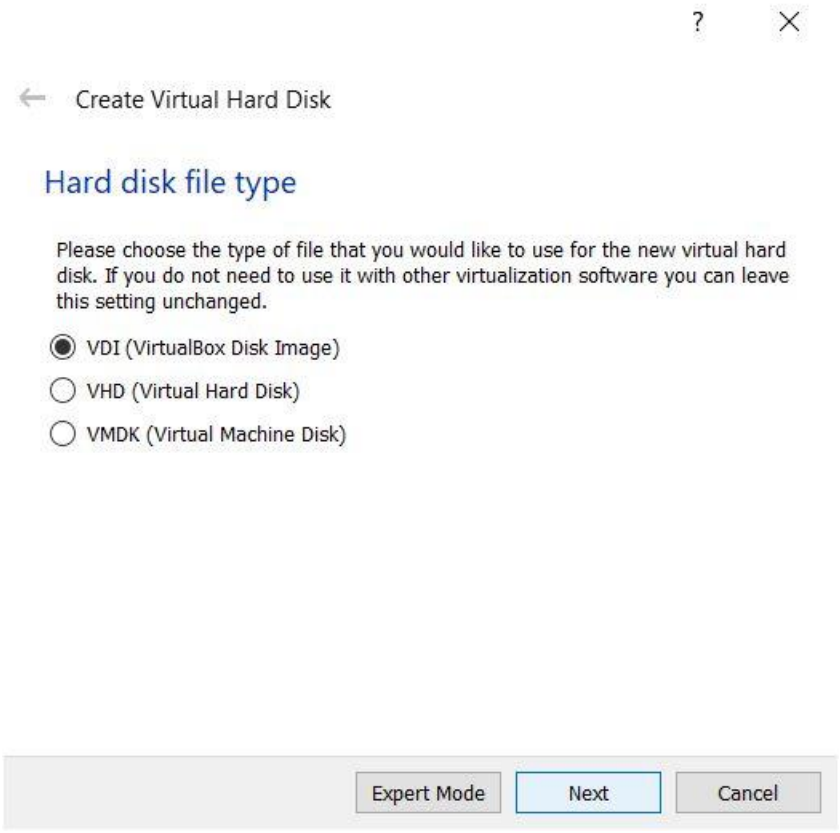
Intro To Linux Cloud Bootcamp Project 04

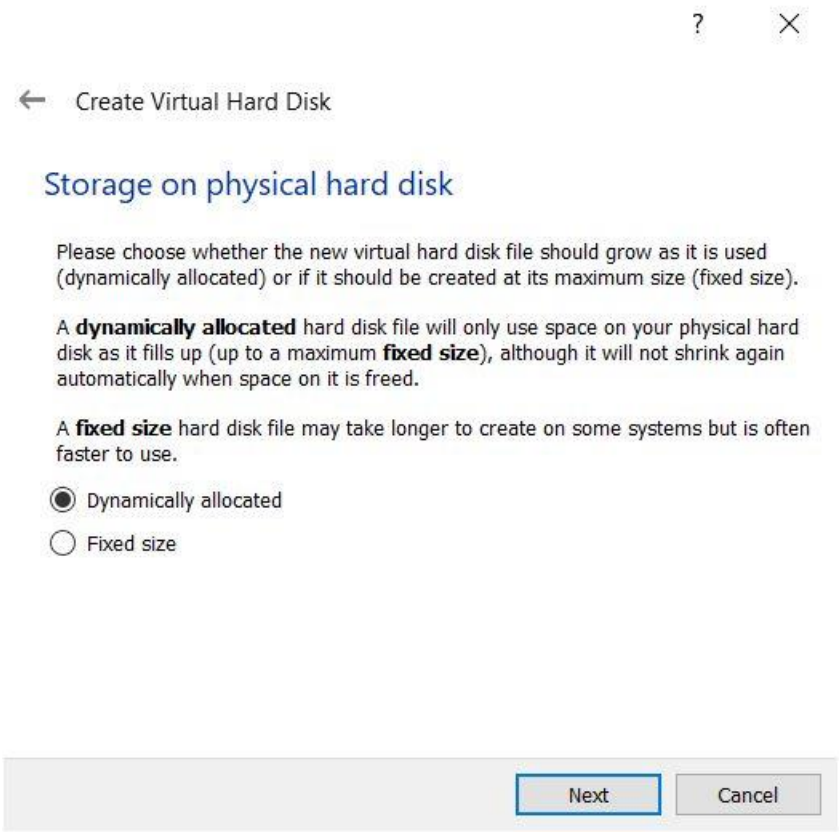


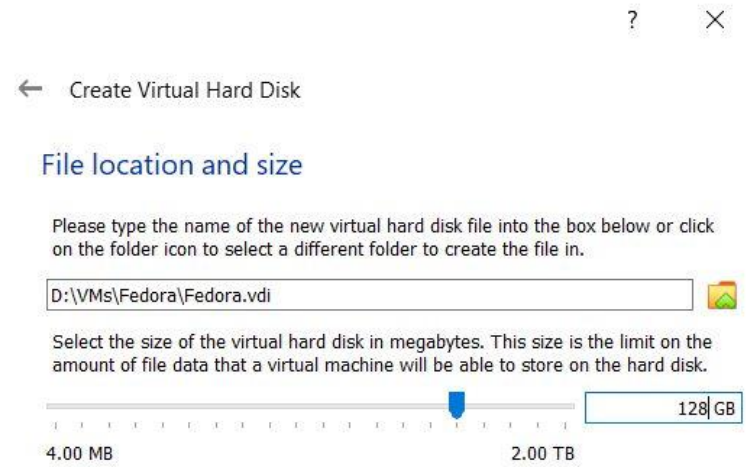


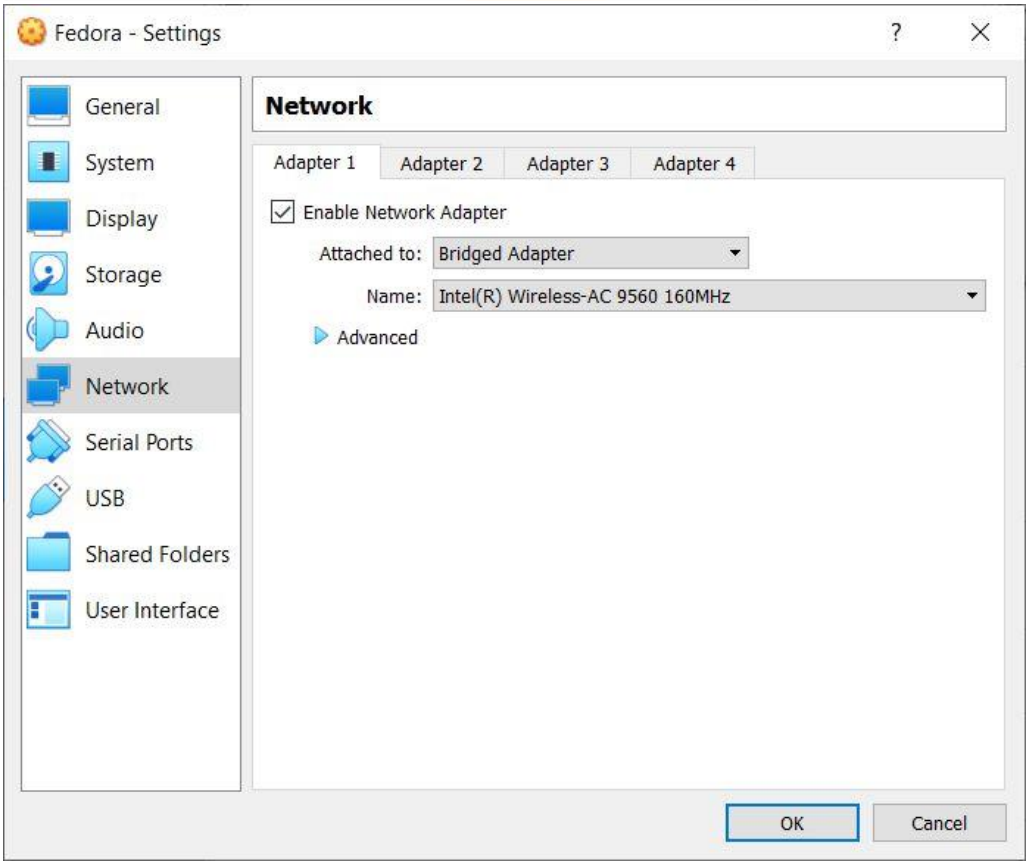

Create Virtual Machine
Memory size
Select the amount of memory (RAM) in megabytes to be allocated to the virtual machine.
The recommended memory size is 1024 MB.
8192
MB
4 MB
16384 MB
Next
Cancel

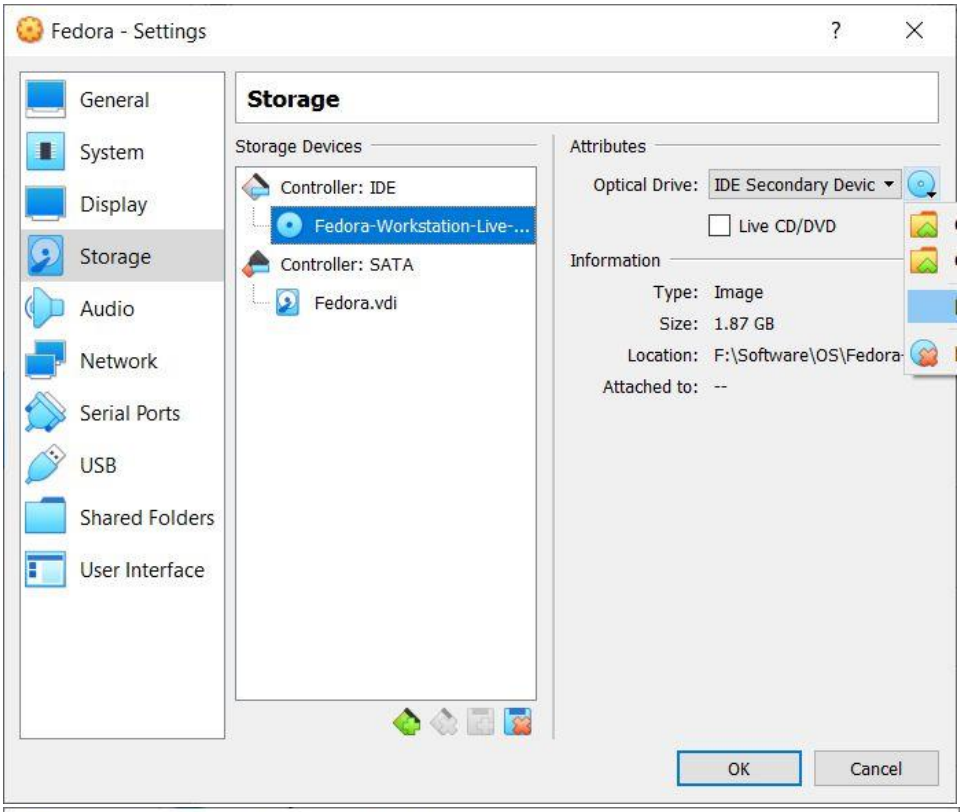

Create Virtual Machine
Hard disk
If you wish you can add a virtual hard disk to the new machine. You can either create a new hard disk file or select one from the list or from another location using the folder icon.
If you need a more complex storage set-up you can skip this step and make the changes to the machine settings once the machine is created.
The recommended size of the hard disk is 8.00 GB.
Do not add a virtual hard disk
Create a virtual hard disk now
Use an existing virtual hard disk file
Elementary51.vdi (Normal, 128.00 GB)
Create
Cancel

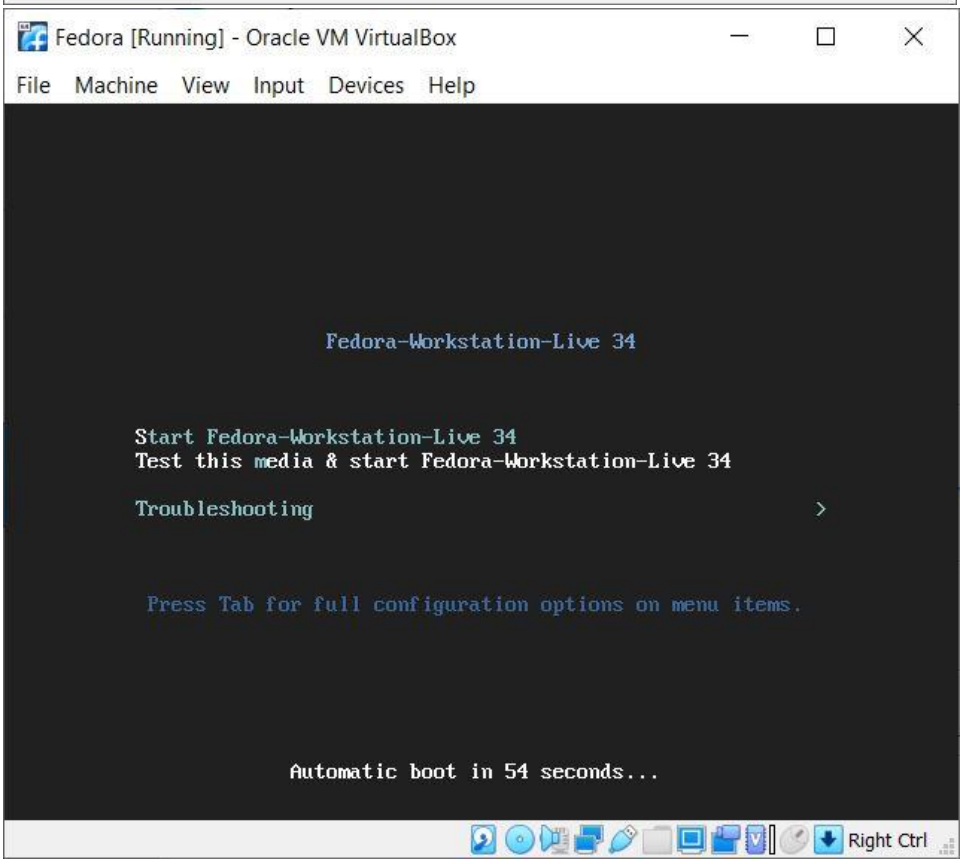

Create Virtual Hard Disk
Hard disk file type
Please choose the type of file that you would like to use for the new virtual hard disk. If you do not need to use it with other virtualization software you can leave this setting unchanged.
VDI (VirtualBox Disk Image)
VHD (Virtual Hard Disk)
VMDK (Virtual Machine Disk)
Expert Mode
Next
Cancel

