Kali Linux for CSP/CSS

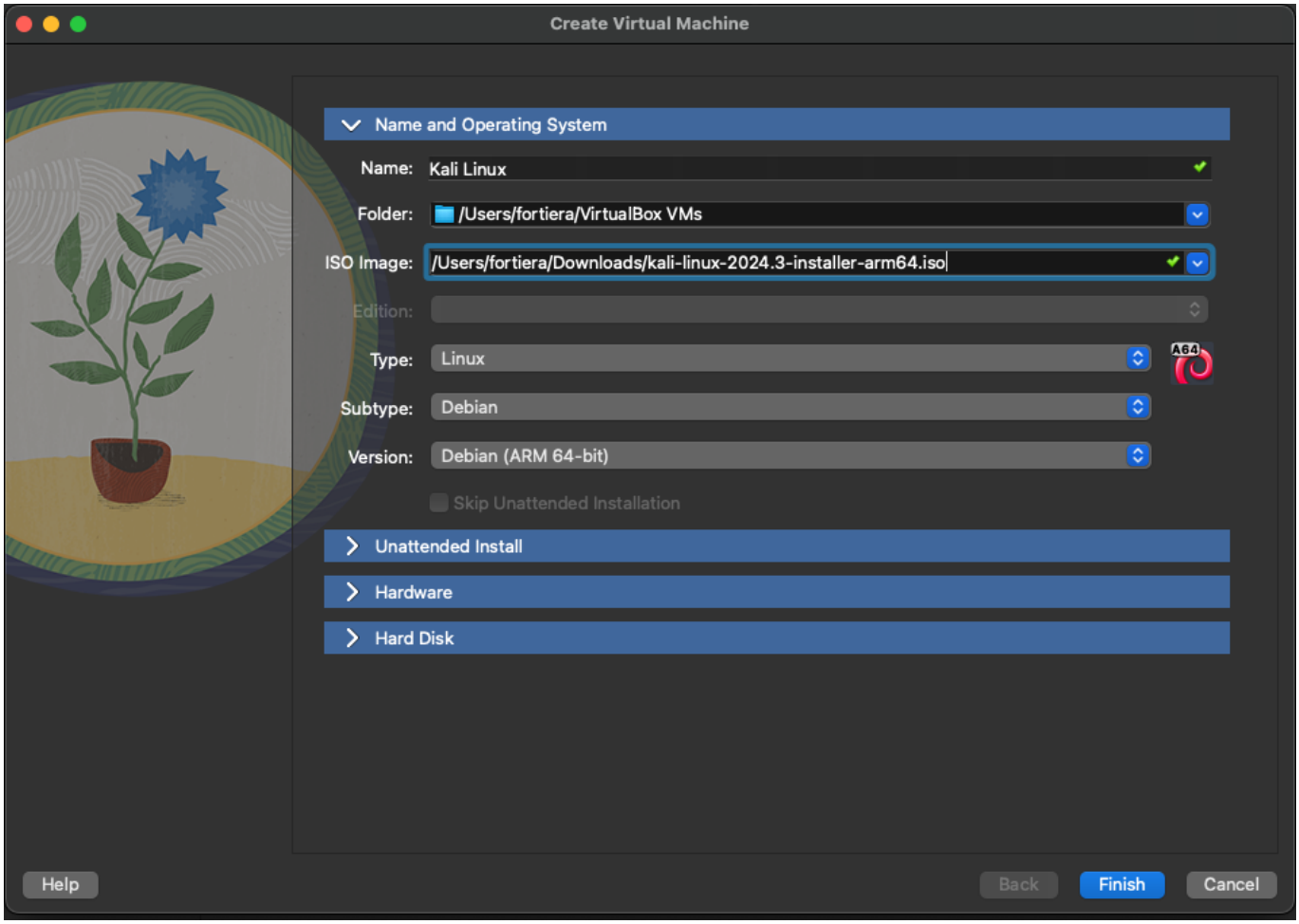
Kali Linux install for Virtualbox on **Apple Silicon** M1/M2/M3/M4?
For x86_64 → go here
❗❗ NOT FOR PRODUCTION ❗❗

Prerequisite

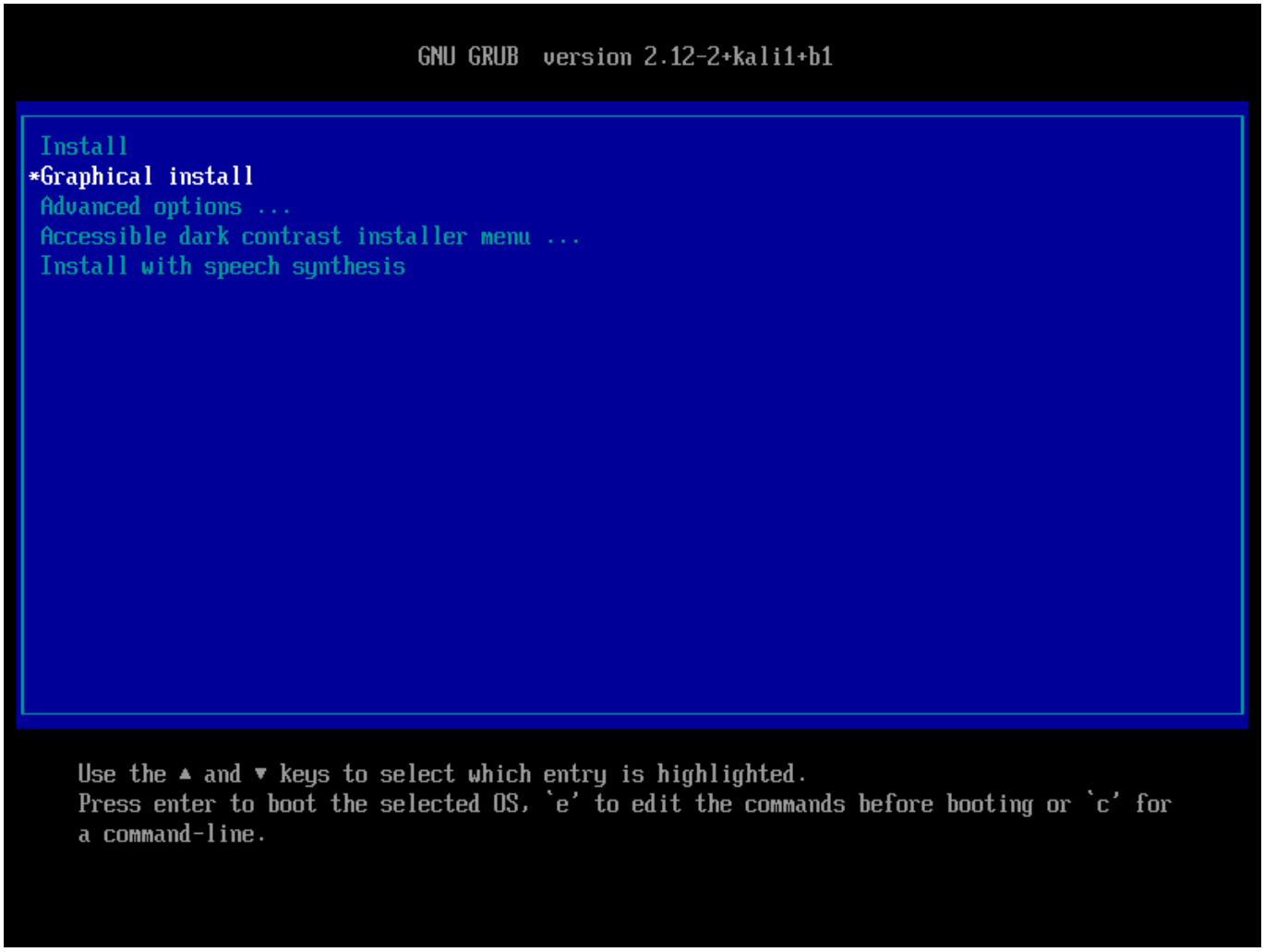
- Apple Silicon MX CPU
- Vitrualbox Apple Silicon Hosts
- VirtualBox Extension Pack
- Kali ARM iso install Apple Silicon (ARM64)
- For Silicon Macs: UTM Tweak install

Install

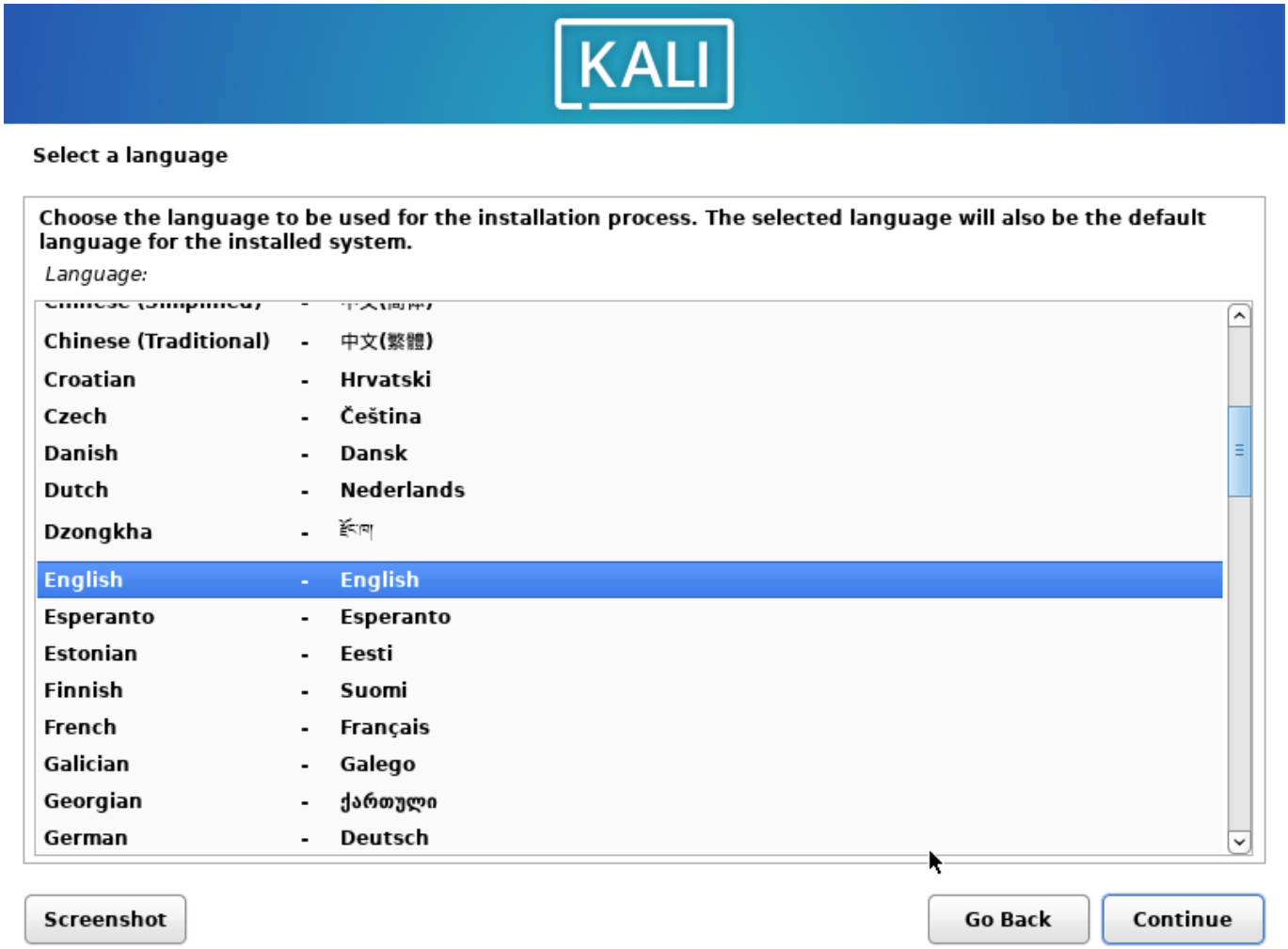
Create a VM using the iso as bootable CD



