

7. haetaan devuan iso, sha256sums , sha256sums.asc sekä gpg4win.

Ensin mennään sivulle https://files.devuan.org/devuan_chimaera/installer-iso/ .

Devuan Release Archive

| File | Last Modified | Size |
|--|-------------------|------|
| README.txt | 14-Oct-2021 12:59 | 1837 |
| SHA256SUMS | 15-Feb-2022 02:26 | 1530 |
| SHA256SUMS.asc | 22-Oct-2022 14:03 | 488 |
| devuan_chimaera_4.0.0_amd64_cd2.iso | 12-Oct-2021 11:36 | 537M |
| devuan_chimaera_4.0.0_amd64_cd3.iso | 12-Oct-2021 11:44 | 572M |
| devuan_chimaera_4.0.0_amd64_cd4.iso | 12-Oct-2021 11:53 | 618M |
| devuan_chimaera_4.0.0_amd64_desktop.iso | 12-Oct-2021 11:28 | 3G |
| devuan_chimaera_4.0.0_amd64_netinstall.iso | 12-Oct-2021 10:48 | 372M |
| devuan_chimaera_4.0.0_amd64_server.iso | 12-Oct-2021 10:58 | 642M |
| devuan_chimaera_4.0.0_i386_cd2.iso | 12-Oct-2021 11:55 | 543M |
| devuan_chimaera_4.0.0_i386_cd3.iso | 12-Oct-2021 12:03 | 573M |
| devuan_chimaera_4.0.0_i386_cd4.iso | 12-Oct-2021 12:12 | 630M |
| devuan_chimaera_4.0.0_i386_desktop.iso | 12-Oct-2021 11:45 | 3G |
| devuan_chimaera_4.0.0_i386_netinstall.iso | 12-Oct-2021 10:50 | 405M |
| devuan_chimaera_4.0.0_i386_server.iso | 12-Oct-2021 11:02 | 691M |

Tuolta haetaan SHA256SUMS , SHA256SUMS.asc ja amd64_desktop.iso .

Devuan Release Archive

| File | Last Modified | Size |
|--|---------------|------|
| README.txt | 14-Oct-2021 | |
| SHA256SUMS | 15-Feb-2022 | |
| SHA256SUMS.asc | 22-Oct-2022 | |
| devuan_chimaera_4.0.0_amd64_cd2.iso | 12-Oct-2021 | |
| devuan_chimaera_4.0.0_amd64_cd3.iso | 12-Oct-2021 | |
| devuan_chimaera_4.0.0_amd64_cd4.iso | 12-Oct-2021 | |
| devuan_chimaera_4.0.0_amd64_desktop.iso | 12-Oct-2021 | |
| devuan_chimaera_4.0.0_amd64_netinstall.iso | 12-Oct-2021 | |
| devuan_chimaera_4.0.0_amd64_server.iso | 12-Oct-2021 | |
| devuan_chimaera_4.0.0_i386_cd2.iso | 12-Oct-2021 | |
| devuan_chimaera_4.0.0_i386_cd3.iso | 12-Oct-2021 | |
| devuan_chimaera_4.0.0_i386_cd4.iso | 12-Oct-2021 | |
| devuan_chimaera_4.0.0_i386_desktop.iso | 12-Oct-2021 | |
| devuan_chimaera_4.0.0_i386_netinstall.iso | 12-Oct-2021 | |
| devuan_chimaera_4.0.0_i386_server.iso | 12-Oct-2021 | |

Huom. Demoamistarkoitukseen kelpaa tuo desktop. Netinstall olisi parempi “tositarkoitukseen”.

The screenshot shows a web browser window with the URL <https://www.gpg4win.org/get-gpg4win.html>. The page has a yellow header bar with a lock icon and the text "What's new Version 4.2". Below the header, there is a navigation menu with links for "About Gpg4win", "Community", "Support", and "Download". The "Download" button is highlighted in green with a white arrow pointing down. The main content area features a yellow background with a "Please donate for Gpg4win to support maintenance and development!" message. It includes a PayPal donation form with buttons for \$0, \$10, \$15, \$25, and a custom amount. Below the buttons are currency options (USD, EUR) and payment frequency options (onetime, monthly). There is also a checkbox for adding the user to a sponsor list and a feedback text input field.

Sitten haetaan gpg4win osoitteesta <https://www.gpg4win.org/get-gpg4win.html>. Tällä varmistetaan .iso-tiedoston eheys.

The screenshot shows the same web browser window as the previous one, but the donation form is no longer visible. Instead, there is a large blue "Download" button with a white arrow pointing down, centered on the page. Below the button, there is a link to "OpenPGP signatures and source code package »". At the bottom of the page, there is a footer with links to various Gpg4win pages: About Gpg4win, Community, Support, and Misc. The footer also includes icons for GitHub and a mail icon.

Latauksen käynnistää alempi , sininen, "Download"-painike.

What's new
Version 4.2

About Gpg4win

Community

Home » Download

Thank you for downloading Gpg4win.

If the download of Gpg4win 4.2.0 doesn't start automatically, click [here](#).

Get started – your next steps:

1. [Check integrity](#) of the downloaded Gpg4win installer!
2. Install Gpg4win.
3. Create an OpenPGP key pair (or import an existing one) with Kleopatra which is installed together with Gpg4win by default.
4. Sign/encrypt a file or an email to yourself for testing.
5. [Read more about the public key method](#) (see chapter 1-5 in Gpg4win Compendium).
6. Ask your questions and report your problems to the [Gpg4win Community](#).

gpg4win-4.2.0(1).exe
A few seconds left — 28,3 of 33,3 MB (3,6 MB/sec)

devuan_chimaera_4.0.0_amd64_desktop.iso
1m 58s left — 2,4 of 3,5 GB (9,0 MB/sec)

SHA256SUMS.asc
Completed — 488 bytes

SHA256SUMS
Completed — 1,5 KB

VC_redist.x64.exe
Completed — 24,2 MB

Show all downloads

7,5.. tarkistus taas

Downloads

Documents

Pictures

chimaera

ddi

ddl

sufur

OneDrive

This PC

3D Objects

Desktop

Documents

Downloads

Music

Pictures

Videos

Local Disk (C:)

Name Date modified Type Size

devuan_chimaera_4.0.0_amd64_desktop 10/11/2023 2.21 Disc Image File 3 631 104 KB

gpg4win-4.2.0(1) 10/11/2023 2.20 Application 34 077 KB

SHA256SUMS.asc 10/11/2023 2.16 ASC File 1 KB

SHA256SUMS 10/11/2023 2.16 File 2 KB

VC_redist.x64 10/11/2023 2.06 Application 24 762 KB

Oracle_VM_VirtualBox_Extension_Pack-7... 10/11/2023 1.51 VBOX-EXTPACK File 17 819 KB

VirtualBox-7.0.12-159484-Win 10/11/2023 1.47 Application 108 298 KB

super_grub2_disk_x86_64_efi_2.04s1 30/10/2023 5.35 Disc Image File 11 298 KB

super_grub2_disk_hybrid_2.04s1 30/10/2023 4.25 Disc Image File 15 978 KB

rufus 30/10/2023 1.54 Configuration sett... 1 KB

grub-efi-amd64-bin_2.06-3~deb11u6_a... 30/10/2023 1.14 DEB File 1 529 KB

Grub-UEFI error... file '_boot_grub_x86_64... 30/10/2023 1.06 Firefox HTML Doc... 34 KB

general relativity - ls source of space-tim... 30/10/2023 1.04 Firefox HTML Doc... 268 KB

linux - Cannot find EFI directory issue wit... 30/10/2023 1.03 Firefox HTML Doc... 328 KB

Grub-UEFI error... file '_boot_grub_x86_64... 30/10/2023 1.06 File folder

general relativity - ls source of space-tim... 30/10/2023 1.04 File folder

linux - Cannot find EFI directory issue wit... 30/10/2023 1.03 File folder

27 items | 2 items selected 3,49 GB

Eli jälleen maalataan haetut tiedostot hiiren vasen pohjassa jonka jälkeen oikealla kontekstivalikko jne.

The screenshot shows the Windows Security application window titled "Scan options". On the left is a vertical navigation bar with icons for Home, Protection history, Help & feedback, and Change your privacy settings. The main content area displays a message: "Custom scan running... Estimated time remaining: 00:00:00 42 files scanned". A "Cancel" button is visible. Below this, a message says "Feel free to keep working while we scan your device." followed by a blue link "Protection history". Further down, there's a section for "Help improve Windows Security" with a blue link "Give us feedback". At the bottom, there's a "Change your privacy settings" link.

Windows Security

Scan options

Run a quick, full, custom, or Microsoft Defender Offline scan.

Custom scan running...
Estimated time remaining: 00:00:00
42 files scanned

Cancel

Feel free to keep working while we scan your device.

[Protection history](#)

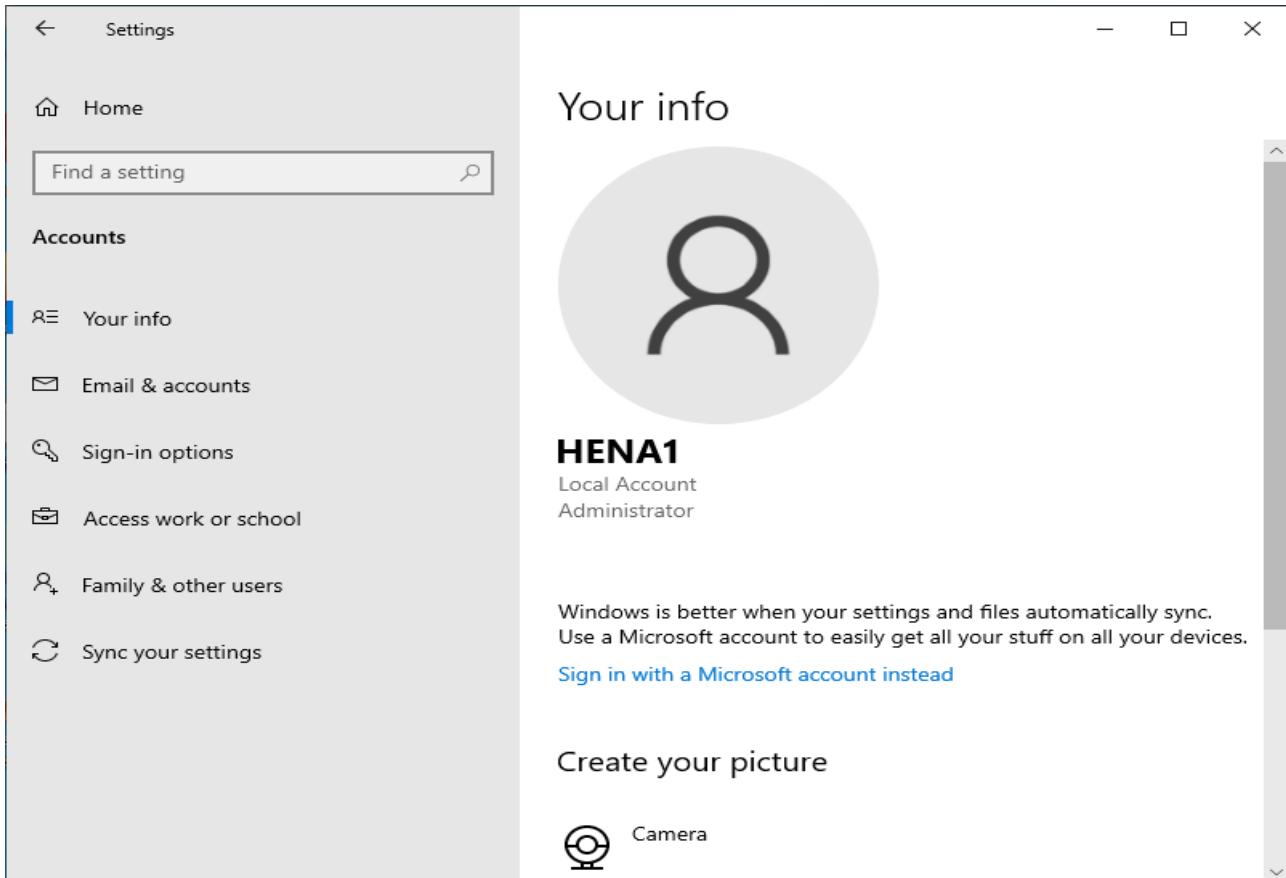
Have a question?
[Get help](#)

Help improve Windows Security
[Give us feedback](#)

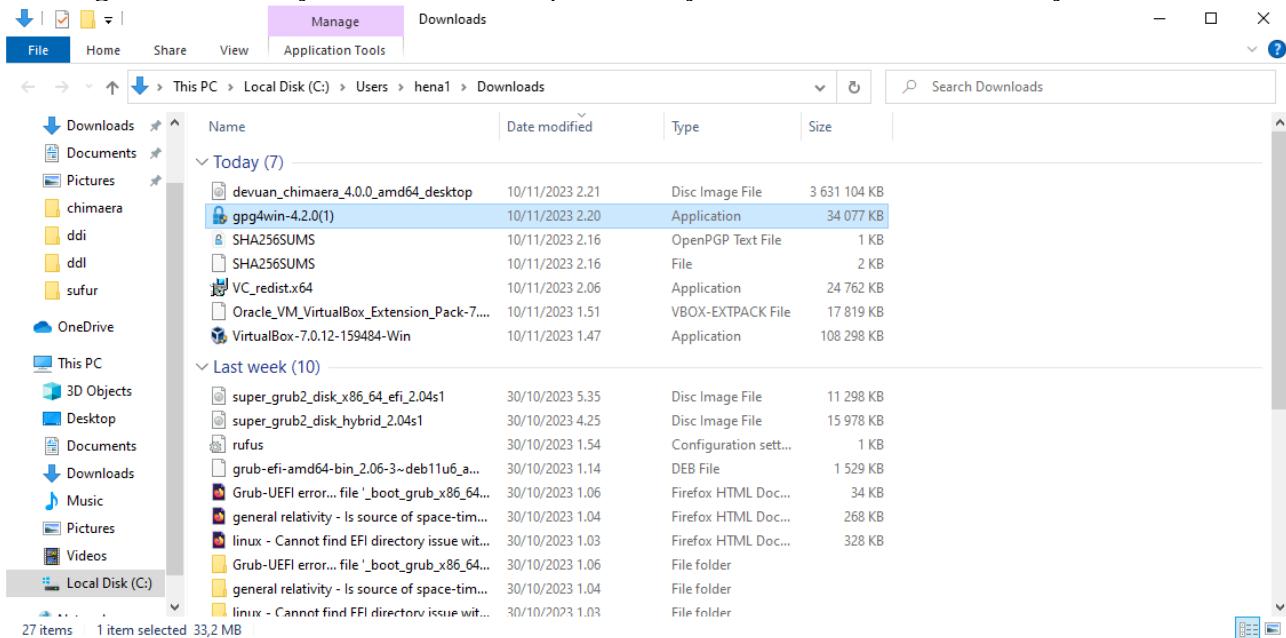
Change your privacy settings

8. gpg4win asennus

HUOM!!! tämän asennuksen tehtävä Administrator-oikeudet sisältäväällä tunnuksella, muuten menee pieleen.



“Settings → accounts → your info” – kautta pitäisi siis ylläolevan näköistä tulla näkyviin.

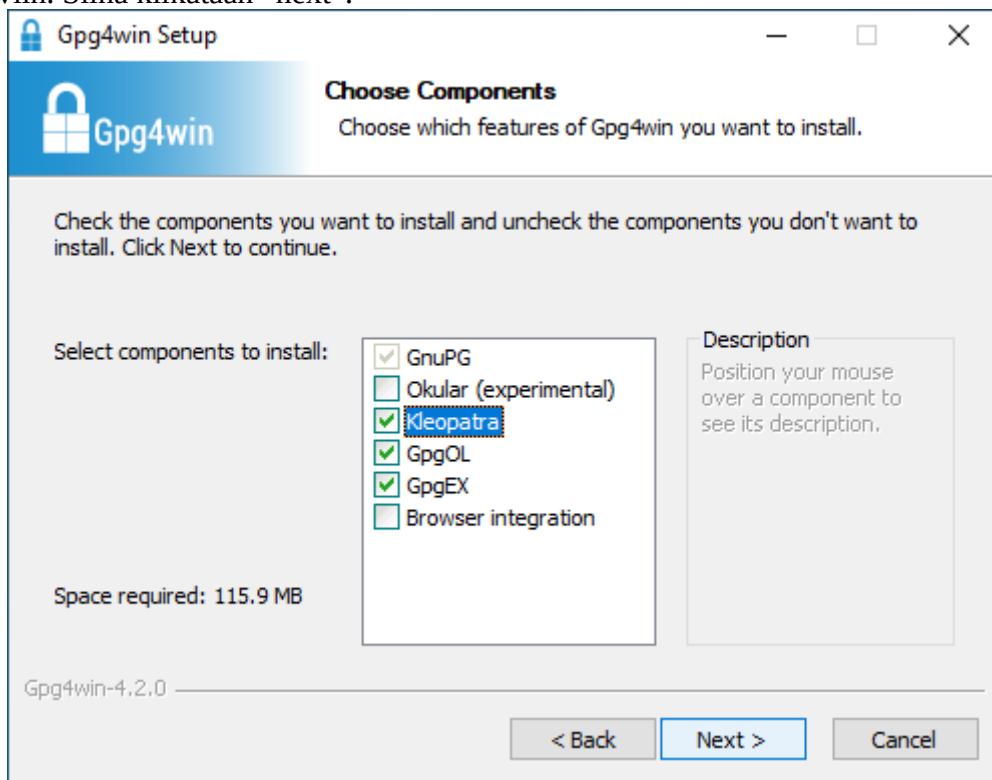


Latausikkunassa tuplaklikataan vasemmalla gpg4win-tiedostoa, sitten hyväksytään ohjelman aiheuttamat muutokset.

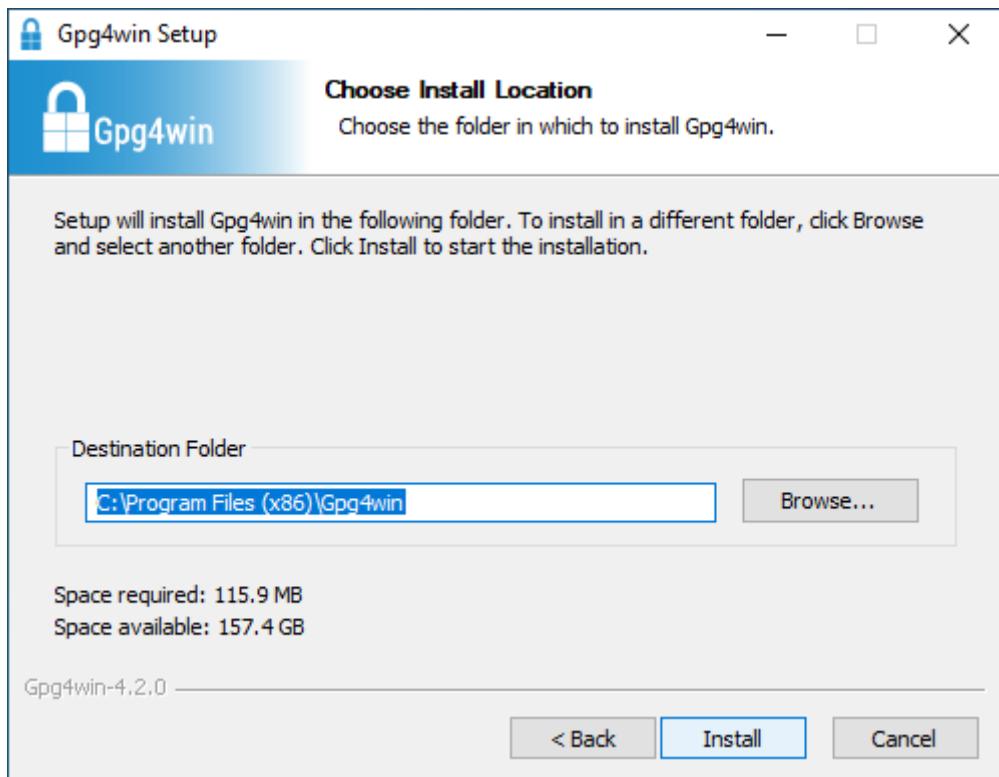
Jonka jälkeen tällainen



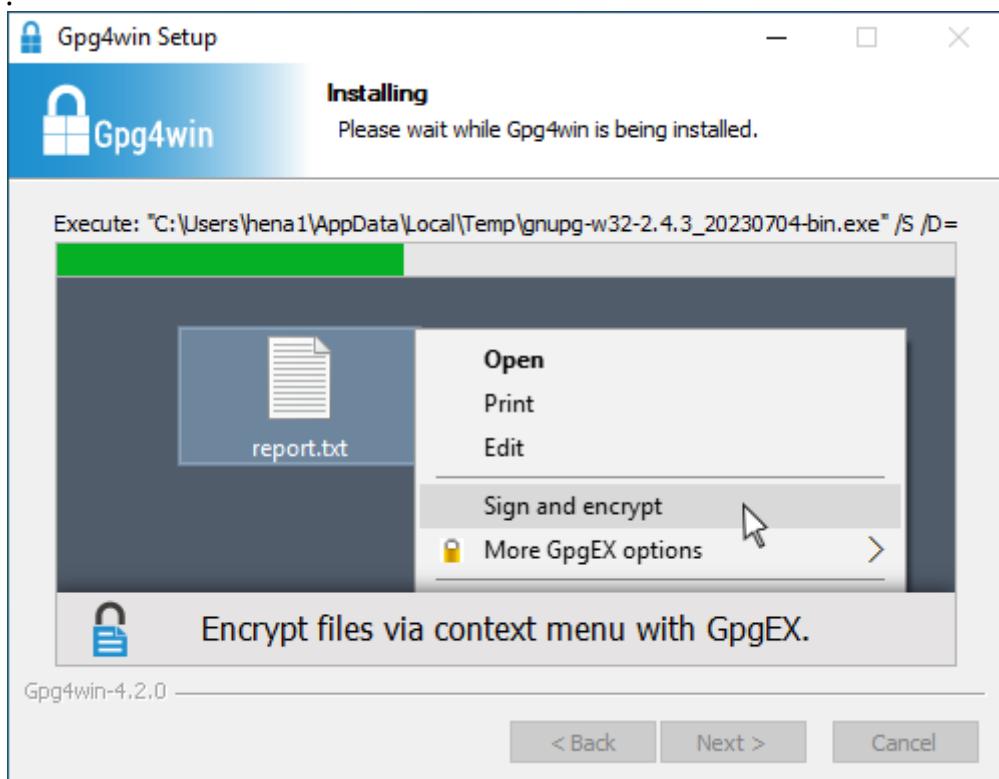
tulee näkyviin. Siinä klikataan "next".



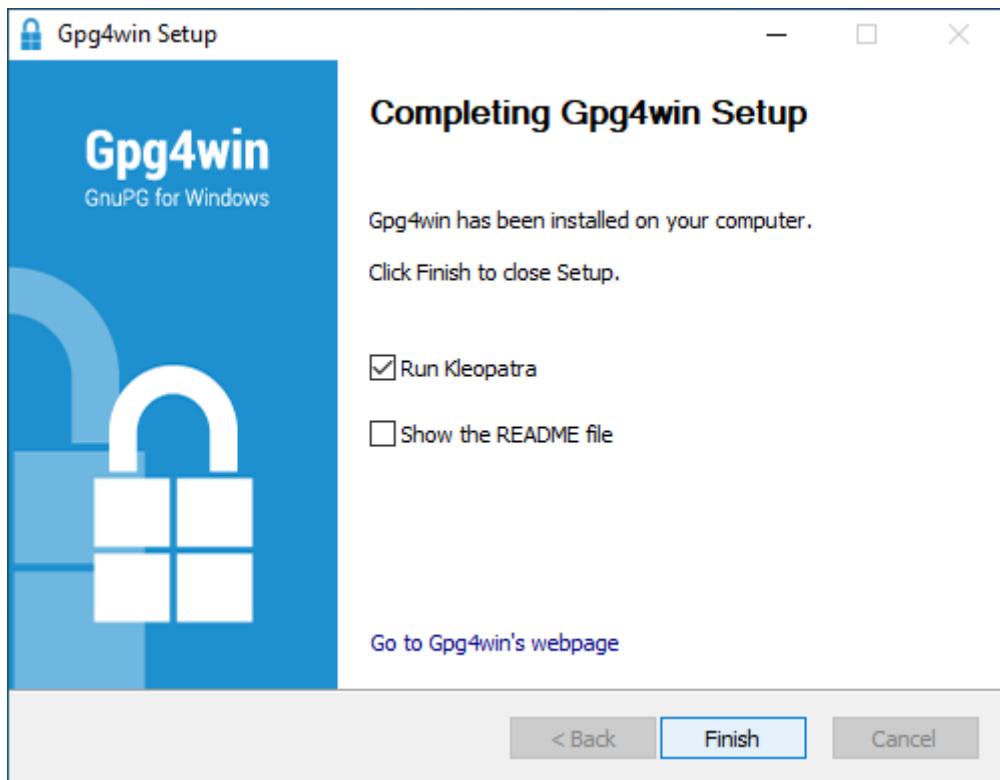
Ja toisen kerran "next".



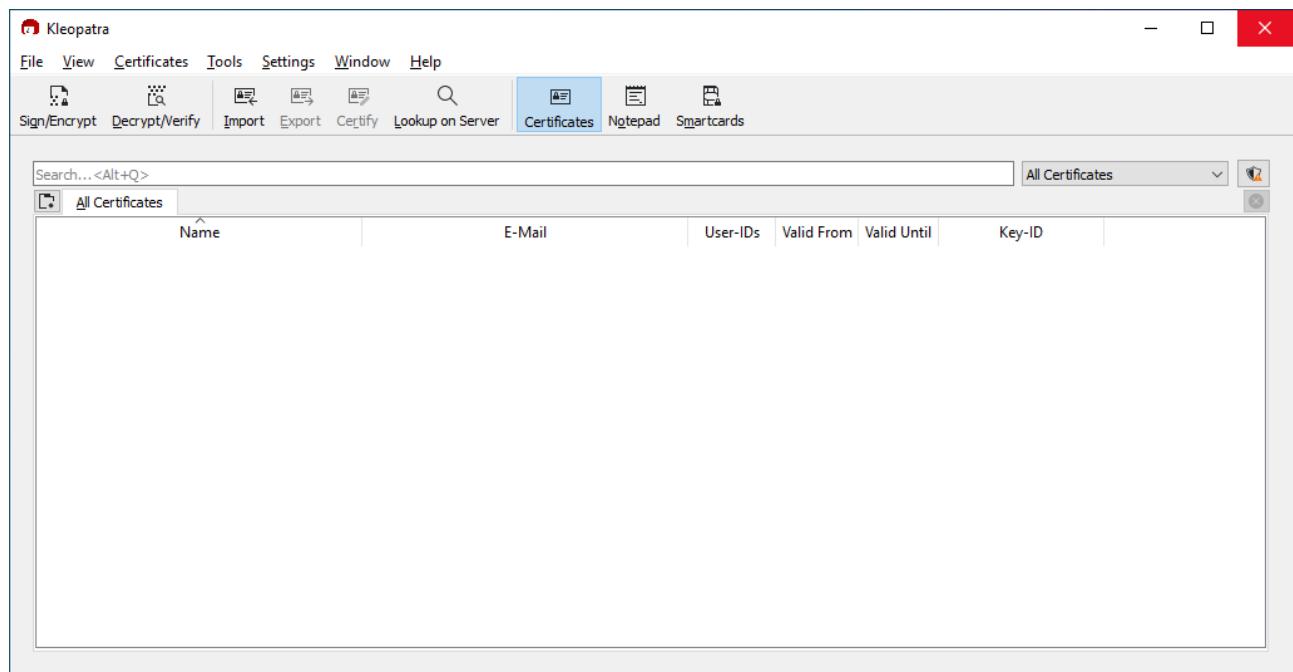
Ja "install".