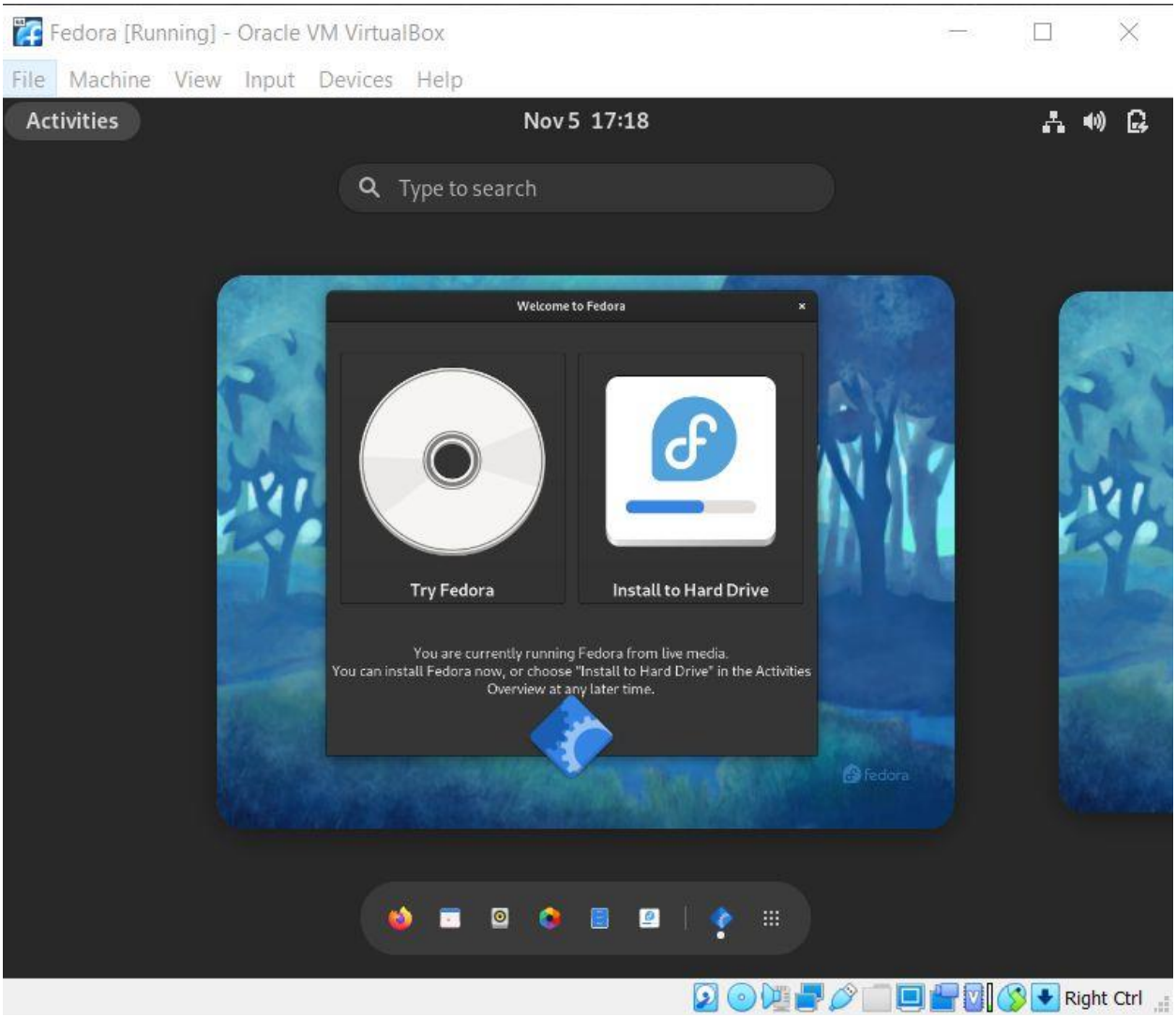

Create Virtual Hard Disk
Storage on physical hard disk
Please choose whether the new virtual hard disk file should grow as it is used (dynamically allocated) or if it should be created at its maximum size (fixed size).
A dynamically allocated hard disk file will only use space on your physical hard disk as it fills up (up to a maximum fixed size), although it will not shrink again automatically when space on it is freed.
A fixed size hard disk file may take longer to create on some systems but is often faster to use.
Dynamically allocated
Fixed size
Next
Cancel

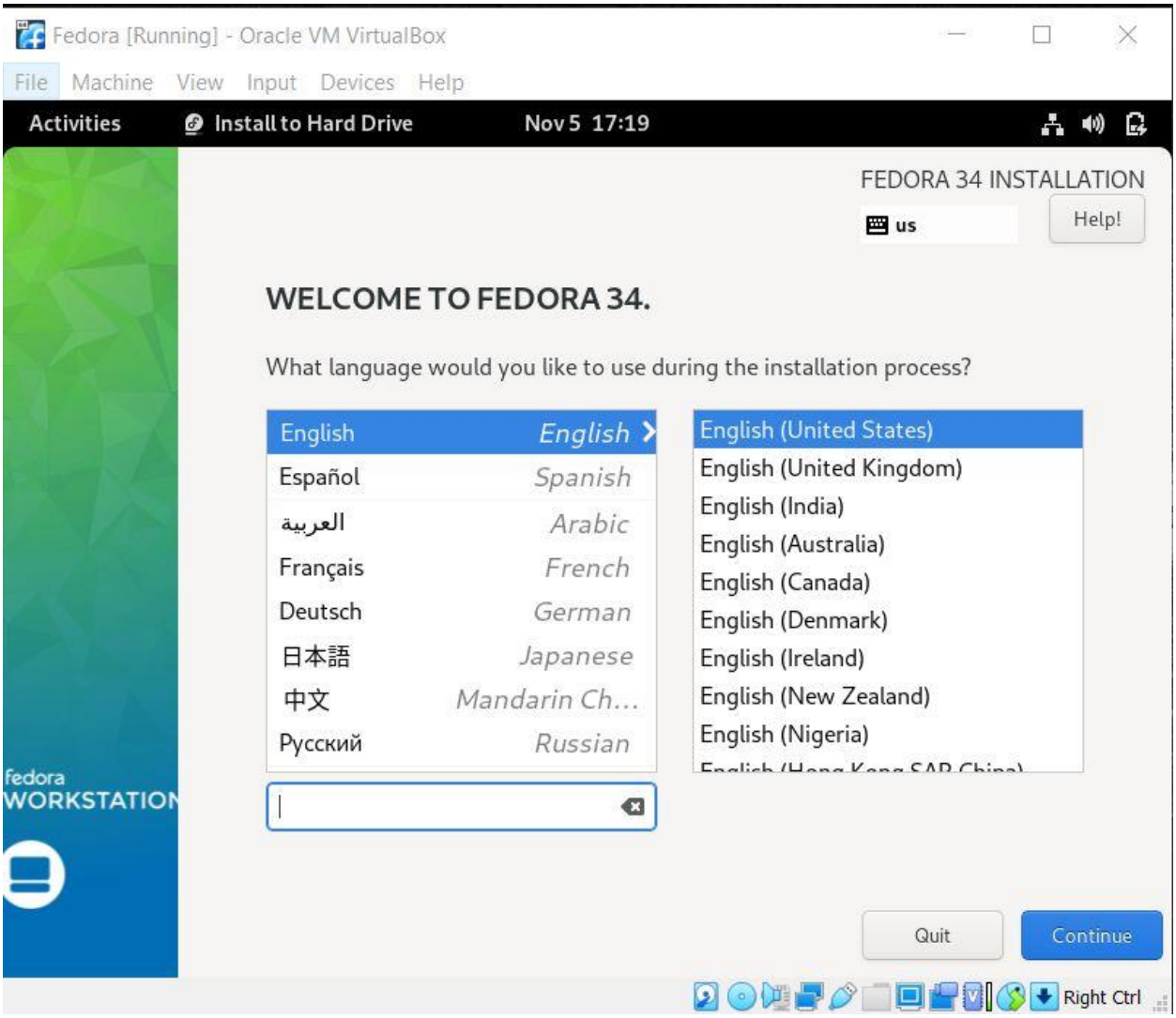

Create Virtual Hard Disk
File location and size
Please type the name of the new virtual hard disk file into the box below or click on the folder icon to select a different folder to create the file in.
D:\VMs\Fedora\Fedora.vdi
Select the size of the virtual hard disk in megabytes. This size is the limit on the amount of file data that a virtual machine will be able to store on the hard disk.
128 GB
4.00 MB
2.00 TB
Create
Cancel

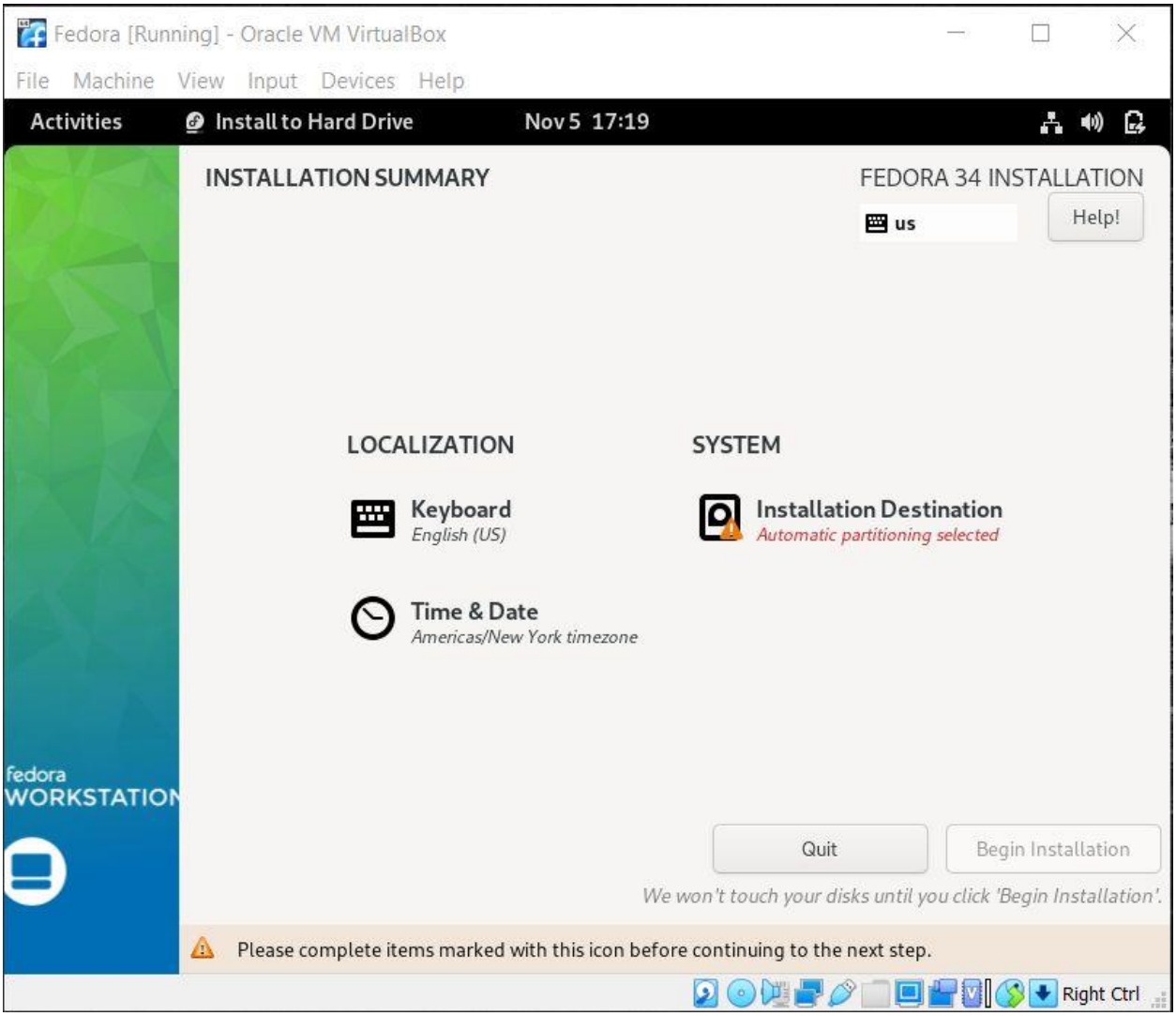

Fedora - Settings
General
System
Display
Storage
Audio
Network
Serial Ports
USB
Shared Folders
User Interface
Network
Adapter 1
Adapter 2
Adapter 3
Adapter 4
Enable Network Adapter
Attached to: Bridged Adapter
Name: Intel(R) Wireless-AC 9560 160MHz
Advanced
OK
Cancel