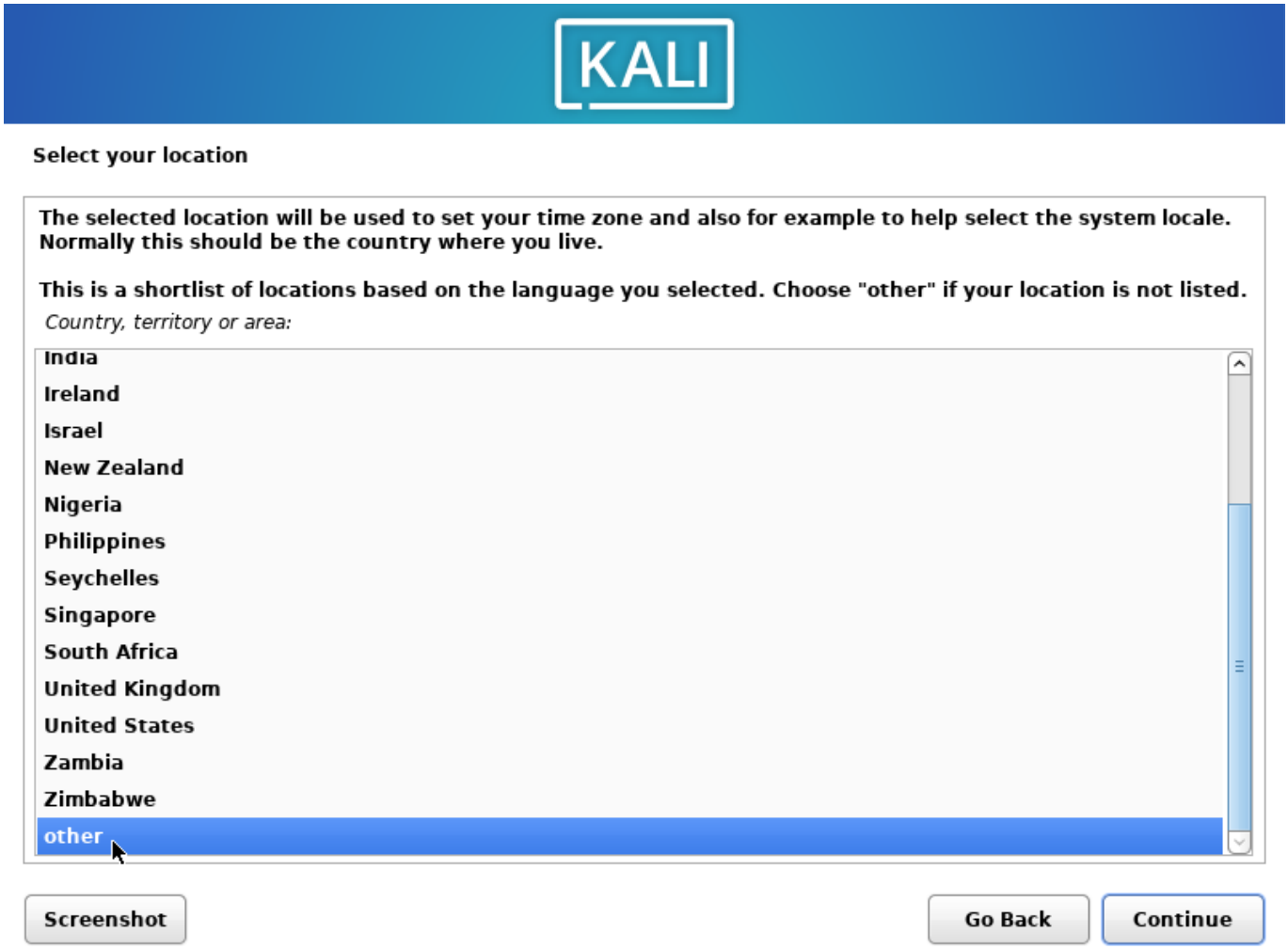
Launch the machine

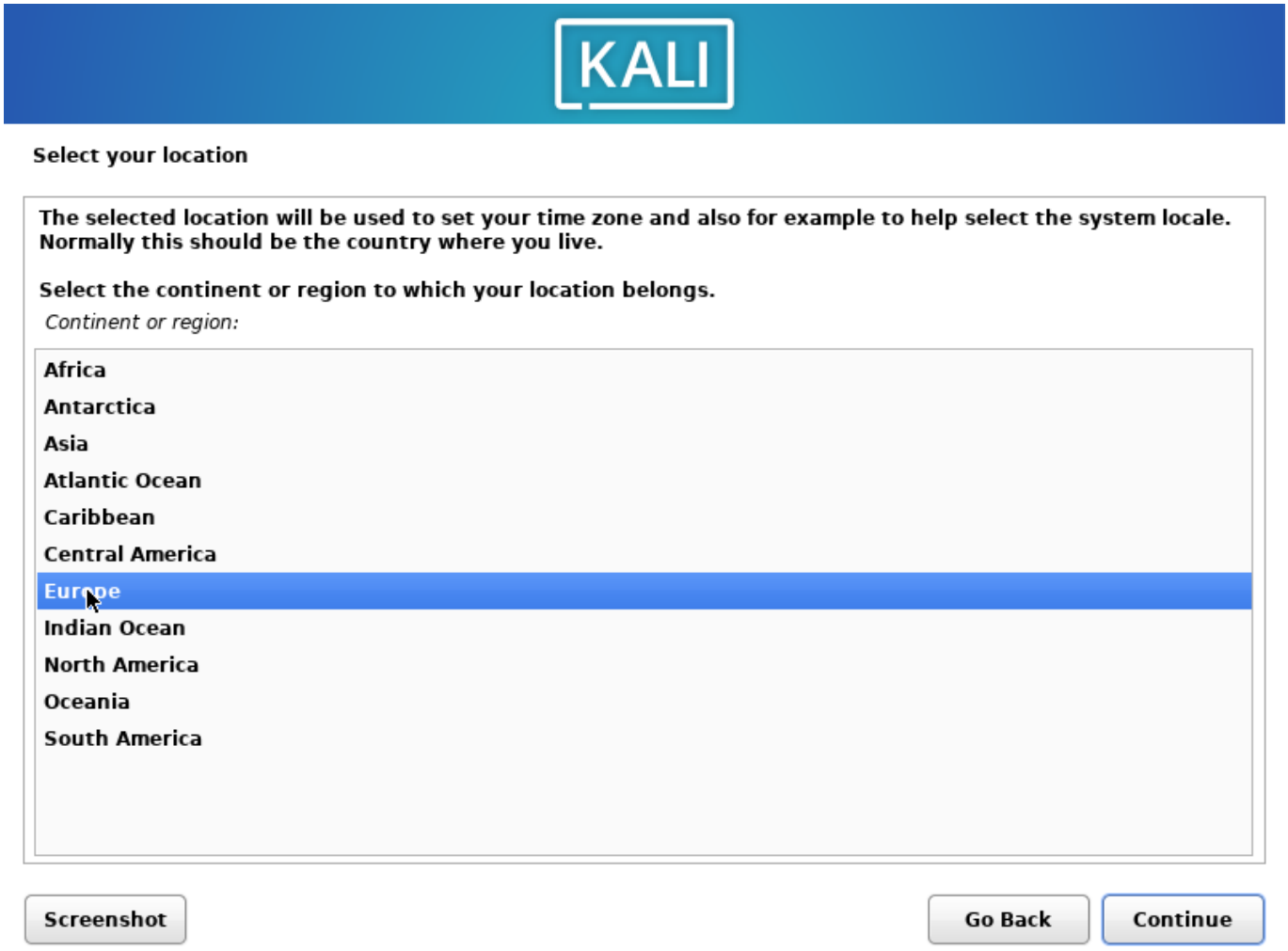


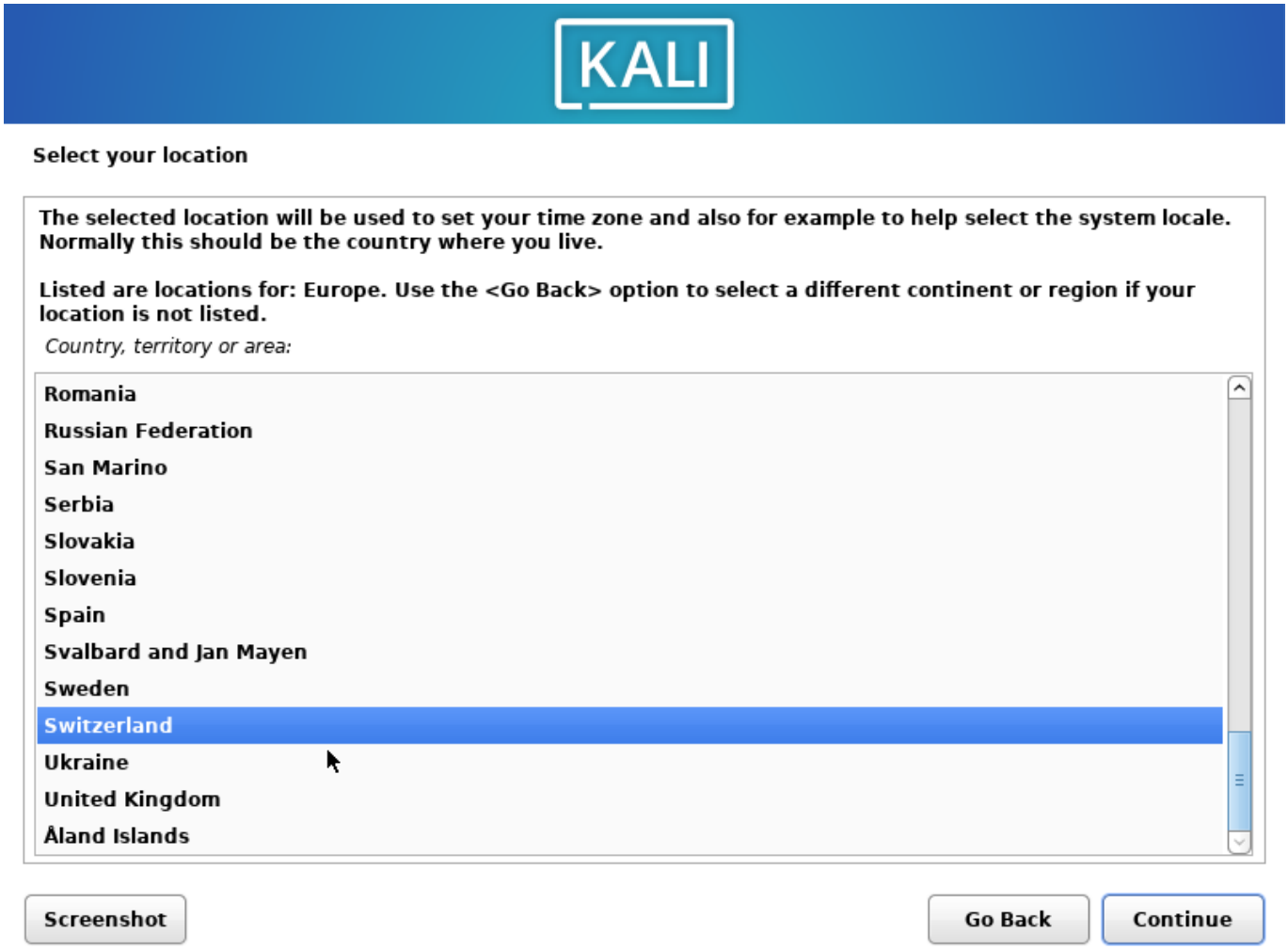
select language



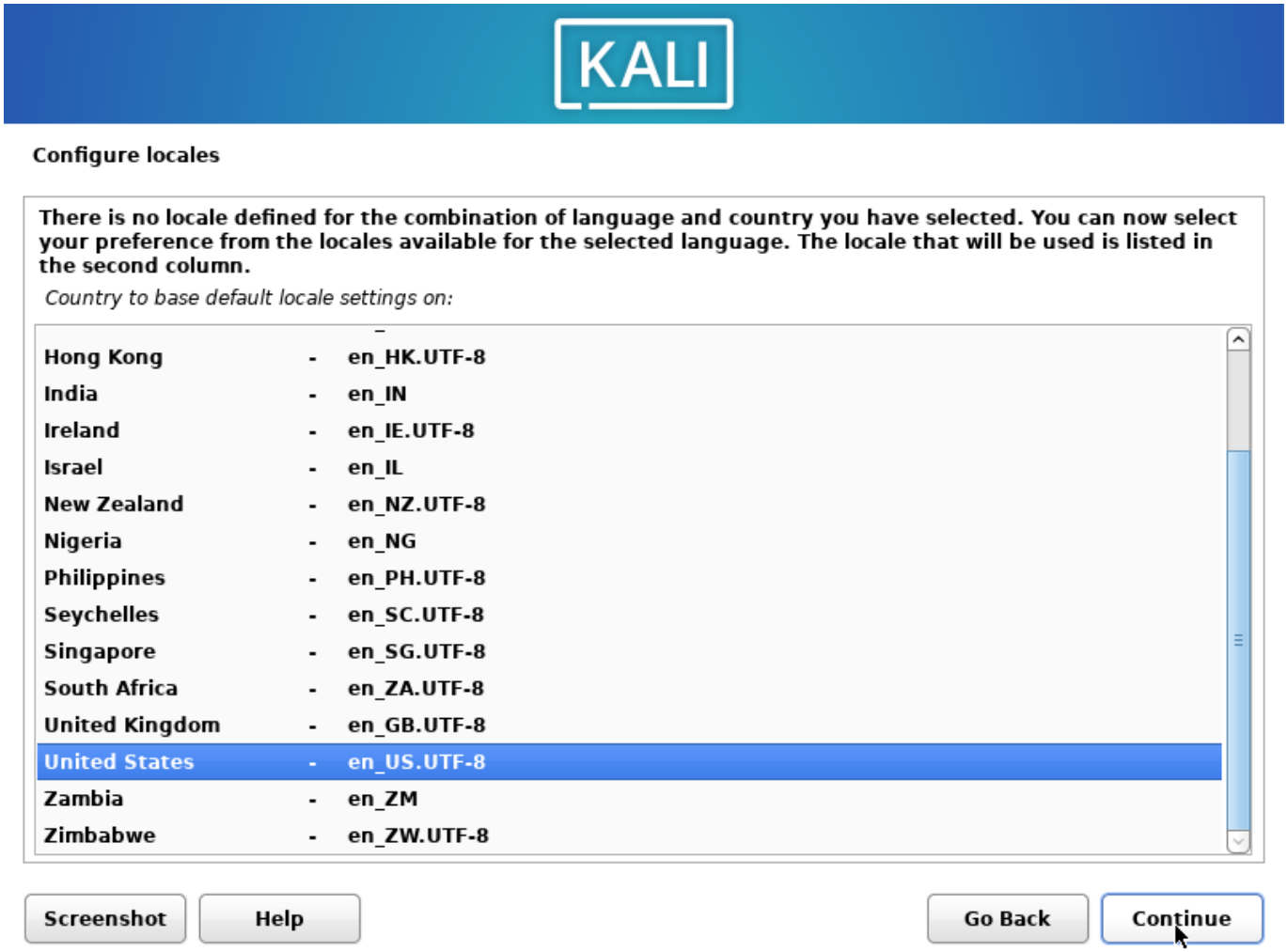
select country


KALI
Select your location
The selected location will be used to set your time zone and also for example to help select the system locale. Normally this should be the country where you live.
This is a shortlist of locations based on the language you selected. Choose "other" if your location is not listed.
Country, territory or area:
India
Ireland
Israel
New Zealand
Nigeria
Philippines
Seychelles
Singapore
South Africa
United Kingdom
United States
Zambia
Zimbabwe
other
Screenshot
Go Back
Continue

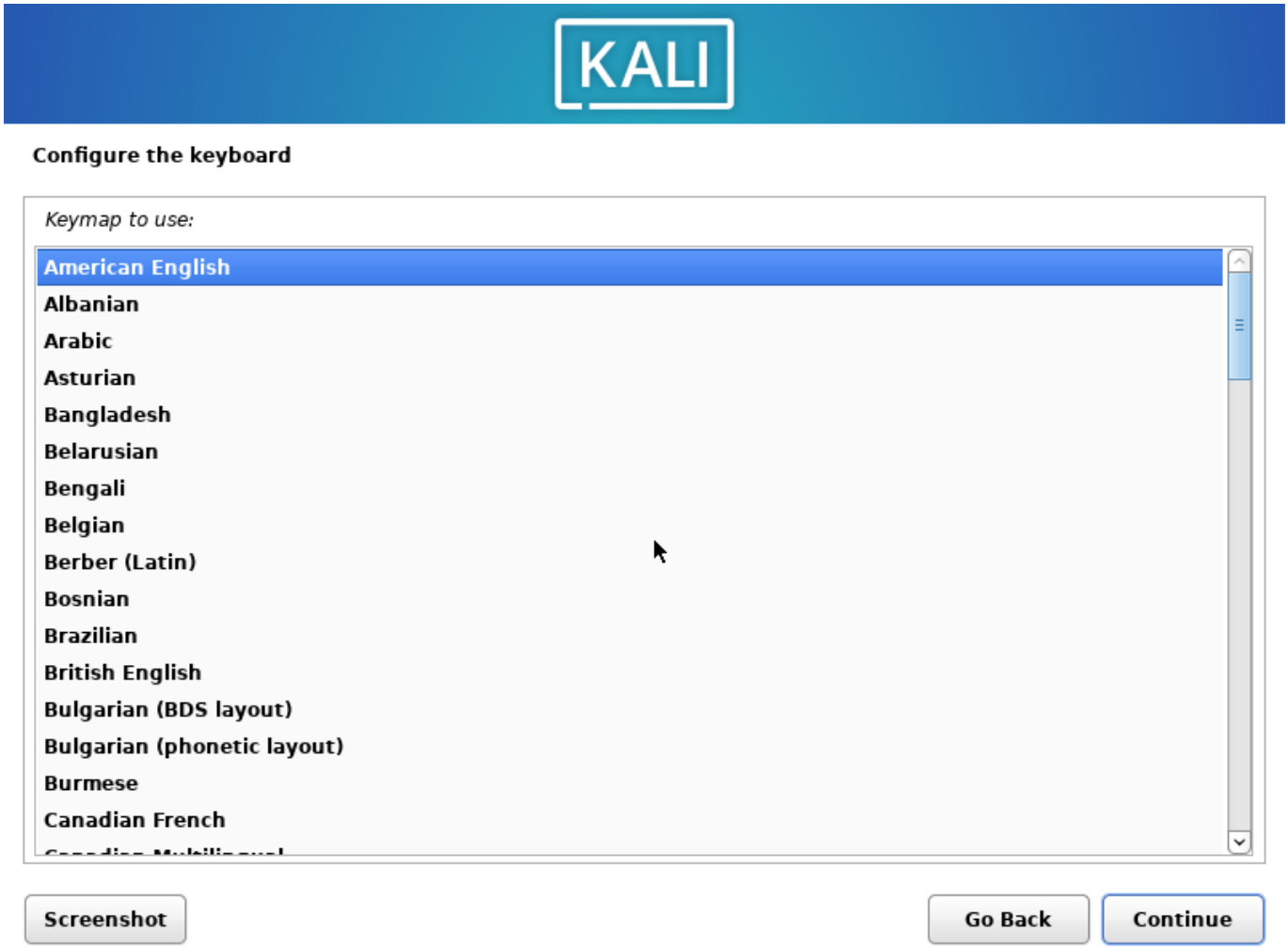

KALI
Select your location
The selected location will be used to set your time zone and also for example to help select the system locale. Normally this should be the country where you live.
Select the continent or region to which your location belongs.
Continent or region:
Africa
Antarctica
Asia
Atlantic Ocean
Caribbean
Central America
Europe
Indian Ocean
North America
Oceania
South America
Screenshot
Go Back
Continue