Tällaisen jälkeen "next".



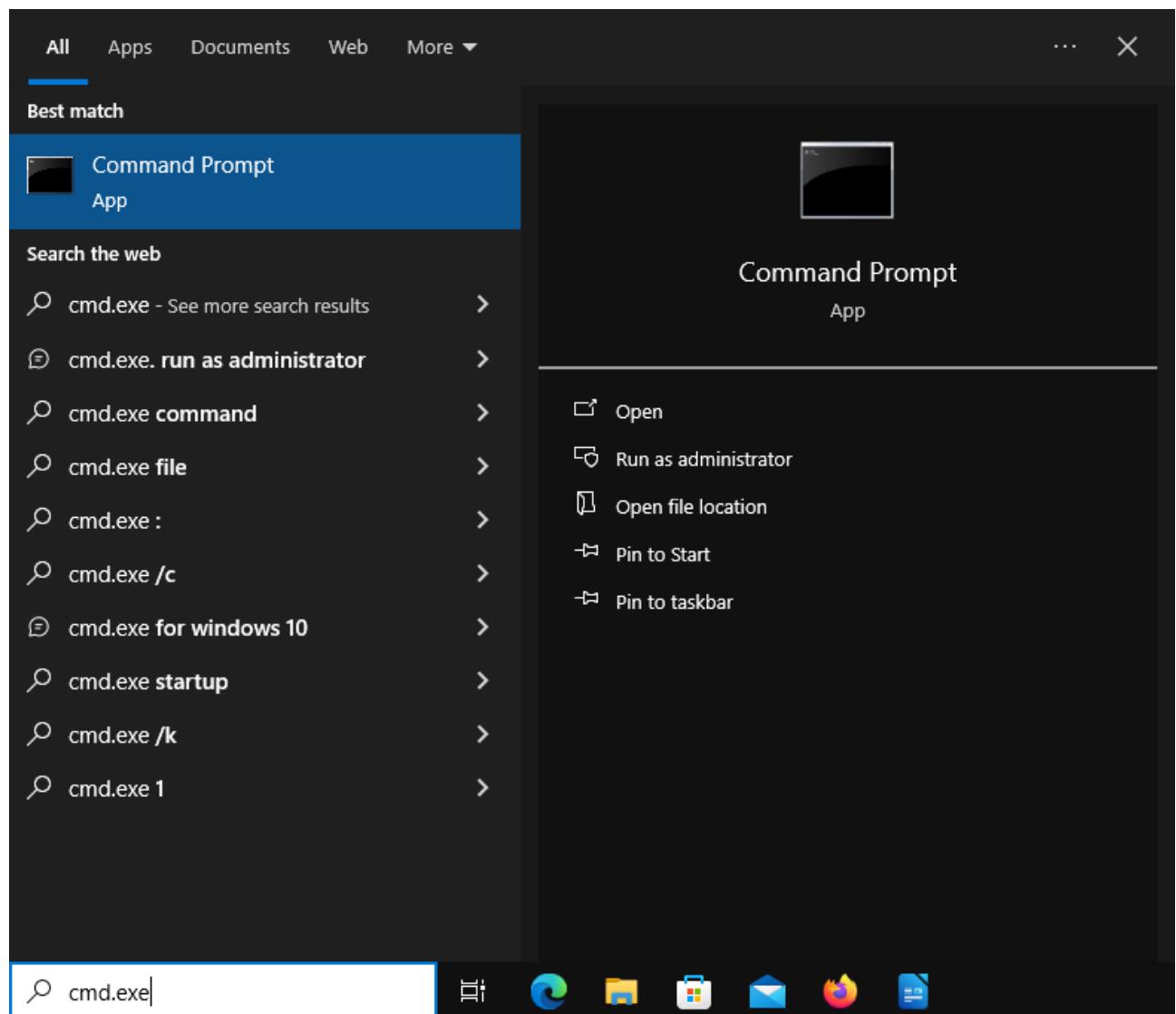
Sitten "Finish"



Kleopatran voi sammuttaa jos on valinnut sen käynnistymään.

Tarkistukset tehdään pikemminkin komentorivi-gpg:n avulla.

9. avaimen haku



Käynnistysvalikon hakuun cmd.exe ja sitten tuloksen klikkaus vasemmalla.

```
cmd Select Command Prompt
Microsoft Windows [Version 10.0.19045.3570]
(c) Microsoft Corporation. All rights reserved.

C:\Users\hena1>cd Downloads
C:\Users\hena1\Downloads>
```

Siirrytään lataushakemistoon komennolla “cd Downloads”.

```
cmd Select Command Prompt
C:\Users\hena1\Downloads>gpg --verify SHA256SUMS.asc
gpg: assuming signed data in 'SHA256SUMS'
gpg: Signature made 22/10/2022 15:52:57 FLE Standard Time
gpg:                 using RSA key E93D7167A4F5FA9E9FED497770285BA5CF280BA4
gpg: Can't check signature: No public key

C:\Users\hena1\Downloads>
```

Komento “gpg –verify SHA256SUMS.asc”+enter kertoo minkä tunnisteen mukainen avain pitää hakea. Tässä se “E93D”-alkuinen.

```
C:\Users\hena1\Downloads>gpg -v --keyserver hkps://keyserver.ubuntu.com --recv-keys E93D7167A4F5FA9E9FED497770285BA5CF280BA4
gpg: enabled compatibility flags:
gpg: data source: https://185.125.188.26:443
gpg: armor header: Comment: Hostname:
gpg: armor header: Version: Hockeypuck 2.1.0-223-gdc2762b
gpg: key 70285BA5CF280BA4: number of dropped non-self-signatures: 2
gpg: pub rsa2048/70285BA5CF280BA4 2017-07-20 Ralph Ronquist (rrq) <ralph.ronnquist@gmail.com>
gpg: using pgp trust model
gpg: key 70285BA5CF280BA4: public key "Ralph Ronquist (rrq) <ralph.ronnquist@gmail.com>" imported
gpg: Total number processed: 1
gpg:           imported: 1

C:\Users\hena1\Downloads>
```

Avain haetaan tähän tapaan. Tässä “-v” kertoo käyttäjälle lisätietoja, mitä tapahtuu. Sen jälkeen sanotaan palvelin miltä haetaan avain. Tässä “hkps” sitä varten että haetaan suojuksen yhteyden yli.

Viimeisenä avaimen tunniste.

10. .asc tarkistus

```
C:\Users\hena1\Downloads>gpg --verify SHA256SUMS.asc
gpg: assuming signed data in 'SHA256SUMS'
gpg: Signature made 22/10/2022 15:52:57 FLE Standard Time
gpg:           using RSA key E93D7167A4F5FA9E9FED497770285BA5CF280BA4
gpg: Good signature from "Ralph Ronquist (rrq) <ralph.ronnquist@gmail.com>" [unknown]
gpg: WARNING: This key is not certified with a trusted signature!
gpg:           There is no indication that the signature belongs to the owner.
Primary key fingerprint: E93D 7167 A4F5 FA9E 9FED 4977 7028 5BA5 CF28 0BA4

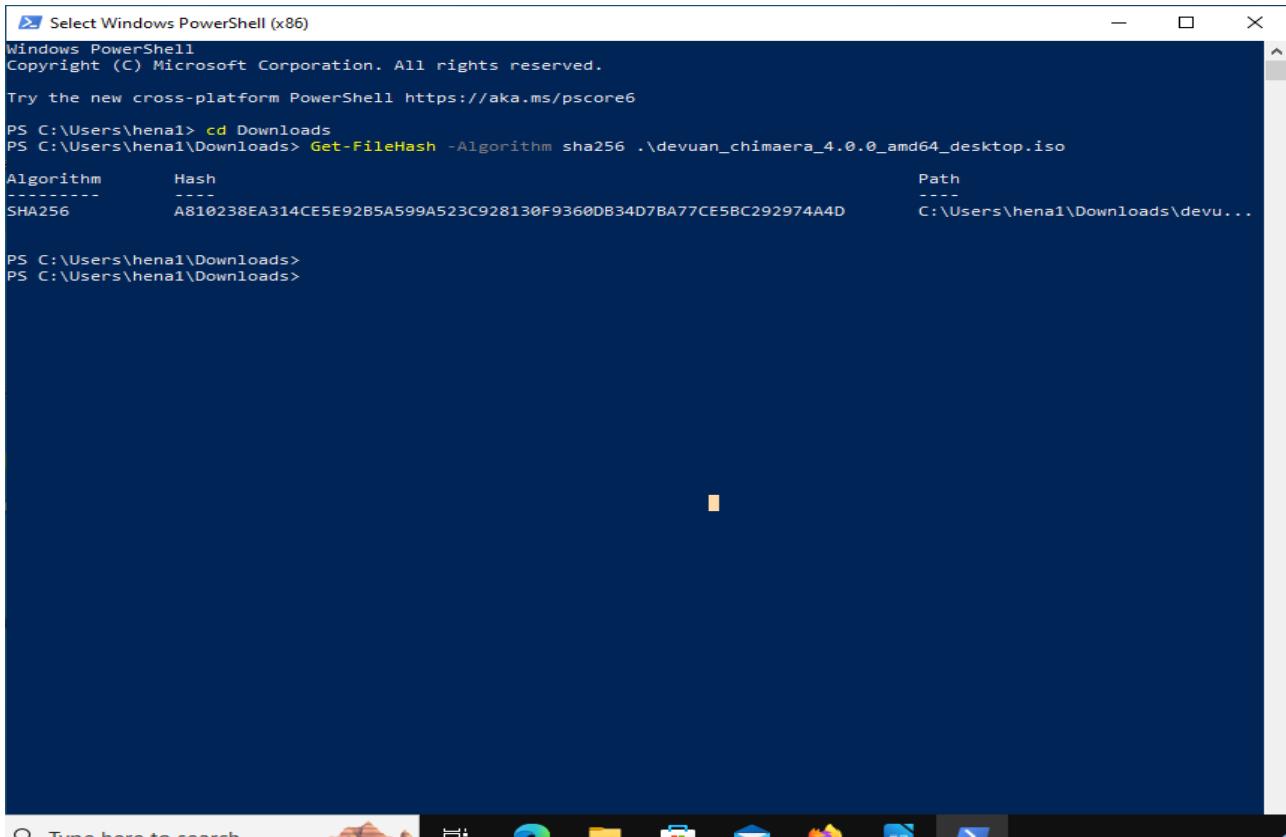
C:\Users\hena1\Downloads>
```

Komennolla “gpg –verify SHA256SUMS.asc”+enter pitäisi tulla tällainen lopputulos. Eli “Good signature” siis tulisi näkyä jotta voidaan jatkaa.
Tällöin tiedetään että tiedoston SHA256SUMS sisältö se mitä pitääkin.

11. SHA256SUMS tarkistus

Samaan tapaan kuin cmd.exe:n kanssa.

Sitten “Get-FileHash -Algorithm sha256 .\devuan_chimaera_4.0.0_amd64_desktop.iso”+enter.



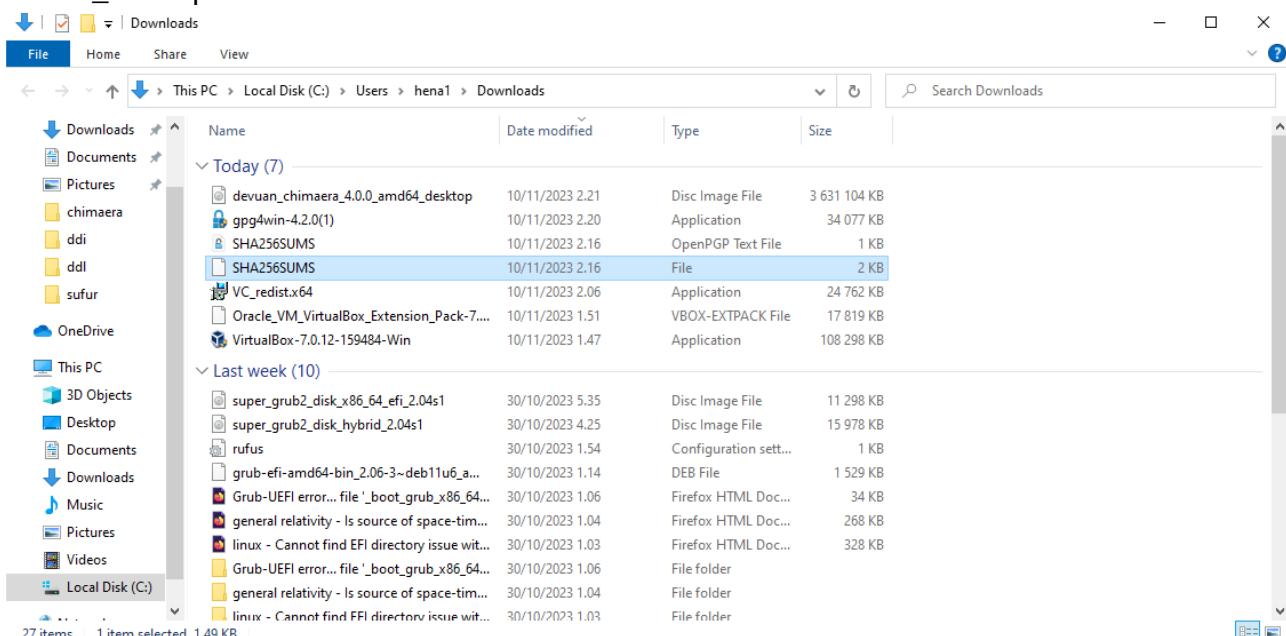
```
Select Windows PowerShell (x86)
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Try the new cross-platform PowerShell https://aka.ms/pscore6

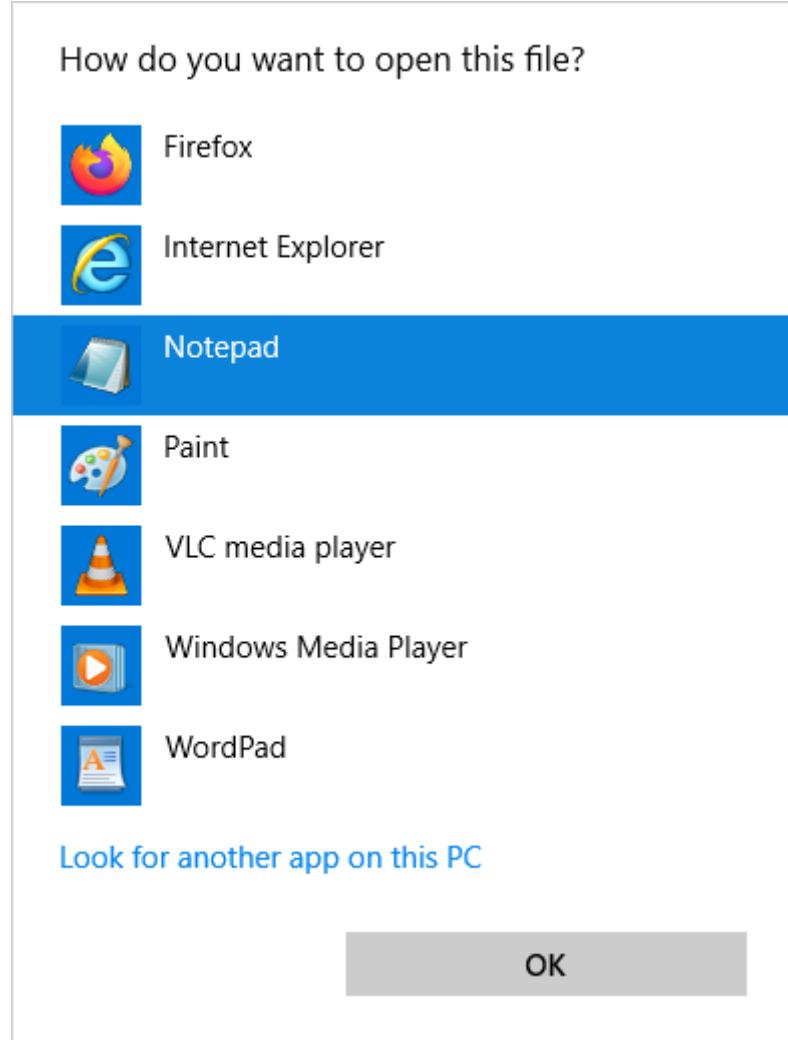
PS C:\Users\henal> cd Downloads
PS C:\Users\henal\Downloads> Get-FileHash -Algorithm sha256 .\devuan_chimaera_4.0.0_amd64_desktop.iso

Algorithm      Hash                                         Path
----          ----                                         ---
SHA256        A810238EA314CE5E92B5A599A523C928130F9360DB34D7BA77CE5BC292974A4D   C:\Users\henal\Downloads\devu...
```

Kuten aiemmin seuraavaksi notepadilla SHA256SUMS auki ja etsitään tiedoston amd64_desktop.iso sisältävää rivi.



Tässä klikataan oikealla kontekstivalikko auki ja valikosta “Open with”.

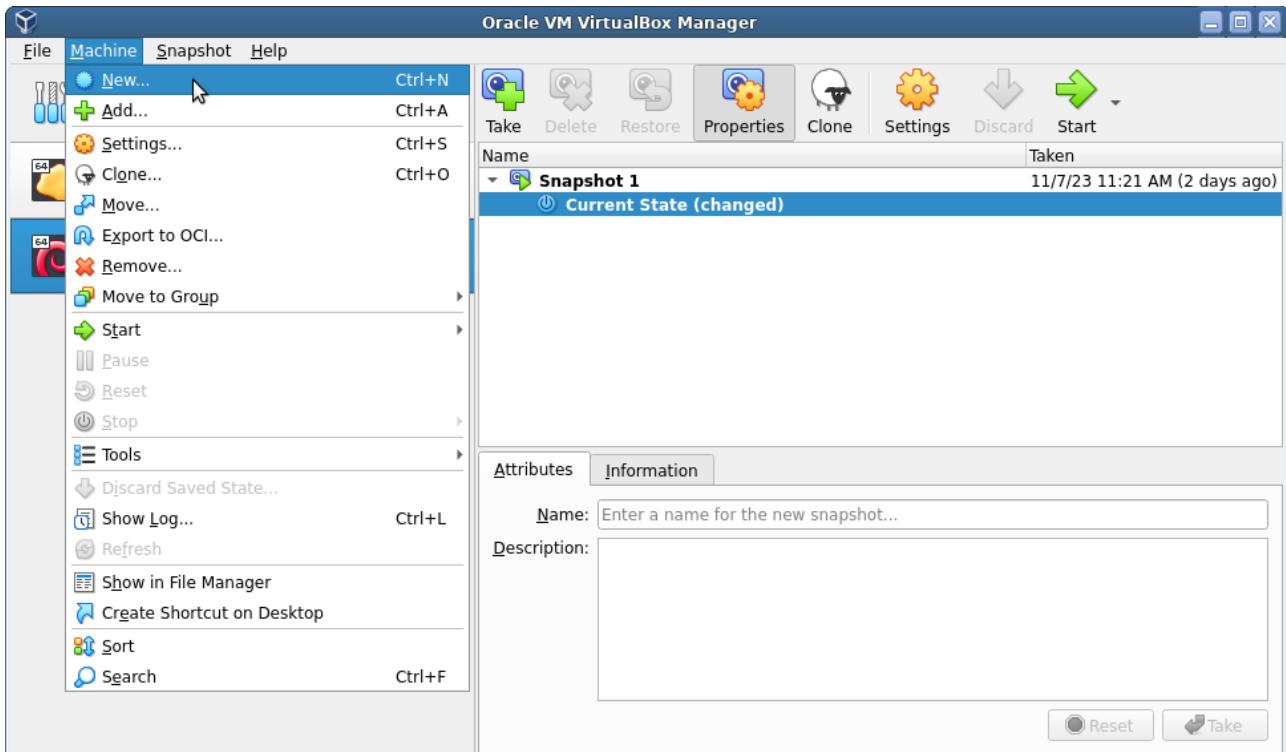


Valitaan "Notepad" jonka jälkeen "OK".

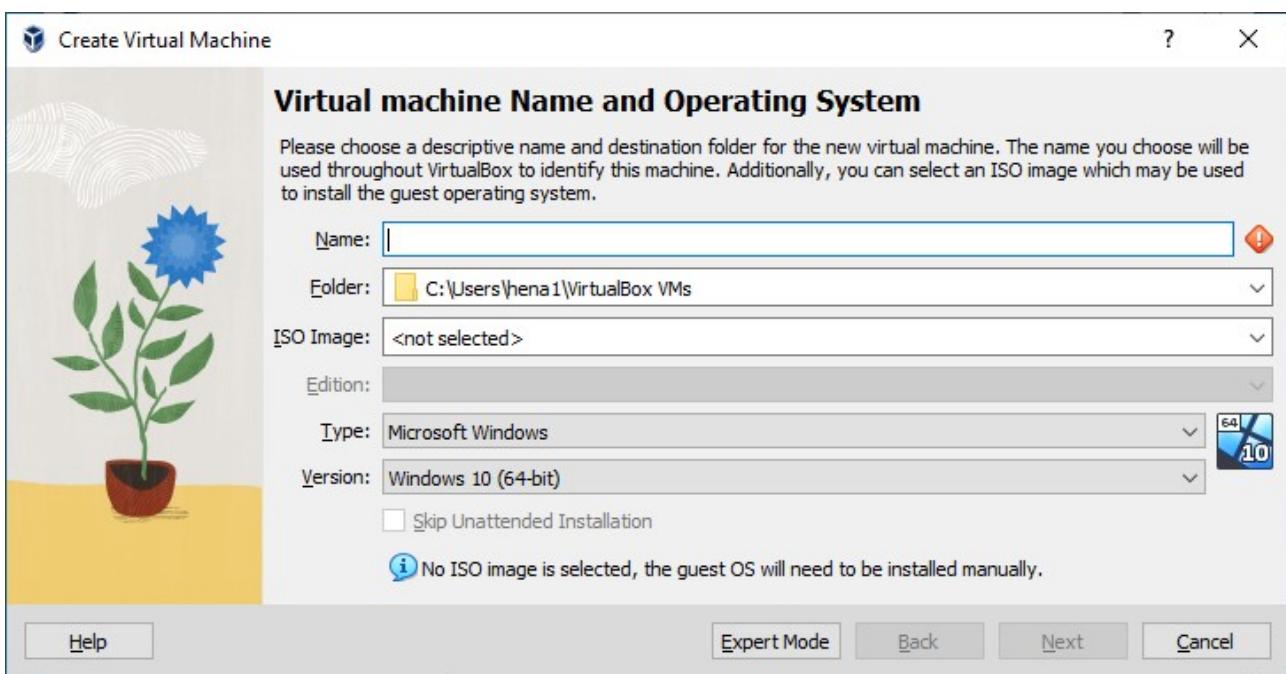
```
SHA256SUMS - Notepad
File Edit Format View Help
02e0a45c2ed8d405876789ba34cb5e004f1b7ba1ba2e6e827e206d97c32db074 devuan_chimaera_4.0.0_amd64_cd2.iso
80a3f4a9820328caf374d40c68cabf63fd8fc22f6c8b58f010d36aff3df511 devuan_chimaera_4.0.0_amd64_cd3.iso
7278f7a534bfffce88843d1ff3b4c1ab12f32b231e5a93ff6699d07f03cfb93ab devuan_chimaera_4.0.0_amd64_cd4.iso
a810238ea314ce5e92b5a599a523c928130f9360db34d7ba77ce5bc292974a4d devuan_chimaera_4.0.0_amd64_desktop.iso
0923470af430e3d582a635956bbe4c13abc18fbaa4704e6deeef3b362833e0ef5 devuan_chimaera_4.0.0_amd64_netinstall.iso
b2c0d159e9d7219422ef9e40673c3126aaee118b57df79484384e7995abd2ba0f devuan_chimaera_4.0.0_amd64_server.iso
d30bb52bb699454212b0c9a51a1790aa012ae1a6b2a9eaa219510c3c7b36528a devuan_chimaera_4.0.0_i386_cd2.iso
a8e903eac3b69765d59ba94cc238d6141dac05d4db079436519008870b52c64d devuan_chimaera_4.0.0_i386_cd3.iso
c98f521602a13d6e85a8f556d6e7d248a2c1495a64d27924fee7f0c93983874e devuan_chimaera_4.0.0_i386_cd4.iso
dea242a72f5e809d38b1671cbb16a53442ccc86f988a4c3aff1222d04f0f89d1 devuan_chimaera_4.0.0_i386_desktop.iso
31a92de6098c2b5a93ac63a147bbe5d0ad891ed0bd2ff52d0ab1c1ebc533b0db devuan_chimaera_4.0.0_i386_netinstall.iso
1f930d1852f12559d082a5236a0b6ec7b174b3d94d7732c003ec2d96ef5632af devuan_chimaera_4.0.0_i386_server.iso
7de7732da7e3bf749f8e904b6794ed9892f4852bad78d90e57031066266bcf45 README.txt
71ecd3c7cb69c73b64b597b1c616132cf53ede63b0d462313ad542b32800768a devuan_chimaera_4.1_0_amd64_pool1.iso
50deaa48099654b73a7150407c17a7882da328743875bbd738fba1b7ef12604e devuan_chimaera_4.1_0_i386_pool1.iso
```

Nyt pitäisi näkyä desktop.iso:n vasemmalla puolella sama merkkijono kuin minkä Get-FileHash tuotti. (gtkhash tai unix-puolella shasum -c olislivat kätevämpiä tapoja tehdä sama asia)