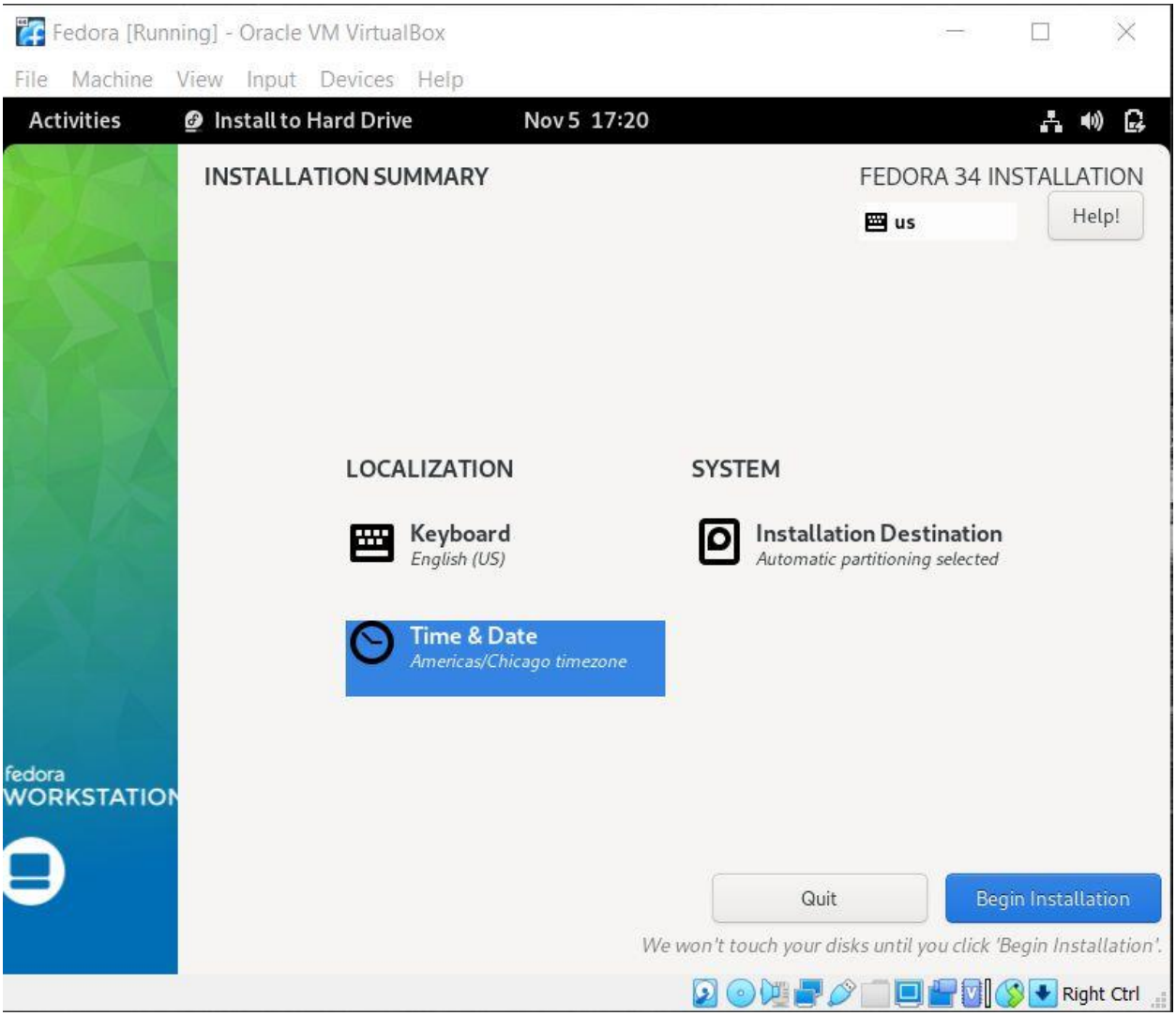

Fedora - Settings
General
System
Display
Storage
Audio
Network
Serial Ports
USB
Shared Folders
User Interface
Storage
Storage Devices
Controller: IDE
Fedora-Workstation-Live-...
Controller: SATA
Fedora.vdi
Attributes
Optical Drive:
IDE Secondary Devic
Live CD/DVD
Information
Type: Image
Size: 1.87 GB
Location: F:\Software\OS\Fedora
Attached to: --
OK
Cancel

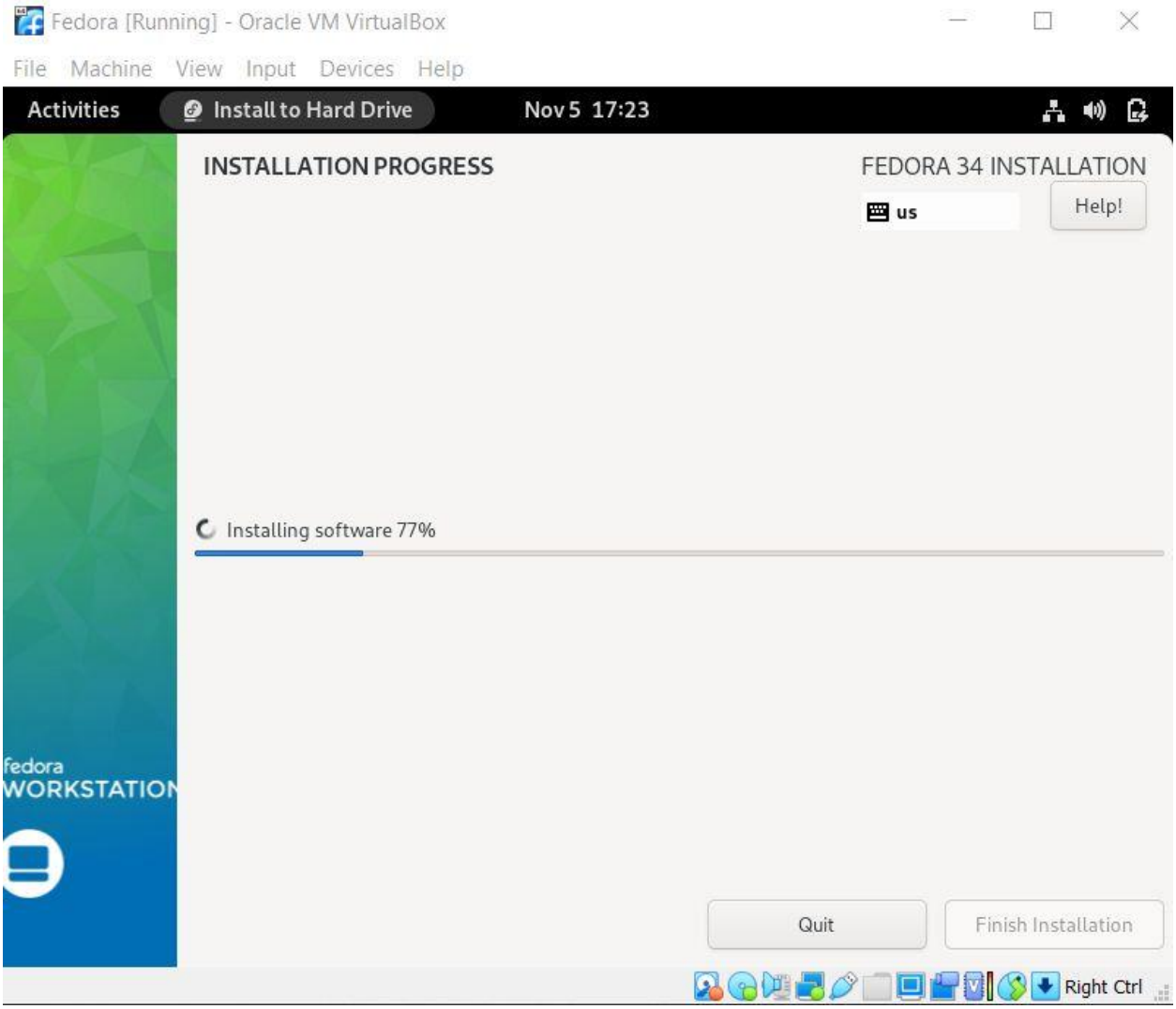

Fedora [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Fedora-Workstation-Live 34
Start Fedora-Workstation-Live 34
Test this media & start Fedora-Workstation-Live 34
Troubleshooting
Press Tab for full configuration options on menu items.
Automatic boot in 54 seconds...
Right Ctrl

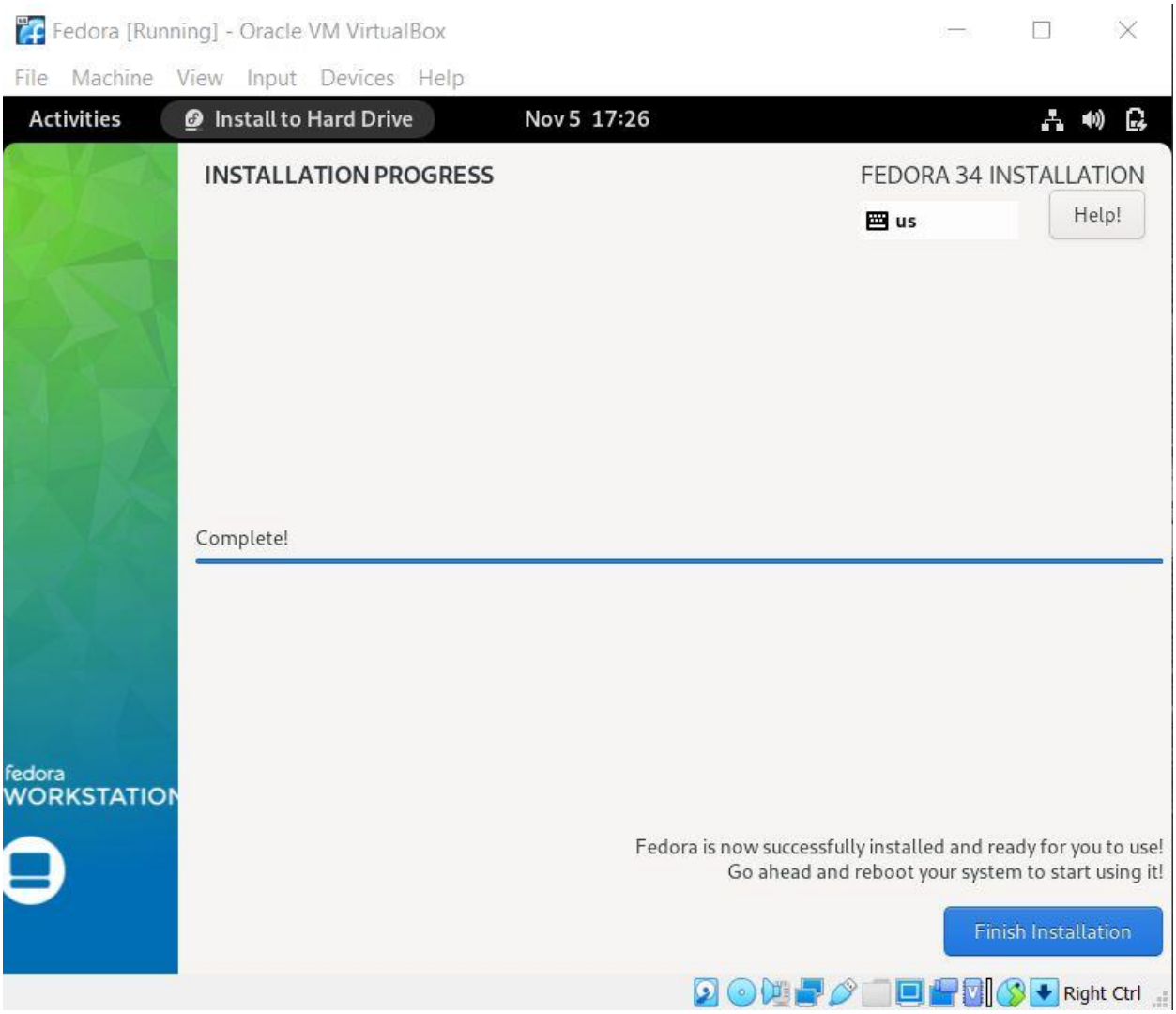

Fedora [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities
Nov 5 17:18
Type to search
Welcome to Fedora
Try Fedora
Install to Hard Drive
You are currently running Fedora from live media.
You can install Fedora now, or choose "Install to Hard Drive" in the Activities Overview at any later time.
Right Ctrl