KALI
Select your location
The selected location will be used to set your time zone and also for example to help select the system locale. Normally this should be the country where you live.
Listed are locations for: Europe. Use the <Go Back> option to select a different continent or region if your location is not listed.
Country, territory or area:
Romania
Russian Federation
San Marino
Serbia
Slovakia
Slovenia
Spain
Svalbard and Jan Mayen
Sweden
Switzerland
Ukraine
United Kingdom
Åland Islands
Screenshot
Go Back
Continue

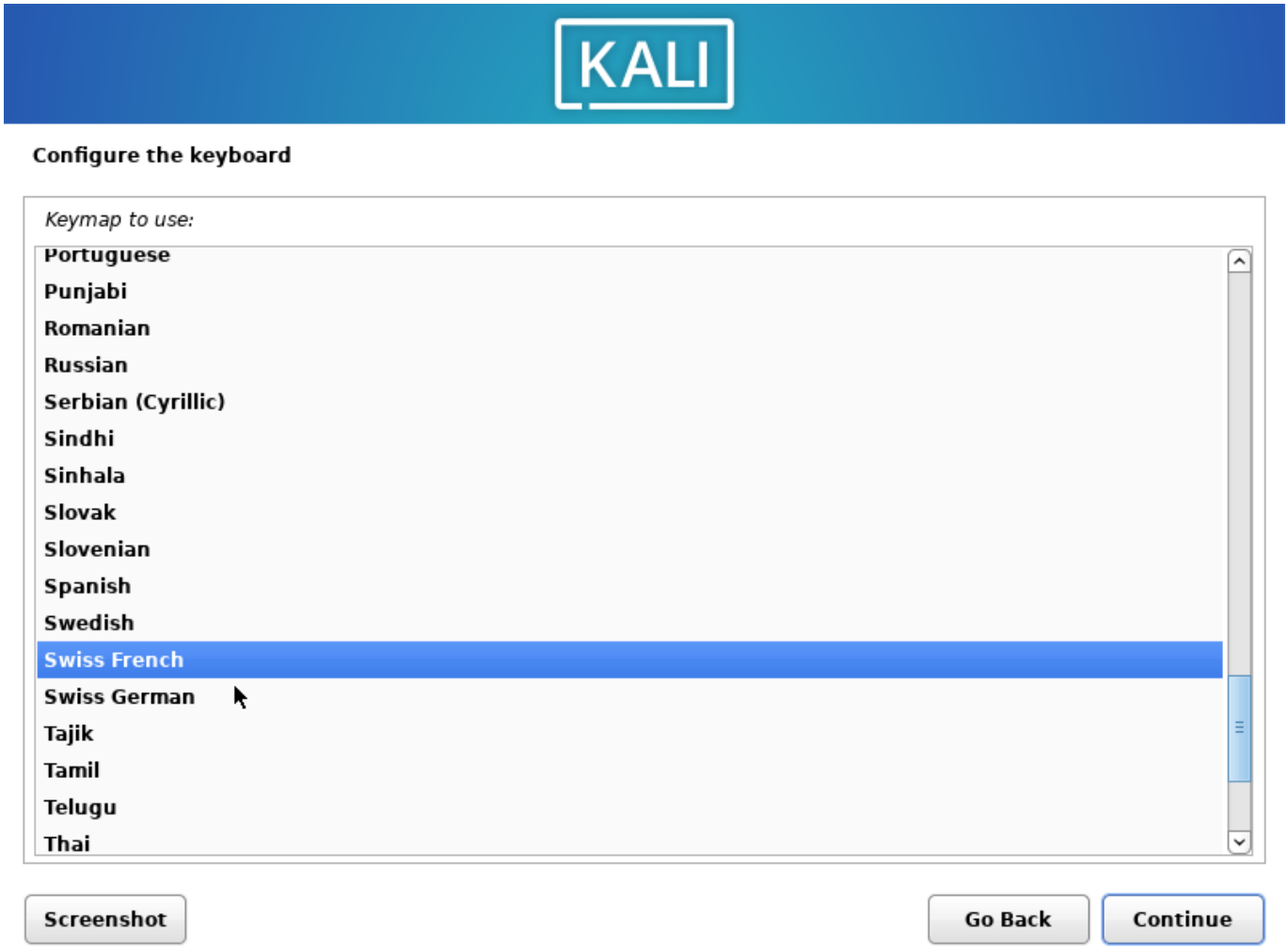
locales



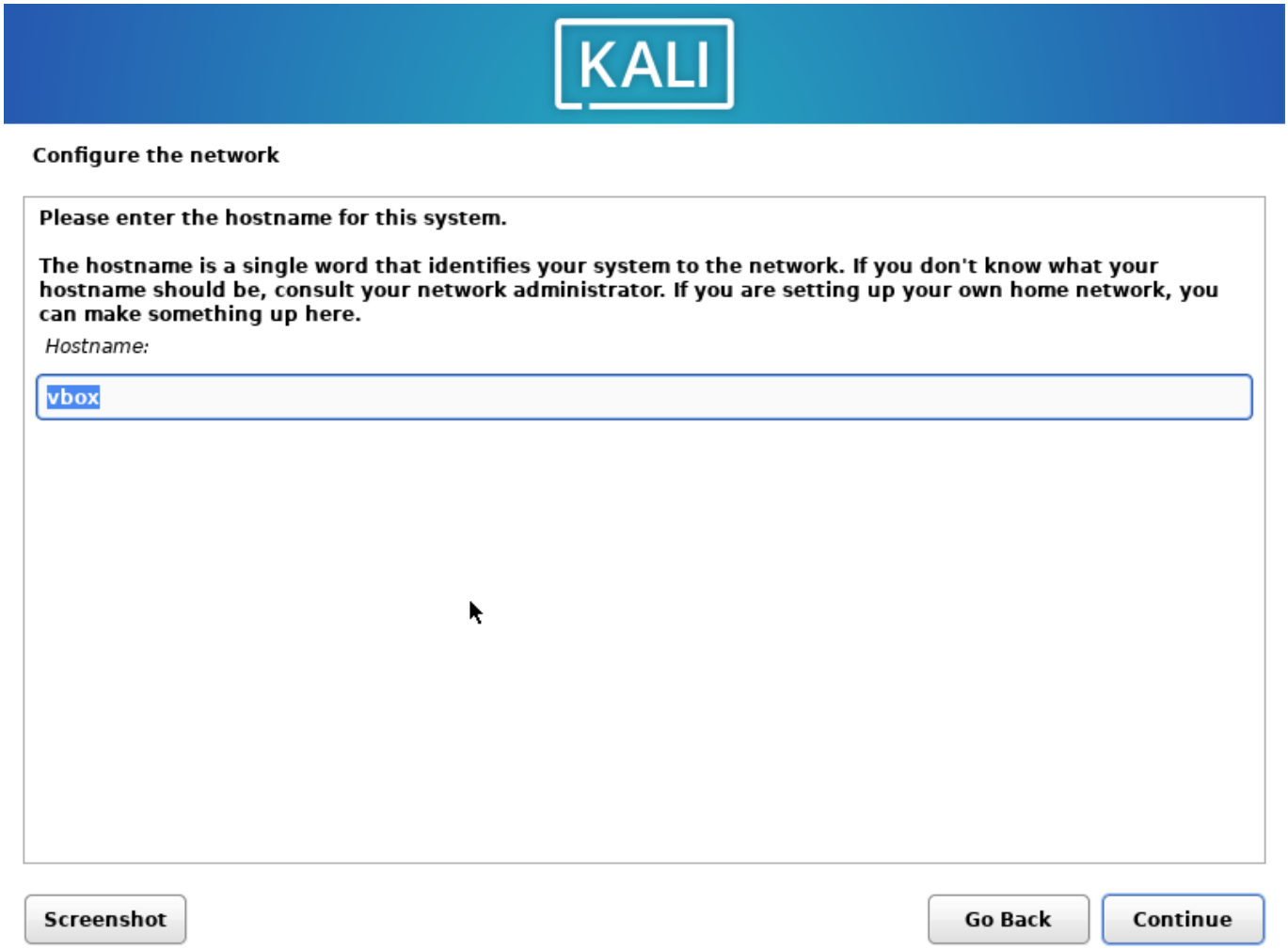
Keyboard mapping


KALI
Configure the keyboard
Keymap to use:
American English
Albanian
Arabic
Asturian
Bangladesh
Belarusian
Bengali
Belgian
Berber (Latin)
Bosnian
Brazilian
British English
Bulgarian (BDS layout)
Bulgarian (phonetic layout)
Burmese
Canadian French
Screenshot
Go Back
Continue