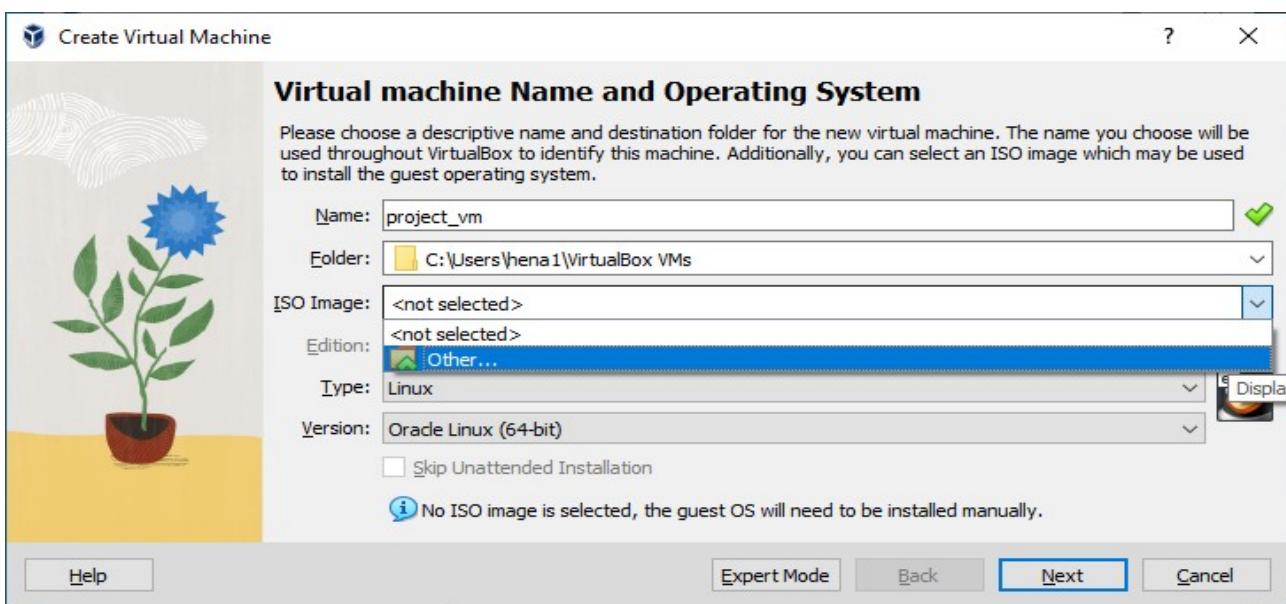
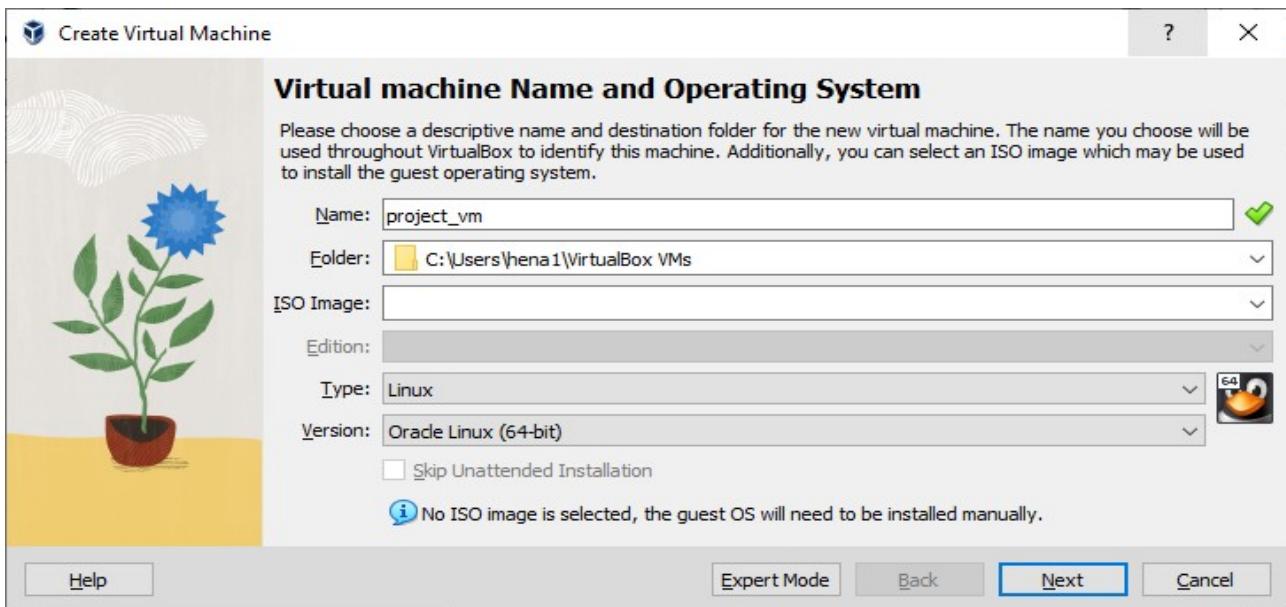
12. vkoneen luonti



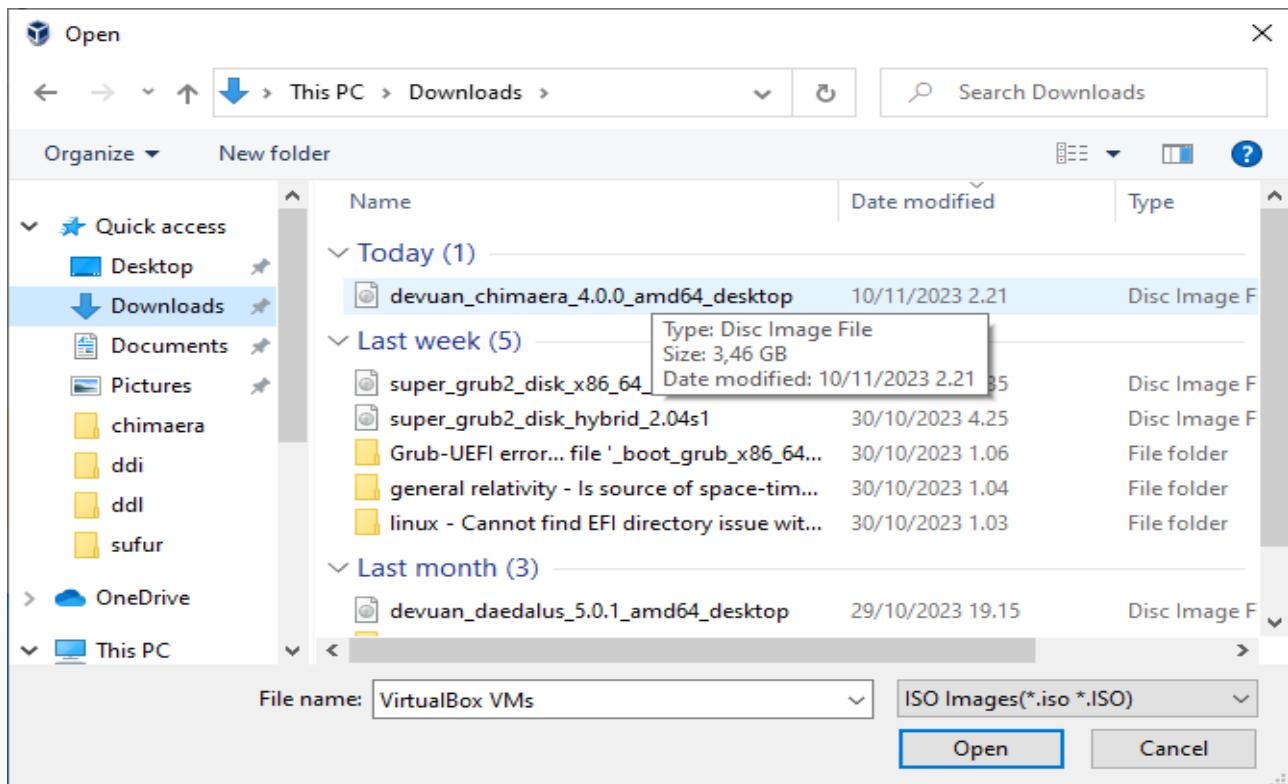
Virtualboxin valikosta machine → new.



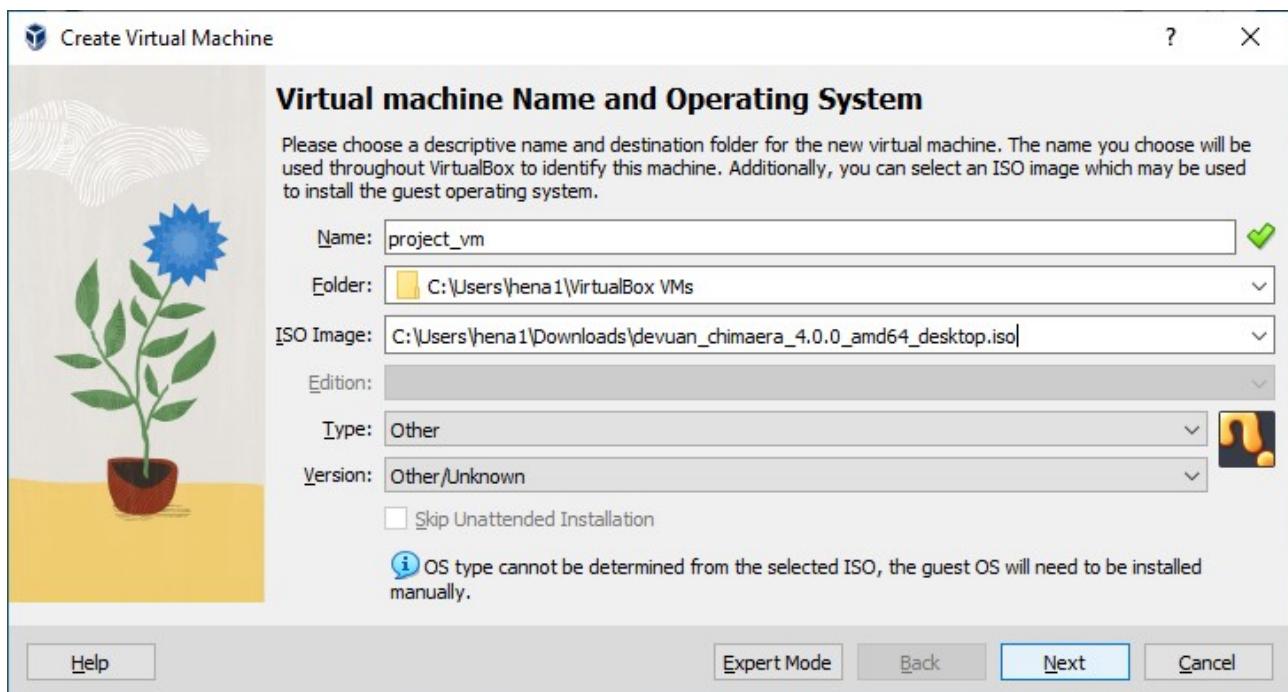
Nimeksi jokin sopiva. Tyypiksi Linux.



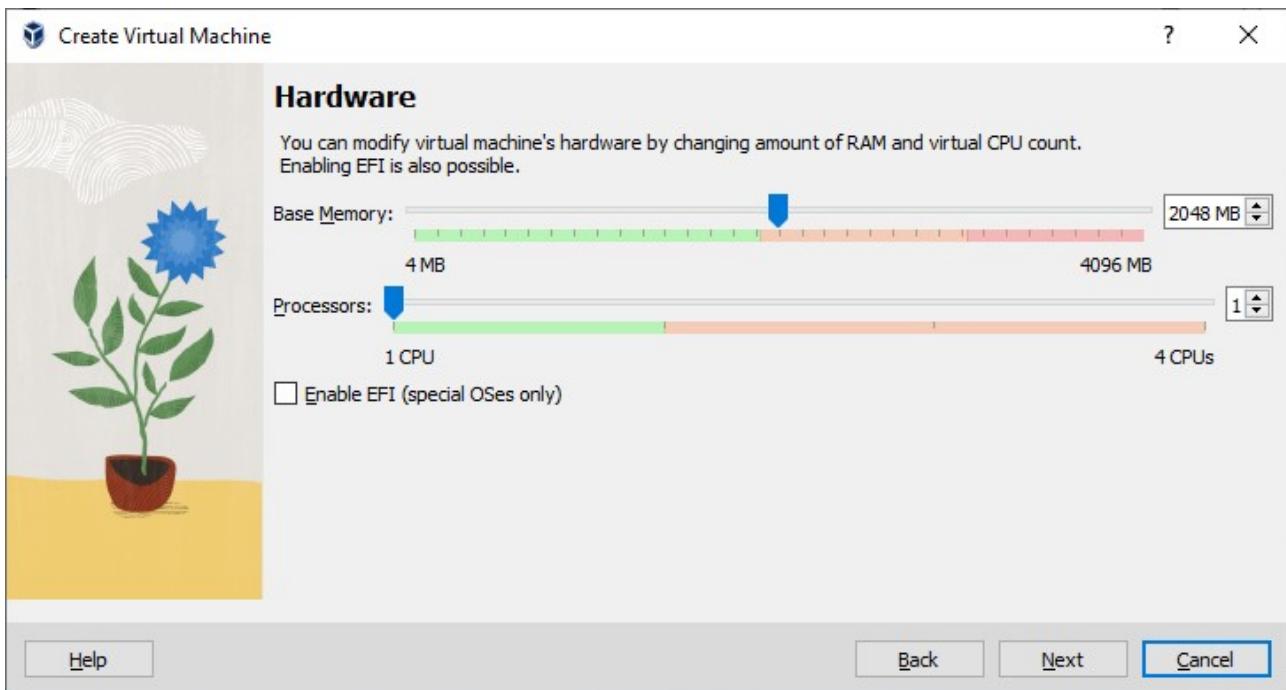
ISO Image-kohaan pitää saada se devuanin tiedosto. Eli Other-kuvakkeen kautta.



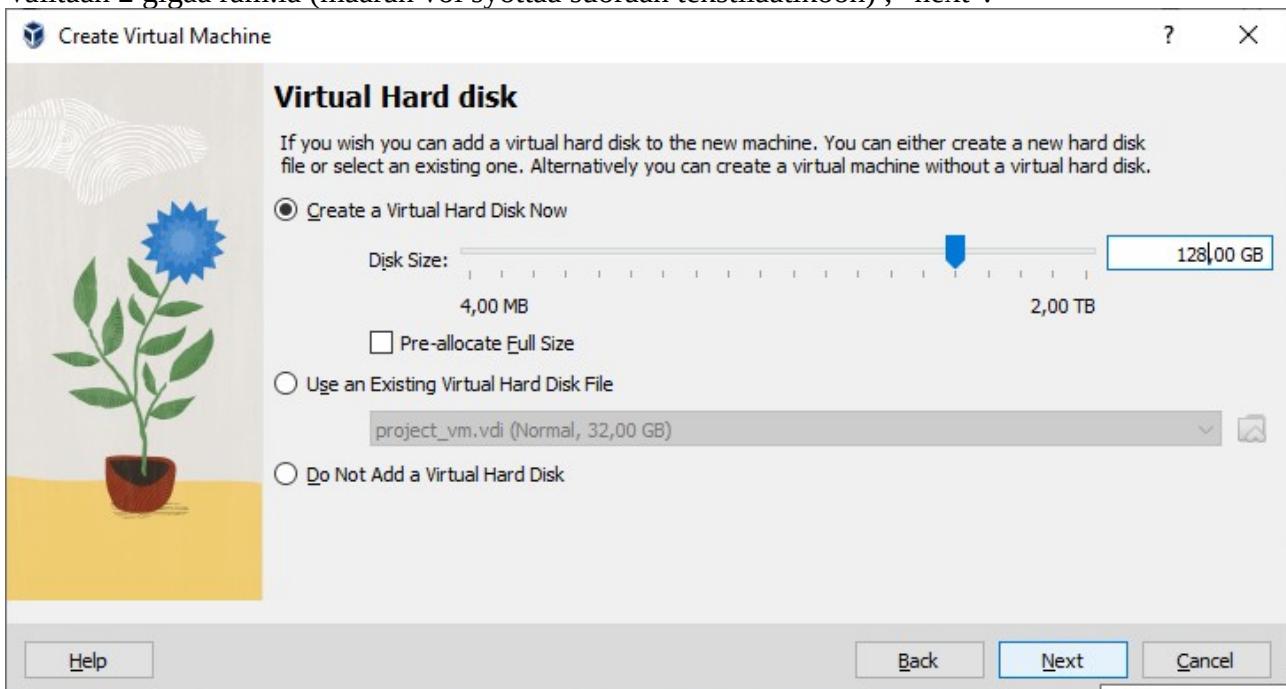
Vasemmalta downloads-hmisto, tiedostoista valitaan tuo “devuan_chimaera” jonka jälkeen klikataan “Open”.



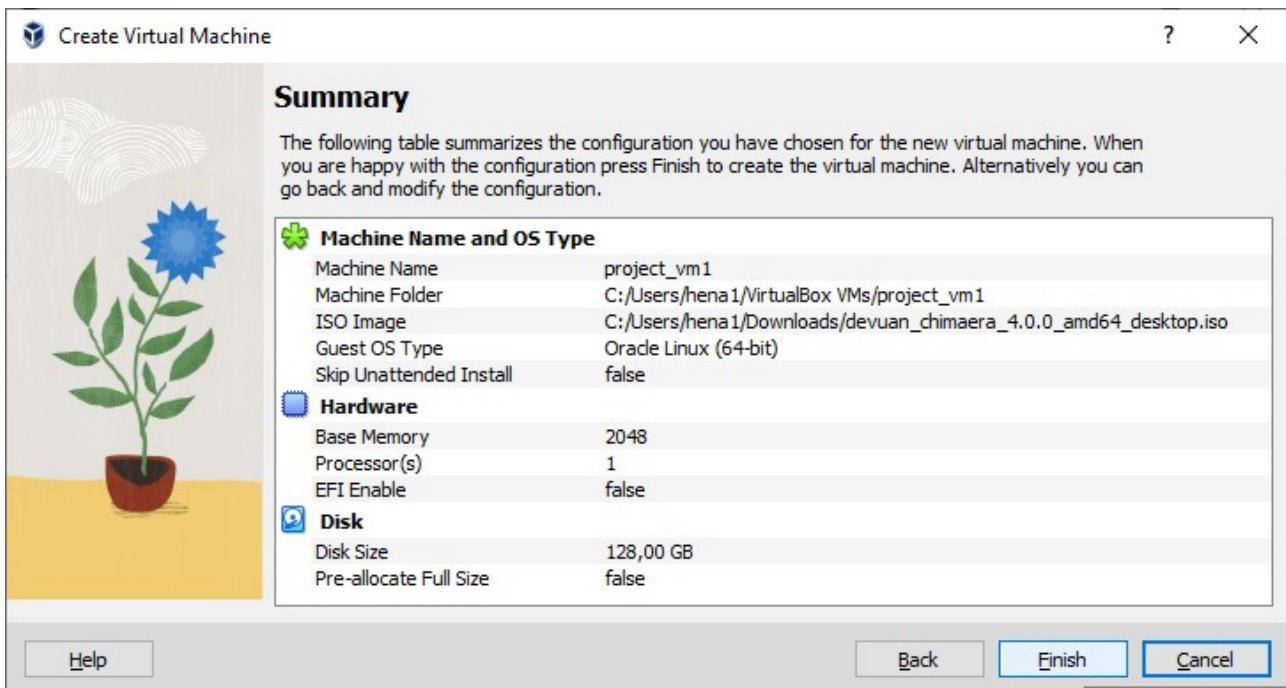
Sen jälkeen "next".



Valitaan 2 gigaa ram:ia (määräni voi syöttää suoraan tekstilaatikoon), "next".

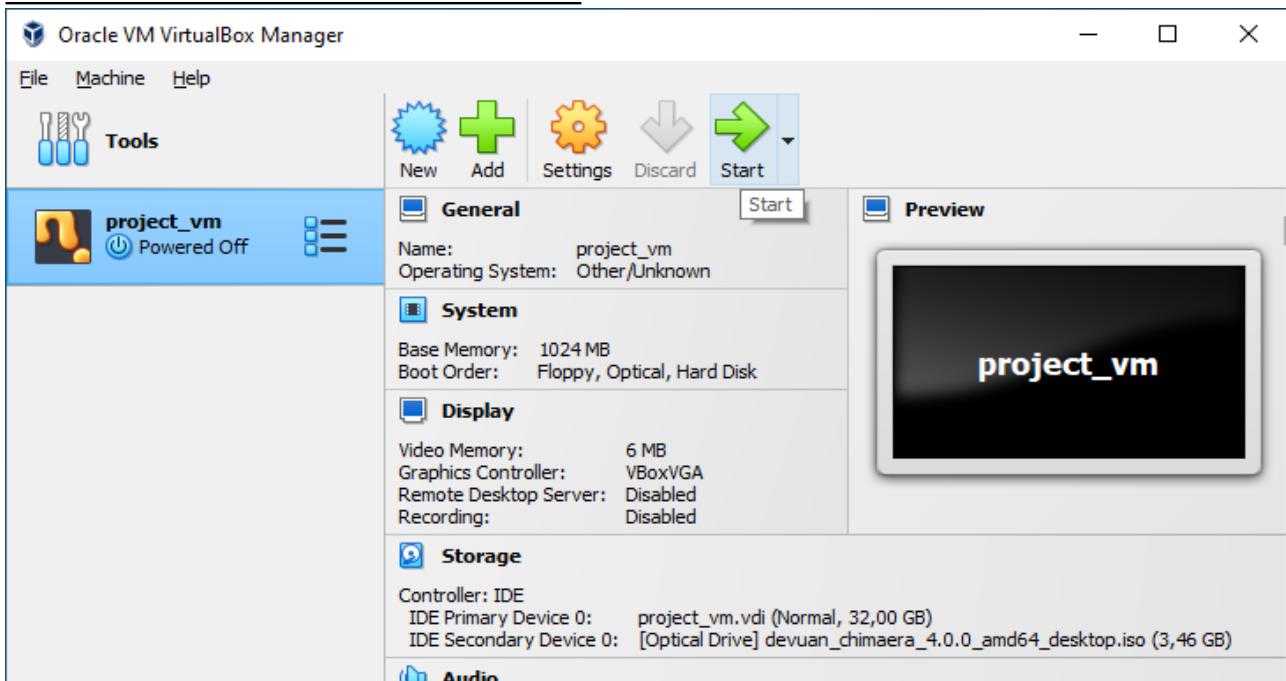


Sitten lisätään 128 gigaa levyä .(Dockerin “vetämät” kontit ja “kuvat” syövät jonkin verran tilaa.)
Luku siis syötetään tekstilaatikkoon jonka jälkeen “next”.

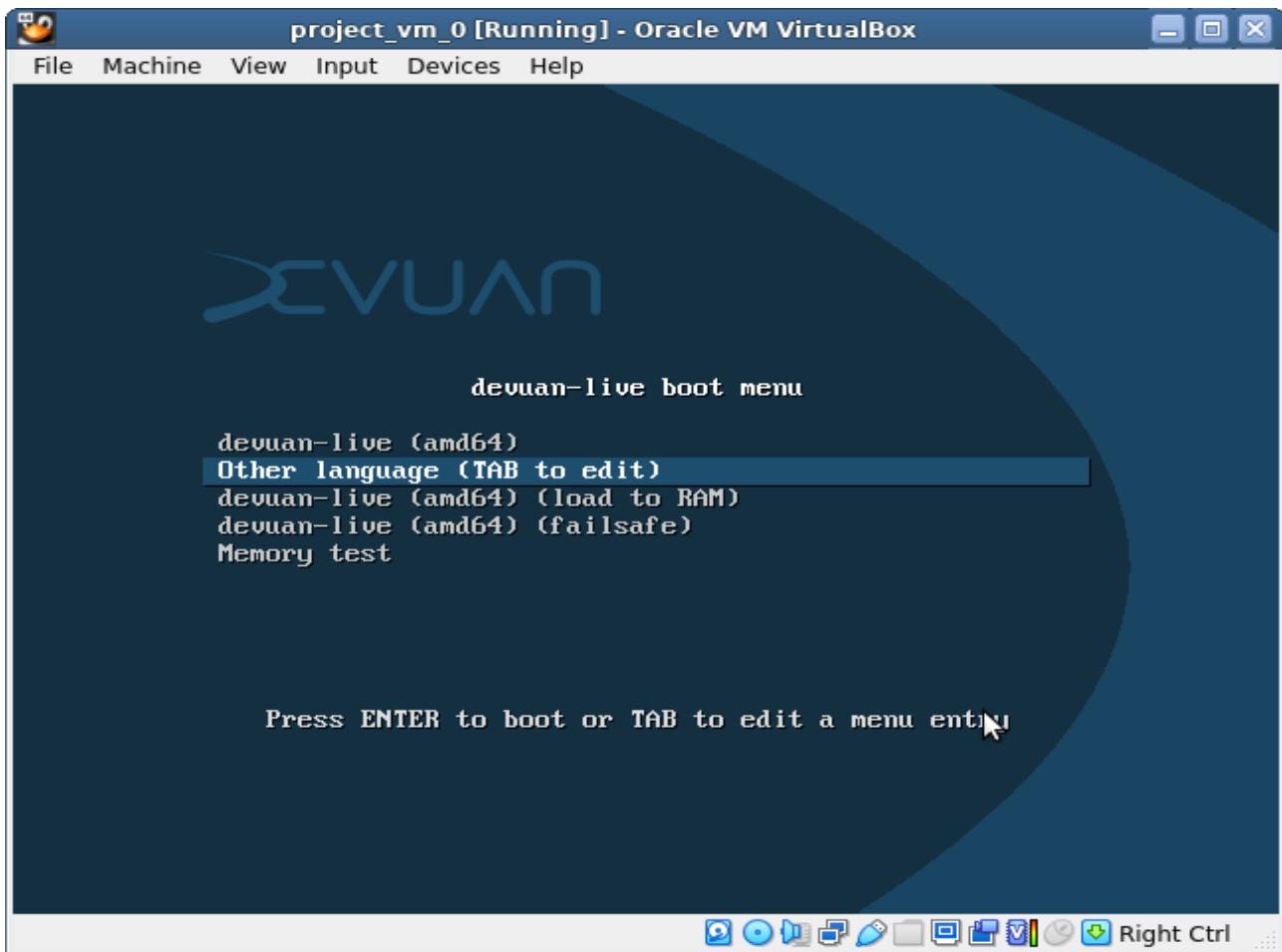


Sitten klikataan "Finish".