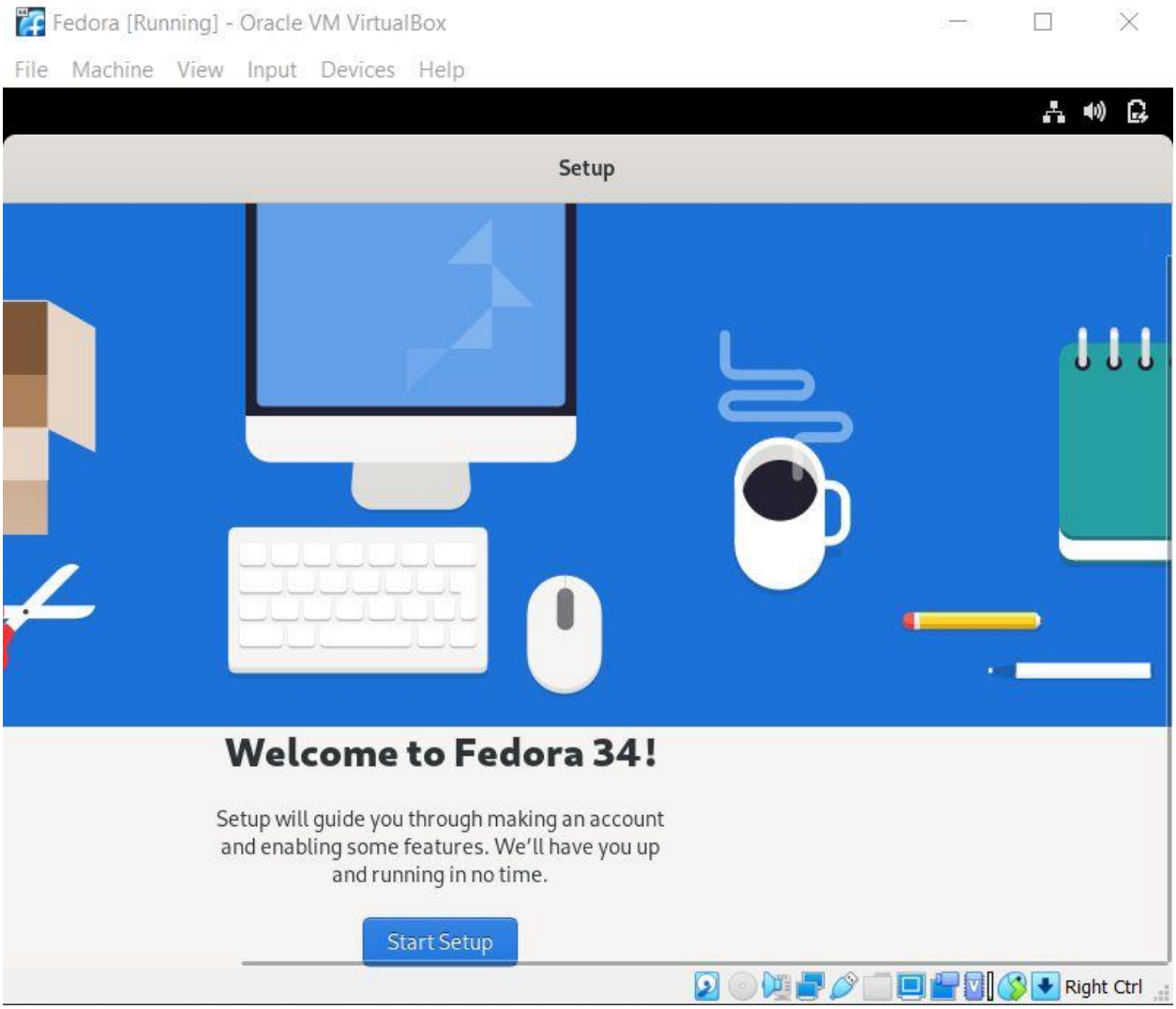

Fedora [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities
Install to Hard Drive
Nov 5 17:19
FEDORA 34 INSTALLATION
us
Help!
WELCOME TO FEDORA 34.
What language would you like to use during the installation process?
English English
Español Spanish
العربية Arabic
Français French
Deutsch German
日本語 Japanese
中文 Mandarin Ch...
Русский Russian
English (United States)
English (United Kingdom)
English (India)
English (Australia)
English (Canada)
English (Denmark)
English (Ireland)
English (New Zealand)
English (Nigeria)
fedora
WORKSTATION
Quit
Continue
Right Ctrl

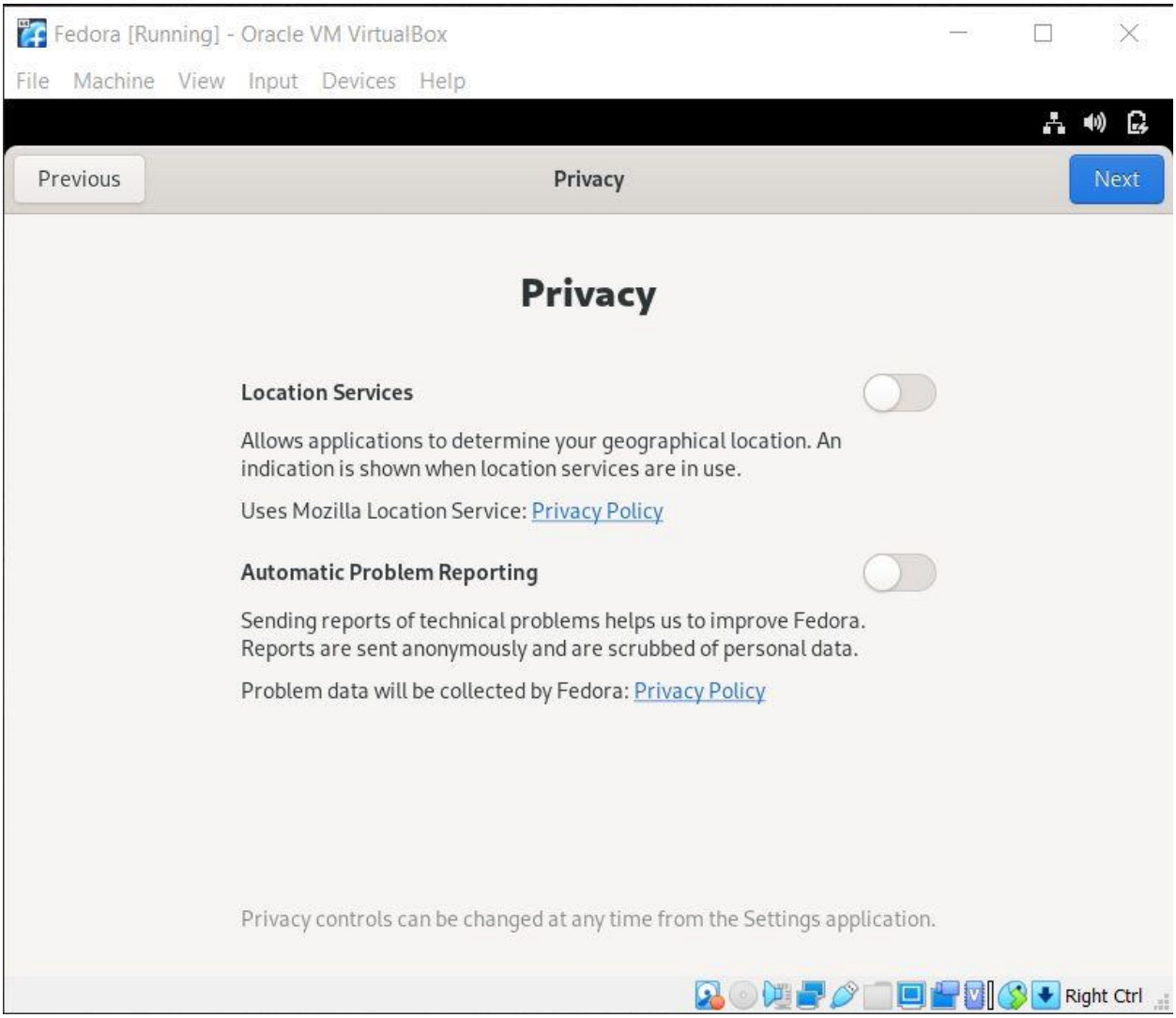

Fedora [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities
Install to Hard Drive
Nov 5 17:19
INSTALLATION SUMMARY
FEDORA 34 INSTALLATION
us
Help!
LOCALIZATION
Keyboard
English (US)
Time & Date
Americas/New York timezone
SYSTEM
Installation Destination
Automatic partitioning selected
fedora
WORKSTATION
Quit
Begin Installation
We won't touch your disks until you click 'Begin Installation'.
Please complete items marked with this icon before continuing to the next step.
Right Ctrl

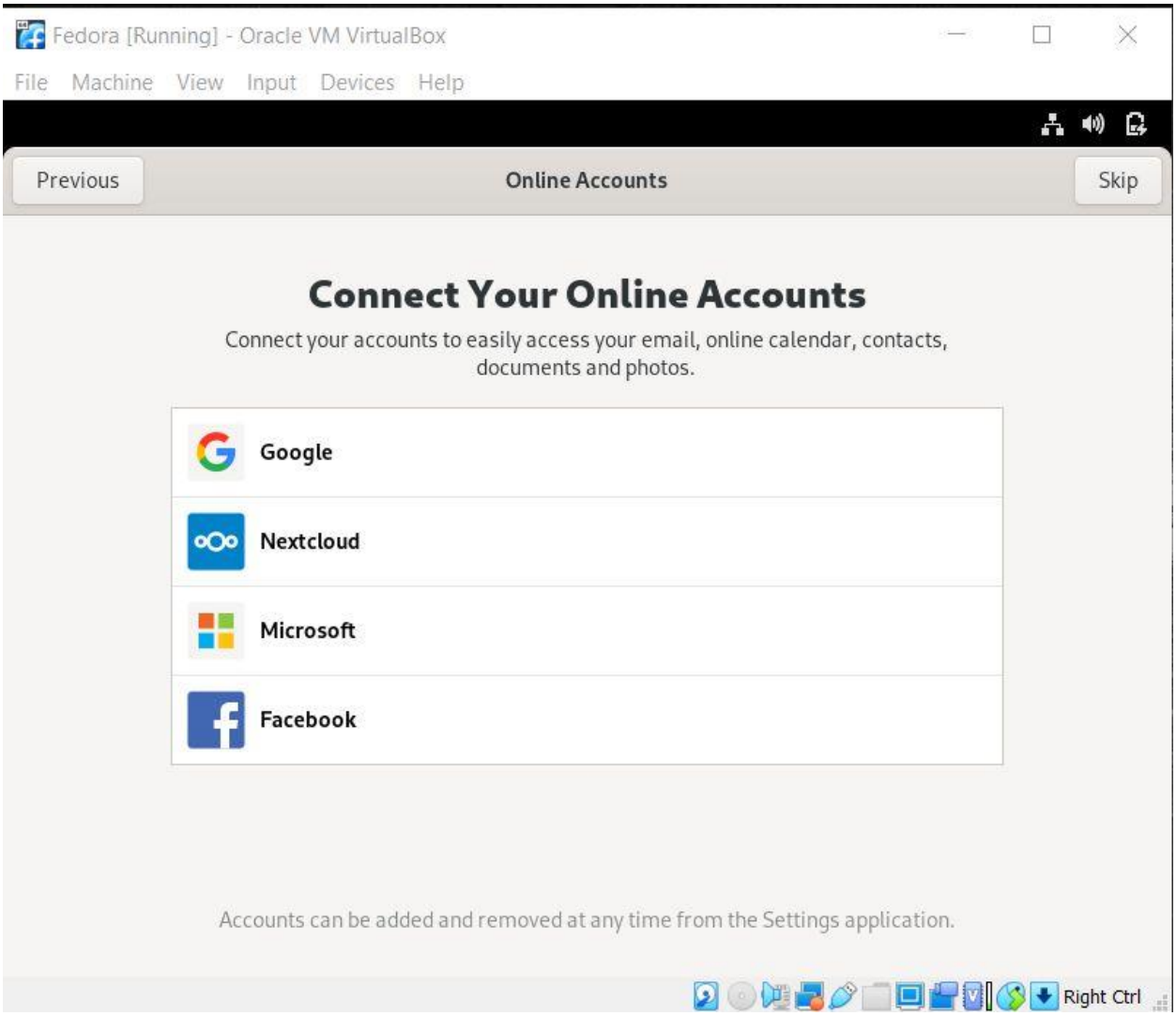

Fedora [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities
Install to Hard Drive
Nov 5 17:20
INSTALLATION SUMMARY
FEDORA 34 INSTALLATION
us
Help!
LOCALIZATION
Keyboard
English (US)
Time & Date
Americas/Chicago timezone
SYSTEM
Installation Destination
Automatic partitioning selected
fedora
WORKSTATION
Quit
Begin Installation
We won't touch your disks until you click 'Begin Installation'.
Right Ctrl