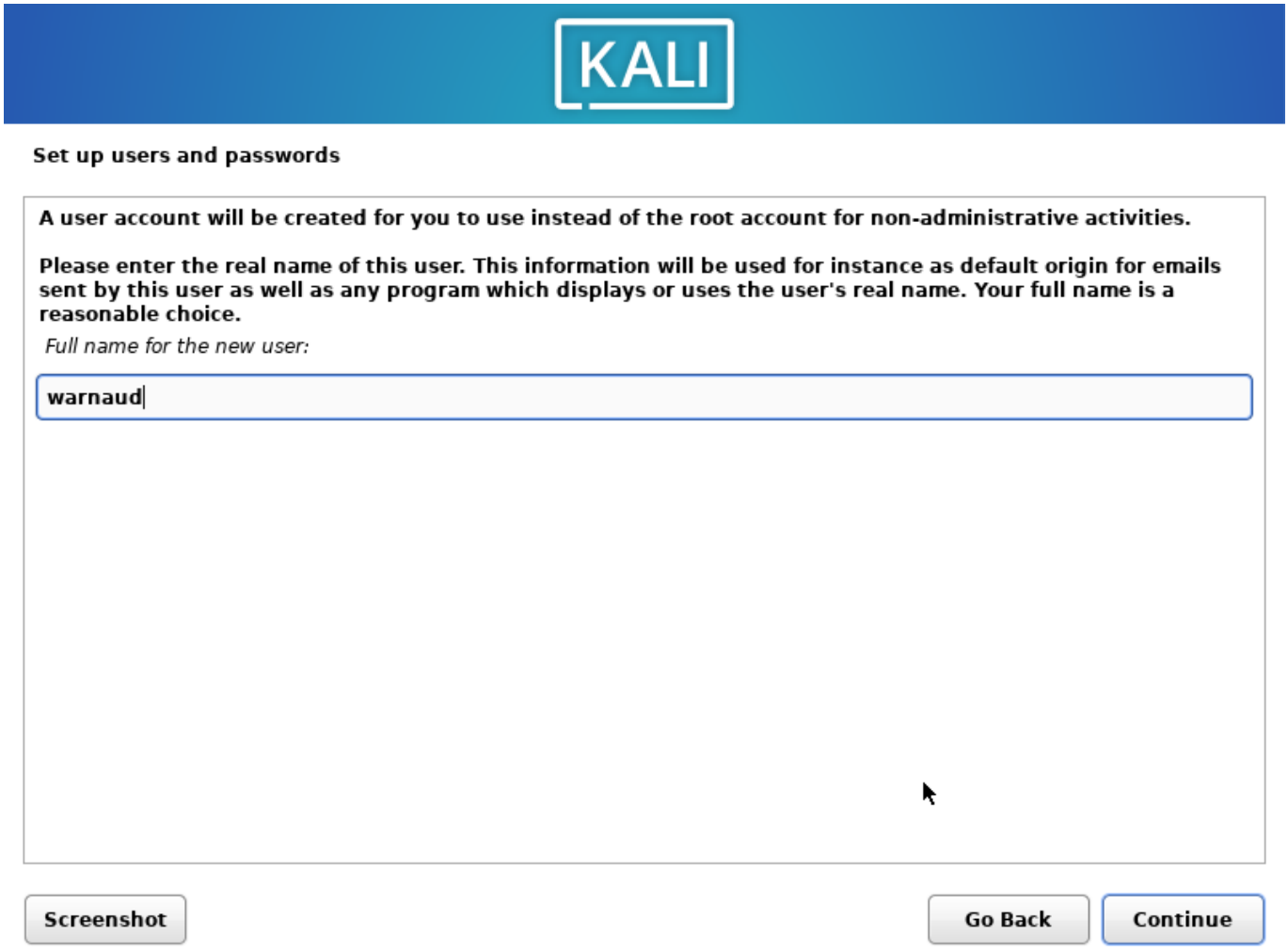
or

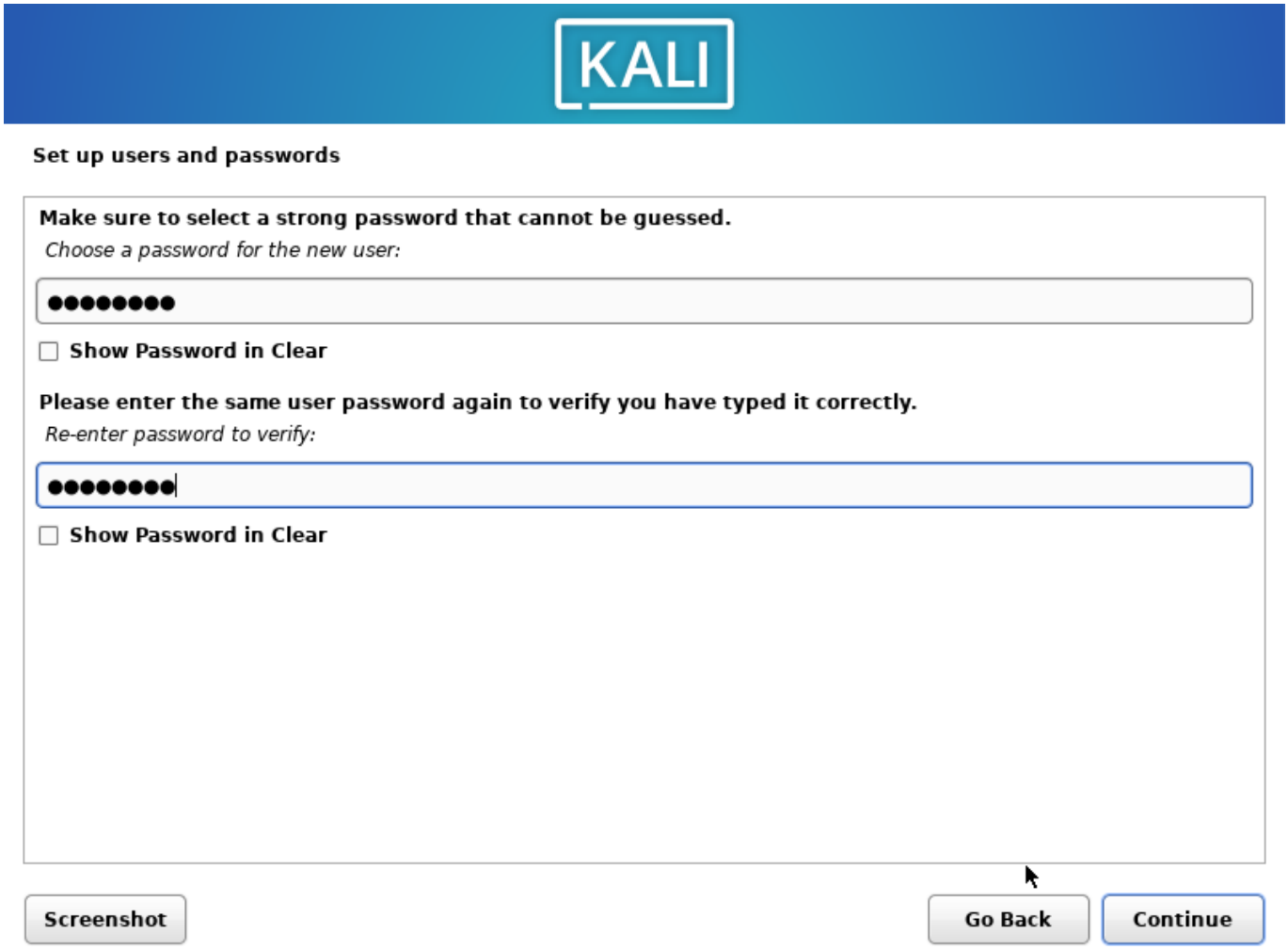


machine name

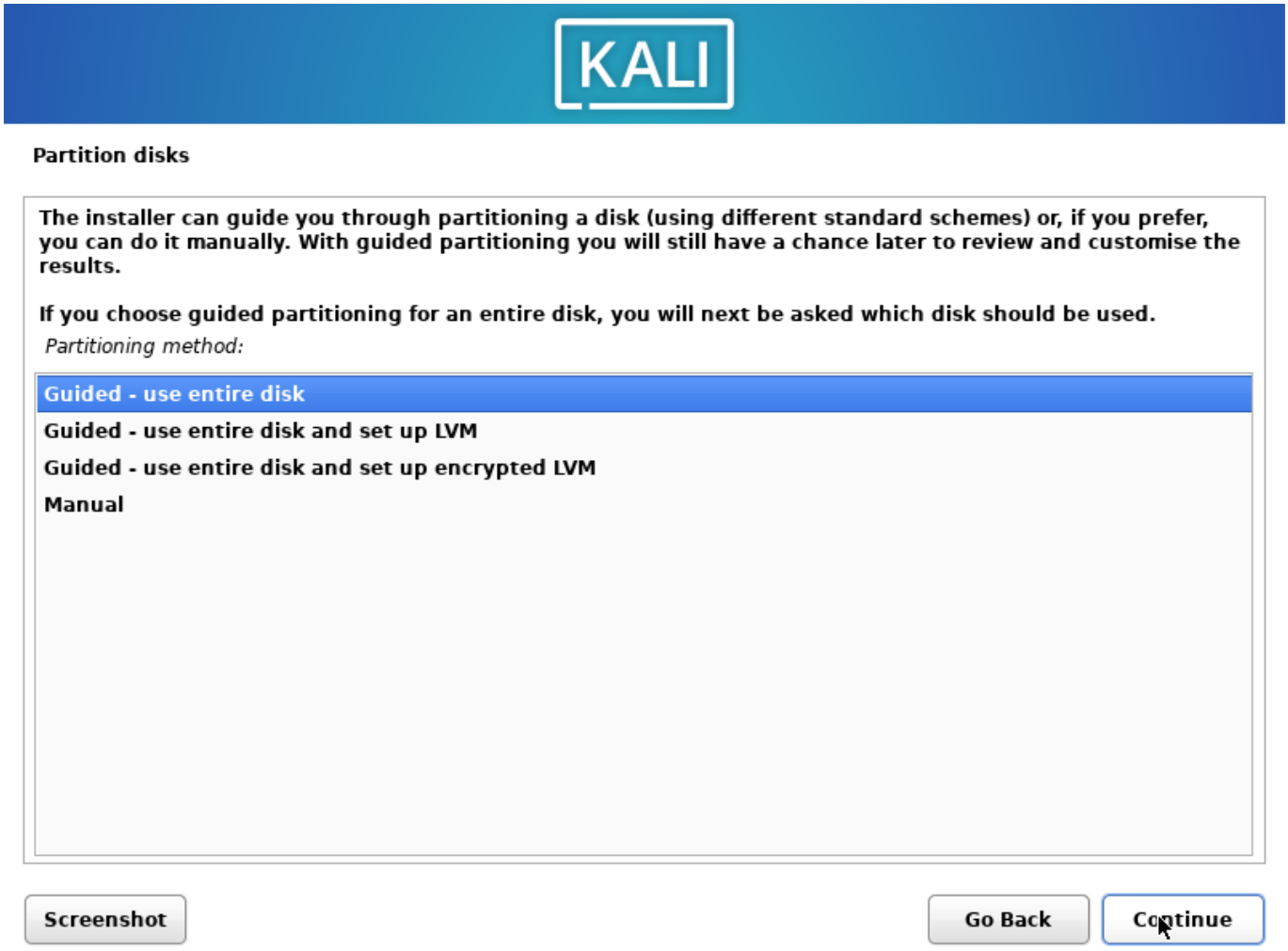


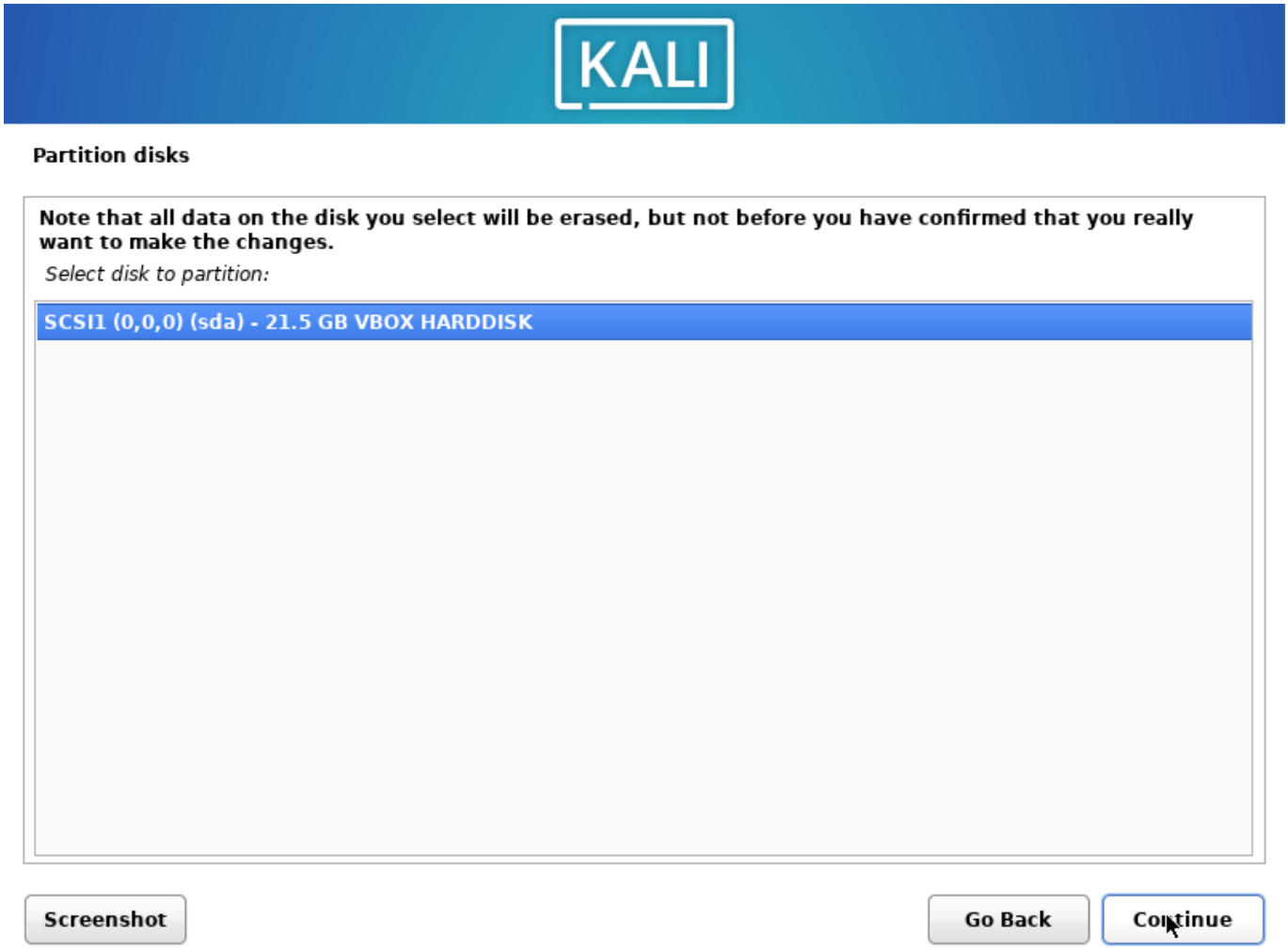
user (sudoer) + password

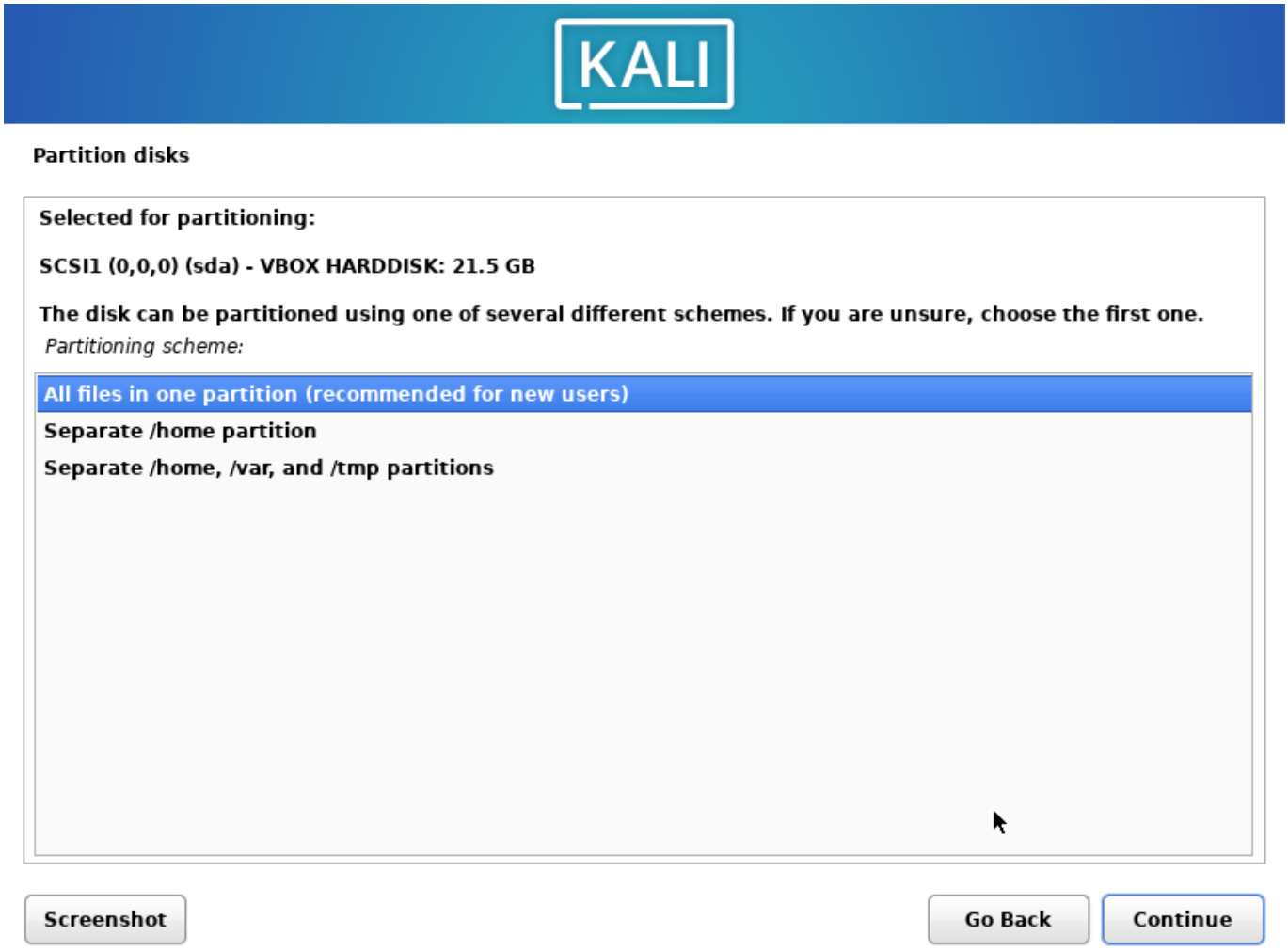

KALI
Set up users and passwords
A user account will be created for you to use instead of the root account for non-administrative activities.
Please enter the real name of this user. This information will be used for instance as default origin for emails sent by this user as well as any program which displays or uses the user's real name. Your full name is a reasonable choice.
Full name for the new user:
warnaud
Screenshot
Go Back
Continue