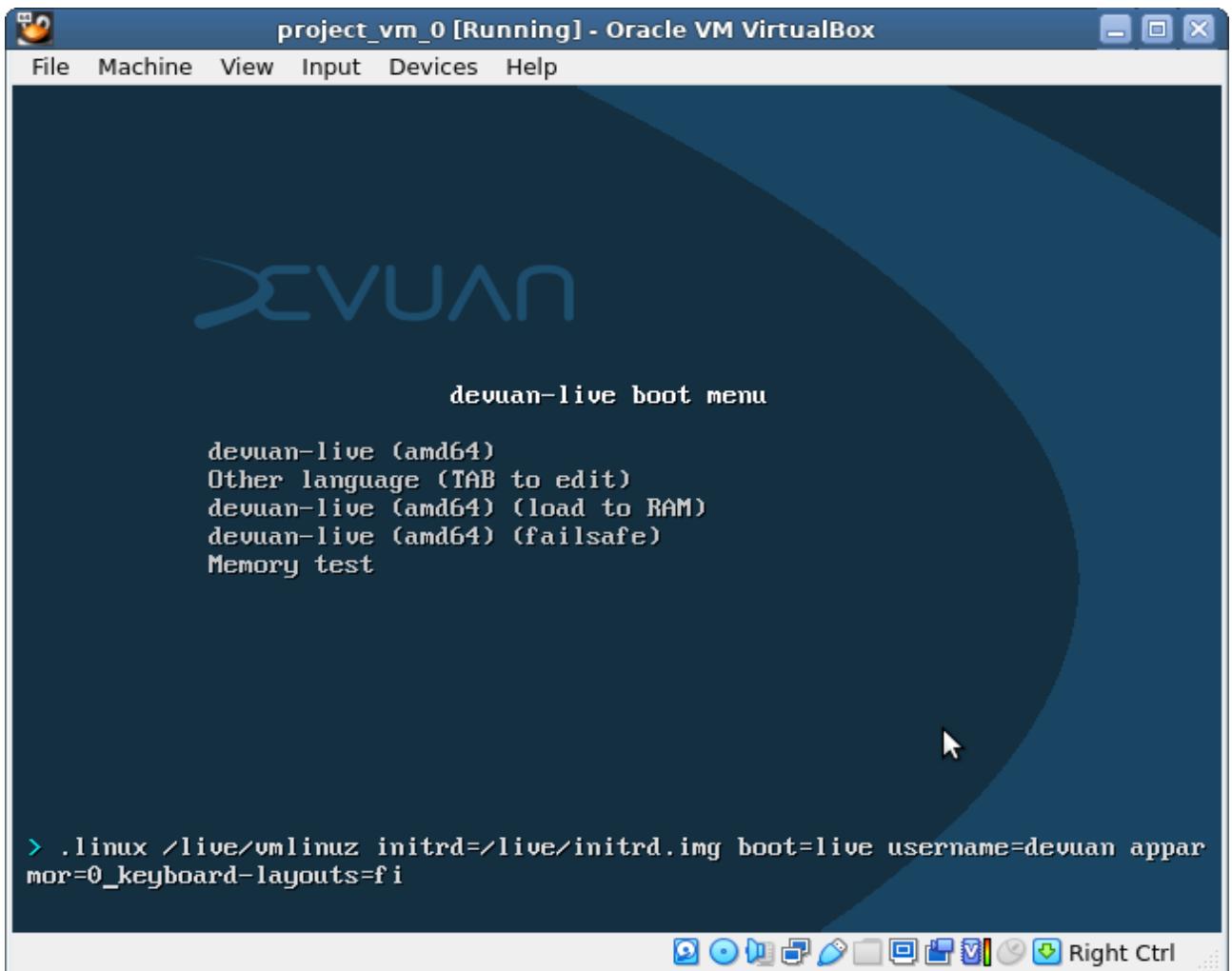
14. devuanin asennus vkoneeseen



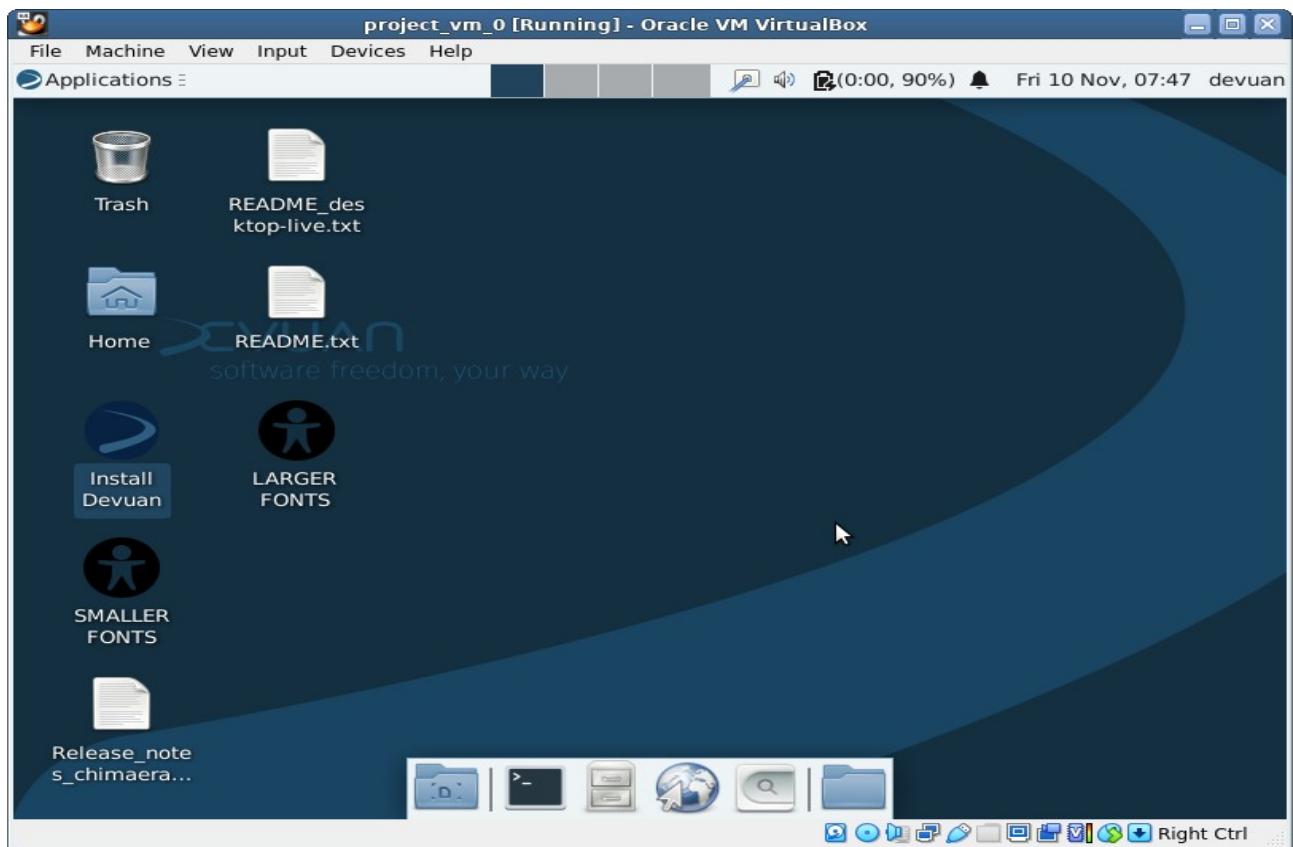
Valitaan tässä näkymässä äsknen luotu virtuaalikone. Sitten yläpalkista "start".



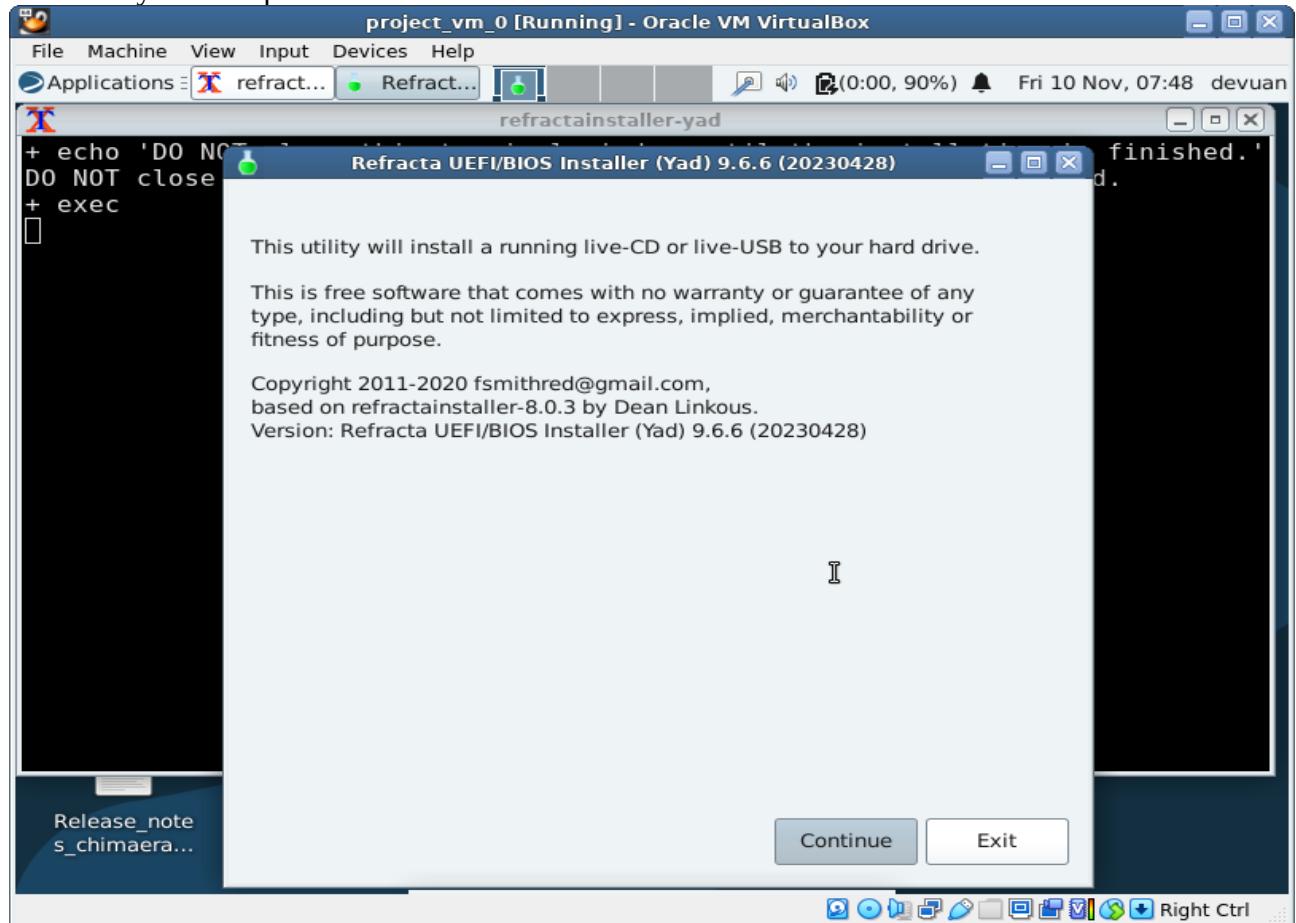
Näppäimistöasetukset voivat olla oleellisia Suomen oloissa. Nuolinäppäimillä valitaan “Other language”, sitten painetaan “tab”-näppäintä.



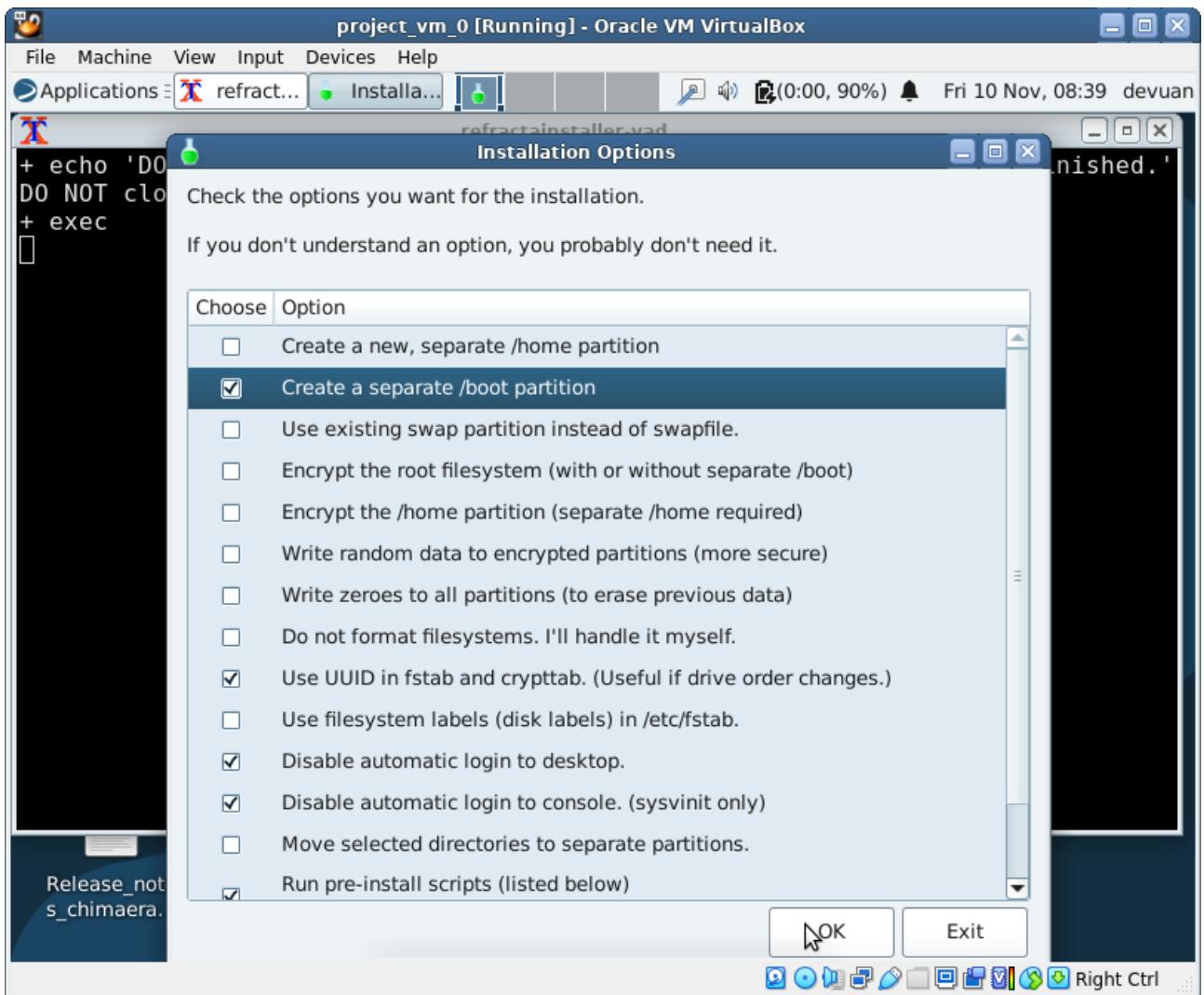
Kehote muokataan siten että löytyy "keyboard-layouts=fi". Sitten enter. Jonkin aikaa menee että latautuu.



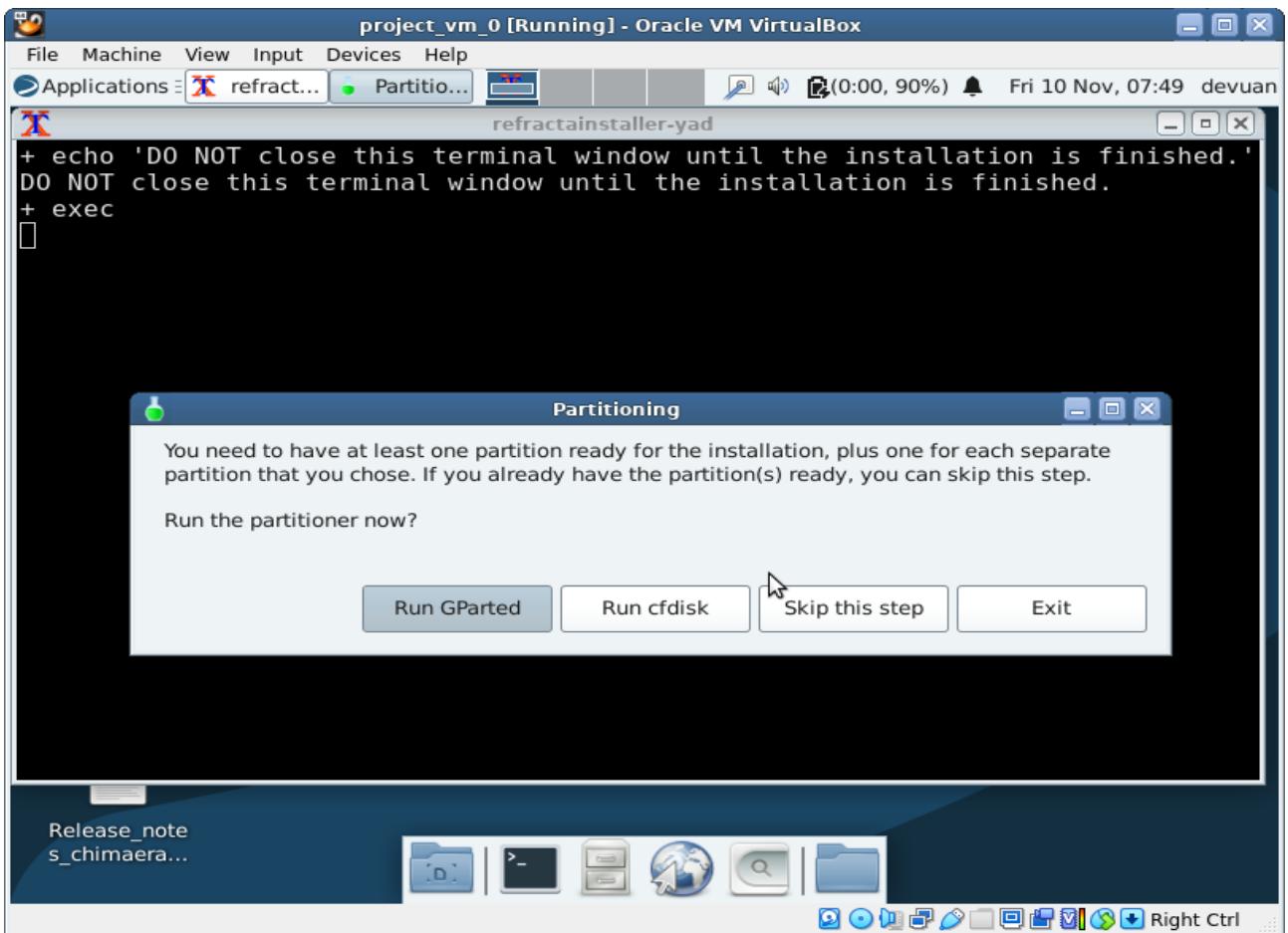
Tässä näkymässä tuplaklikataan "Install Devuan".



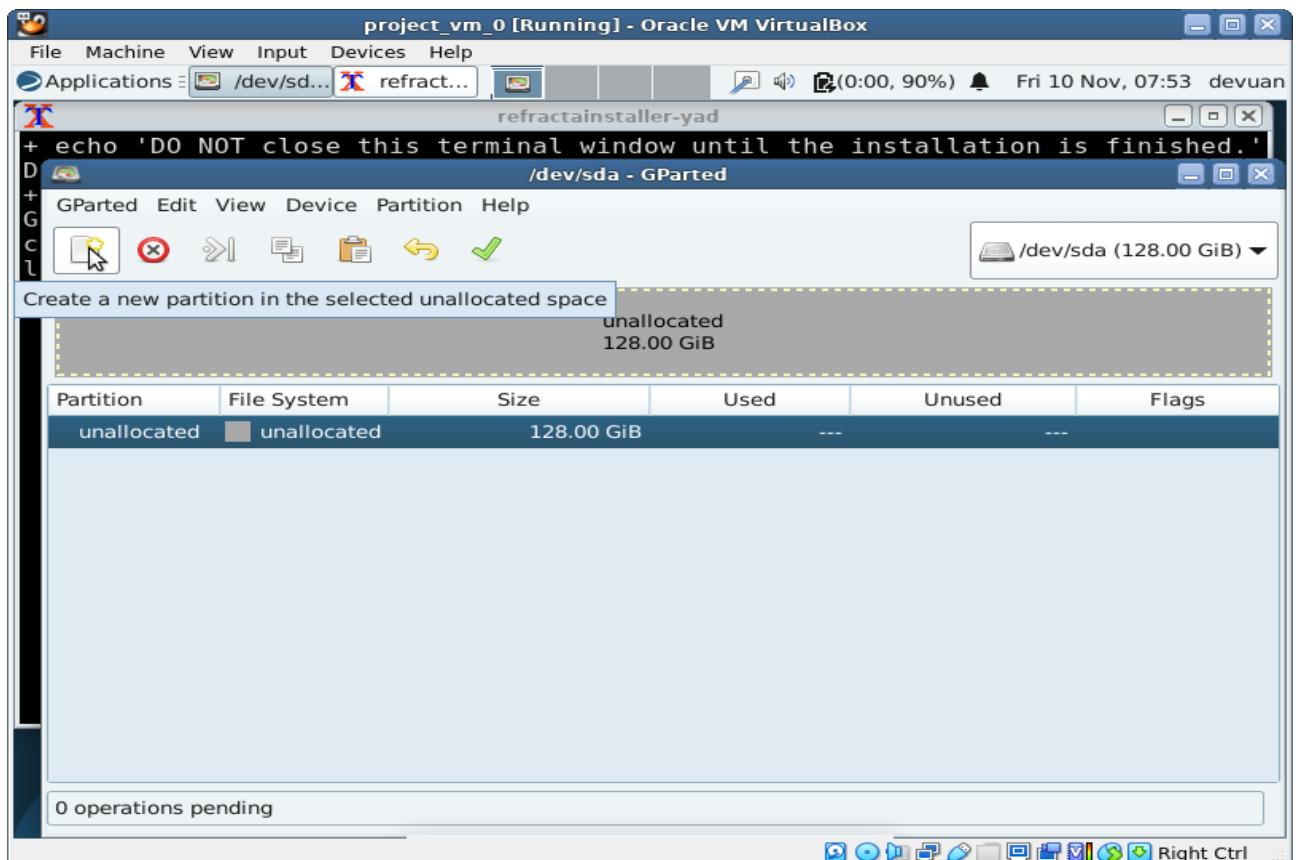
Sitten "Continue" pari kertaa ja "OK". (oletuksilla mennään)



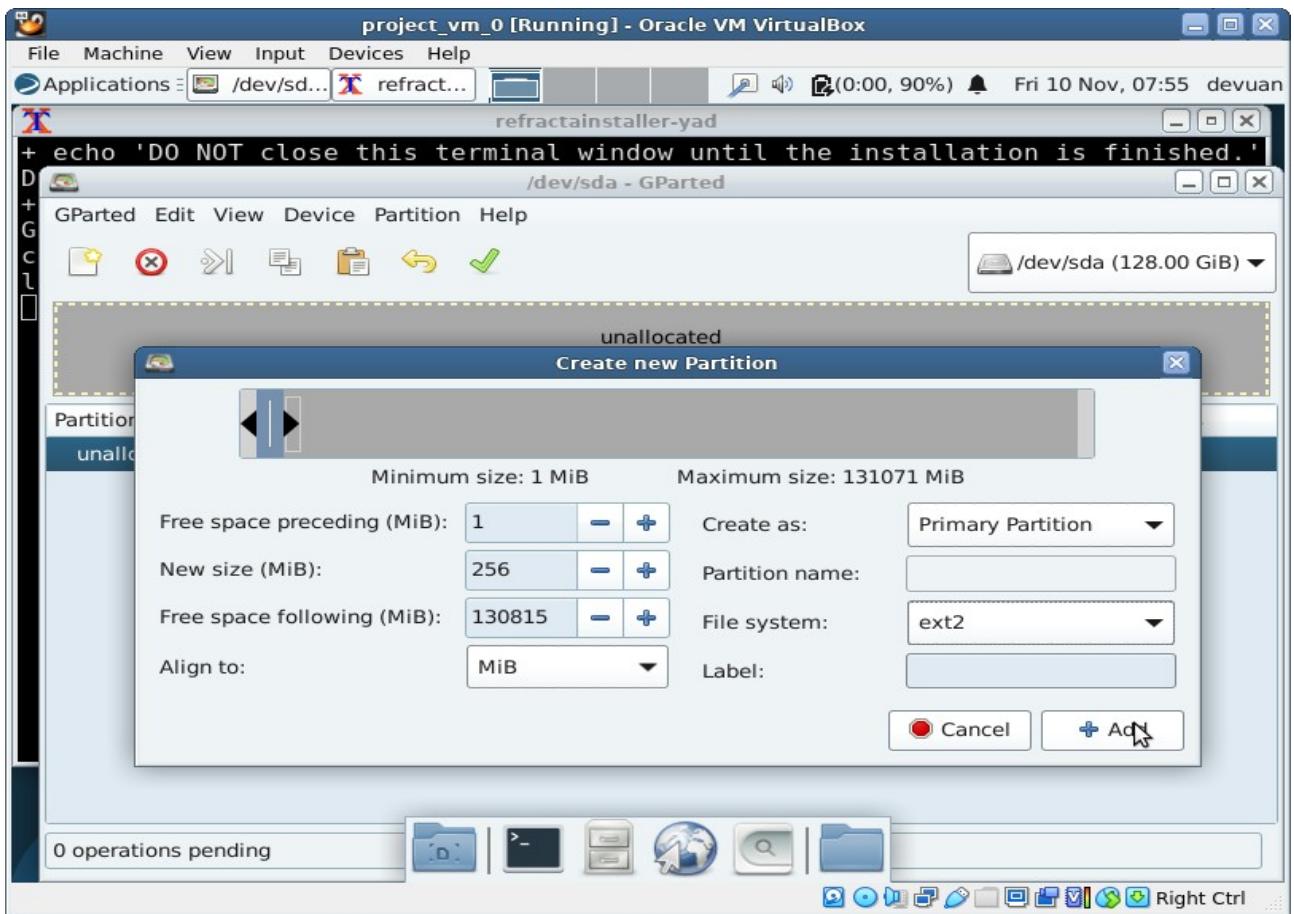
Tämän näkösessä kohdassa “create separate boot partition” jonka jälkeen “ok”.



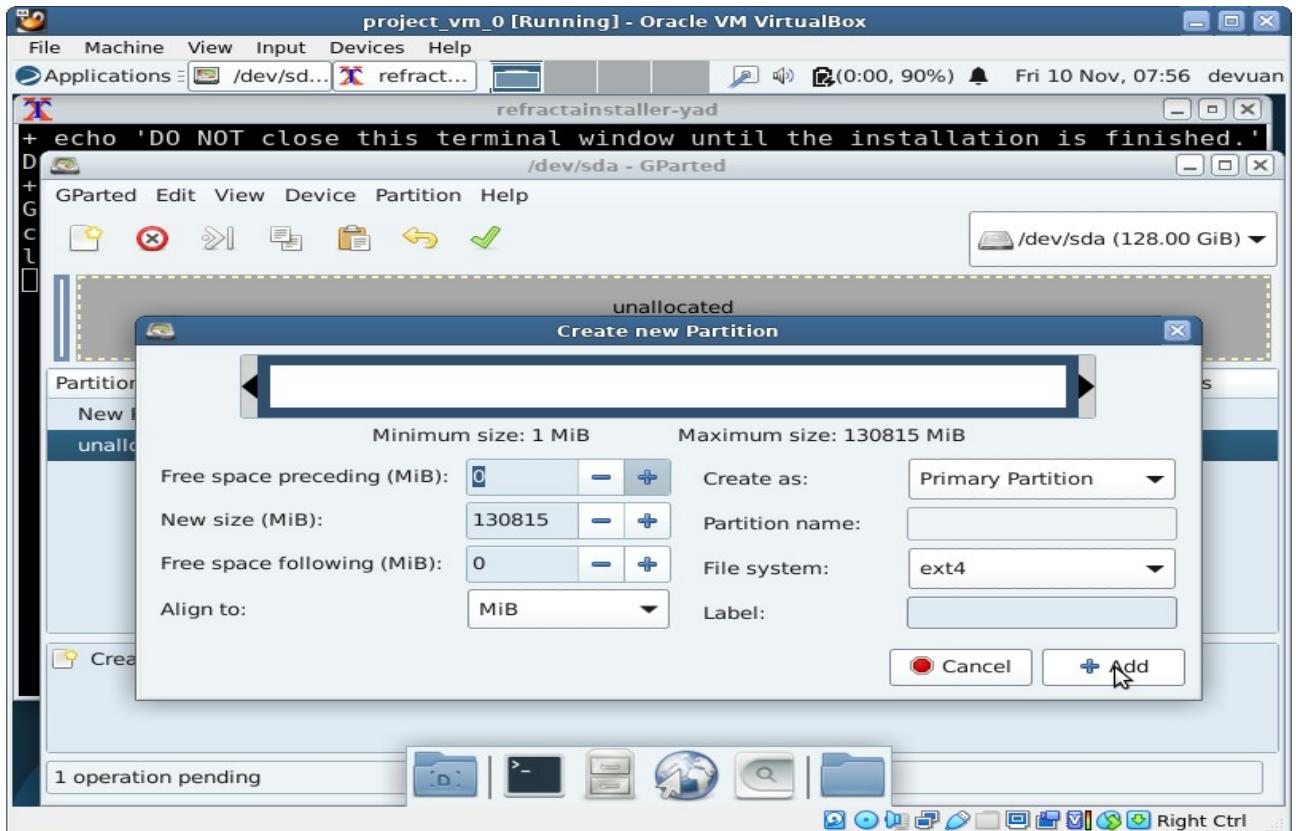
Ajetaan Gparted. Sitten "Device → create partition table, apply".