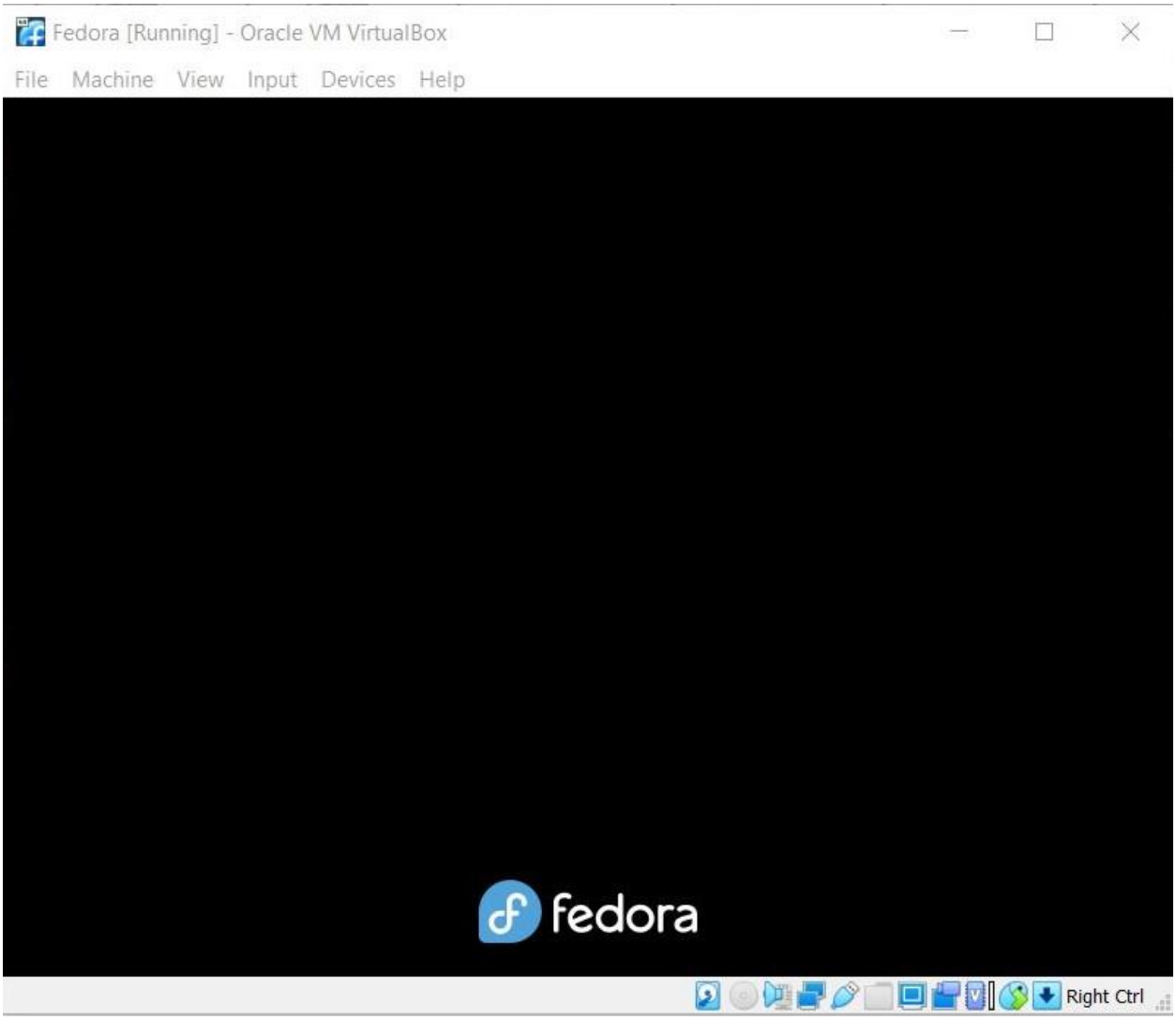

Fedora [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities
Install to Hard Drive
Nov 5 17:23
INSTALLATION PROGRESS
FEDORA 34 INSTALLATION
us
Help!
Installing software 77%
fedora
WORKSTATION
Quit
Finish Installation
Right Ctrl

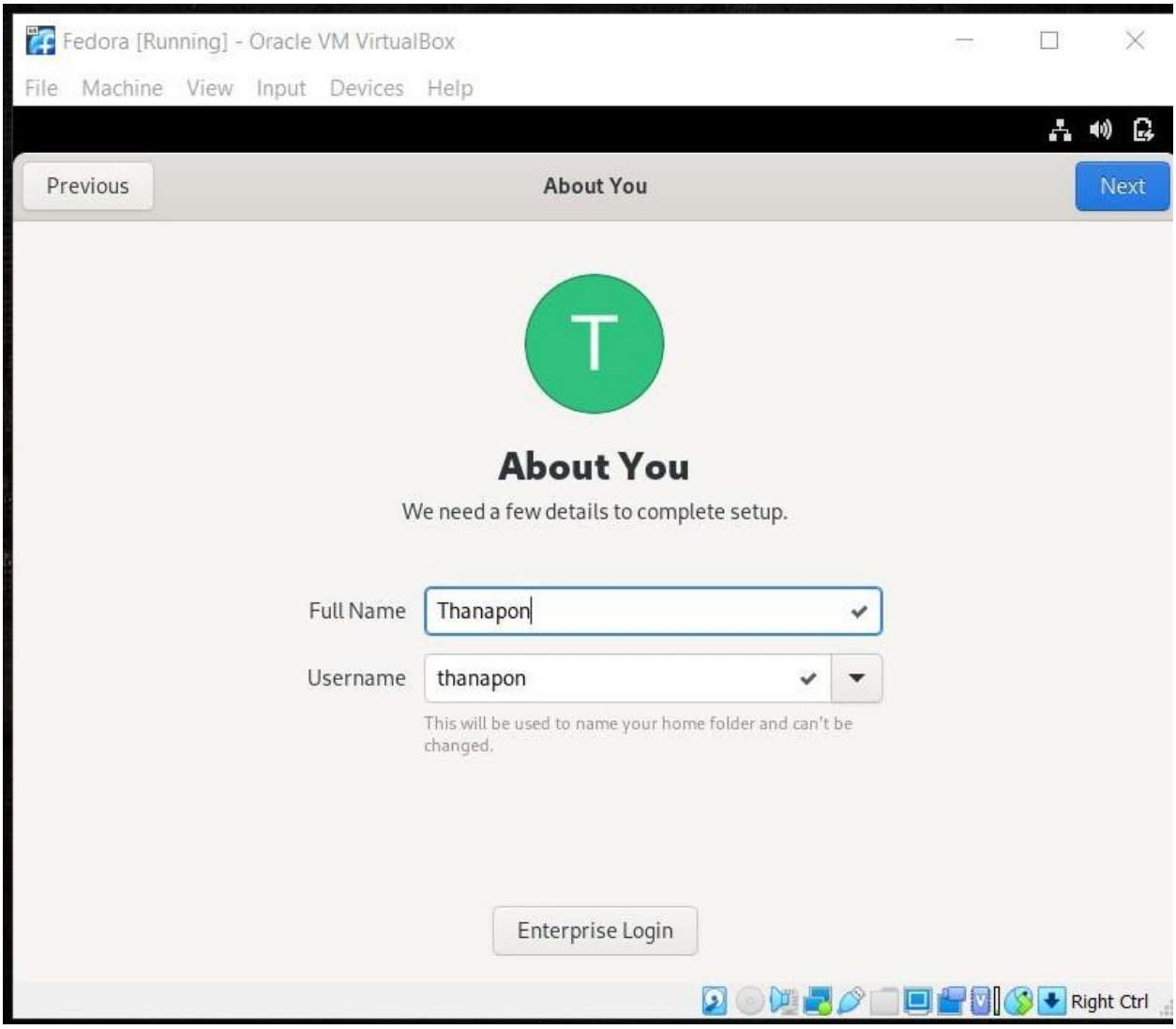

Fedora [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities
Install to Hard Drive
Nov 5 17:26
INSTALLATION PROGRESS
FEDORA 34 INSTALLATION
us
Help!
Complete!
fedora
WORKSTATION
Fedora is now successfully installed and ready for you to use!
Go ahead and reboot your system to start using it!
Finish Installation
Right Ctrl

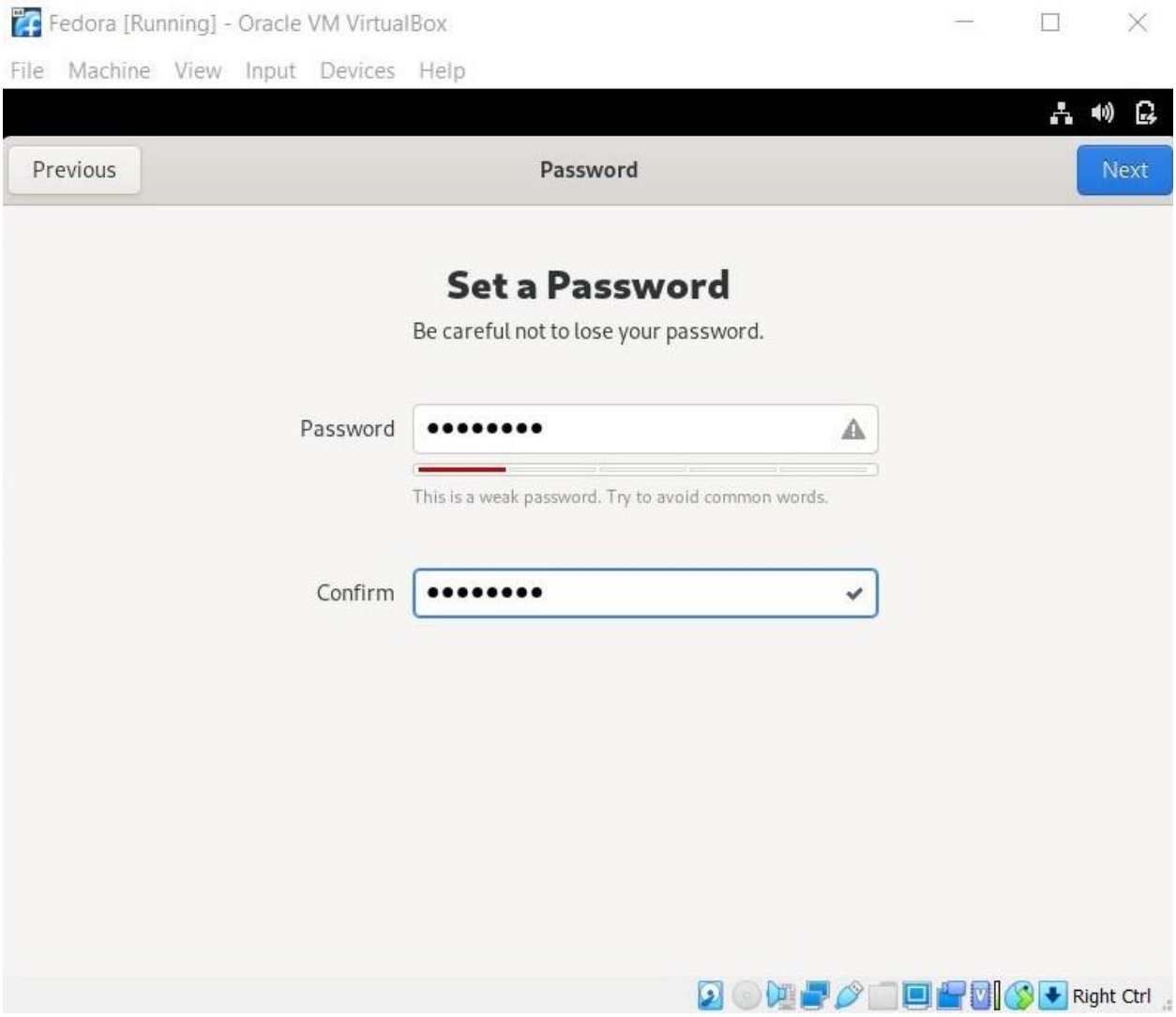

Fedora [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Setup
Welcome to Fedora 34!
Setup will guide you through making an account and enabling some features. We'll have you up and running in no time.
Start Setup
Right Ctrl

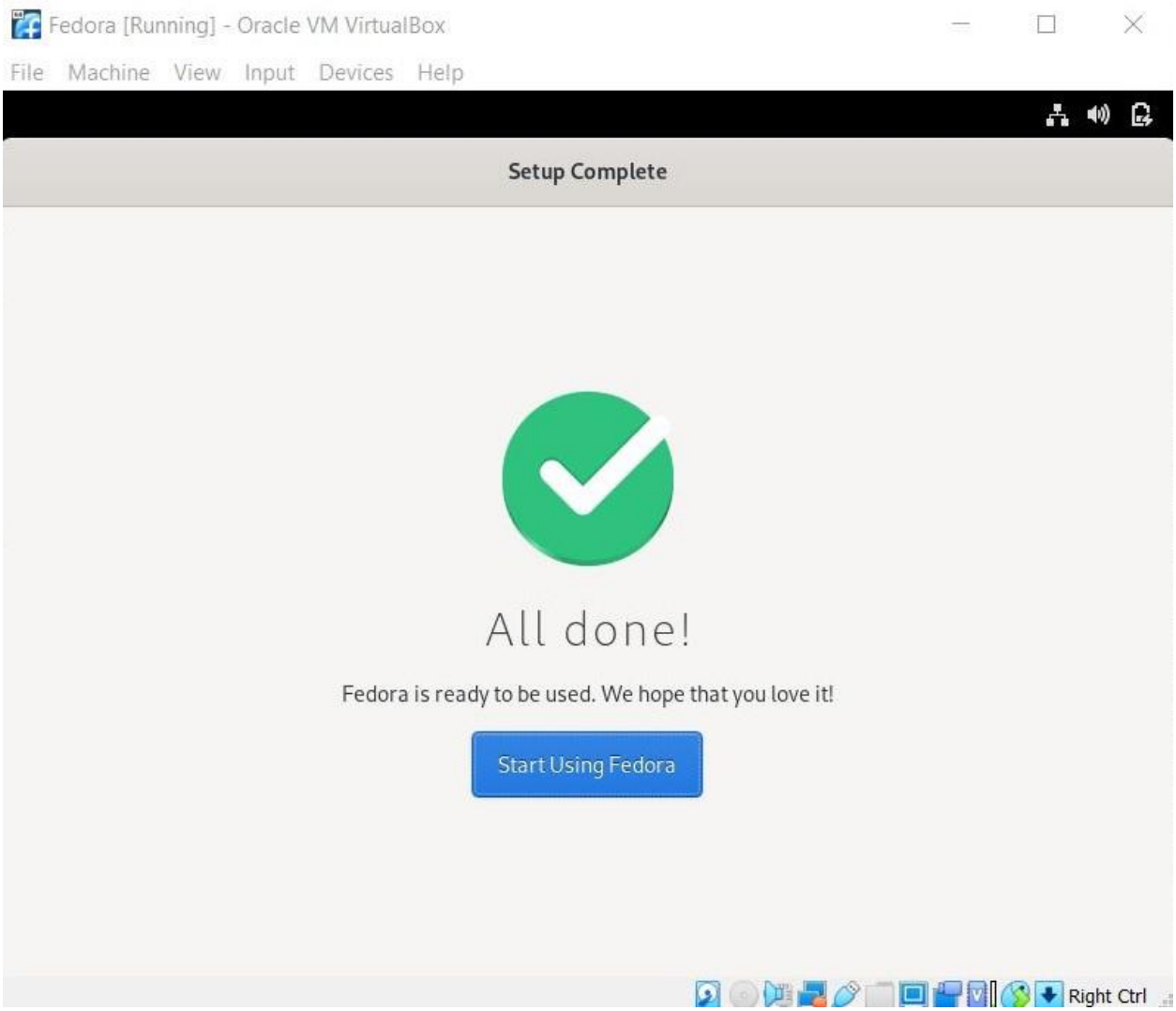

Fedora [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Previous
Privacy
Next
Privacy
Location Services
Allows applications to determine your geographical location. An indication is shown when location services are in use.
Uses Mozilla Location Service: Privacy Policy
Automatic Problem Reporting
Sending reports of technical problems helps us to improve Fedora. Reports are sent anonymously and are scrubbed of personal data.
Problem data will be collected by Fedora: Privacy Policy
Privacy controls can be changed at any time from the Settings application.
Right Ctrl