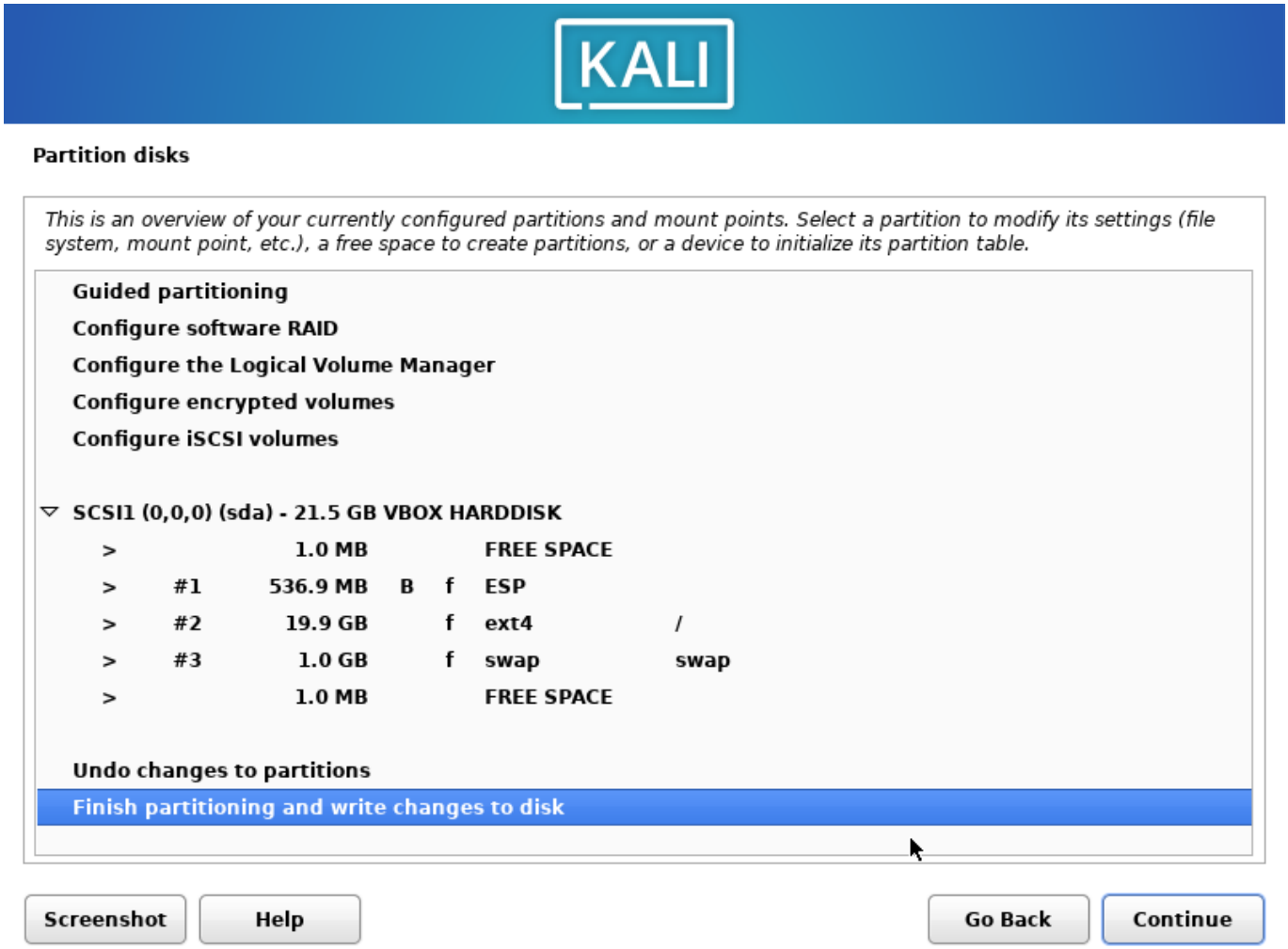


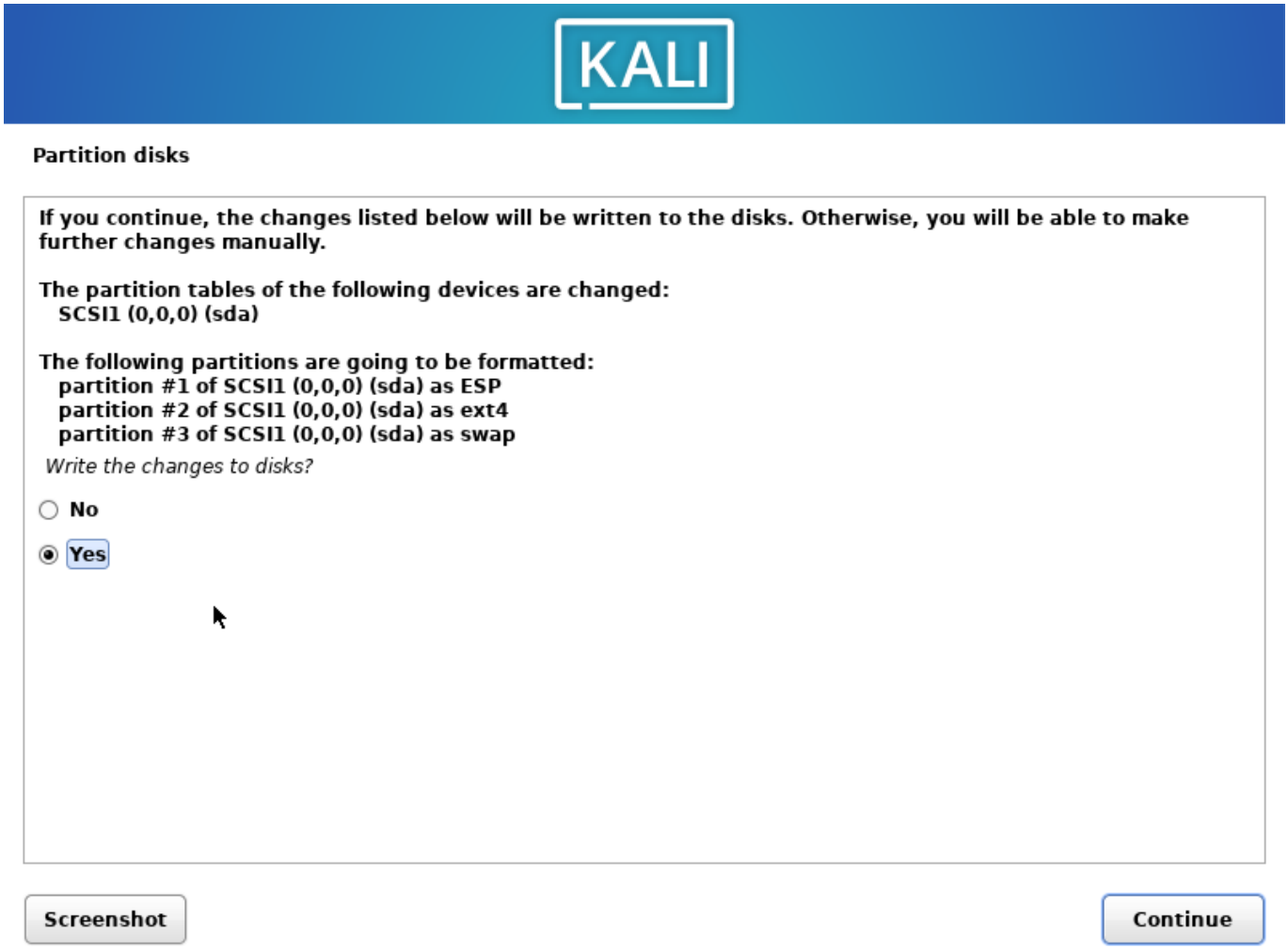
Partitioning


KALI
Partition disks
The installer can guide you through partitioning a disk (using different standard schemes) or, if you prefer, you can do it manually. With guided partitioning you will still have a chance later to review and customise the results.
If you choose guided partitioning for an entire disk, you will next be asked which disk should be used.
Partitioning method:
Guided - use entire disk
Guided - use entire disk and set up LVM
Guided - use entire disk and set up encrypted LVM
Manual
Screenshot
Go Back
Continue

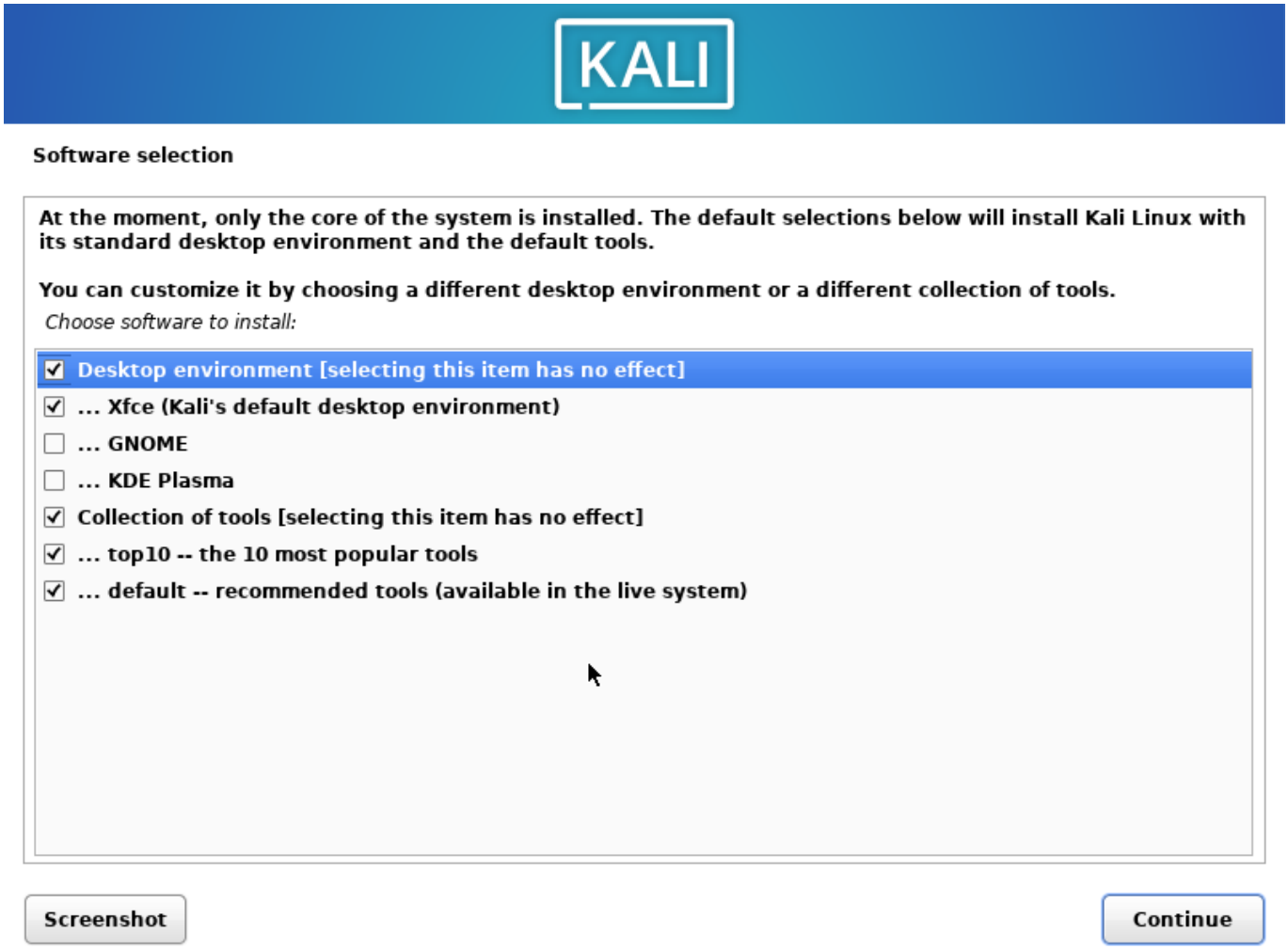

KALI
Partition disks
Note that all data on the disk you select will be erased, but not before you have confirmed that you really want to make the changes.
Select disk to partition:
SCSI1 (0,0,0) (sda) - 21.5 GB VBOX HARDDISK
Screenshot
Go Back
Continue

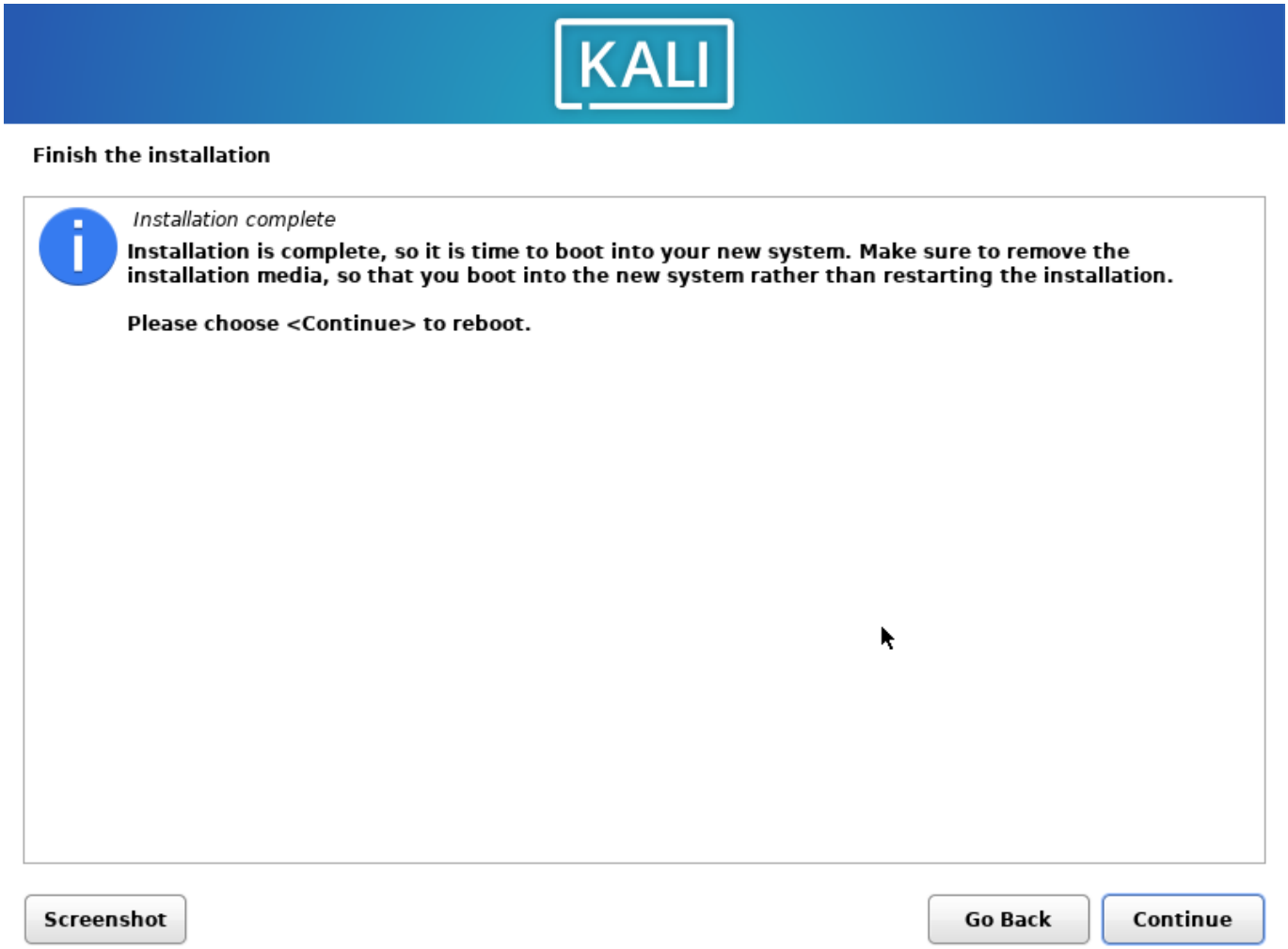

KALI
Partition disks
Selected for partitioning:
SCSI1 (0,0,0) (sda) - VBOX HARDDISK: 21.5 GB
The disk can be partitioned using one of several different schemes. If you are unsure, choose the first one.
Partitioning scheme:
All files in one partition (recommended for new users)
Separate /home partition
Separate /home, /var, and /tmp partitions
Screenshot
Go Back
Continue


KALI
Partition disks
This is an overview of your currently configured partitions and mount points. Select a partition to modify its settings (file system, mount point, etc.), a free space to create partitions, or a device to initialize its partition table.
Guided partitioning
Configure software RAID
Configure the Logical Volume Manager
Configure encrypted volumes
Configure iSCSI volumes
SCSI1 (0,0,0) (sda) - 21.5 GB VBOX HARDDISK
> 1.0 MB FREE SPACE
> #1 536.9 MB B f ESP
> #2 19.9 GB f ext4 /
> #3 1.0 GB f swap swap
> 1.0 MB FREE SPACE
Undo changes to partitions
Finish partitioning and write changes to disk
Screenshot
Help
Go Back
Continue