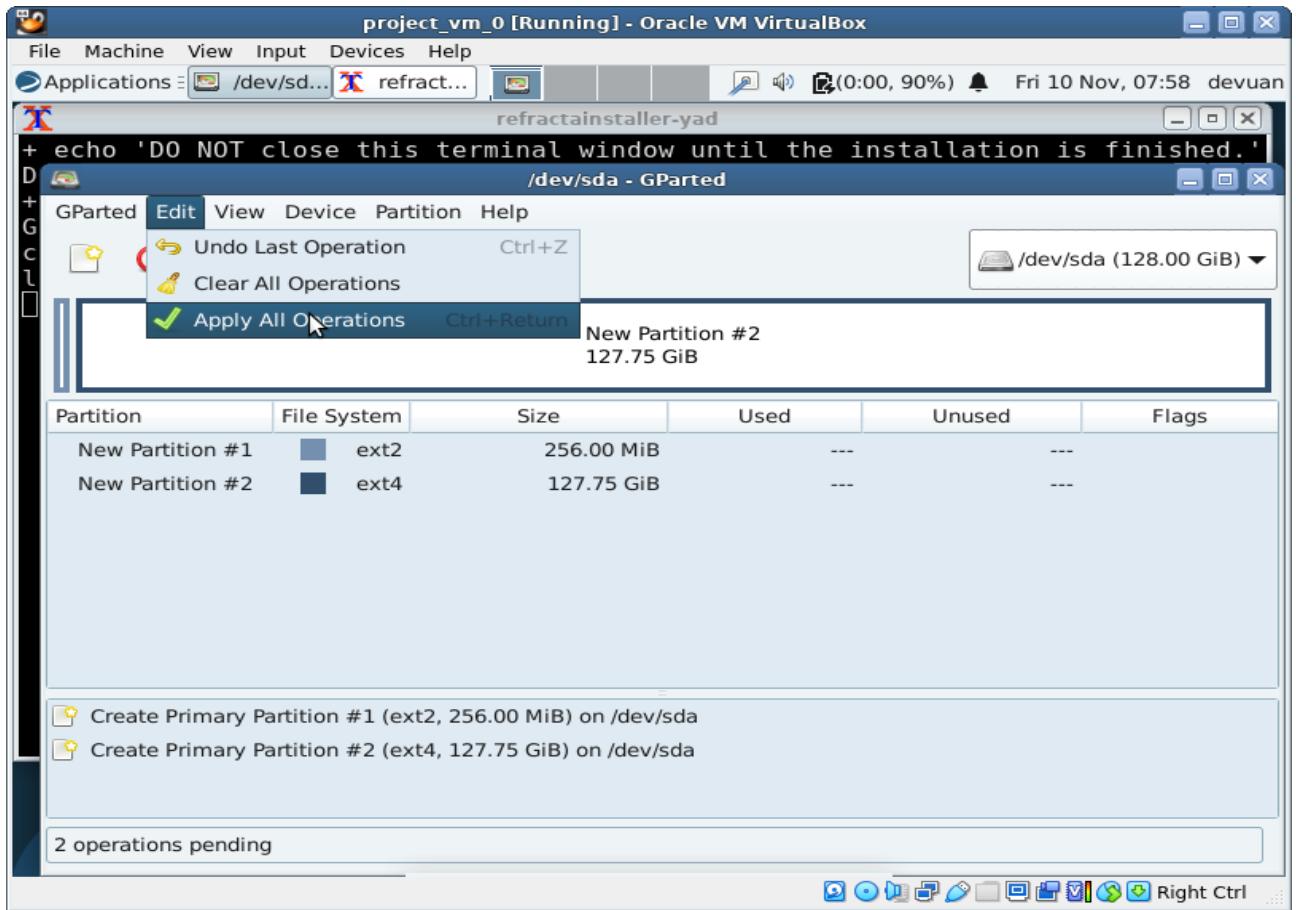
Sitten "Partition->new".



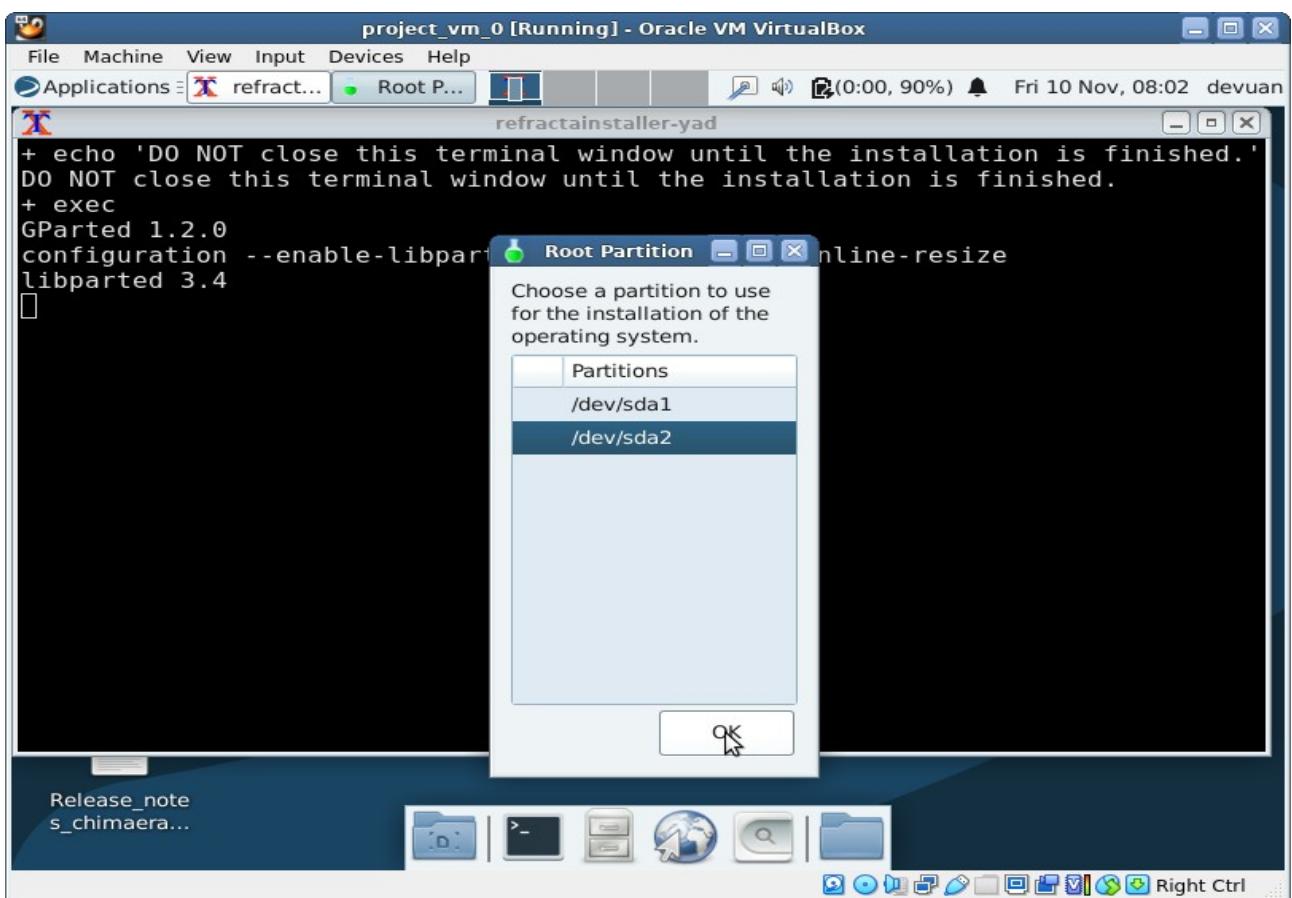
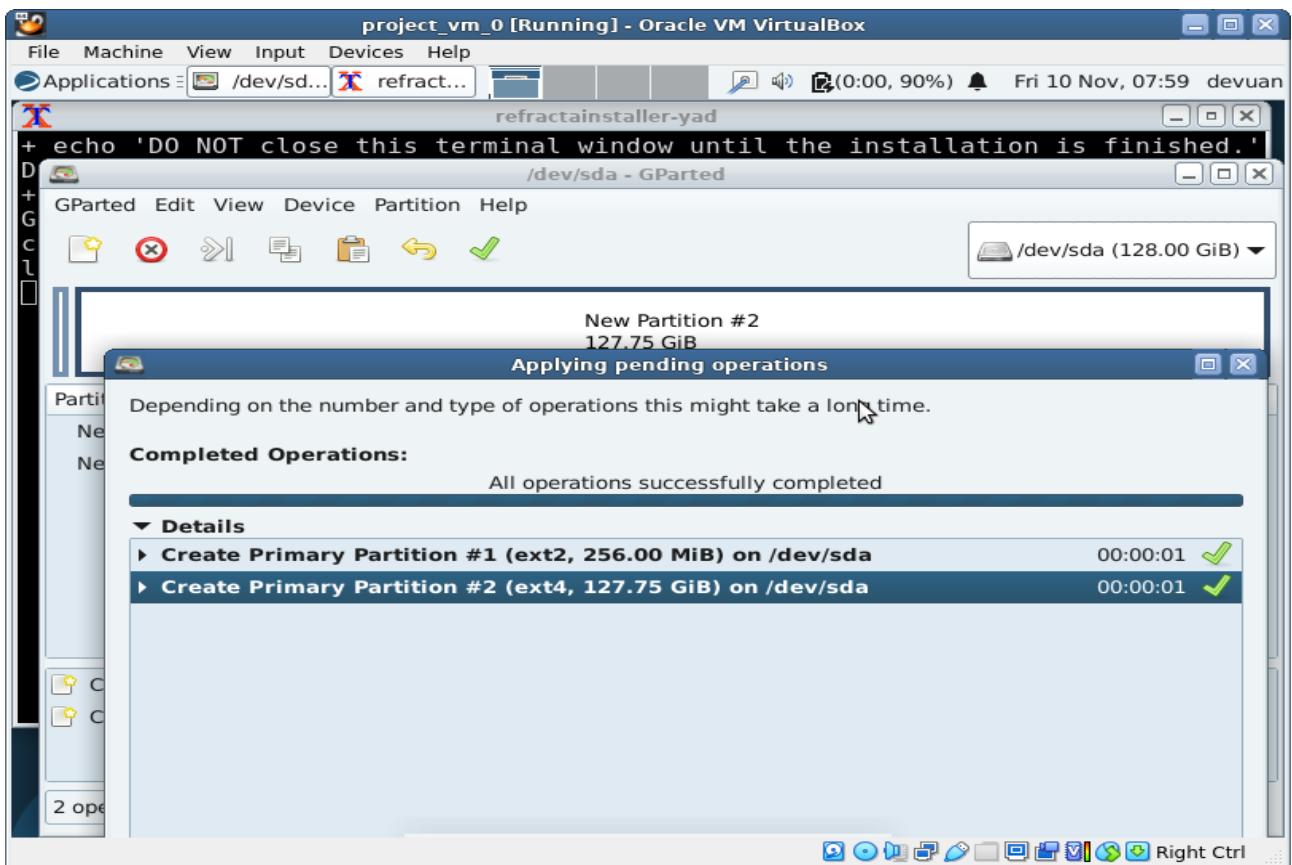
Boot-osiolle vaikkapa 256 megaa, tiedostojärjestelmä ext2, "Add". Loput root-osiolle.



Ext4 root-osion tiedostojärjestelmäksi. Lisäys "Add"-painikkeella kuten aiemmin.

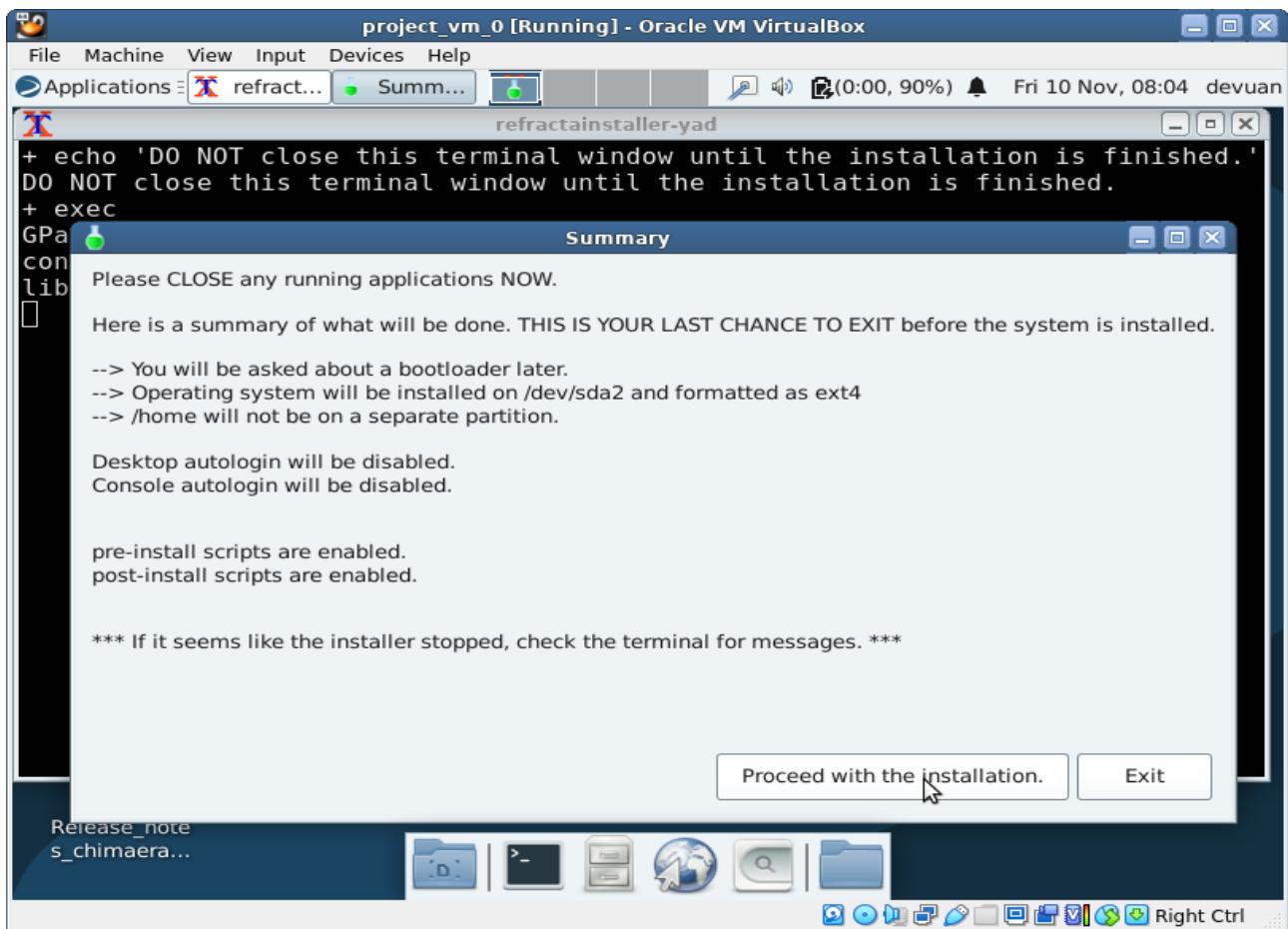


Muutokset talteen osiotaululle ("Edit->Apply All Operations"). Sitten pois osioinnista.
Eli "Gparted → Quit".

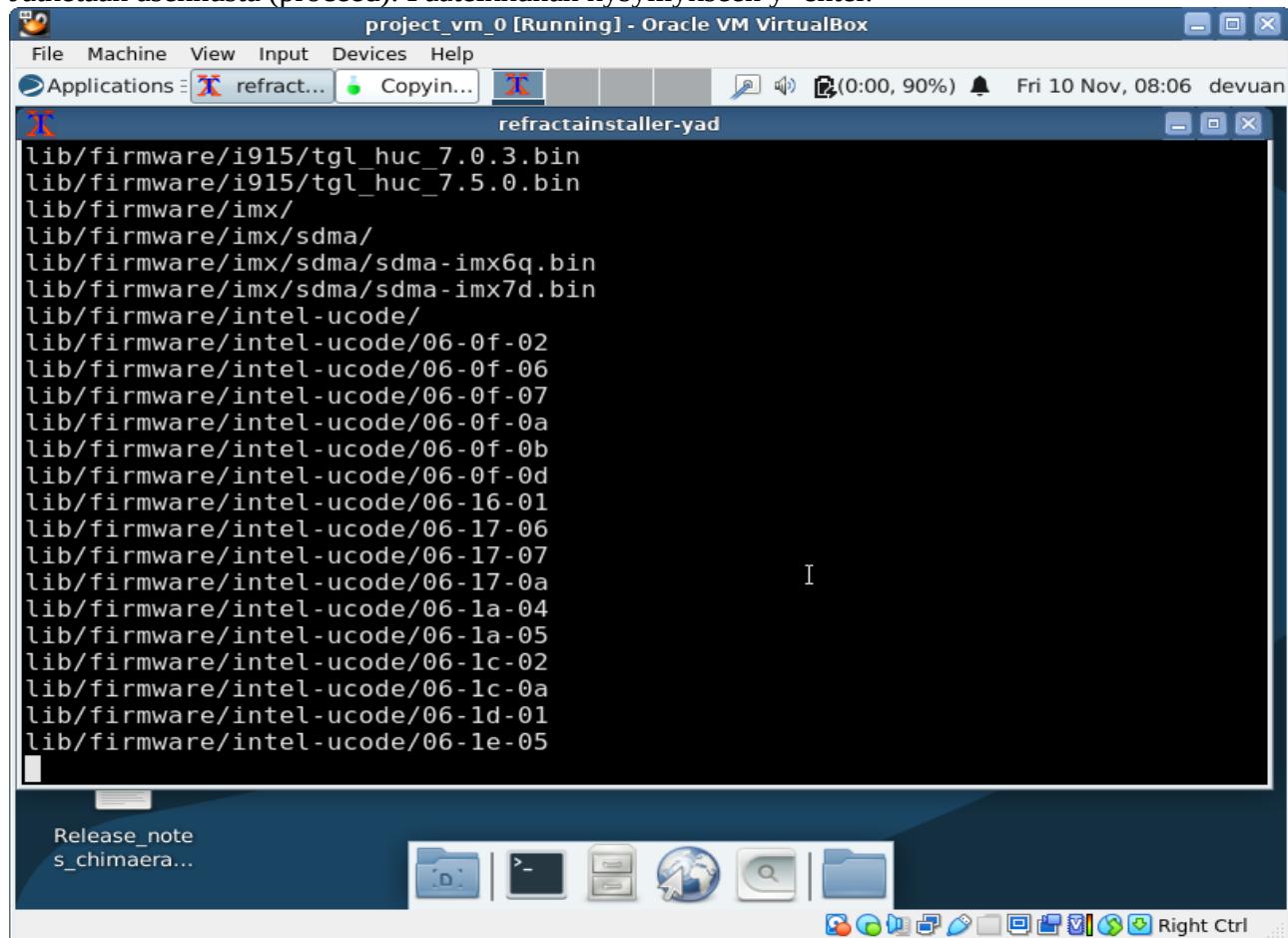


Boot-tiedostojärjestelmä menee osioille sda1.

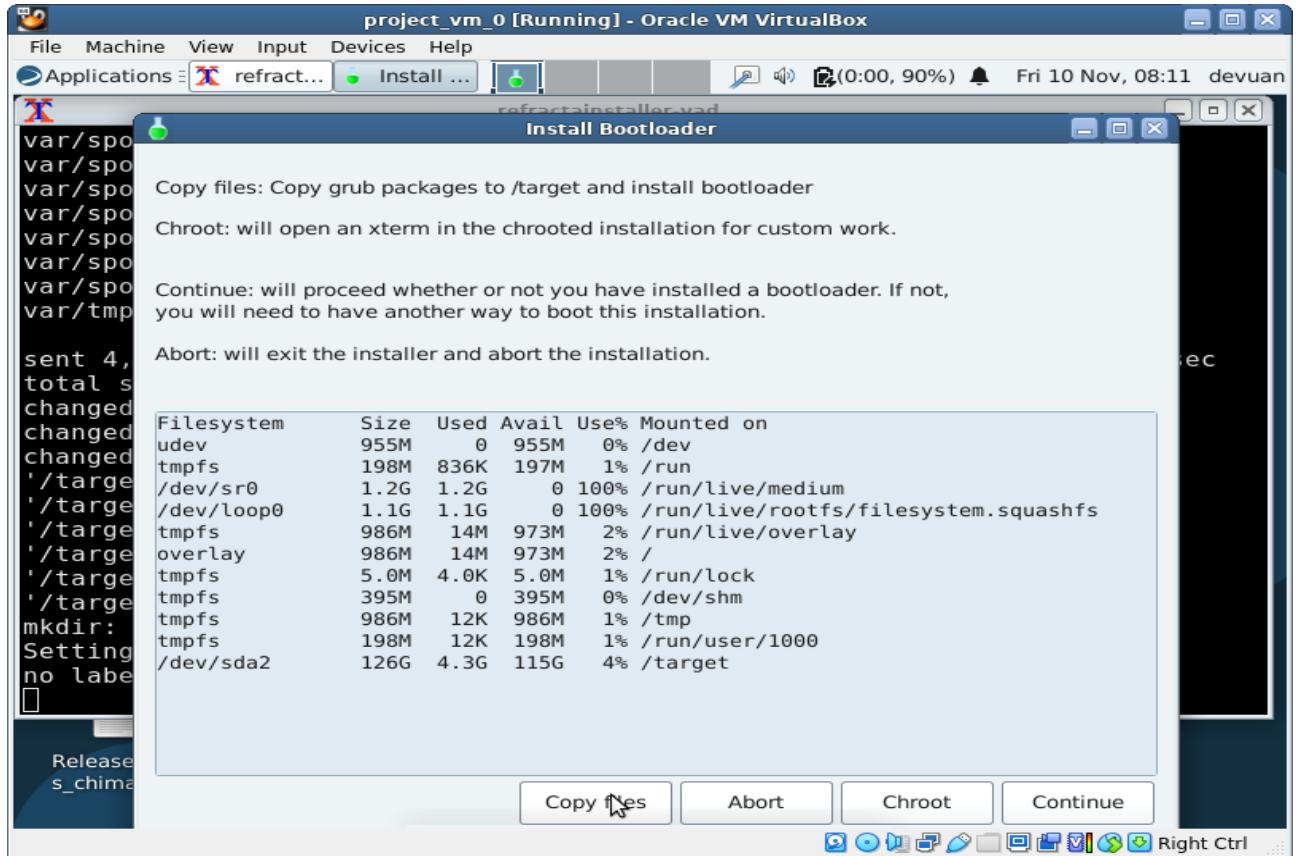
Root-tiedostojärjestelmä (vastaa windowsin C-asemaa) menee osioille sda2.



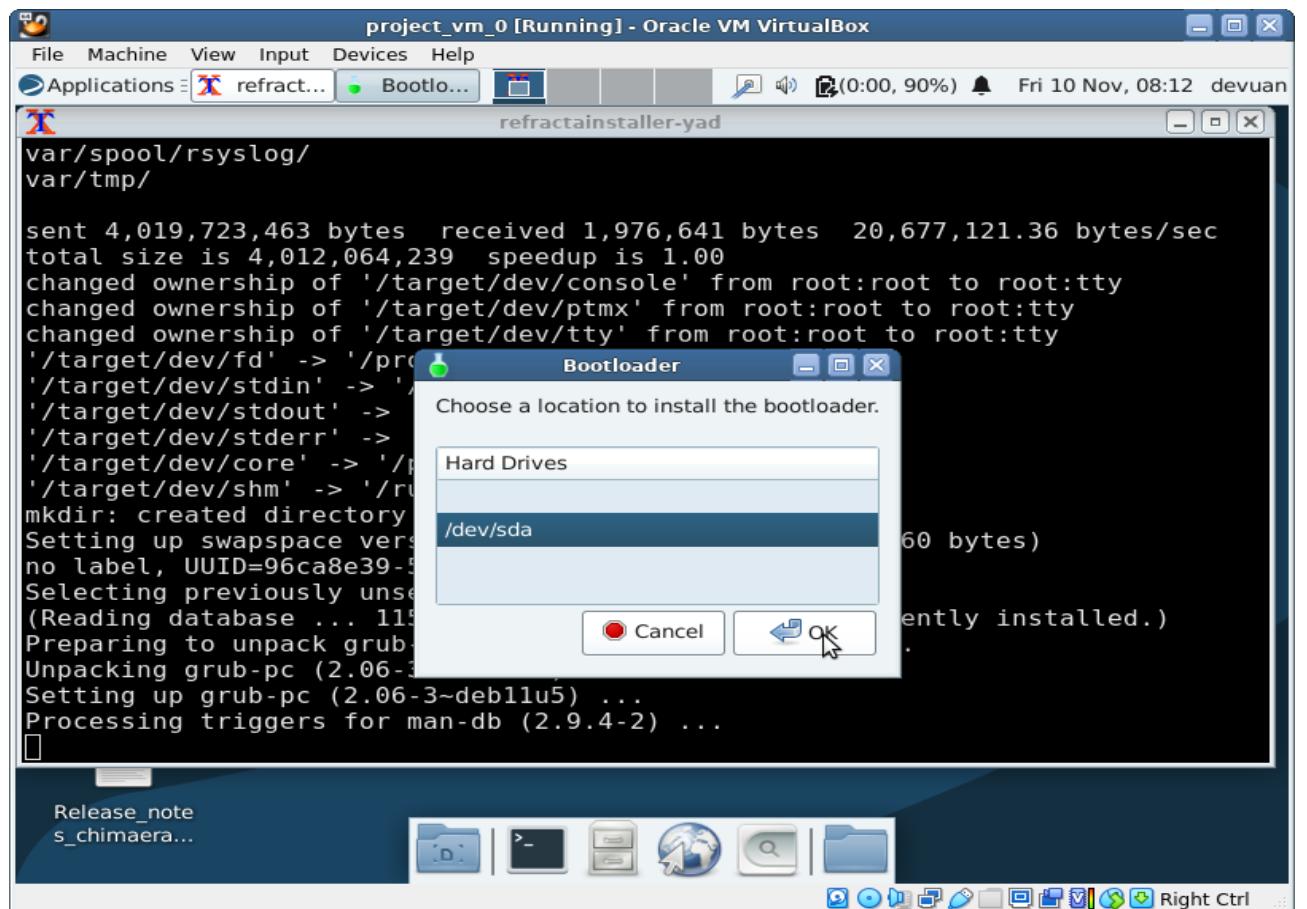
Jatketaan asennusta (proceed). Pääteikkunan kysymykseen y+enter.