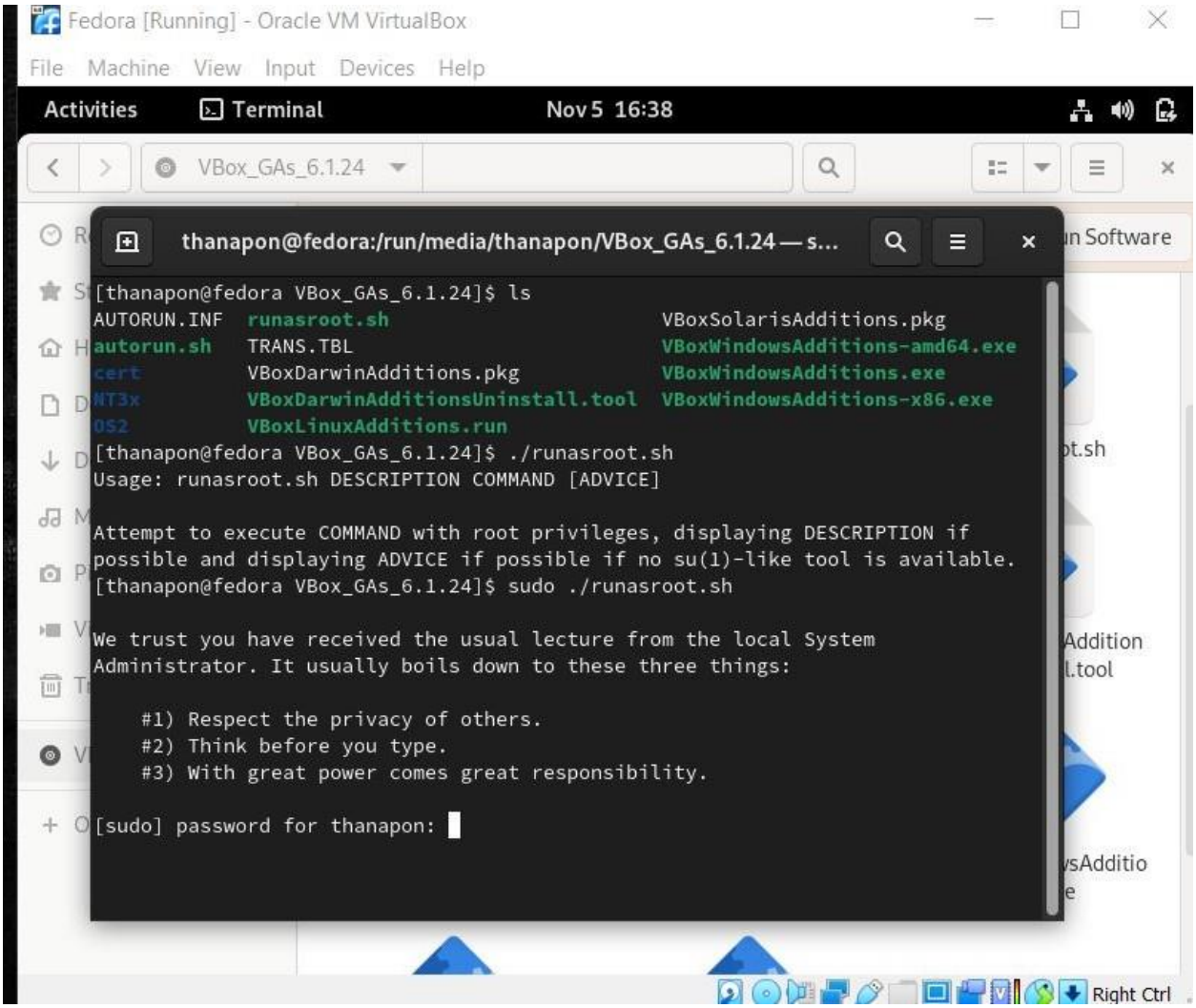

Fedora [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Previous
Online Accounts
Skip
Connect Your Online Accounts
Connect your accounts to easily access your email, online calendar, contacts, documents and photos.
Google
Nextcloud
Microsoft
Facebook
Accounts can be added and removed at any time from the Settings application.
Right Ctrl

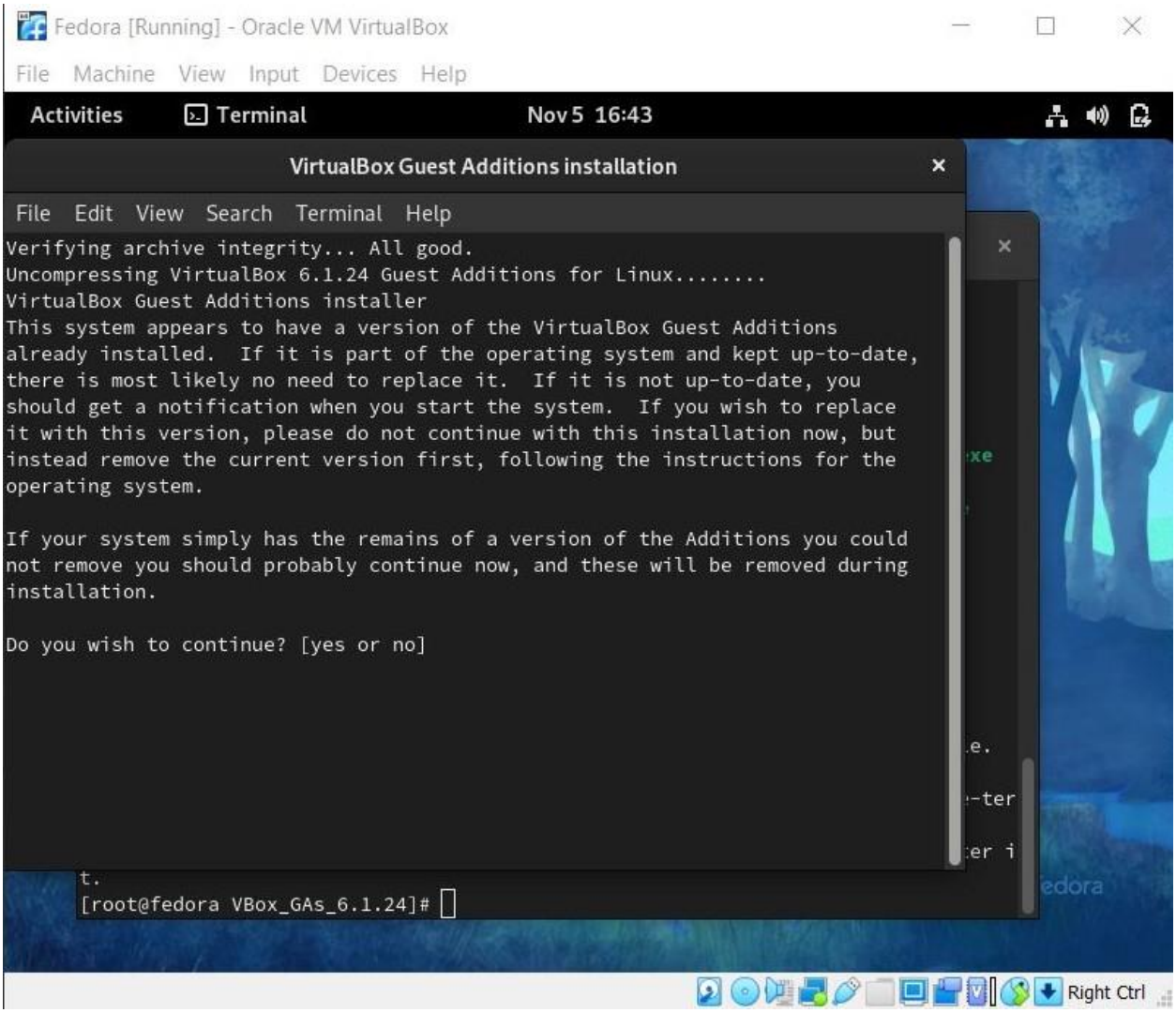

Fedora [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
fedora
Right Ctrl

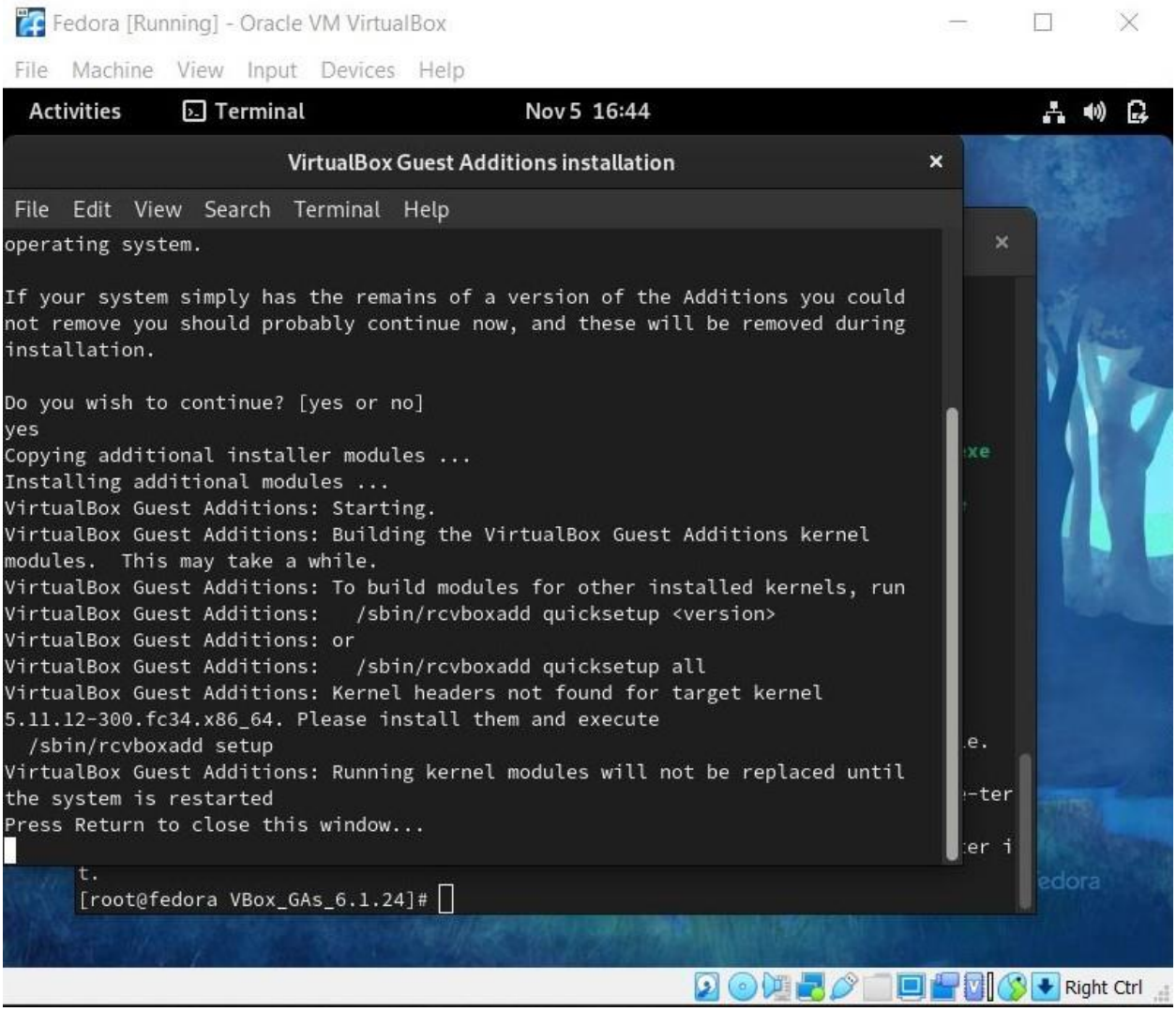

Fedora [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Previous
About You
Next
T
About You
We need a few details to complete setup.
Full Name
Thanapon
Username
thanapon
This will be used to name your home folder and can't be changed.
Enterprise Login
Right Ctrl