Default packages

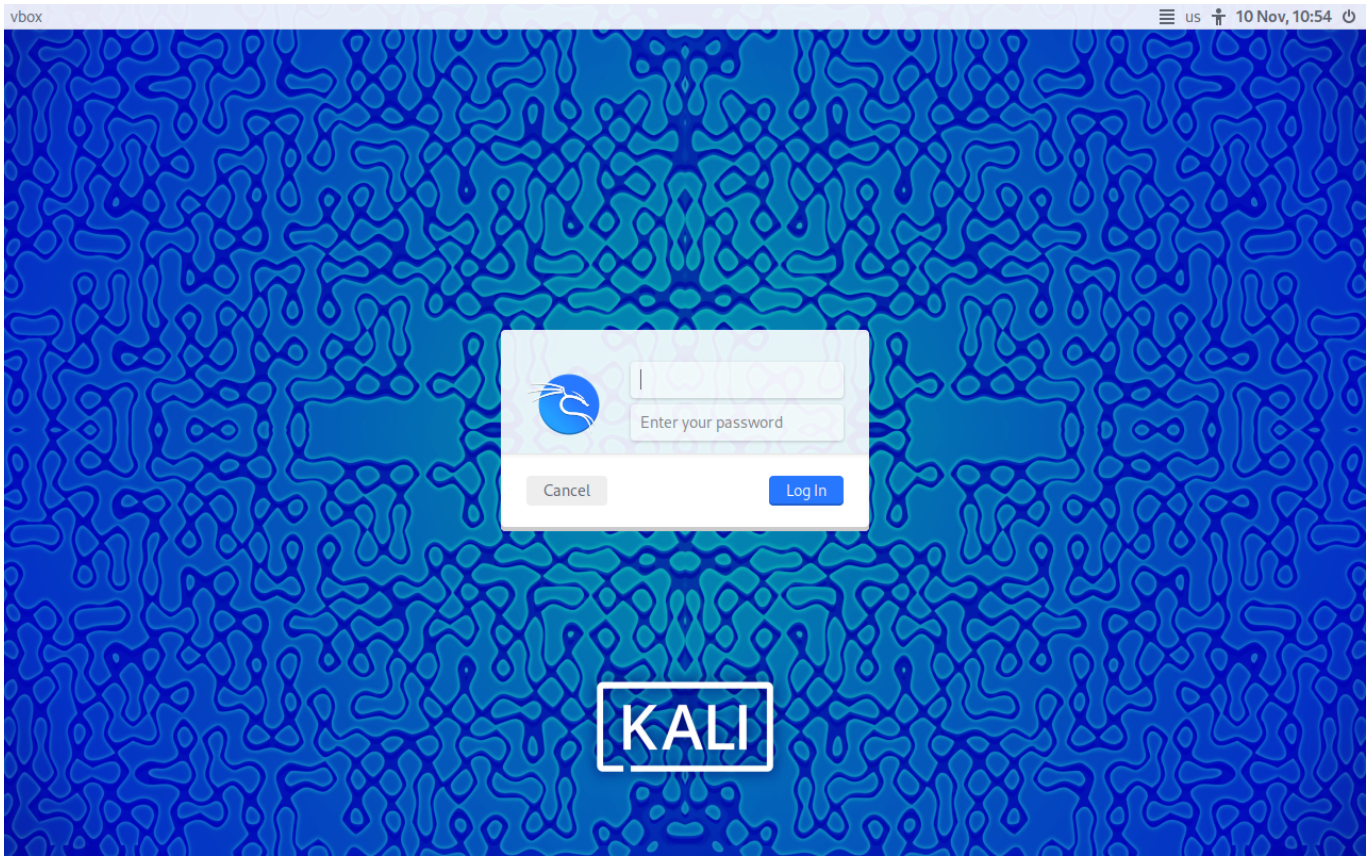

KALI
Software selection
At the moment, only the core of the system is installed. The default selections below will install Kali Linux with its standard desktop environment and the default tools.
You can customize it by choosing a different desktop environment or a different collection of tools.
Choose software to install:
Desktop environment [selecting this item has no effect]
... Xfce (Kali's default desktop environment)
... GNOME
... KDE Plasma
Collection of tools [selecting this item has no effect]
... top10 -- the 10 most popular tools
... default -- recommended tools (available in the live system)
Screenshot
Continue