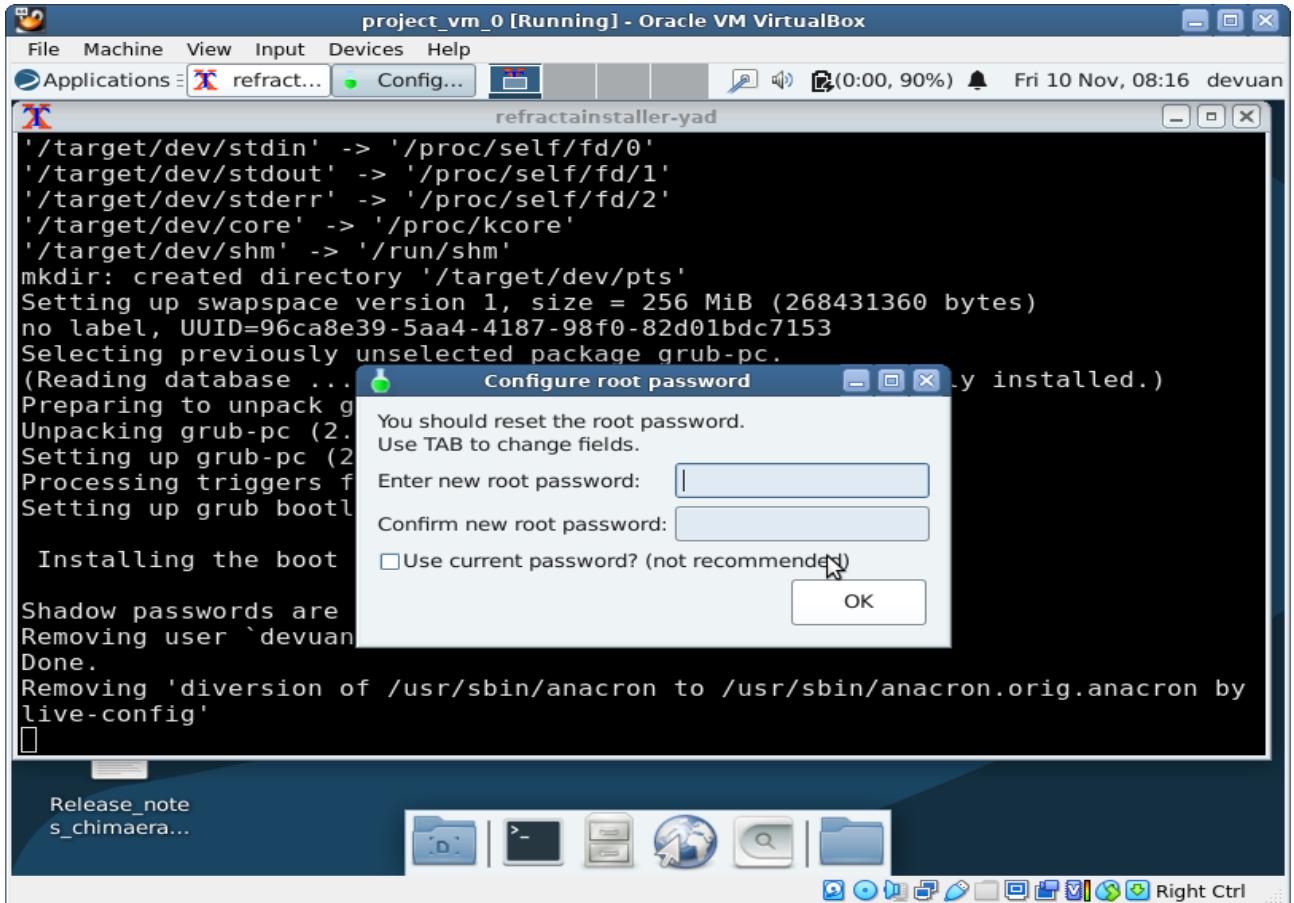
Root-osiolle kopioituu sisältöä. Menee jonkin aikaa. Sitten "Copy files". MBR seuraavaksi.



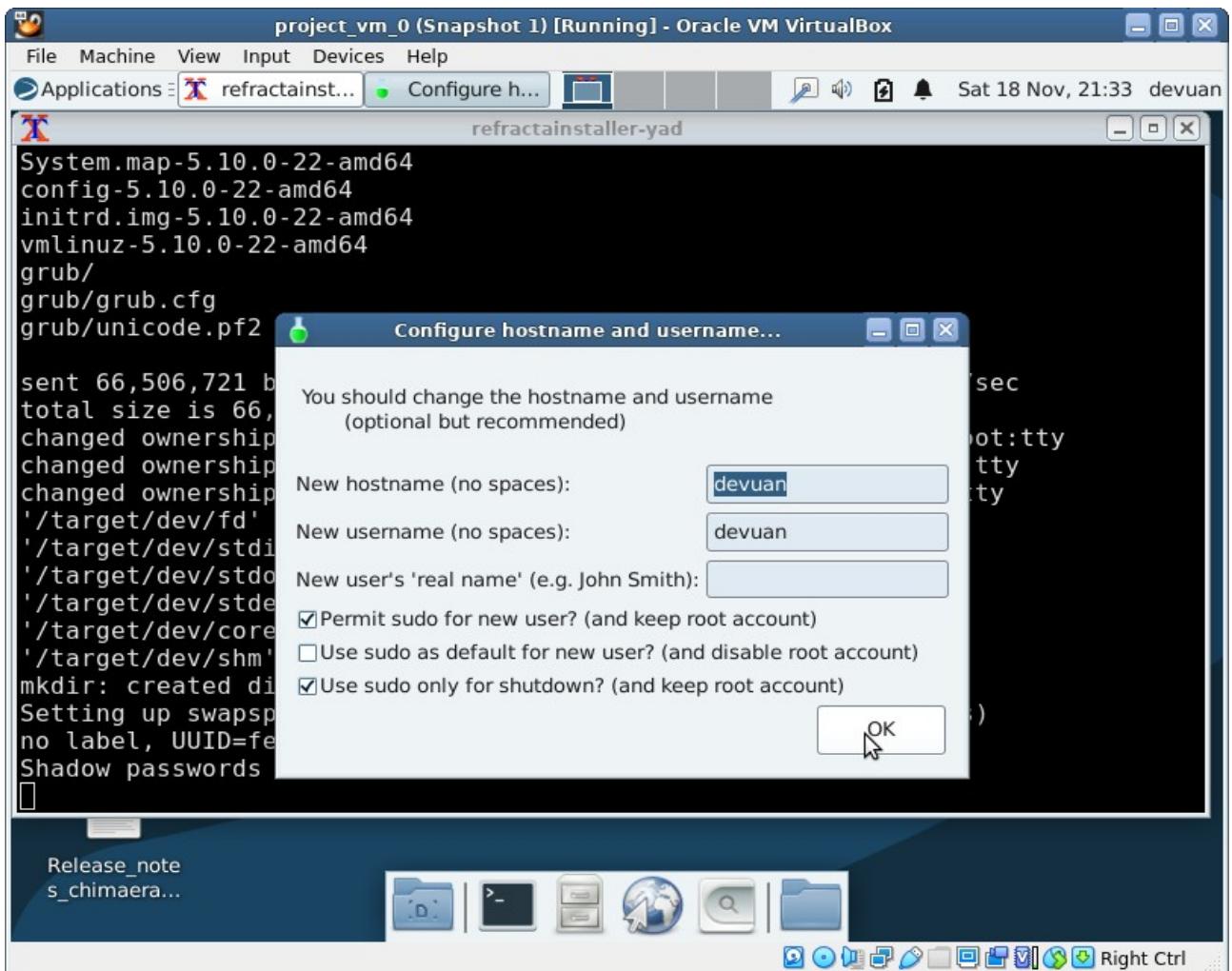
GRUB asentuu laitteelle sda.

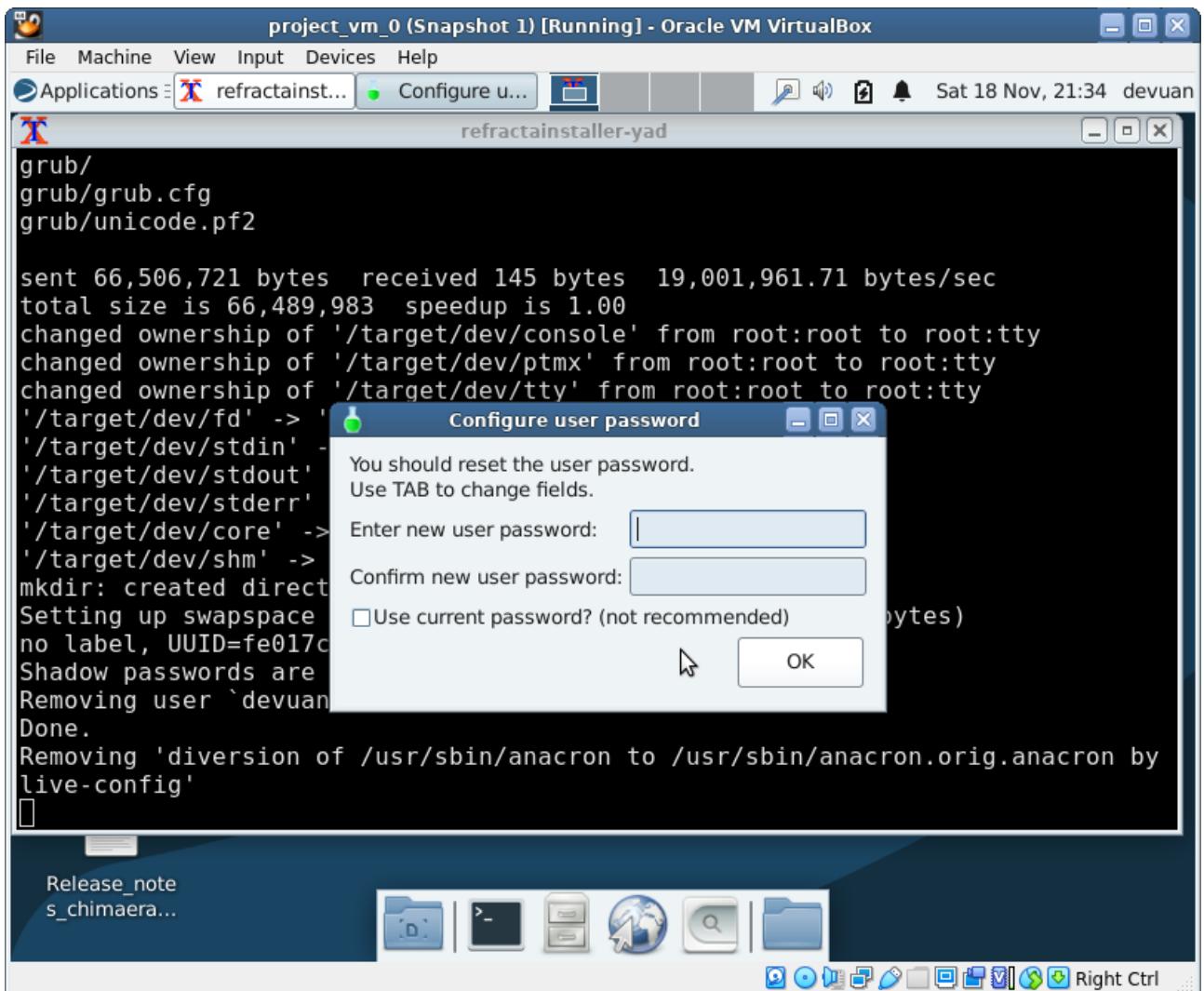


Sitten kysyy root-salasanaa.



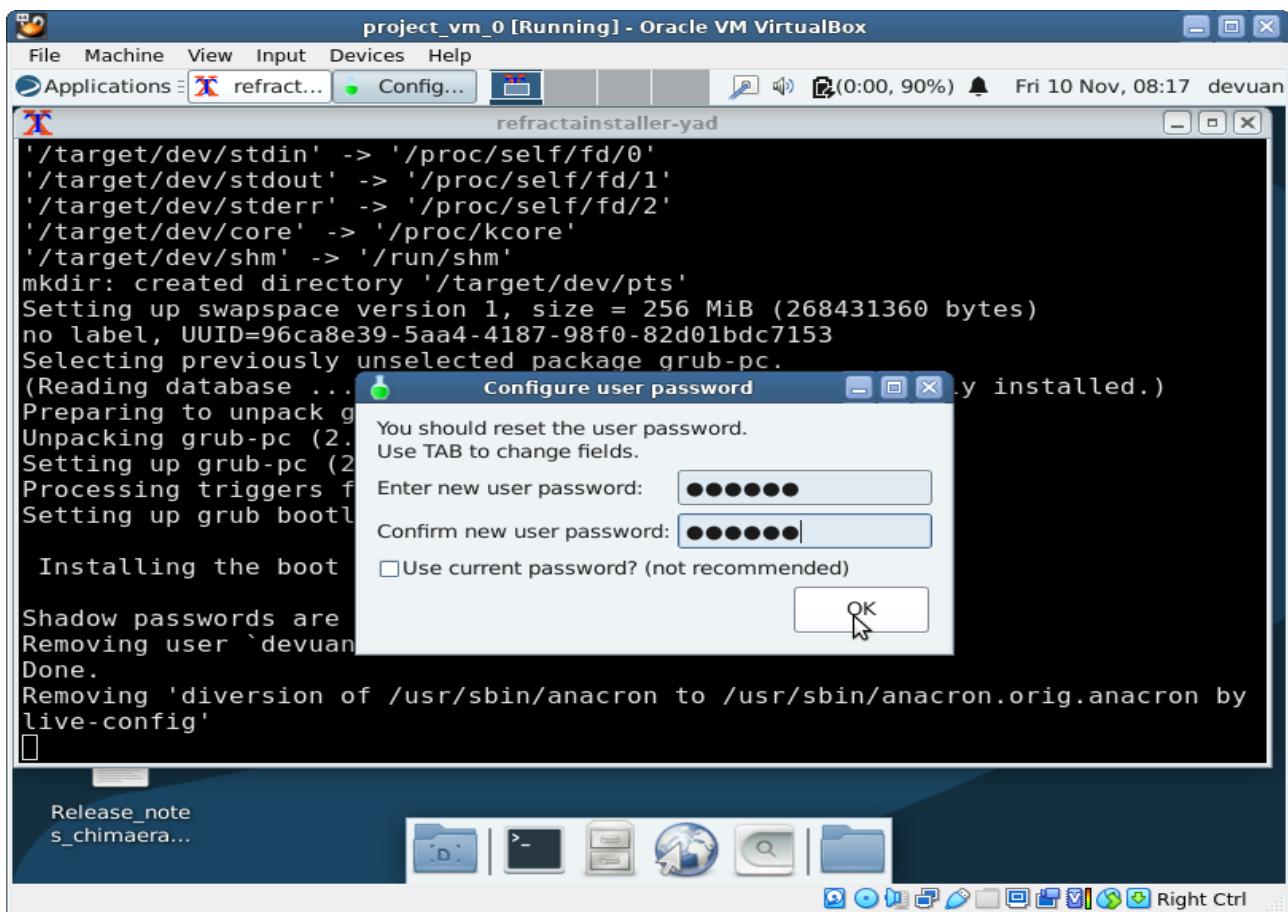
Sen jälkeen normaalikäyttäjän lisäys.



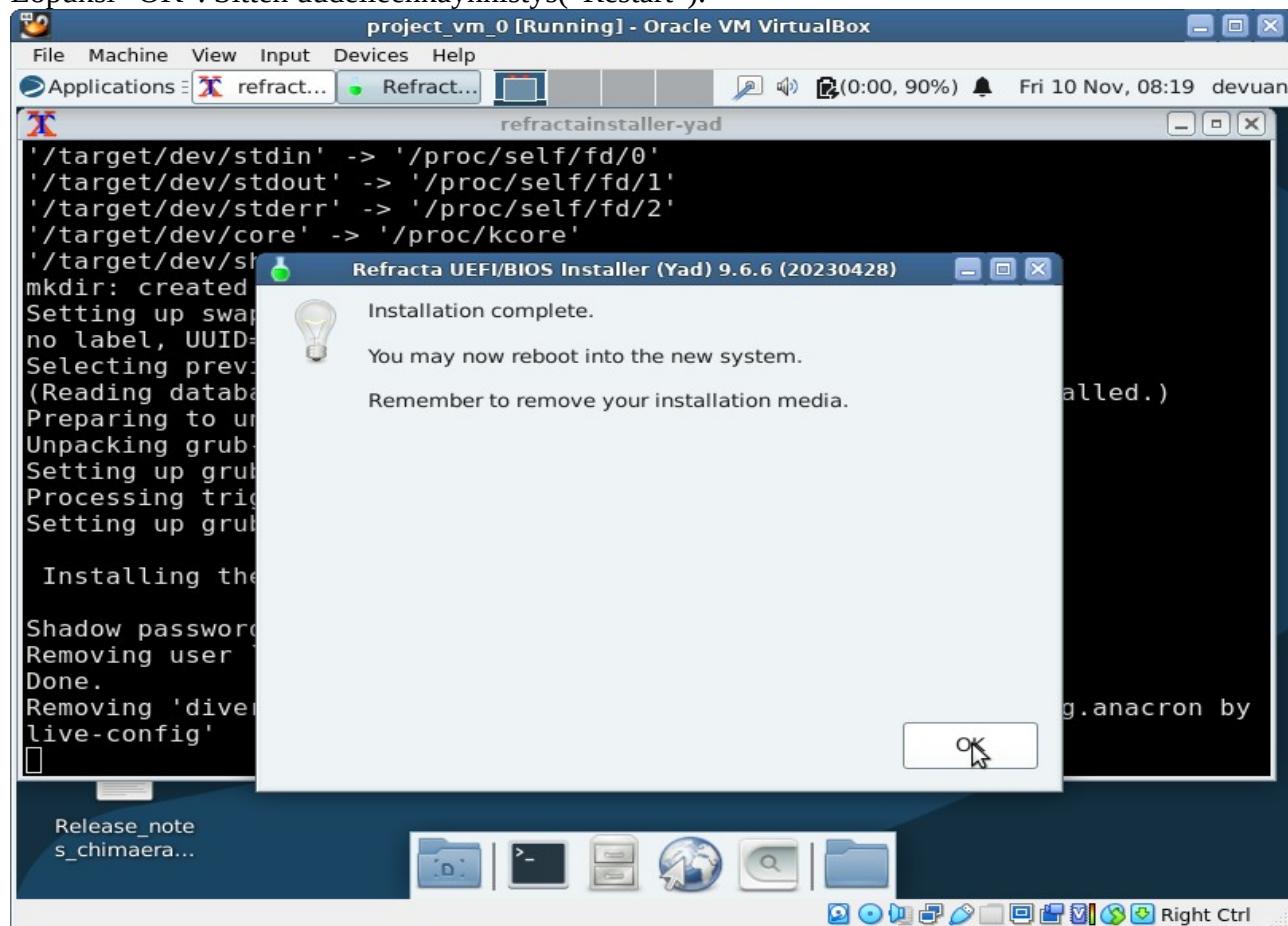


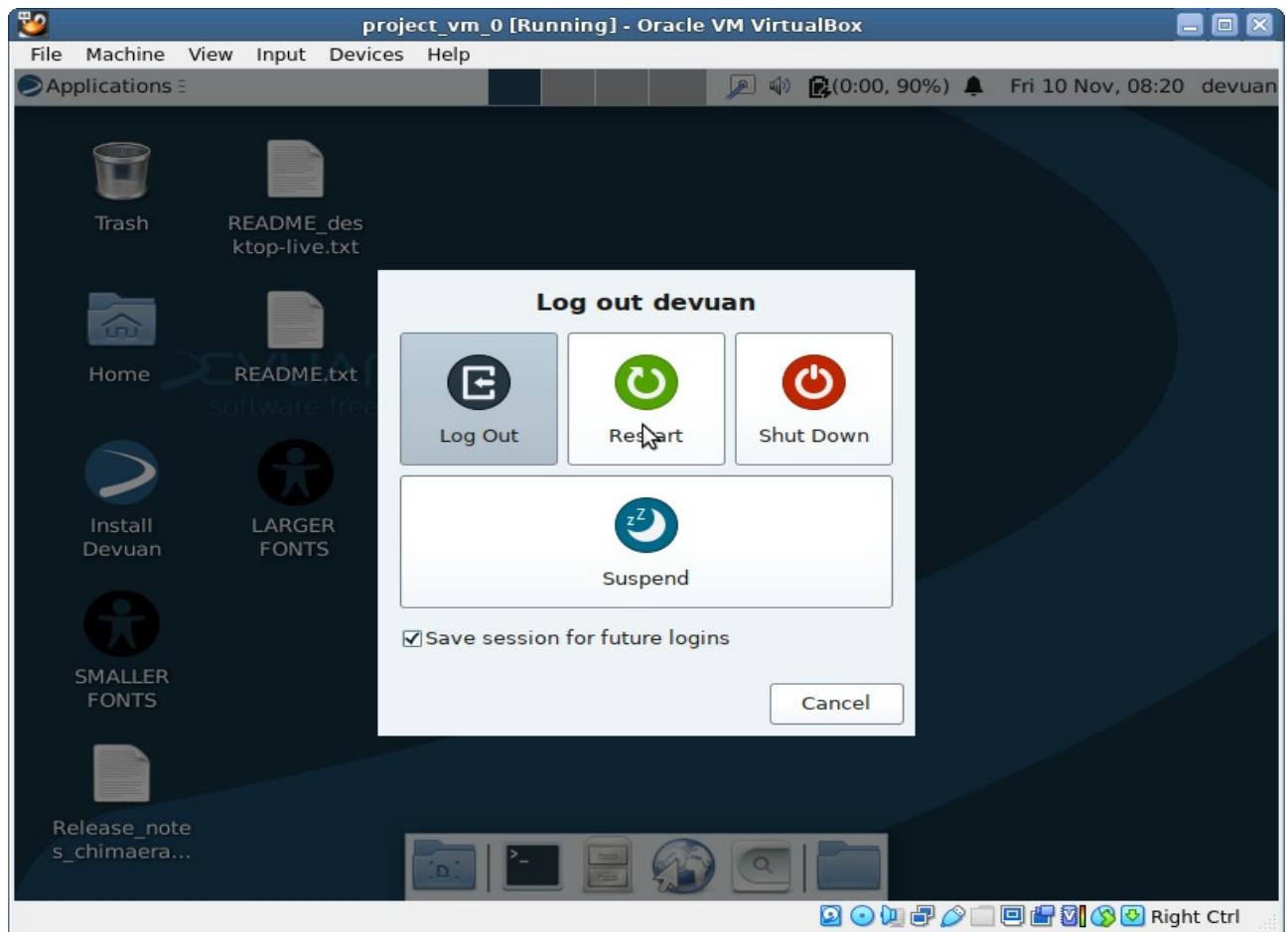
Salasana syötetään 2 kertaa jonka jälkeen klikataan "OK".

Normaalikäyttäjän ja root-tunnuksen salasanat syytä muistaa, niitä tarvitaan myöhemmin.