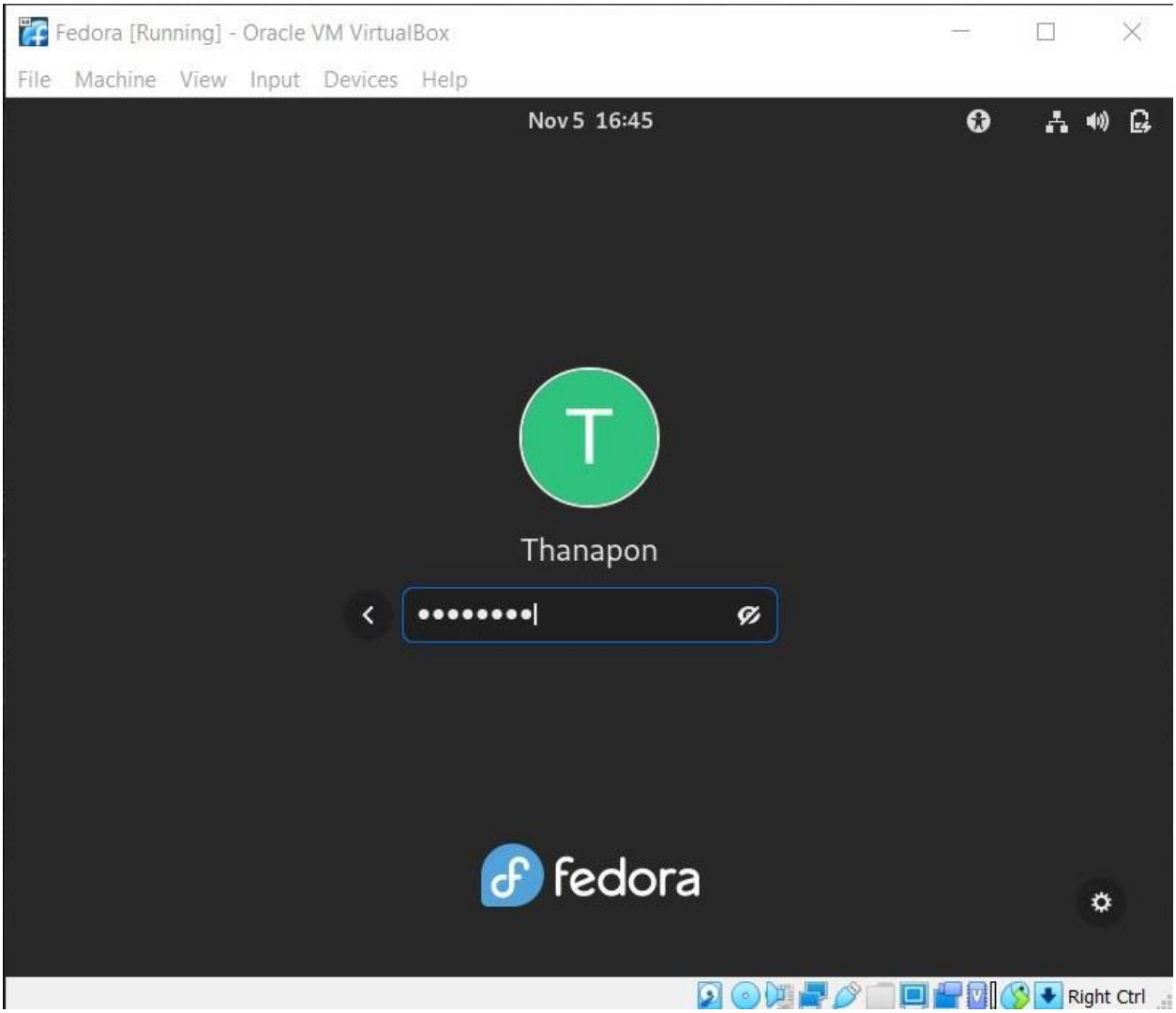

Fedora [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Previous
Password
Next
Set a Password
Be careful not to lose your password.
Password
This is a weak password. Try to avoid common words.
Confirm
Right Ctrl

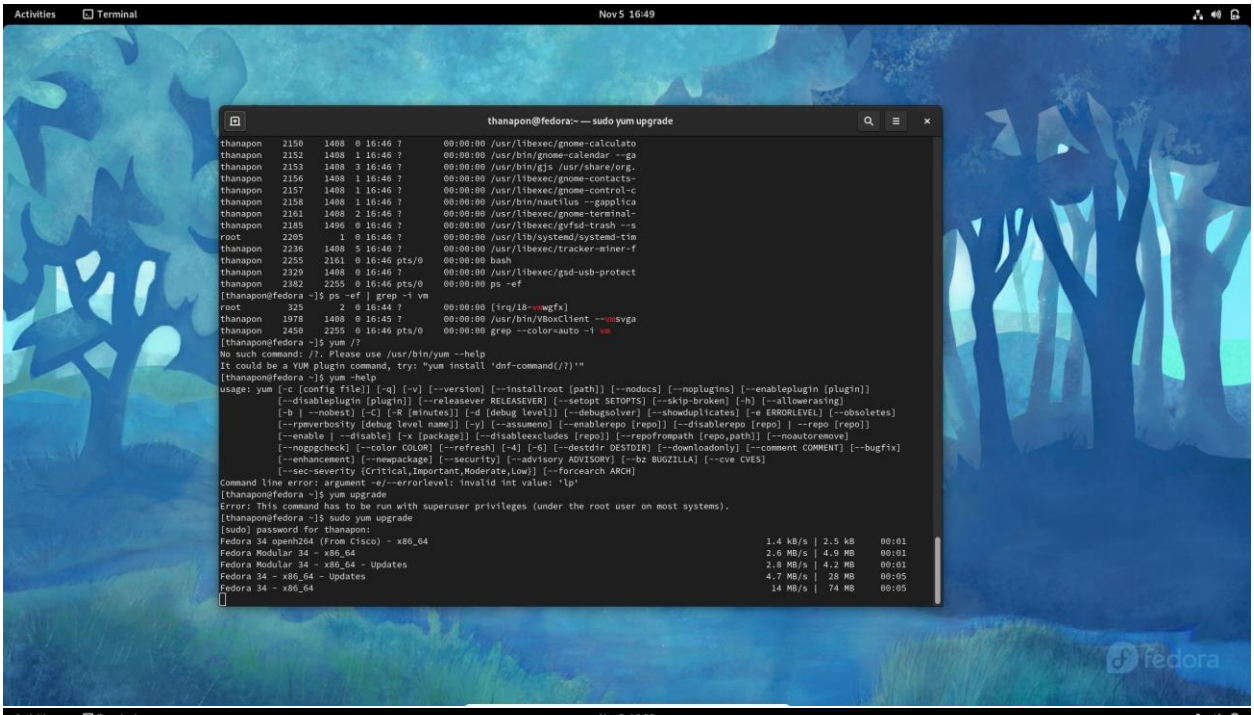

Fedora [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Setup Complete
All done!
Fedora is ready to be used. We hope that you love it!
Start Using Fedora
Right Ctrl

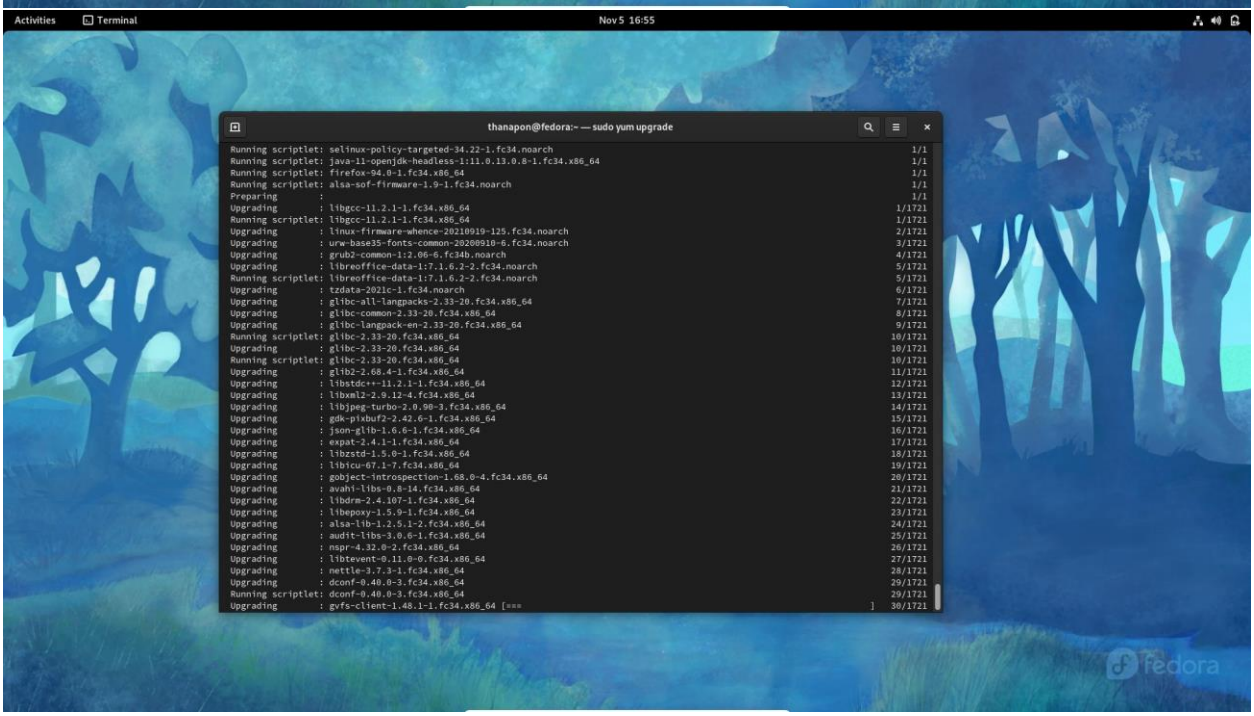

Fedora [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities
Terminal
Nov 5 16:38
VBox_GAs_6.1.24
thanapon@fedora:/run/media/thanapon/VBox_GAs_6.1.24 — s...
[thanapon@fedora VBox_GAs_6.1.24]$ ls
AUTORUN.INF runasroot.sh VBoxSolarisAdditions.pkg
autorun.sh TRANS.TBL VBoxWindowsAdditions-amd64.exe
cert VBoxDarwinAdditions.pkg VBoxWindowsAdditions.exe
NT3x VBoxDarwinAdditionsUninstall.tool VBoxWindowsAdditions-x86.exe
OS2 VBoxLinuxAdditions.run
[thanapon@fedora VBox_GAs_6.1.24]$ ./runasroot.sh
Usage: runasroot.sh DESCRIPTION COMMAND [ADVICE]
Attempt to execute COMMAND with root privileges, displaying DESCRIPTION if possible and displaying ADVICE if possible if no su(1)-like tool is available.
[thanapon@fedora VBox_GAs_6.1.24]$ sudo ./runasroot.sh
We trust you have received the usual lecture from the local System Administrator. It usually boils down to these three things:
#1) Respect the privacy of others.
#2) Think before you type.
#3) With great power comes great responsibility.
[sudo] password for thanapon:
Right Ctrl

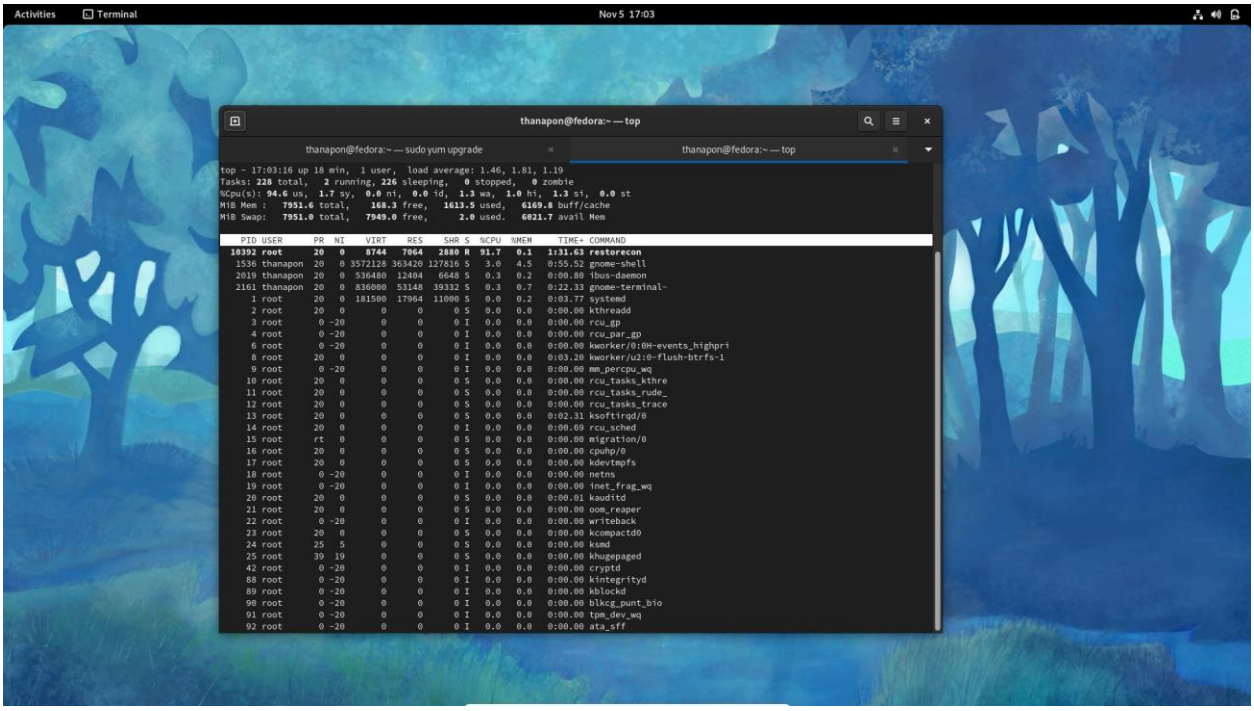

Fedora [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities
Terminal
Nov 5 16:43
VirtualBox Guest Additions installation
File Edit View Search Terminal Help
Verifying archive integrity... All good.
Uncompressing VirtualBox 6.1.24 Guest Additions for Linux........
VirtualBox Guest Additions installer
This system appears to have a version of the VirtualBox Guest Additions
already installed. If it is part of the operating system and kept up-to-date,
there is most likely no need to replace it. If it is not up-to-date, you
should get a notification when you start the system. If you wish to replace
it with this version, please do not continue with this installation now, but
instead remove the current version first, following the instructions for the
operating system.
If your system simply has the remains of a version of the Additions you could
not remove you should probably continue now, and these will be removed during
installation.
Do you wish to continue? [yes or no]
t.
[root@fedora VBox_GAs_6.1.24]#
Right Ctrl