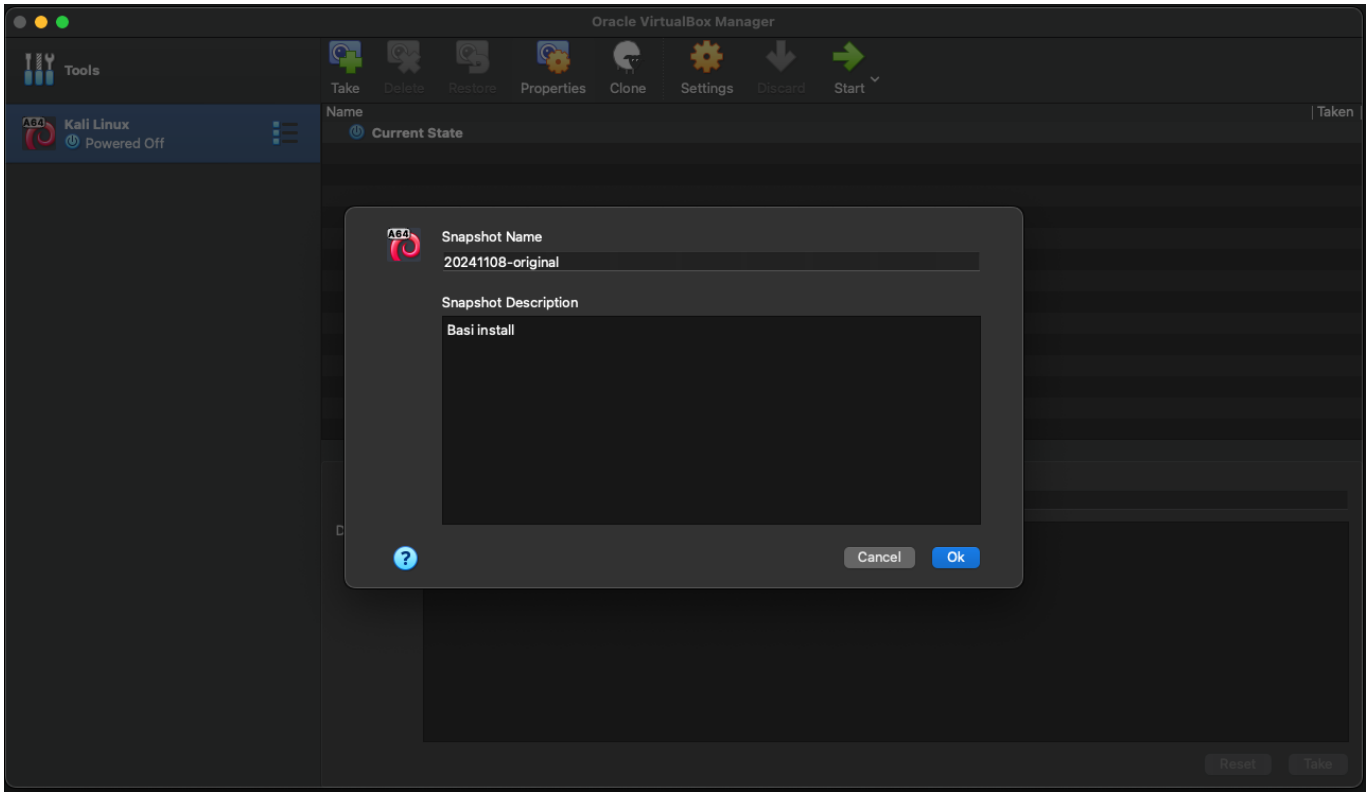
First reboot

check your login/pass then shutdown the VM





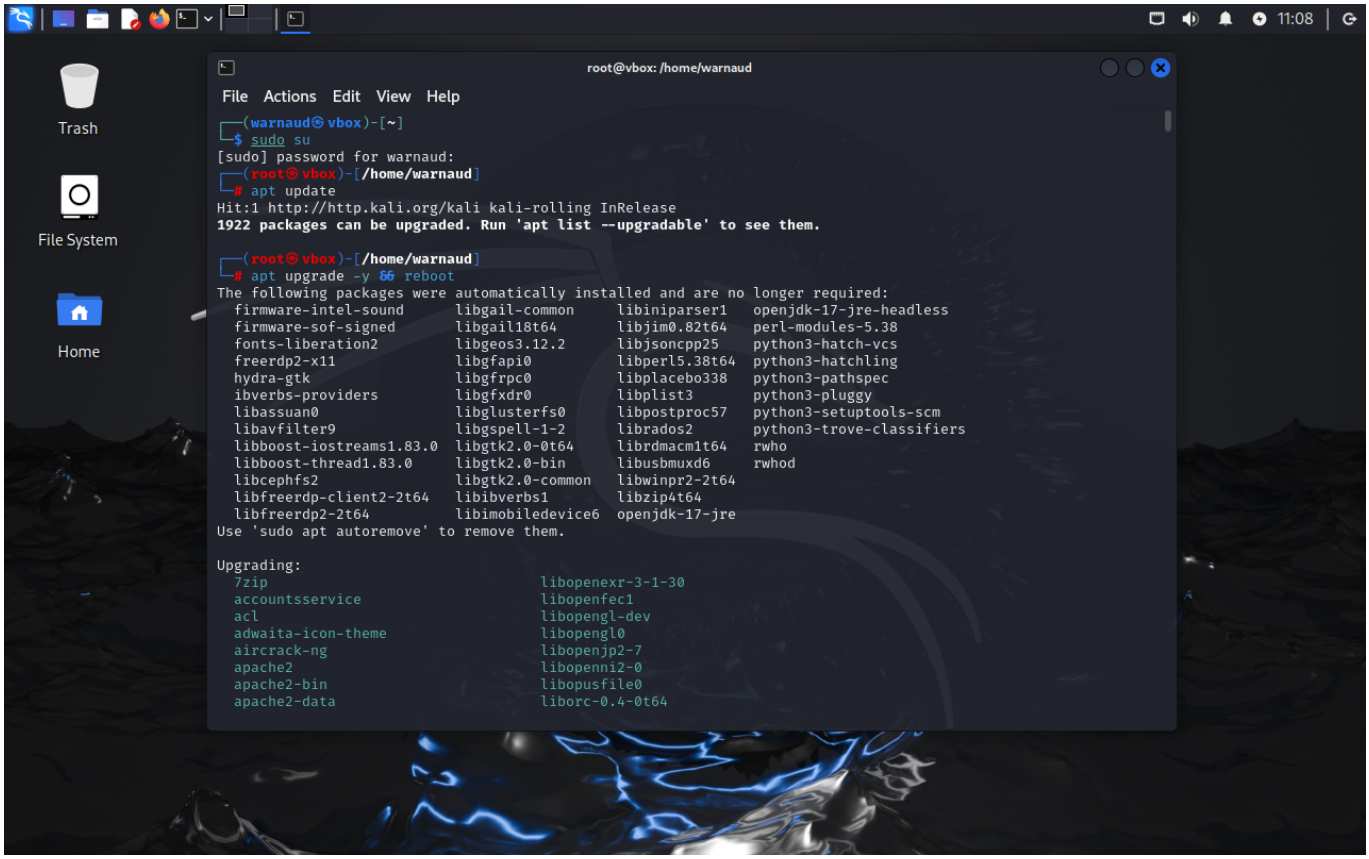
Snapshot



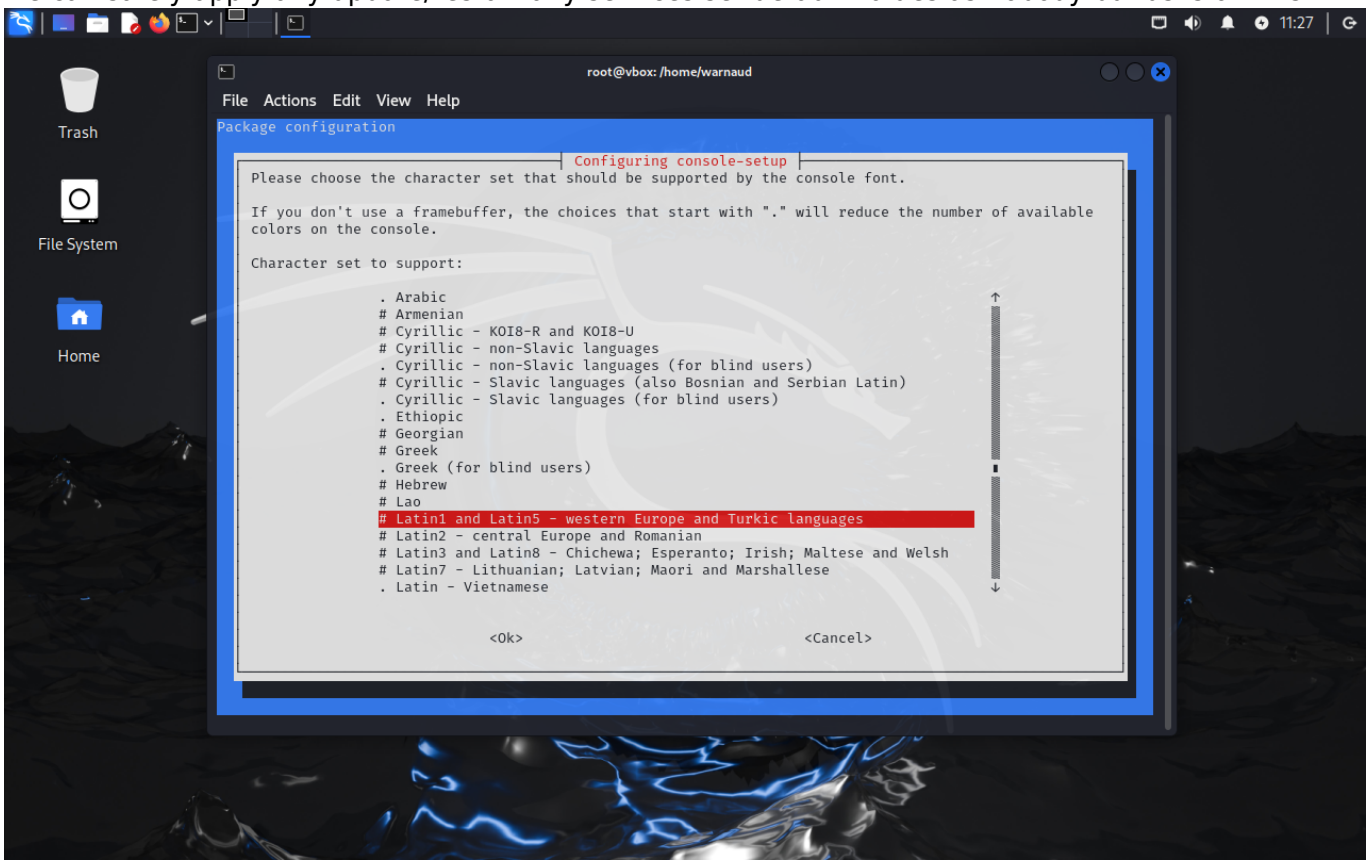
First full upgrade

```
sudo su
```

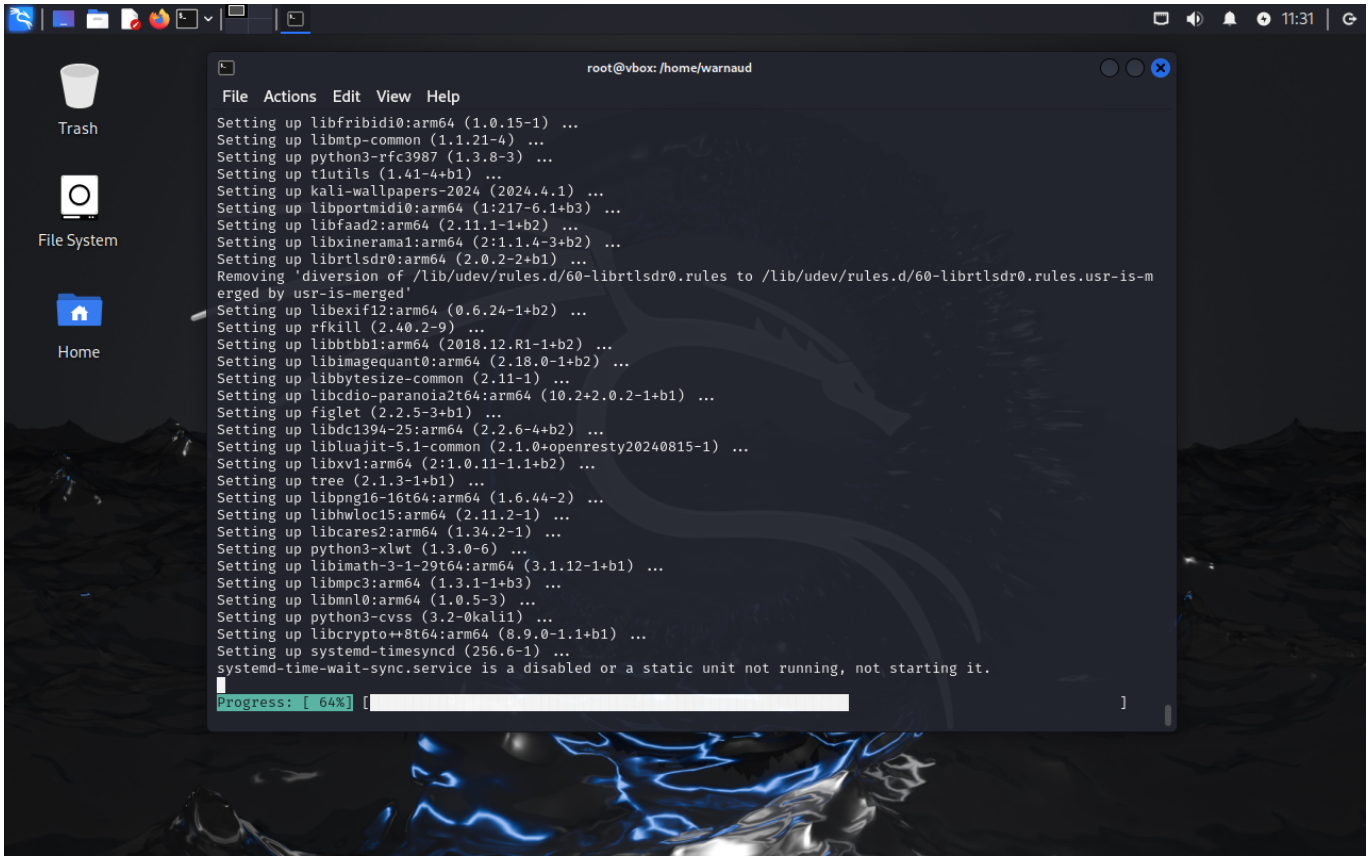
```
apt update
apt dist-upgrade -y && reboot
```



we can safely apply any update/restart any services set default values as nobody but us is on this VM



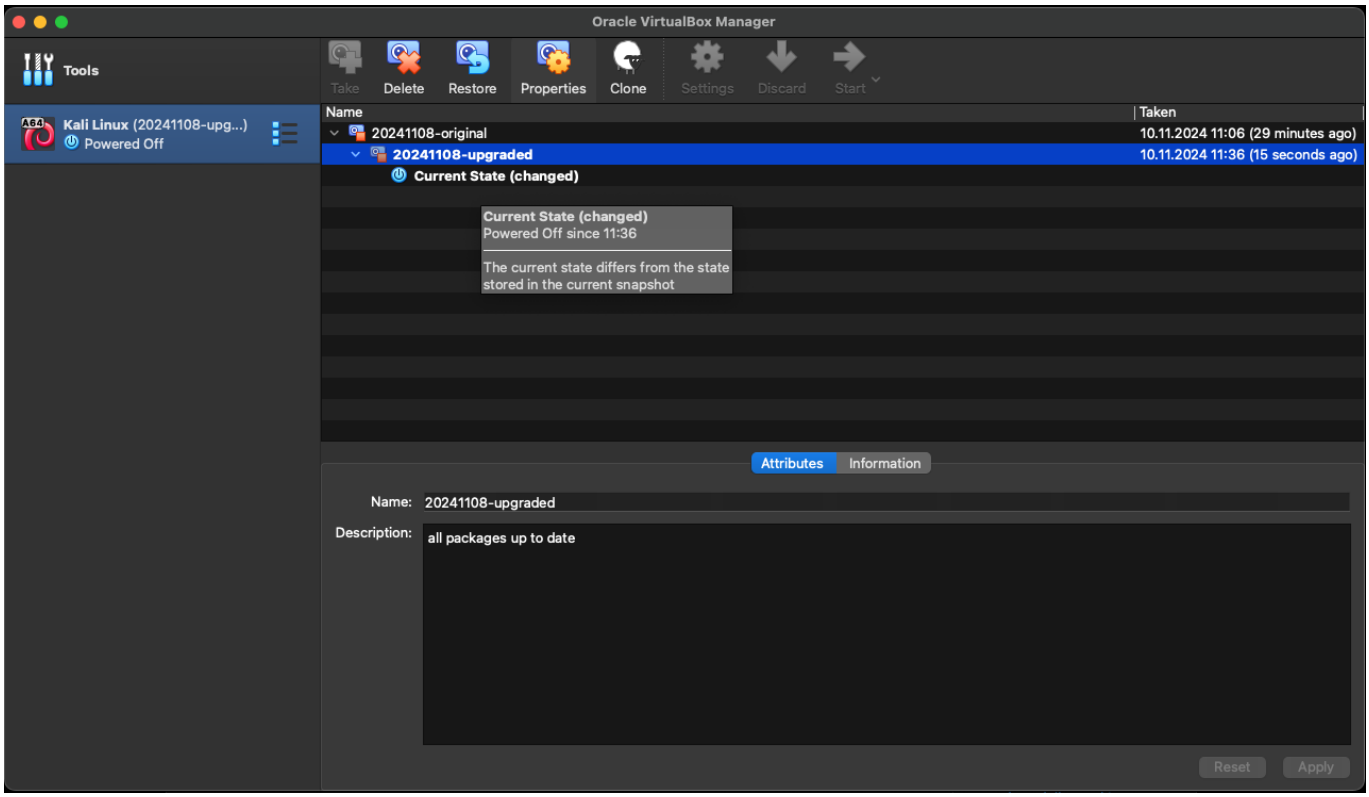
...



Takes a while but should finish then immediately reboot. If it doesn't reboot, note the error and google/Ai for it

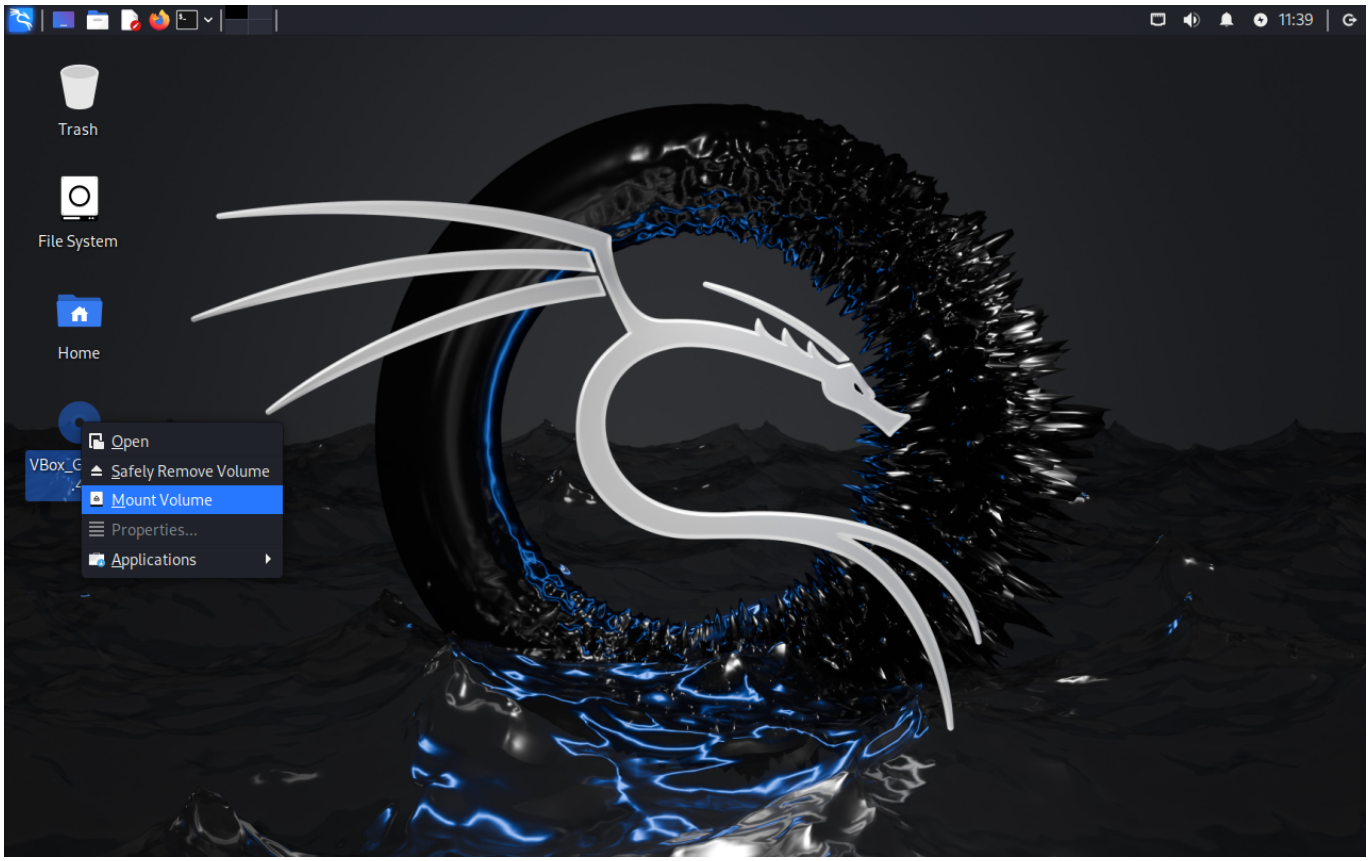
snapshot II

shutdown the machine and make a new snapshot



Guest Tools installation

boot the VM, log in your session
click on the menu Devices> Insert Guest Addition CD
Right-click on the CD on the Desktop and choose “Mount Volume”



Launch a terminal

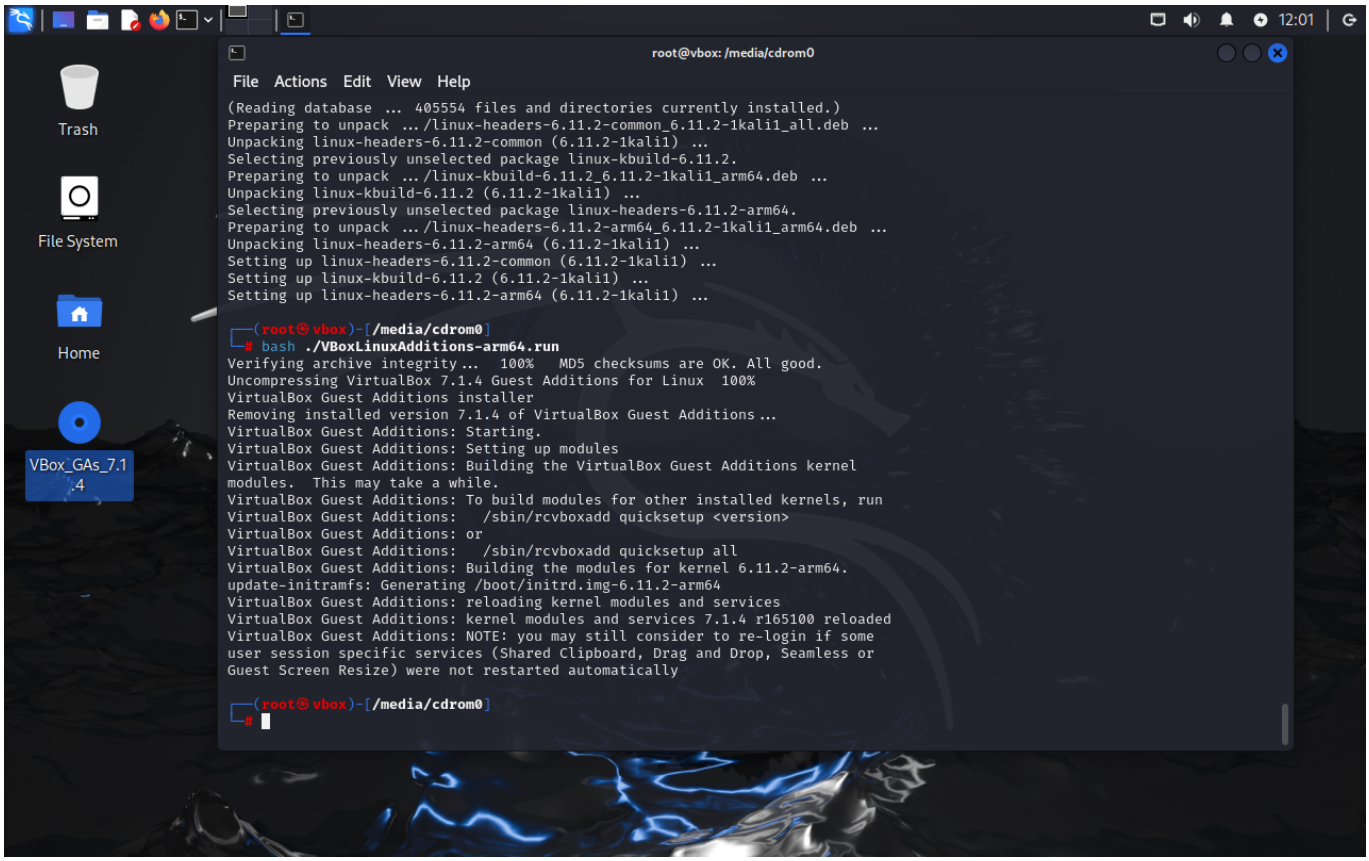
```
sudo su
```

```
cd /media/cdrom0
```




```
 apt install -y dkms linux-headers-`uname -r` build-essential
sh ./VBoxLinuxAdditions-arm64.run
usermod -sG vboxsf warnaud
```