Lopuksi "OK". Sitten uudelleenkäynnistys ("Restart").





```
project_vm_0 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Starting Avahi mDNS/DNS-SD Daemon: avahi-daemon.
Starting bluetooth: bluetoothd.
[ 12.477023] alg: No test for fips(ansi_cprng) (fips_ansi_cprng)
[ 12.590623] Bluetooth: Core ver 2.22
[ 12.590988] NET: Registered protocol family 31
[ 12.591287] Bluetooth: HCI device and connection manager initialized
Starting Common Unix Printing System: cupsd.
[ 12.593880] Bluetooth: HCI socket layer initialized
[ 12.594193] Bluetooth: L2CAP socket layer initialized
[ 12.594673] Bluetooth: SCO socket layer initialized
[ 12.627365] Bluetooth: BNEP (Ethernet Emulation) ver 1.3
[ 12.627710] Bluetooth: BNEP filters: protocol multicast
[ 12.628022] Bluetooth: BNEP socket layer initialized
Starting CUPS Bonjour daemon: cups-browsed.
Starting session management daemon: elogind.
Starting MD monitoring service: mdadm --monitor.
Starting network connection manager: NetworkManager.
[ 13.399701] e1000: eth0 NIC Link is Up 1000 Mbps Full Duplex, Flow Control: RX
[ 13.400486] IPv6: ADDRCONF(NETDEV_CHANGE): eth0: link becomes ready
Starting NTP server: ntpd.
Starting SANE network scanner server: saned.
Starting slim: slim.
Linux devuan 5.10.0-22-amd64 #1 SMP Debian 5.10.178-3 (2023-04-22) x86_64

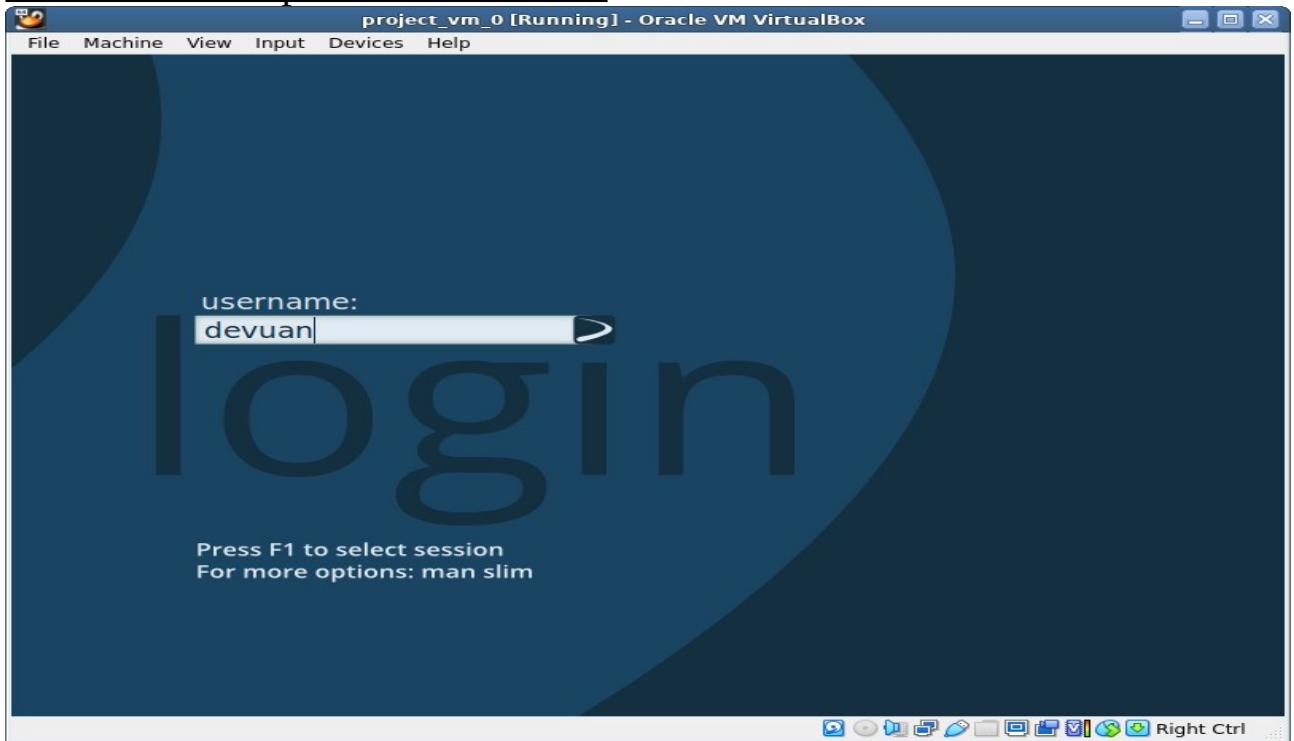
The programs included with the Devuan GNU/Linux system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/*copyright.

Devuan GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.
devuan@devuan:~$ 
Broadcast message from root@devuan (Fri Nov 10 08:21:54 2023):
The system is going down for reboot NOW! →
Please remove the live-medium, close the tray (if any) and press ENTER to continue:_

```

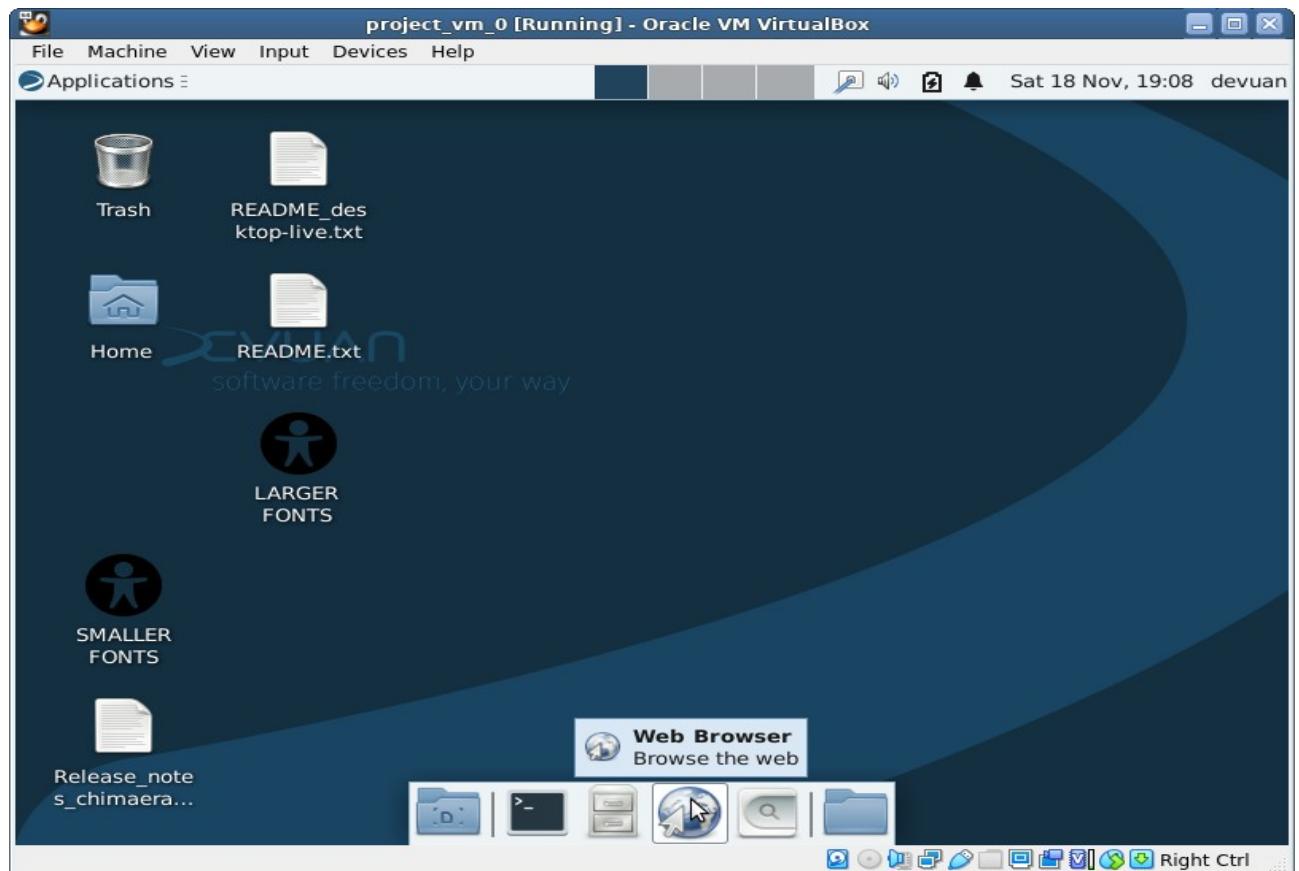
Tässä kohtaa painetaan enter.

15. sovelluksen paketti vkoneeseen

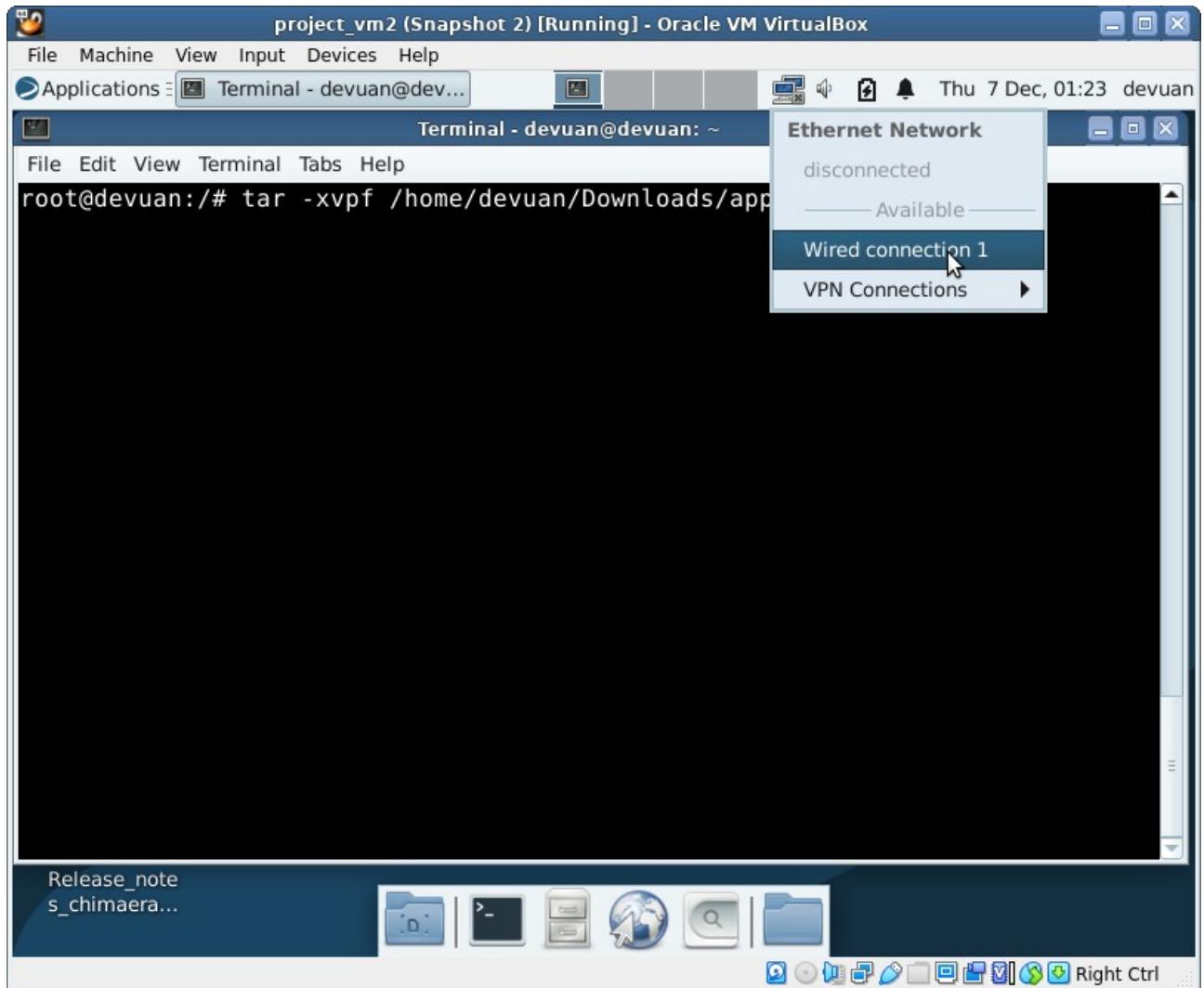


Tässä syötetään se normaalikäyttäjän tunnus(eli “devuan”)+enter. Sen jälkeen salasana+enter.

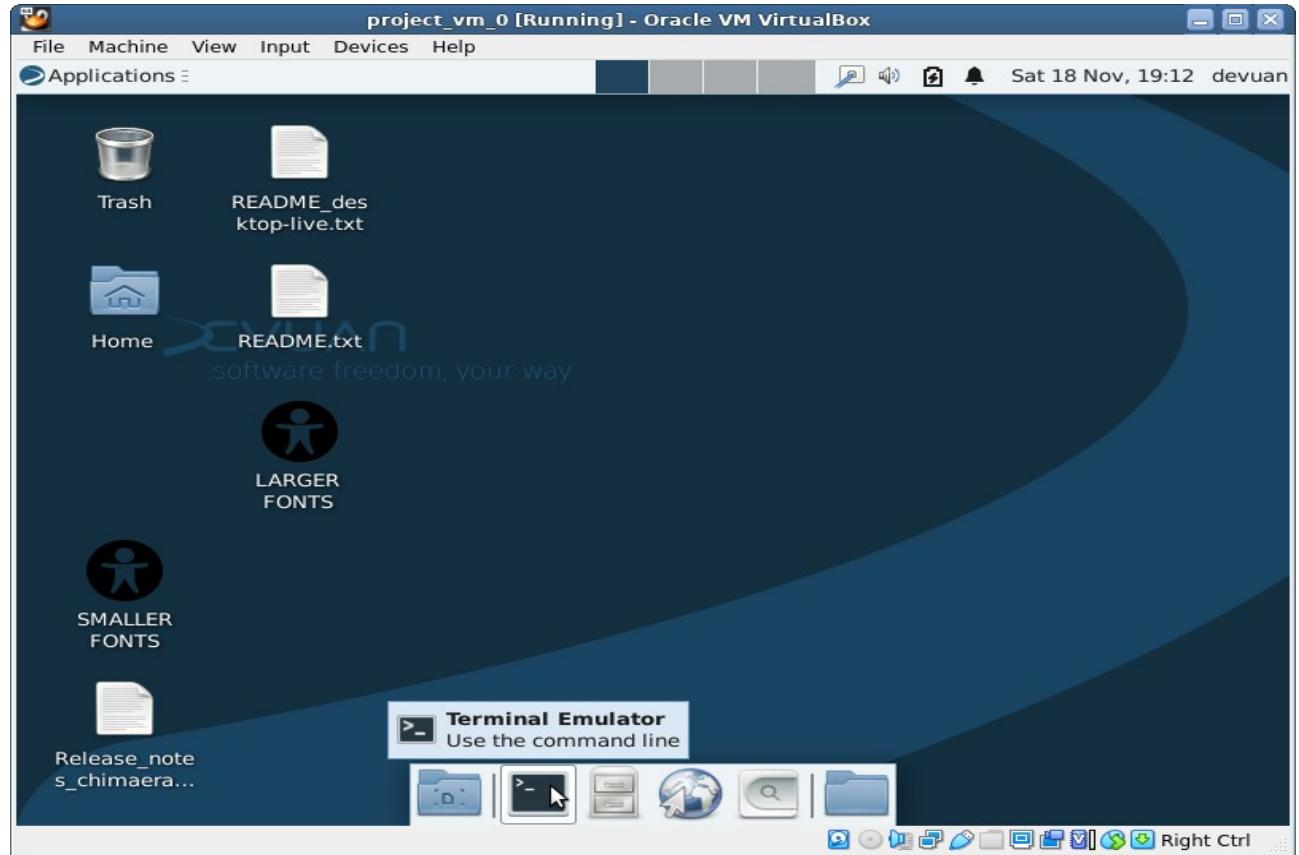
Devuan-tunnusella haetaan asennuspaketti virtuaalikoneen sisälle. Voi hakea selaimellakin. Selain aukeaa “tarjottimen” “maapallo”-kuvakkeesta.



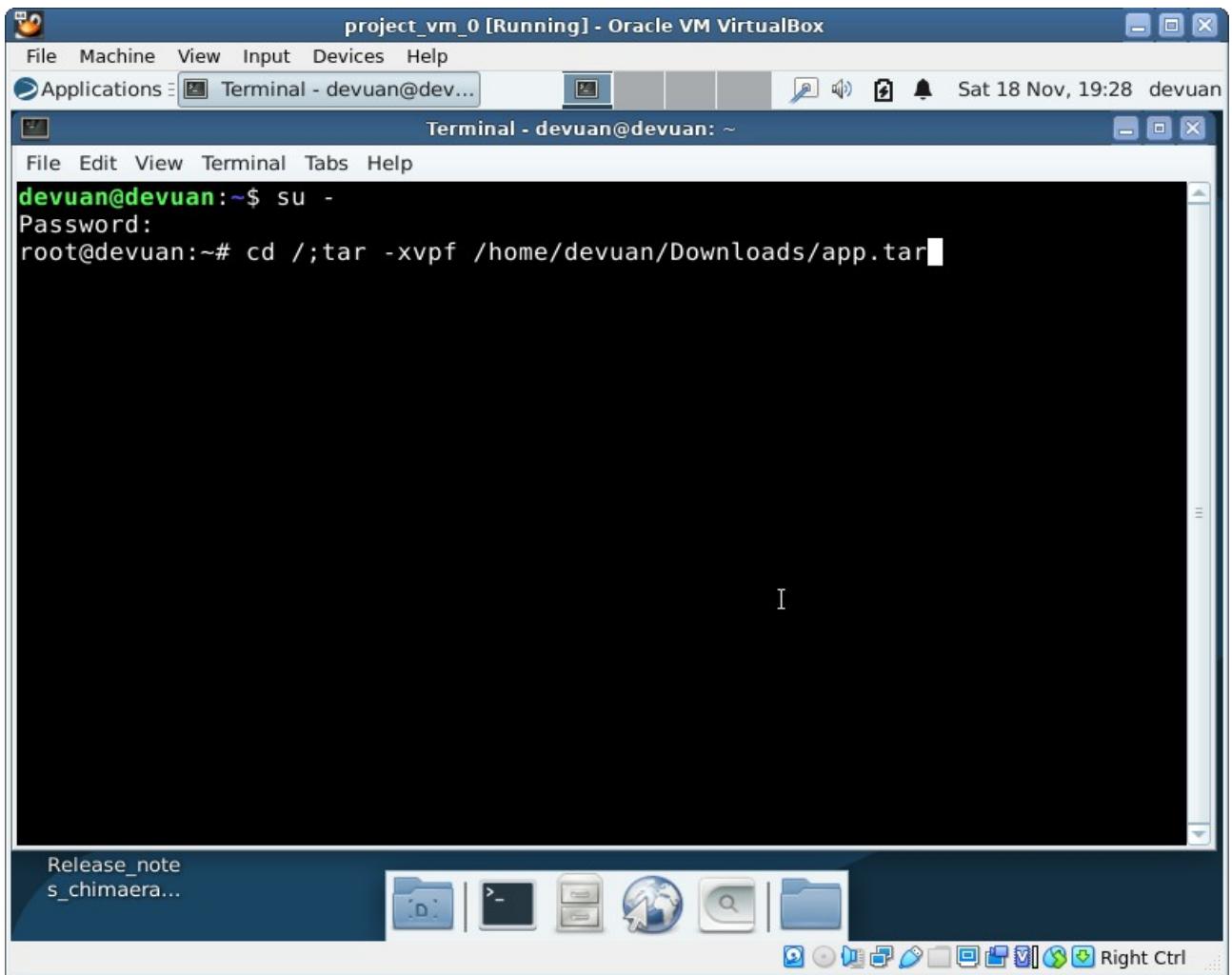
Huom. Jos verkkoyhteys ei käytössä niin kaiutin-kuvakkeen vasemmalta puolelta löytyy verkkoyteyksistä vastaava kuvake. Vasemmalla painikkeella klikkaamalla saa ao. Kuvan mukaisen valikon näkyviin. Klikkaamalla kohtaa "Wired connection 1" pitäisi yhteyden muodostua. Toinen vaihtoehto on ajaa root-tunnusella komennot /sbin /ifdown eth0 ja /sbin /ifup eth0.



Kun paketti haettu, käynnistetään päätte. Tarjottimessa klikataan päätte-kuvaketta eli toinen vasemmalta.

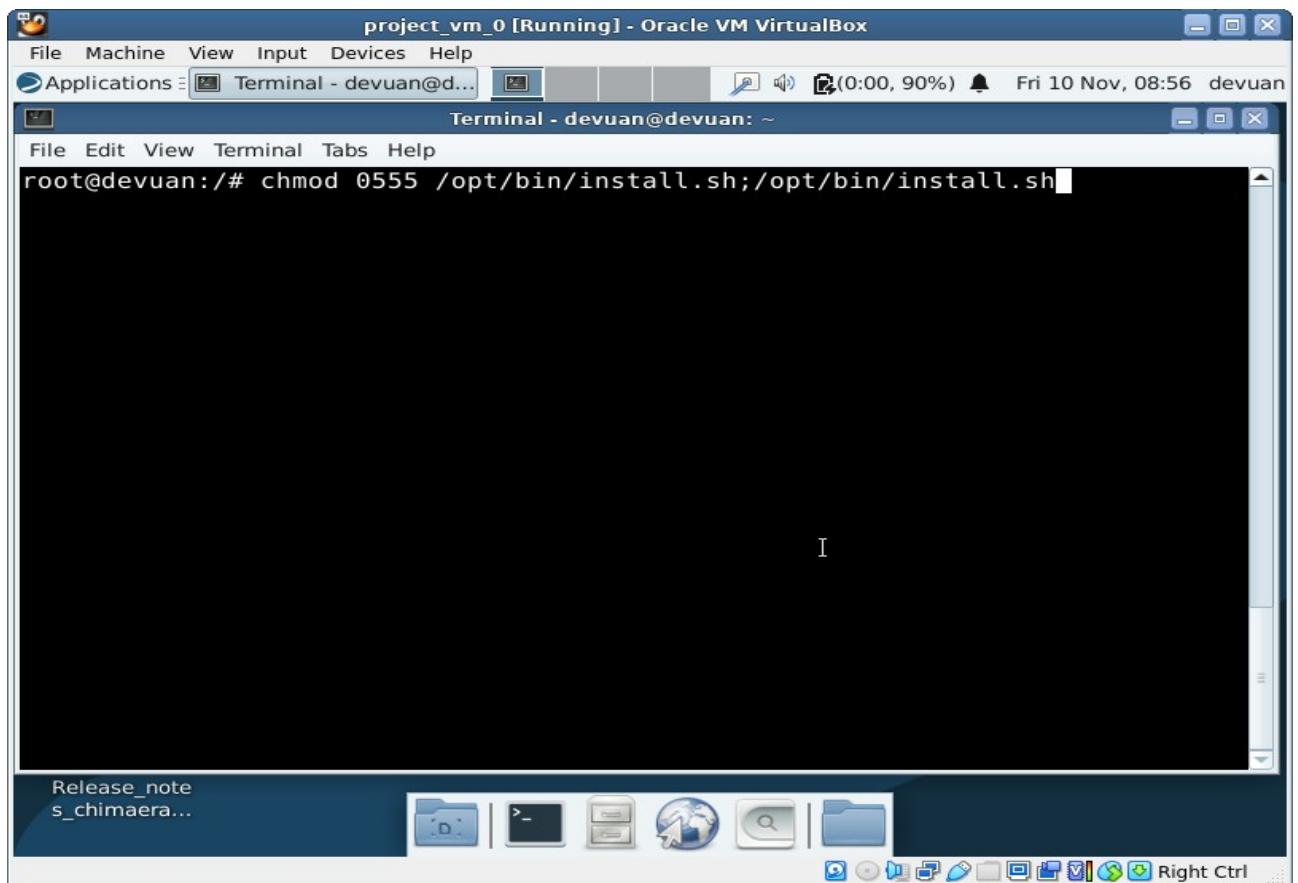


Sen jälkeen siirrytään root-tunnuselle antamalla päteikkunassa komento "su -"+enter. Tässä tarvitaan se root-tunnuksen salasana.



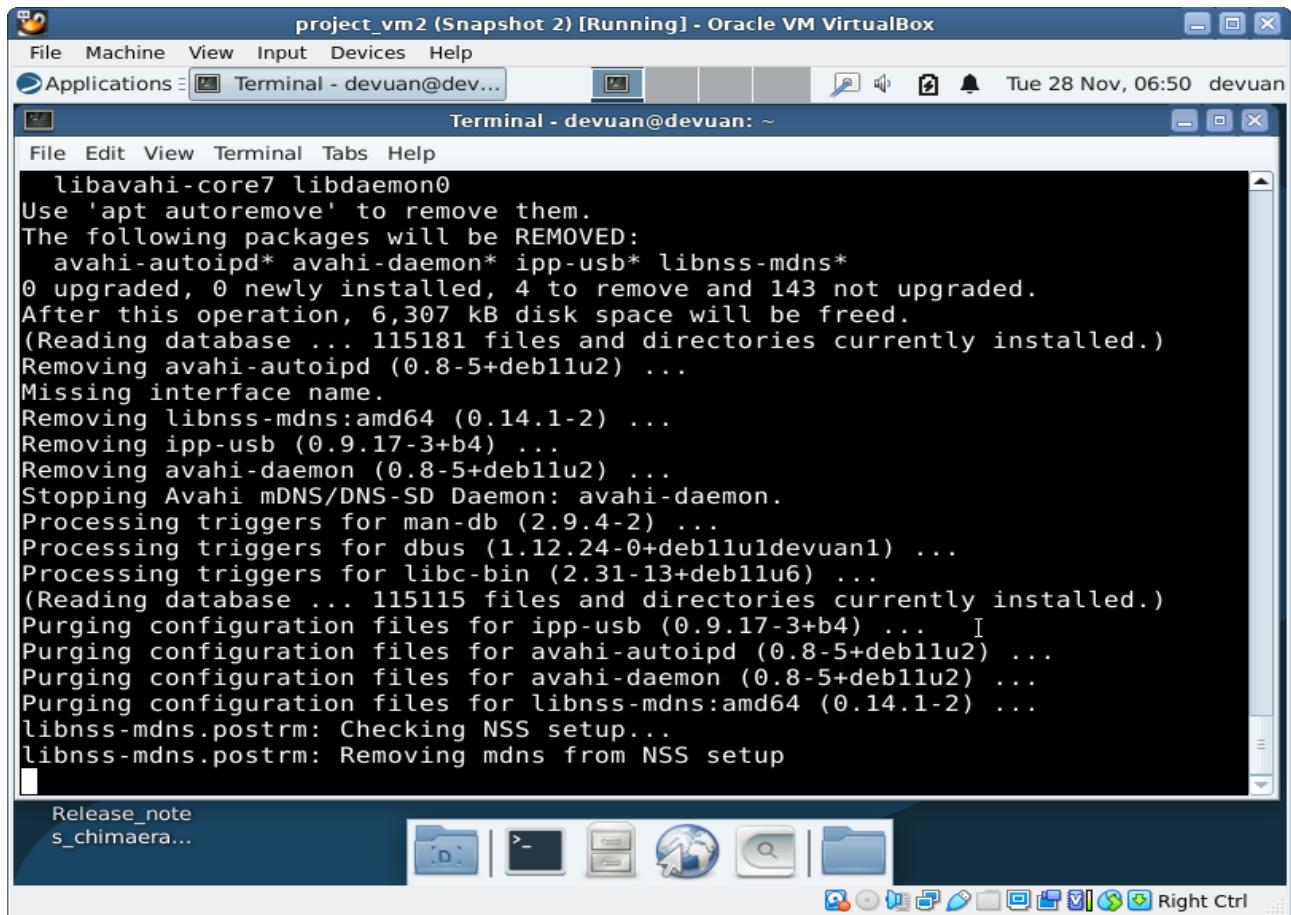
Tällä komennolla puretaan asennuspaketti. (cd /;tar -xvpf /home/devuan/Downloads/app.tar + enter)
Tiedoston nimi voi vähän poiketaan tuosta esimerkistä.