Fedora [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities
Terminal
Nov 5 16:44
VirtualBox Guest Additions installation
File Edit View Search Terminal Help
operating system.
If your system simply has the remains of a version of the Additions you could not remove you should probably continue now, and these will be removed during installation.
Do you wish to continue? [yes or no]
yes
Copying additional installer modules ...
Installing additional modules ...
VirtualBox Guest Additions: Starting.
VirtualBox Guest Additions: Building the VirtualBox Guest Additions kernel modules. This may take a while.
VirtualBox Guest Additions: To build modules for other installed kernels, run
VirtualBox Guest Additions: /sbin/rcvboxadd quicksetup <version>
VirtualBox Guest Additions: or
VirtualBox Guest Additions: /sbin/rcvboxadd quicksetup all
VirtualBox Guest Additions: Kernel headers not found for target kernel 5.11.12-300.fc34.x86_64. Please install them and execute
/sbin/rcvboxadd setup
VirtualBox Guest Additions: Running kernel modules will not be replaced until the system is restarted
Press Return to close this window...
t.
[root@fedora VBox_GAs_6.1.24]#
Right Ctrl


Fedora [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Nov 5 16:45
T
Thanapon
fedora
Right Ctrl


Activities
Terminal
Nov 5 16:49
thanapon@fedora:~ — sudo yum upgrade
thanapon 2150 1408 0 16:46 ? 00:00:00 /usr/libexec/gnome-calculato
thanapon 2152 1408 1 16:46 ? 00:00:00 /usr/bin/gnome-calendar --ga
thanapon 2153 1408 3 16:46 ? 00:00:00 /usr/bin/gjs /usr/share/org.
thanapon 2156 1408 1 16:46 ? 00:00:00 /usr/libexec/gnome-contacts-
thanapon 2157 1408 1 16:46 ? 00:00:00 /usr/libexec/gnome-control-c
thanapon 2158 1408 1 16:46 ? 00:00:00 /usr/bin/nautilus --gapplica
thanapon 2161 1408 2 16:46 ? 00:00:00 /usr/libexec/gnome-terminal-
thanapon 2185 1496 0 16:46 ? 00:00:00 /usr/libexec/gvfsd-trash --s
root 2205 1 0 16:46 ? 00:00:00 /usr/lib/systemd/systemd-tim
thanapon 2236 1408 5 16:46 ? 00:00:00 /usr/libexec/tracker-miner-f
thanapon 2255 2161 0 16:46 pts/0 00:00:00 bash
thanapon 2329 1408 0 16:46 ? 00:00:00 /usr/libexec/gsd-usb-protect
thanapon 2382 2255 0 16:46 pts/0 00:00:00 ps -ef
[thanapon@fedora ~]$ ps -ef | grep -i vm
root 325 2 0 16:44 ? 00:00:00 [irq/18-vmwgfx]
thanapon 1978 1408 0 16:45 ? 00:00:00 /usr/bin/VBoxClient --vmsvga
thanapon 2450 2255 0 16:46 pts/0 00:00:00 grep --color=auto -i vm
[thanapon@fedora ~]$ yum /?
No such command: /?. Please use /usr/bin/yum --help
It could be a YUM plugin command, try: "yum install 'dnf-command(/?)'"
[thanapon@fedora ~]$ yum -help
usage: yum [-c [config file]] [-q] [-v] [--version] [--installroot [path]] [--nodocs] [--noplugins] [--enableplugin [plugin]]
[--disableplugin [plugin]] [--releasever RELEASEVER] [--setopt SETOPTS] [--skip-broken] [-h] [--allowerasing]
[-b | --nobest] [-C] [-R [minutes]] [-d [debug level]] [--debugsolver] [--showduplicates] [-e ERRORLEVEL] [--obsoletes]
[--rpmverbosity [debug level name]] [-y] [--assumeno] [--enablerepo [repo]] [--disablerepo [repo] | --repo [repo]]
[--enable | --disable] [-x [package]] [--disableexcludes [repo]] [--repofrompath [repo,path]] [--noautoremove]
[--nogpgcheck] [--color COLOR] [--refresh] [-4] [-6] [--destdir DESTDIR] [--downloadonly] [--comment COMMENT] [--bugfix]
[--enhancement] [--newpackage] [--security] [--advisory ADVISORY] [--bz BUGZILLA] [--cve CVES]
[--sec-severity {Critical,Important,Moderate,Low}] [--forcearch ARCH]
Command line error: argument -e/--errorlevel: invalid int value: 'lp'
[thanapon@fedora ~]$ yum upgrade
Error: This command has to be run with superuser privileges (under the root user on most systems).
[thanapon@fedora ~]$ sudo yum upgrade
[sudo] password for thanapon:
Fedora 34 openh264 (From Cisco) - x86_64 1.4 kB/s | 2.5 kB 00:01
Fedora Modular 34 - x86_64 2.6 MB/s | 4.9 MB 00:01
Fedora Modular 34 - x86_64 - Updates 2.8 MB/s | 4.2 MB 00:01
Fedora 34 - x86_64 - Updates 4.7 MB/s | 28 MB 00:05
Fedora 34 - x86_64 14 MB/s | 74 MB 00:05
fedora


Activities
Terminal
Nov 5 16:55
thanapon@fedora:~ — sudo yum upgrade
Running scriptlet: selinux-policy-targeted-34.22-1.fc34.noarch 1/1
Running scriptlet: java-11-openjdk-headless-1:11.0.13.0.8-1.fc34.x86_64 1/1
Running scriptlet: firefox-94.0-1.fc34.x86_64 1/1
Running scriptlet: alsa-sof-firmware-1.9-1.fc34.noarch 1/1
Preparing : 1/1
Upgrading : libgcc-11.2.1-1.fc34.x86_64 1/1721
Running scriptlet: libgcc-11.2.1-1.fc34.x86_64 1/1721
Upgrading : linux-firmware-whence-20210919-125.fc34.noarch 2/1721
Upgrading : urw-base35-fonts-common-20200910-6.fc34.noarch 3/1721
Upgrading : grub2-common-1:2.06-6.fc34b.noarch 4/1721
Upgrading : libreoffice-data-1:7.1.6.2-2.fc34.noarch 5/1721
Running scriptlet: libreoffice-data-1:7.1.6.2-2.fc34.noarch 5/1721
Upgrading : tzdata-2021c-1.fc34.noarch 6/1721
Upgrading : glibc-all-langpacks-2.33-20.fc34.x86_64 7/1721
Upgrading : glibc-common-2.33-20.fc34.x86_64 8/1721
Upgrading : glibc-langpack-en-2.33-20.fc34.x86_64 9/1721
Running scriptlet: glibc-2.33-20.fc34.x86_64 10/1721
Upgrading : glibc-2.33-20.fc34.x86_64 10/1721
Running scriptlet: glibc-2.33-20.fc34.x86_64 10/1721
Upgrading : glib2-2.68.4-1.fc34.x86_64 11/1721
Upgrading : libstdc++-11.2.1-1.fc34.x86_64 12/1721
Upgrading : libxml2-2.9.12-4.fc34.x86_64 13/1721
Upgrading : libjpeg-turbo-2.0.90-3.fc34.x86_64 14/1721
Upgrading : gdk-pixbuf2-2.42.6-1.fc34.x86_64 15/1721
Upgrading : json-glib-1.6.6-1.fc34.x86_64 16/1721
Upgrading : expat-2.4.1-1.fc34.x86_64 17/1721
Upgrading : libzstd-1.5.0-1.fc34.x86_64 18/1721
Upgrading : libicu-67.1-7.fc34.x86_64 19/1721
Upgrading : gobject-introspection-1.68.0-4.fc34.x86_64 20/1721
Upgrading : avahi-libs-0.8-14.fc34.x86_64 21/1721
Upgrading : libdnf-2.4.107-1.fc34.x86_64 22/1721
Upgrading : libepoxy-1.5.9-1.fc34.x86_64 23/1721
Upgrading : alsa-lib-1.2.5.1-2.fc34.x86_64 24/1721
Upgrading : audit-libs-3.0.6-1.fc34.x86_64 25/1721
Upgrading : nspr-4.32.0-2.fc34.x86_64 26/1721
Upgrading : libtevent-0.11.0-0.fc34.x86_64 27/1721
Upgrading : nettle-3.7.3-1.fc34.x86_64 28/1721
Upgrading : dconf-0.40.0-3.fc34.x86_64 29/1721
Running scriptlet: dconf-0.40.0-3.fc34.x86_64 29/1721
Upgrading : gvfs-client-1.48.1-1.fc34.x86_64 [===] 30/1721
fedora


Activities
Terminal
Nov 5 17:03
thanapon@fedora:~ — top
thanapon@fedora:~ — sudo yum upgrade
thanapon@fedora:~ — top
top - 17:03:16 up 18 min, 1 user, load average: 1.46, 1.81, 1.19
Tasks: 228 total, 2 running, 226 sleeping, 0 stopped, 0 zombie
%Cpu(s): 94.6 us, 1.7 sy, 0.0 ni, 0.0 id, 1.3 wa, 1.0 hi, 1.3 si, 0.0 st
MiB Mem : 7951.6 total, 168.3 free, 1613.5 used, 6169.8 buff/cache
MiB Swap: 7951.0 total, 7949.0 free, 2.0 used. 6021.7 avail Mem
PID USER PR NI VIRT RES SHR S %CPU %MEM TIME+ COMMAND
10392 root 20 0 8744 7064 2880 R 91.7 0.1 1:31.63 restorecon
1536 thanapon 20 0 3572128 363420 127816 S 3.0 4.5 0:55.52 gnome-shell
2019 thanapon 20 0 536480 12404 6648 S 0.3 0.2 0:00.86 ibus-daemon
2161 thanapon 20 0 836000 53148 39332 S 0.3 0.7 0:22.13 gnome-terminal-
1 root 20 0 181500 17964 11000 S 0.0 0.2 0:03.77 systemd
2 root 20 0 0 0 0 S 0.0 0.0 0:00.00 kthreadd
3 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 rcu_gp
4 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 rcu_par_gp
6 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 kworker/0:0H-events_highpri
8 root 20 0 0 0 0 I 0.0 0.0 0:03.20 kworker/u2:0-flush-btrfs-1
9 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 mm_percpu_wq
10 root 20 0 0 0 0 S 0.0 0.0 0:00.00 rcu_tasks_kthre
11 root 20 0 0 0 0 S 0.0 0.0 0:00.00 rcu_tasks_rude_
12 root 20 0 0 0 0 S 0.0 0.0 0:00.00 rcu_tasks_trace
13 root 20 0 0 0 0 S 0.0 0.0 0:02.31 ksoftirqd/0
14 root 20 0 0 0 0 I 0.0 0.0 0:00.60 rcu_sched
15 root rt 0 0 0 0 S 0.0 0.0 0:00.00 migration/0
16 root 20 0 0 0 0 S 0.0 0.0 0:00.00 cpuhp/0
17 root 20 0 0 0 0 S 0.0 0.0 0:00.00 kdevtmpfs
18 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 netns
19 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 inet_frag_wq
20 root 20 0 0 0 0 S 0.0 0.0 0:00.01 kauditd
21 root 20 0 0 0 0 S 0.0 0.0 0:00.00 oom_reaper
22 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 writeback
23 root 20 0 0 0 0 S 0.0 0.0 0:00.00 kcompactd0
24 root 25 5 0 0 0 S 0.0 0.0 0:00.00 ksmd
25 root 39 19 0 0 0 S 0.0 0.0 0:00.00 khugepaged
42 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 cryptd
88 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 kintegrityd
89 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 kblockd
90 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 blkcg_punt_bio
91 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 tpm_dev_wq
92 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 ata_sff