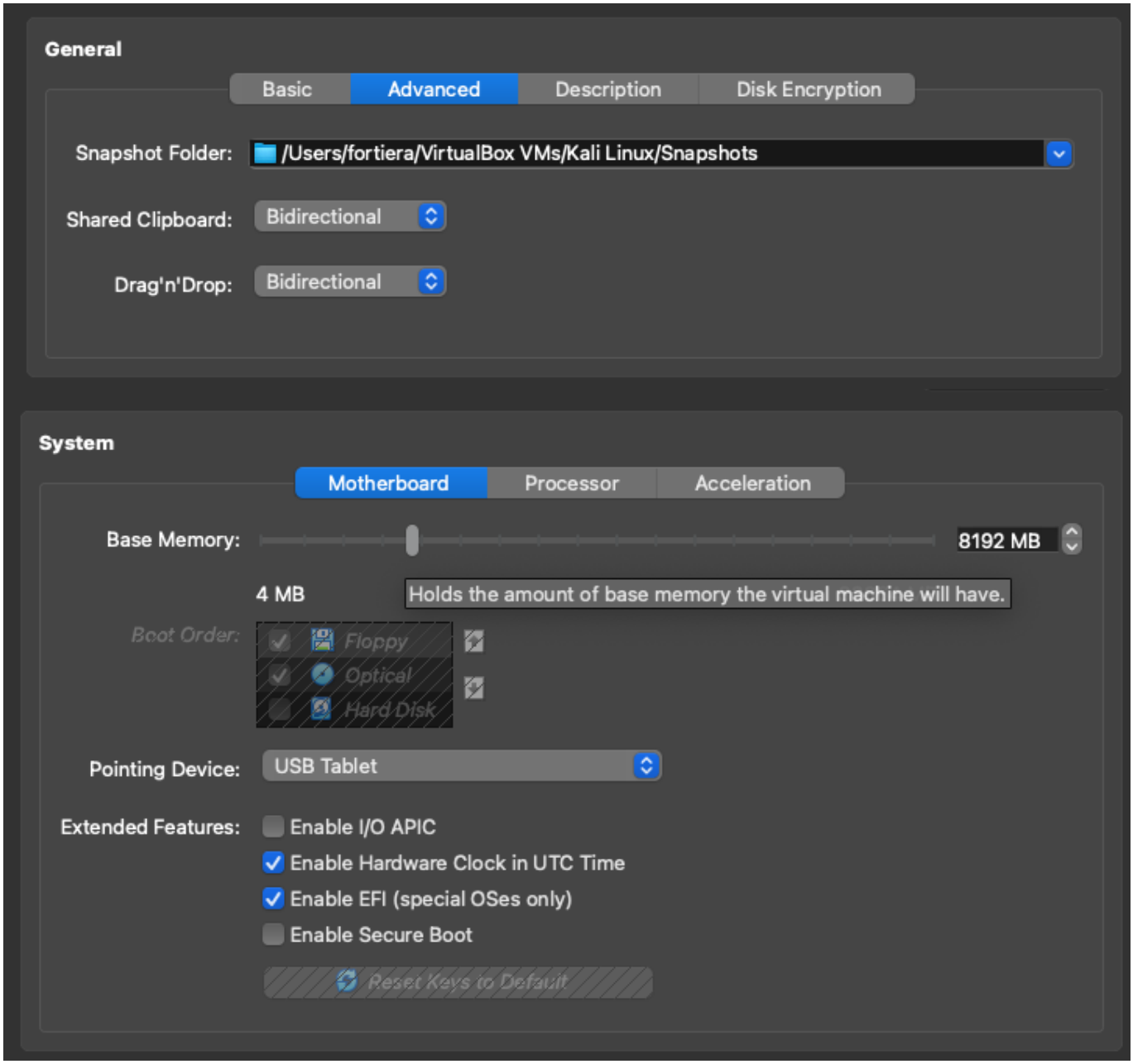
chane **warnaud** by the name of your user

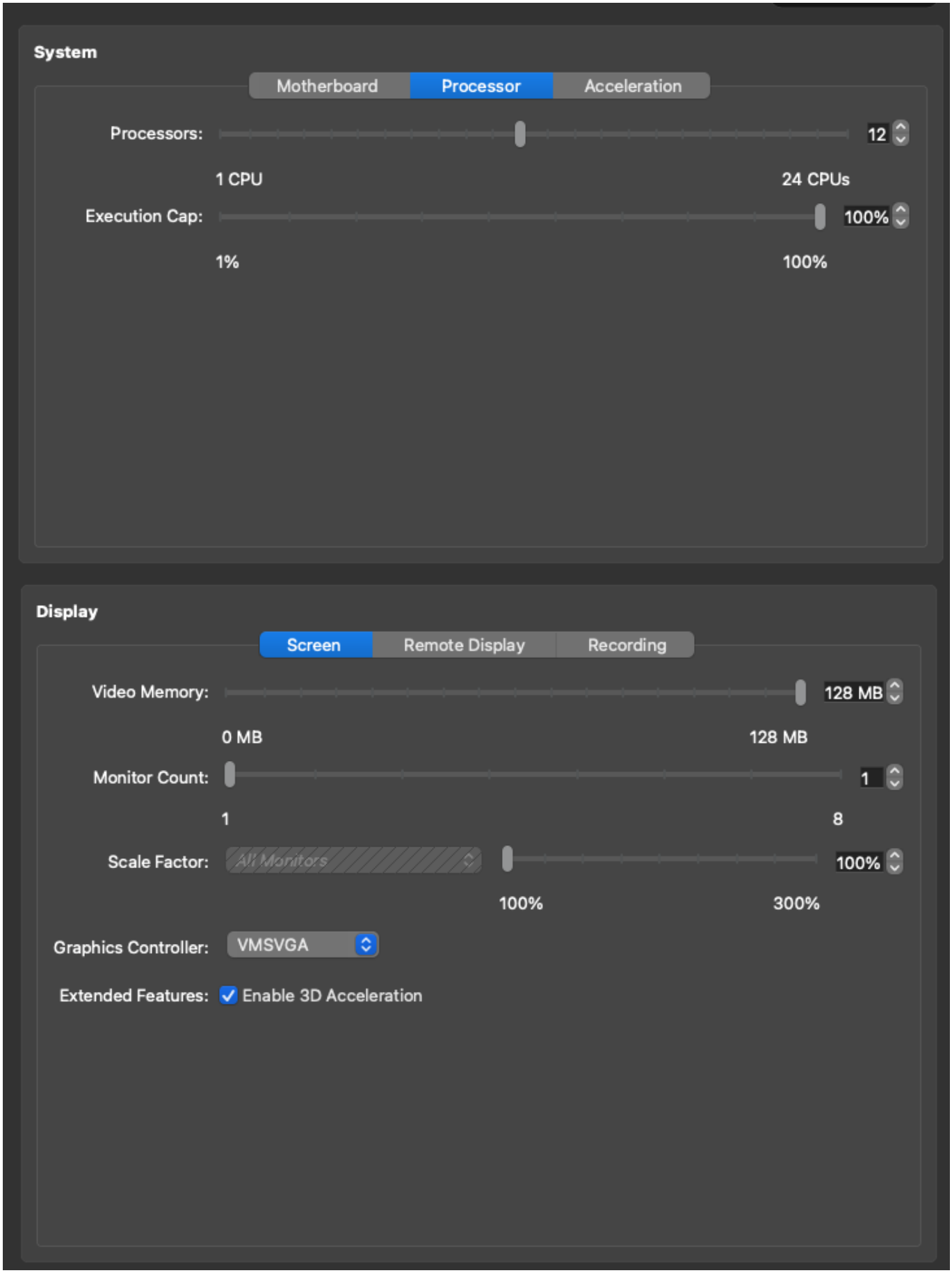


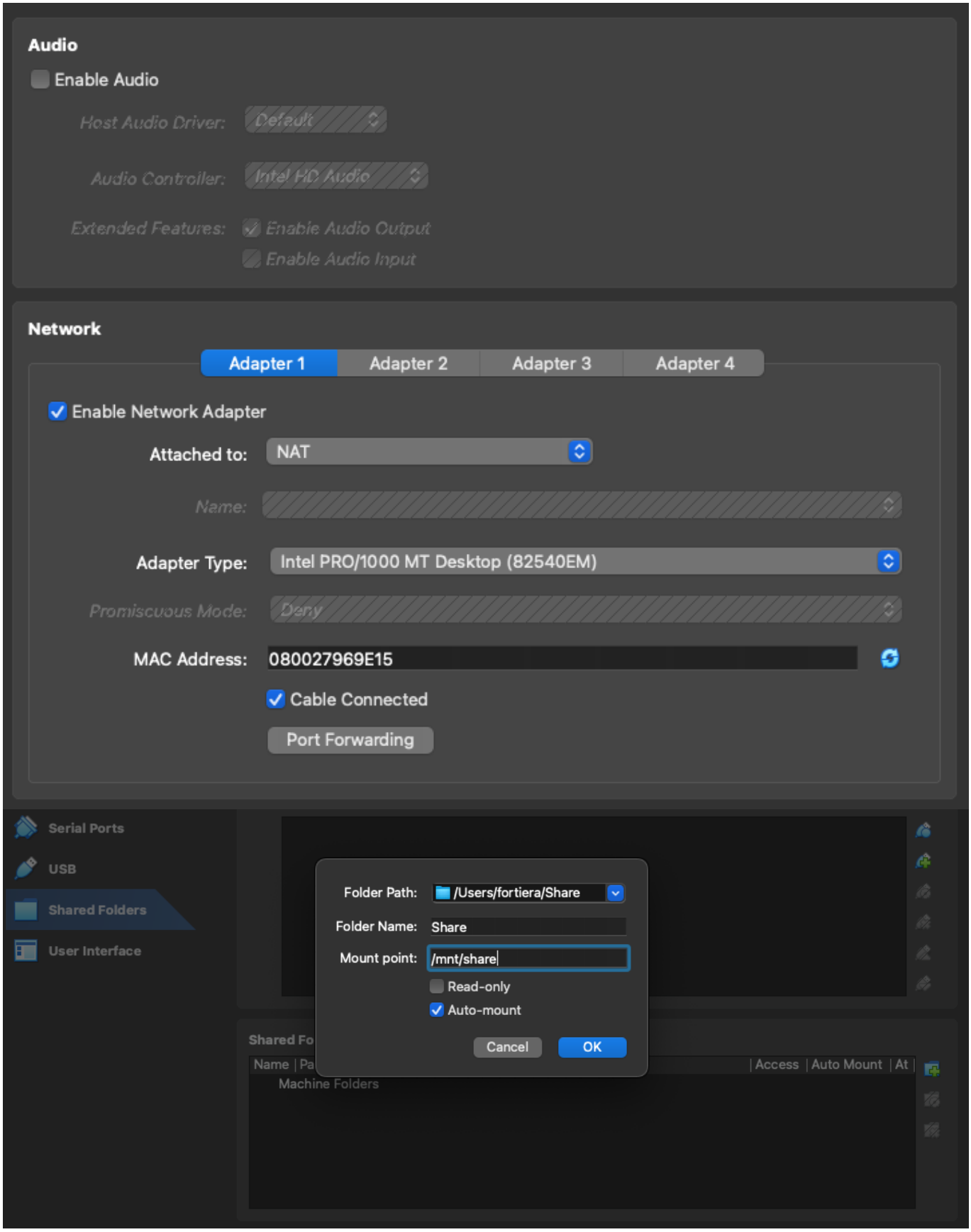
Fine tuning

stop the machine and click on the settings button to fine tune it:

- add more RAM and CPU if possible (runs fine with defaults)
- add clipboard
- 3D acceleration
- disable audio
- share folder




System
Motherboard
Processor
Acceleration
Processors:
12
1 CPU
24 CPUs
Execution Cap:
100%
1%
100%
Display
Screen
Remote Display
Recording
Video Memory:
128 MB
0 MB
128 MB
Monitor Count:
1
1
8
Scale Factor:
All Monitors
100%
100%
300%
Graphics Controller:
VMSVGA
Extended Features:
Enable 3D Acceleration



Extra packages

Start the machine, now you “should be able to copy/paste commands !

```
apt update && apt install -y htop ccze dfc iftop libreoffice libreoffice-
```

```
l10n-de libreoffice-l10n-fr clipit zaproxy
```

Hacks

sudoers

```
sudo su
```

```
usermod -aG kali-trusted kali
```

Autologin

```
sudo su
```

Manual

```
 vi /etc/lightdm/lightdm.conf
```

```
...
[Seat:*]
...
autologin-user=kali
autologin-user-timeout=0
...
```

One-liner

😎

```
 sudo sed -i 's/#autologin-user=/autologin-user=kali/g; s/#autologin-user-timeout=0/autologin-user-timeout=0/g' /etc/lightdm/lightdm.conf
```

Extra packages

Docker

```
sudo su
```

```
apt update
apt install -y apt-transport-https ca-certificates curl gnupg lsb-release
# Add Docker's official GPG key
curl -fsSL https://download.docker.com/linux/debian/gpg | gpg --dearmor -o
```

```
/usr/share/keyrings/docker-archive-keyring.gpg
# Add Docker repository (using Debian as base since Kali is Debian-based)
echo "deb [arch=arm64 signed-by=/usr/share/keyrings/docker-archive-
keyring.gpg] https://download.docker.com/linux/debian bullseye stable" | tee
/etc/apt/sources.list.d/docker.list > /dev/null

# Update package list again
apt update
apt install -y docker-ce docker-ce-cli containerd.io
systemctl enable docker --now
usermod -aG docker kali
```

Docker-compose

check: https://github.com/docker/compose/releases/ for url

```
sudo su
```

```
sudo wget
https://github.com/docker/compose/releases/download/v2.30.3/docker-compose-
linux-aarch64 -O /usr/bin/docker-compose
chmod +x /usr/bin/docker-compose
```

Test

Does it work?
log out or reboot so the user kali is part of the docker group

```
docker info
docker-compose info
```

Volatility 2 & python2

```
sudo su
```

```
# Install dependencies
apt install -y python2 python2-dev build-essential git libdistorm3-dev yara
libraw1394-11 libcapstone-dev capstone-tool tzdata libpython2-dev libjpeg-
dev zlib1g-dev libfreetype6-dev liblcms2-dev libwebp-dev tcl8.6-dev tk8.6-
dev python2.7-tk
#Install pip
cd
curl https://bootstrap.pypa.io/pip/2.7/get-pip.py --output get-pip.py
python2 get-pip.py
# Install Python deps with python2 pip
python2 -m pip install -U setuptools wheel
python2 -m pip install importlib
```

```
python2 -m pip install distorm3
python2 -m pip install pycrypto
python2 -m pip install yara-python==3.11.0
python2 -m pip install pillow
python2 -m pip install openpyxl
python2 -m pip install pytz
python2 -m pip install ipython
python2 -m pip install capstone
# link yara
ln -s /usr/lib/aarch64-linux-gnu/libyara.so.10 /usr/lib/libyara.so
# Check python & yara are working
python2 -c "import yara; print('YARA Python working')"
yara --version

# Clone Volatility 2
cd /opt
git clone https://github.com/volatilityfoundation/volatility.git
echo "#! /usr/bin/bash
/usr/bin/python2  /opt/volatility/vol.py \$@" > /usr/local/bin/volatility
chmod +x /usr/local/bin/volatility
```

Volatility 3

```
 sudo su
```

```
cd /opt
git clone https://github.com/volatilityfoundation/volatility3.git
ln -s /opt/volatility3/vol.py /usr/local/bin/volatility3
```

Yara

```
sudo su
```

```
mkdir /opt/yara
cd /opt/yara
git clone https://github.com/Yara-Rules/rules.git
```

From:
https://wiki.fortier-family.com/ - **Warnaud's Wiki**

Permanent link:
https://wiki.fortier-family.com/os/kali/css-arm

Last update: **2026/08/07 10:51**