16. skriptien ajo

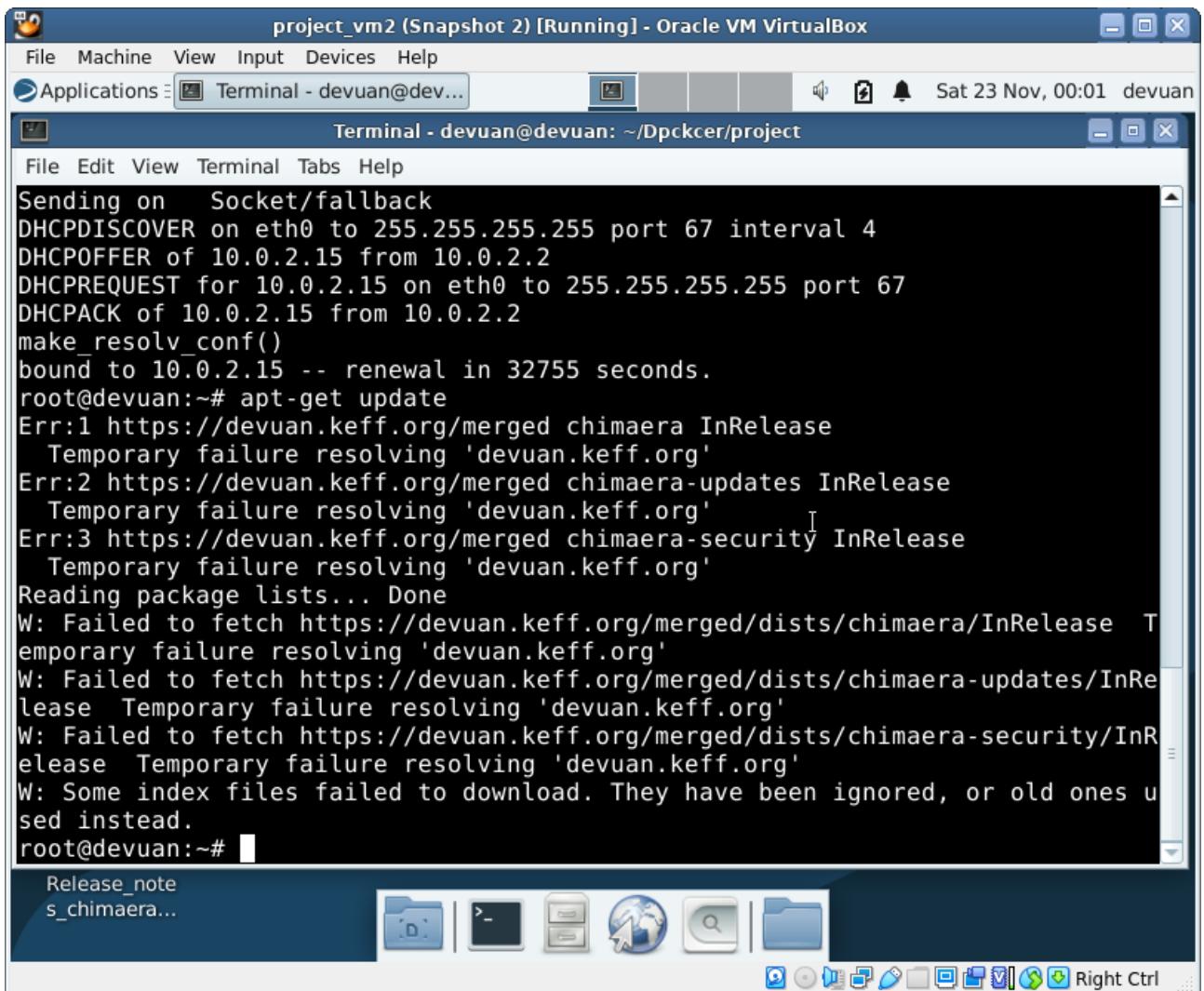


Skripti /opt/bin/install.sh laittaa asiat kuntoon konttien demoamista varten.
Varmuuden vuoksi skriptin oikeudet asetetaan kohdalleen ennen ajoa.
(juuressa annetaan komento chmod 0555 /opt/bin/install.sh;/opt/bin/install.sh)

Install-skriptin 1. osassa on avahin poisto+dockerin asennus. Avahi on poistettava sotkemasta jotta DNS-muutokset onnistuvat.



```
project_vm2 (Snapshot 2) [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Applications Terminal - devuan@dev...
Terminal - devuan@devuan: ~
File Edit View Terminal Tabs Help
libavahi-core7 libdaemon0
Use 'apt autoremove' to remove them.
The following packages will be REMOVED:
  avahi-autoipd* avahi-daemon* ipp-usb* libnss-mdns*
0 upgraded, 0 newly installed, 4 to remove and 143 not upgraded.
After this operation, 6,307 kB disk space will be freed.
(Reading database ... 115181 files and directories currently installed.)
Removing avahi-autoipd (0.8-5+deb11u2) ...
Missing interface name.
Removing libnss-mdns:amd64 (0.14.1-2) ...
Removing ipp-usb (0.9.17-3+b4) ...
Removing avahi-daemon (0.8-5+deb11u2) ...
Stopping Avahi mDNS/DNS-SD Daemon: avahi-daemon.
Processing triggers for man-db (2.9.4-2) ...
Processing triggers for dbus (1.12.24-0+deb11u1devuan1) ...
Processing triggers for libc-bin (2.31-13+deb11u6) ...
(Reading database ... 115115 files and directories currently installed.)
Purging configuration files for ipp-usb (0.9.17-3+b4) ...
Purging configuration files for avahi-autoipd (0.8-5+deb11u2) ...
Purging configuration files for avahi-daemon (0.8-5+deb11u2) ...
Purging configuration files for libnss-mdns:amd64 (0.14.1-2) ...
libnss-mdns.postrm: Checking NSS setup...
libnss-mdns.postrm: Removing mdns from NSS setup
```



```
Sending on Socket/fallback
DHCPDISCOVER on eth0 to 255.255.255.255 port 67 interval 4
DHCPOFFER of 10.0.2.15 from 10.0.2.2
DHCPREQUEST for 10.0.2.15 on eth0 to 255.255.255.255 port 67
DHCPACK of 10.0.2.15 from 10.0.2.2
make_resolv_conf()
bound to 10.0.2.15 -- renewal in 32755 seconds.
root@devuan:~# apt-get update
Err:1 https://devuan.keff.org/merged chimaera InRelease
  Temporary failure resolving 'devuan.keff.org'
Err:2 https://devuan.keff.org/merged chimaera-updates InRelease
  Temporary failure resolving 'devuan.keff.org'
Err:3 https://devuan.keff.org/merged chimaera-security InRelease
  Temporary failure resolving 'devuan.keff.org'
Reading package lists... Done
W: Failed to fetch https://devuan.keff.org/merged/dists/chimaera/InRelease  T
emporary failure resolving 'devuan.keff.org'
W: Failed to fetch https://devuan.keff.org/merged/dists/chimaera-updates/InRe
lease  Temporary failure resolving 'devuan.keff.org'
W: Failed to fetch https://devuan.keff.org/merged/dists/chimaera-security/InR
elease  Temporary failure resolving 'devuan.keff.org'
W: Some index files failed to download. They have been ignored, or old ones u
sed instead.
root@devuan:~#
```

Tämmöistä voi osua kohdalle. Tällöin täytyy asettaa päiväys ajan tasalle komennolla “date –set”. Päiväys annetaan muodossa yyyy-mm-dd.

Komento “man date” kertoo lisää tarvittaessa.

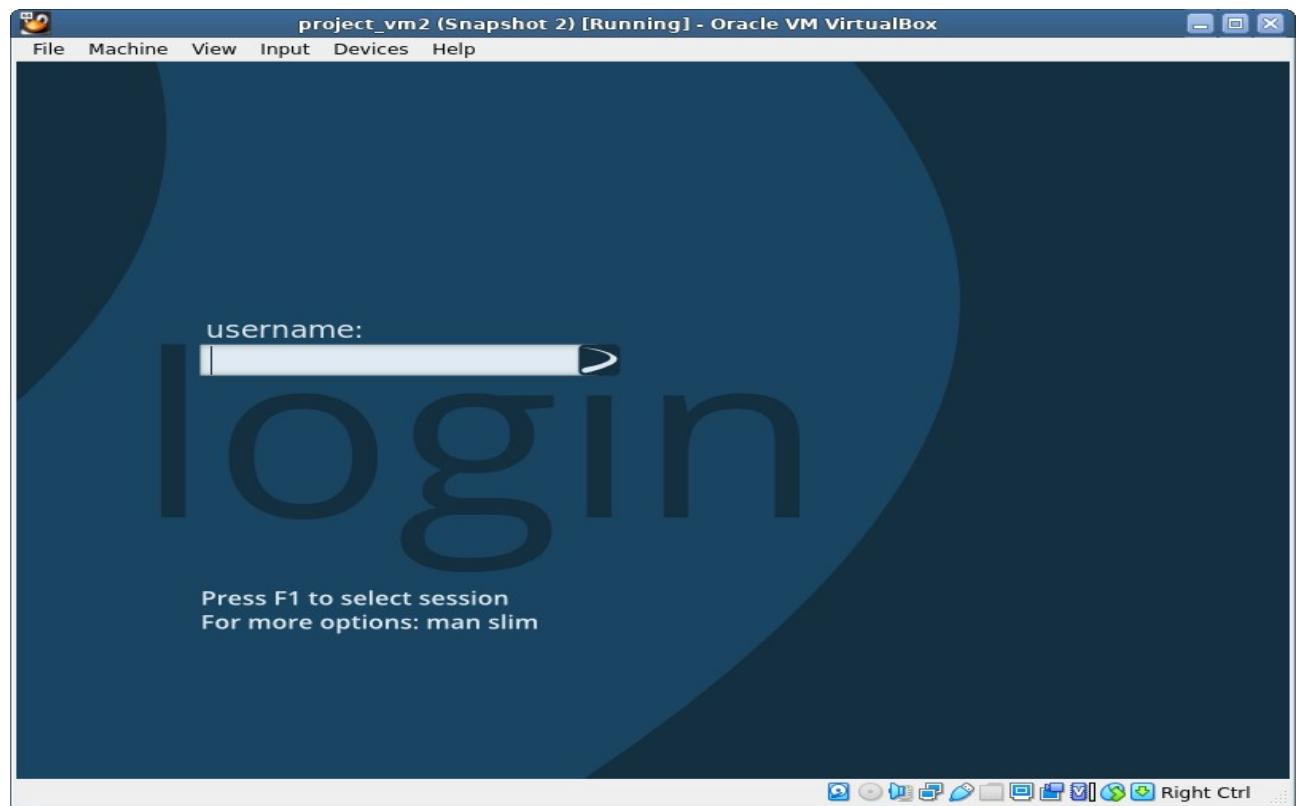
```
File Machine View Input Devices Help
Applications Terminal - devuan@dev...
Terminal - devuan@devuan: ~
File Edit View Terminal Tabs Help
home/devuan/Dpckcer/project/keys/thor.gpg
home/devuan/Dpckcer/project/keys/asgard1.gpg
home/devuan/Dpckcer/project/keys/ca.srl
home/devuan/Dpckcer/project/keys/ca_int.crt
home/devuan/Dpckcer/project/keys/ca.pem
home/devuan/Dpckcer/project/keys/tor2.gpg.base64
home/devuan/Dpckcer/project/keys/tor2.gpg.sig
home/devuan/Dpckcer/project/keys/asgard.gpg
home/devuan/Dpckcer/project/keys/webserver.key
home/devuan/Dpckcer/project/keys/ca_int.key
home/devuan/Dpckcer/project/keys/loki2.tar.sig
home/devuan/Dpckcer/project/keys/private.pem
home/devuan/Dpckcer/project/keys/ca_int.csr
home/devuan/Dpckcer/project/keys/asgard2.gpg
home/devuan/Dpckcer/project/keys/loki2.tar
home/devuan/Dpckcer/project/keys/public.pem
home/devuan/Dpckcer/project/keys/loki.tar
home/devuan/Dpckcer/project/keys/loki.tar.sig
home/devuan/Dpckcer/project/keys/ca_int.srl
home/devuan/Dpckcer/project/keys/ca.key
opt/bin/list021223.txt
tar: opt/bin/list021223.txt: time stamp 2023-12-02 05:46:51 is 376108.0148421
08 s in the future
root@devuan:/#
```

Jos virtuaalikoneen kello ei ole oikeassa ajassa, se voi ilmetää jo tar-pakettia purkaessa tällä tavalla.

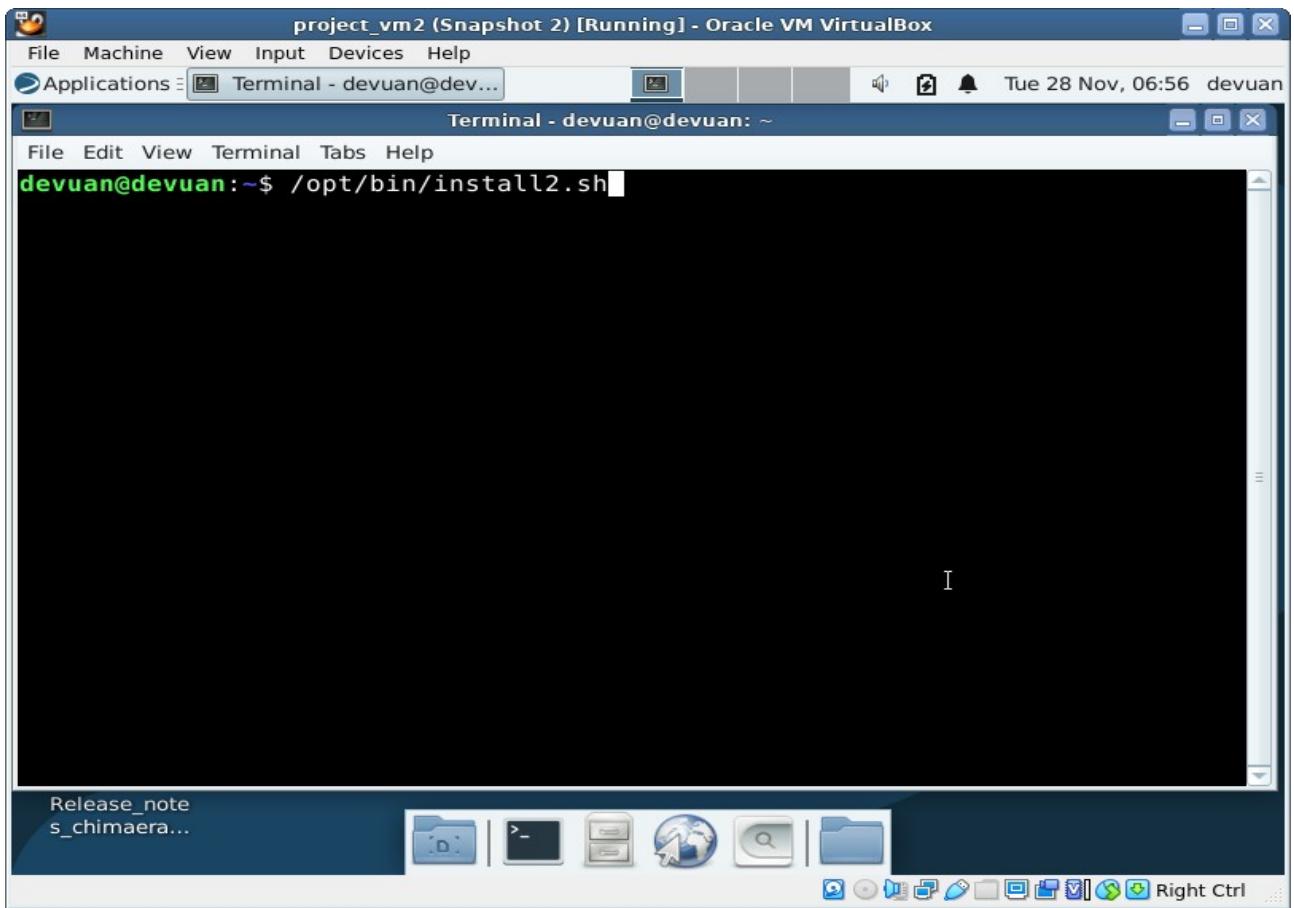
Sitten kun verkkoyhteyden ja paketinhallinnan suhtein asiat kunnossa, asennusskripti jatkaa jonkin aikaa eikä kysele pakettien suhtein mitään.

(RSA-avainten luonti demoamisvaiheessa ohitettu 25.12.23)

Root-tunnusella ajetun osuuden päättäeksi skripti pakottaa uloskirjautumisen. Pitää kirjautua takaisin sisään asennuksen toista vaihetta varten.



Tuohon se devuan ja sitä vastaava salasana.



Tuollainen komento siis syötetään enterin kanssa päätteikkunaan devuan-tunnuksesta.
Eli / opt / bin / install2.sh lähtee ajoon.

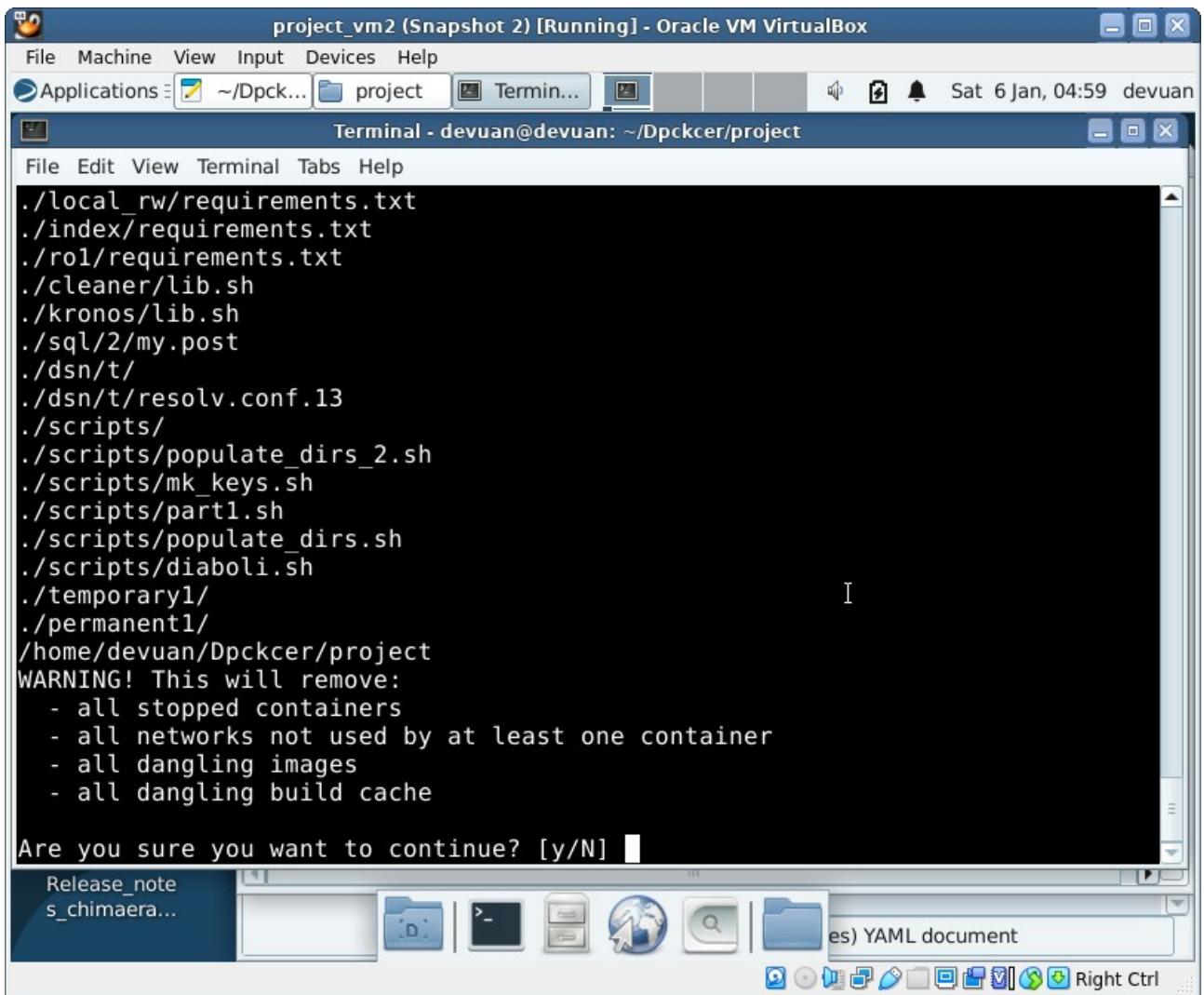
```
File Machine View Input Devices Help
Applications Terminal - devuan@dev...
Terminal - devuan@devuan: ~
File Edit View Terminal Tabs Help
./index/webkey.crt
./rw/webkey.crt
./rol/webkey.csr
./msgb0x/webkey.csr
./kronos/rskey.csr
./local_rw/webkey.csr
./index/webkey.csr
./rw/webkey.csr
./cleaner/cleaner.tar
./rol/rol.tar
./rw1/rw1.tar
./msgb0x/msgb0x.tar
./local_rw/local_rw.tar
./index/index.tar
./dsn/t/
./dsn/t/resolv.conf.13
./scripts/
./scripts/mk_keys.sh
./scripts/populate_dirs.sh
/home/devuan/Dpckcer/project
Error: No such network: project_public
Error: No such network: project_private
/home/devuan/Dpckcer/project
```

Release_note
s_chimaera...

Tämänkaltaista näkynee välivaiheena.

Vanhat virtuaaliverkot siivotaan pois ennen varsinaista rakennusvaihetta.

Jos kuitenkin tulee "network"-aiheisin virheilmoja niin komento "docker system prune" saattaa korjata.



Jos tämmöistä kysytään y+enter on yhdistelmä millä pääsee eteenpäin.

project_vm2 (Snapshot 2) [Running] - Oracle VM VirtualBox

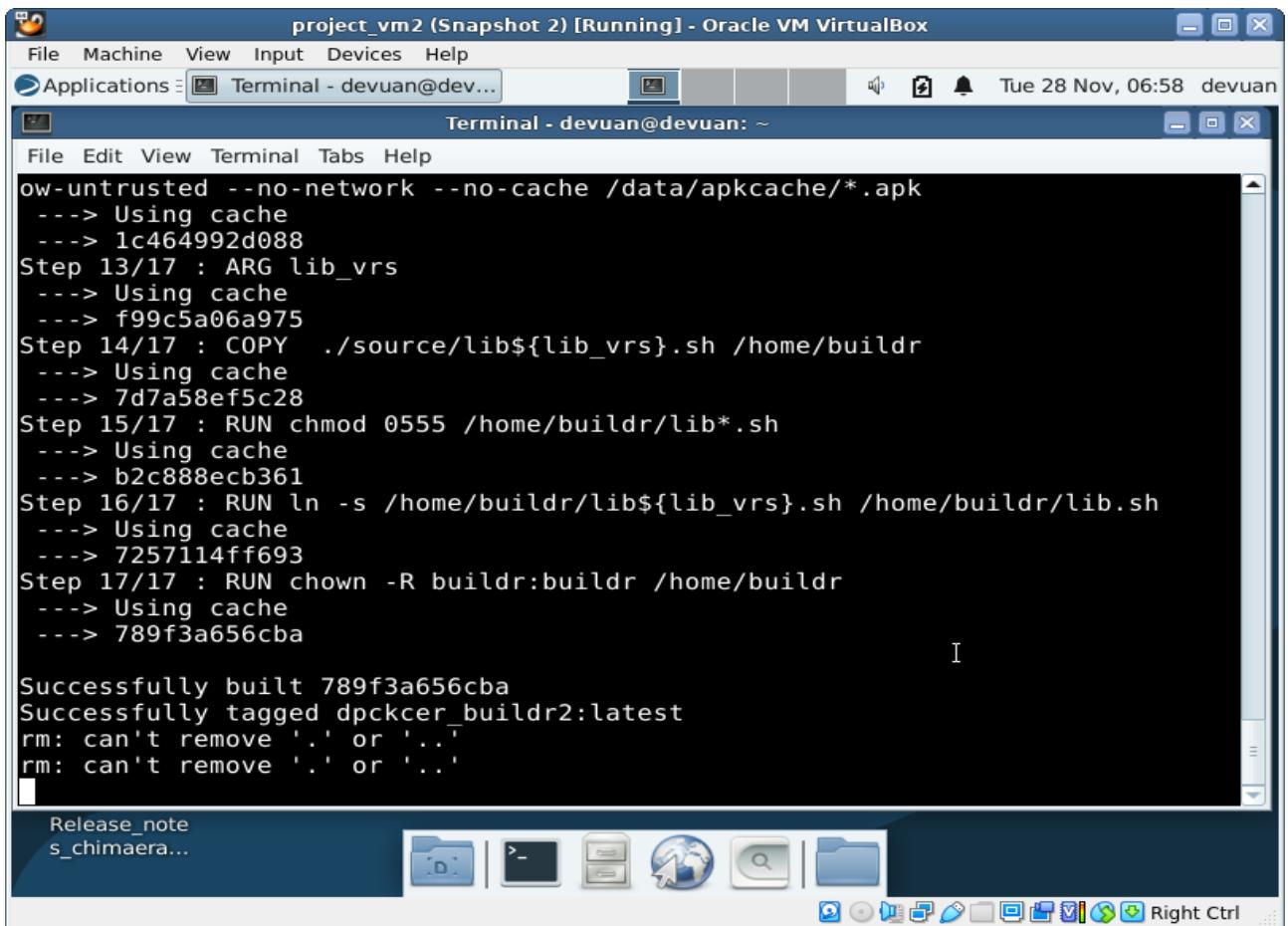
File Machine View Input Devices Help

Applications Terminal - devuan@dev... Tue 28 Nov, 06:58 devuan

Terminal - devuan@devuan: ~

```
File Edit View Terminal Tabs Help
ow-untrusted --no-network --no-cache /data/apkcache/*.apk
---> Using cache
---> 1c464992d088
Step 13/17 : ARG lib_vrs
---> Using cache
---> f99c5a06a975
Step 14/17 : COPY ./source/lib${lib_vrs}.sh /home/buildr
---> Using cache
---> 7d7a58ef5c28
Step 15/17 : RUN chmod 0555 /home/buildr/lib*.sh
---> Using cache
---> b2c888ecb361
Step 16/17 : RUN ln -s /home/buildr/lib${lib_vrs}.sh /home/buildr/lib.sh
---> Using cache
---> 7257114ff693
Step 17/17 : RUN chown -R buildr:buildr /home/buildr
---> Using cache
---> 789f3a656cba
Successfully built 789f3a656cba
Successfully tagged dpckcer/buildr2:latest
rm: can't remove '.' or '..
rm: can't remove '.' or '..
I
```

Release_note
s_chimaera...



Kontit rakentumassa.

The screenshot shows a terminal window titled "Terminal - devuan@devuan: ~/Dpckcer/project" within an Oracle VM VirtualBox environment. The terminal displays the output of a Docker compose build command. The log shows the creation of a new Docker image, tagging it as "project_index:latest", and building an index2 container. The process involves several steps, including pulling an nginx:mainline-alpine image, setting up iptables rules, and copying configuration files like "nginx.conf" and "default2.conf". The build is successful, resulting in a new image "c9732e043a18" and a tagged image "project index2:latest".

```
--> 929d07c7aa6e
Successfully built 929d07c7aa6e
Successfully tagged project_index:latest
Building index2
Step 1/6 : FROM nginx:mainline-alpine AS stage1
--> b135667c9898
Step 2/6 : WORKDIR /
--> Using cache
--> 2a92db976fd2
Step 3/6 : RUN rm /docker-entrypoint.d/10-listen*
--> Running in ff4247c01b23
Removing intermediate container ff4247c01b23
--> 4d00870a6492
Step 4/6 : COPY ./rules /etc/iptables/rules
--> 328e396b0b4e
Step 5/6 : COPY ./nginx.conf /etc/nginx/
--> 58c654c443a0
Step 6/6 : COPY ./default2.conf /etc/nginx/conf.d
--> c9732e043a18

Successfully built c9732e043a18
Successfully tagged project index2:latest
devuan@devuan:~/Dpckcer/project$
```

Rakennusvaiheen päättyttyä pitäisi olla hmissossa /home /devuan /Dpckcer /project . Mikäli ei olla, käytettävä komentoa cd.

Oikeasta hakemistosta ajettuna komento /usr /bin docker-compose -f another.yml up käynnistää kontit. Kuten asennusohjeen edellisessä osassa on sanottu.

The screenshot shows a Linux desktop environment with a terminal window open. The terminal window title is "Terminal - devuan@devuan: ~/Dpckcer/project". The terminal content displays a series of database schema creation commands, likely for PostgreSQL, being run by multiple parallel processes named "backend_1". The commands include CREATE ROLE, ALTER ROLE, CREATE PROCEDURE, CREATE FUNCTION, and GRANT. The terminal window is part of the "efg [Running] - Oracle VM VirtualBox" session, which also includes icons for a file manager, terminal, and browser.

```
backend_1 | CREATE ROLE
backend_1 | ALTER ROLE
backend_1 | CREATE PROCEDURE
backend_1 | CREATE PROCEDURE
backend_1 | CREATE FUNCTION
backend_1 | CREATE PROCEDURE
backend_1 | CREATE FUNCTION
backend_1 | CREATE FUNCTION
backend_1 | GRANT
```

Kantakontti luo kannan ensimmäisellä ajokerralla. Sen pystyisi tekemään jo ennen varsinaista rakennusvaihetta.