This instruction is to install Eunhasu OS into the sMS-1000SQ.

Installing Eunhasu x86

Make the USB installation disk

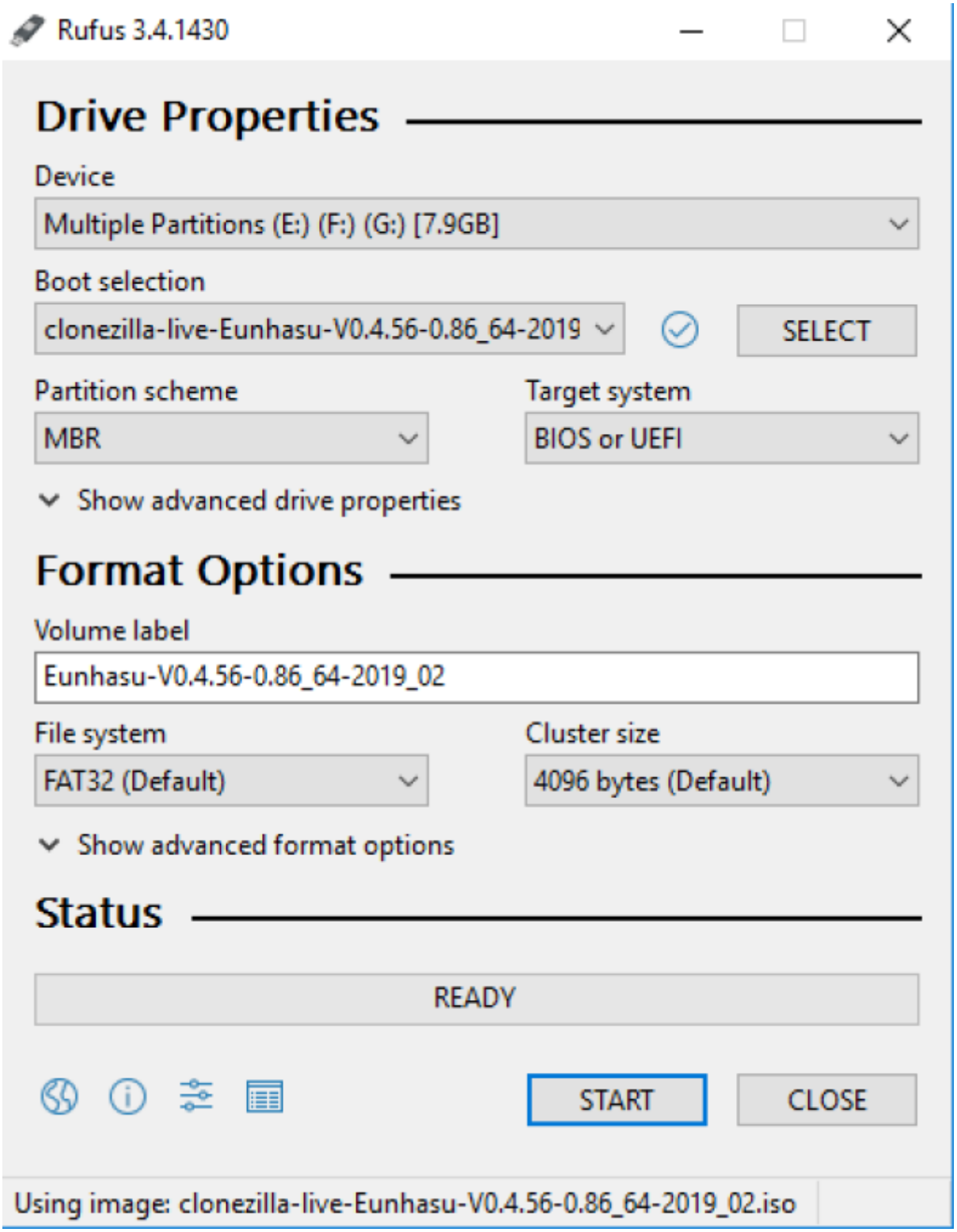
Download the ISO image

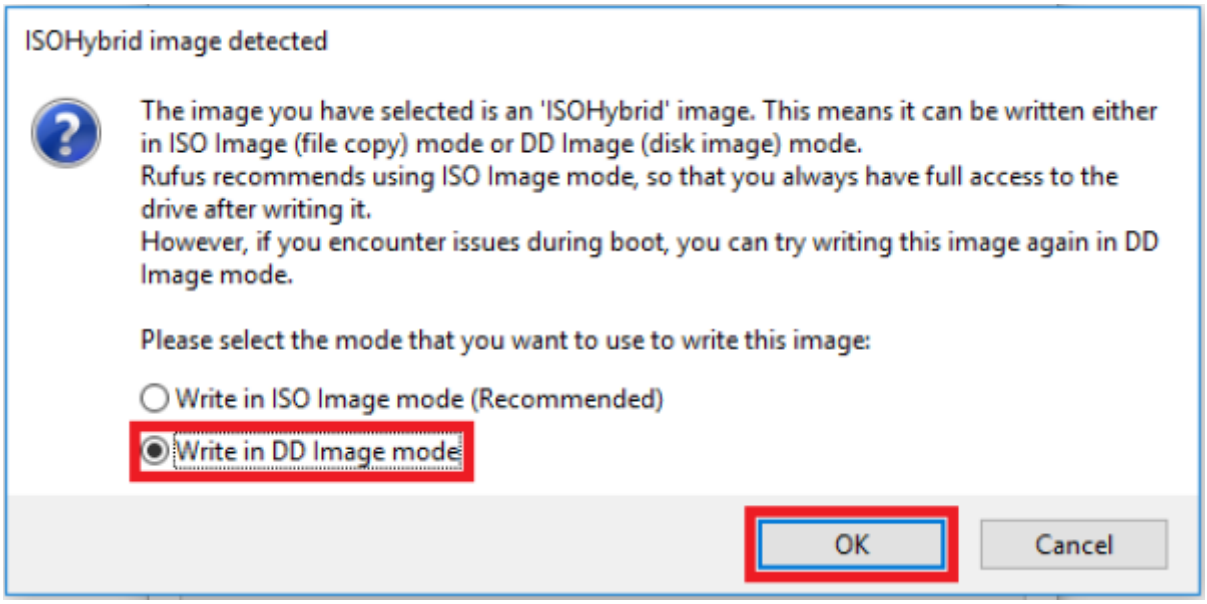
- New Eunhasu x86 image

Download the Rufus program

- Download Rufus V3.4

Make the USB installation disk


Rufus 3.4.1430
Drive Properties
Device
Multiple Partitions (E:) (F:) (G:) [7.9GB]
Boot selection
clonezilla-live-Eunhasu-V0.4.56-0.86_64-2019
SELECT
Partition scheme
MBR
Target system
BIOS or UEFI
Show advanced drive properties
Format Options
Volume label
Eunhasu-V0.4.56-0.86_64-2019_02
File system
FAT32 (Default)
Cluster size
4096 bytes (Default)
Show advanced format options
Status
READY
START
CLOSE
Using image: clonezilla-live-Eunhasu-V0.4.56-0.86_64-2019_02.iso



Install the Eunhasu OS

Precaution before installing Eunhasu OS

If the sMS-1000SQ has 2 internal storage disks installed, leave the disk for Eunhasu OS only and disconnect the other disk.

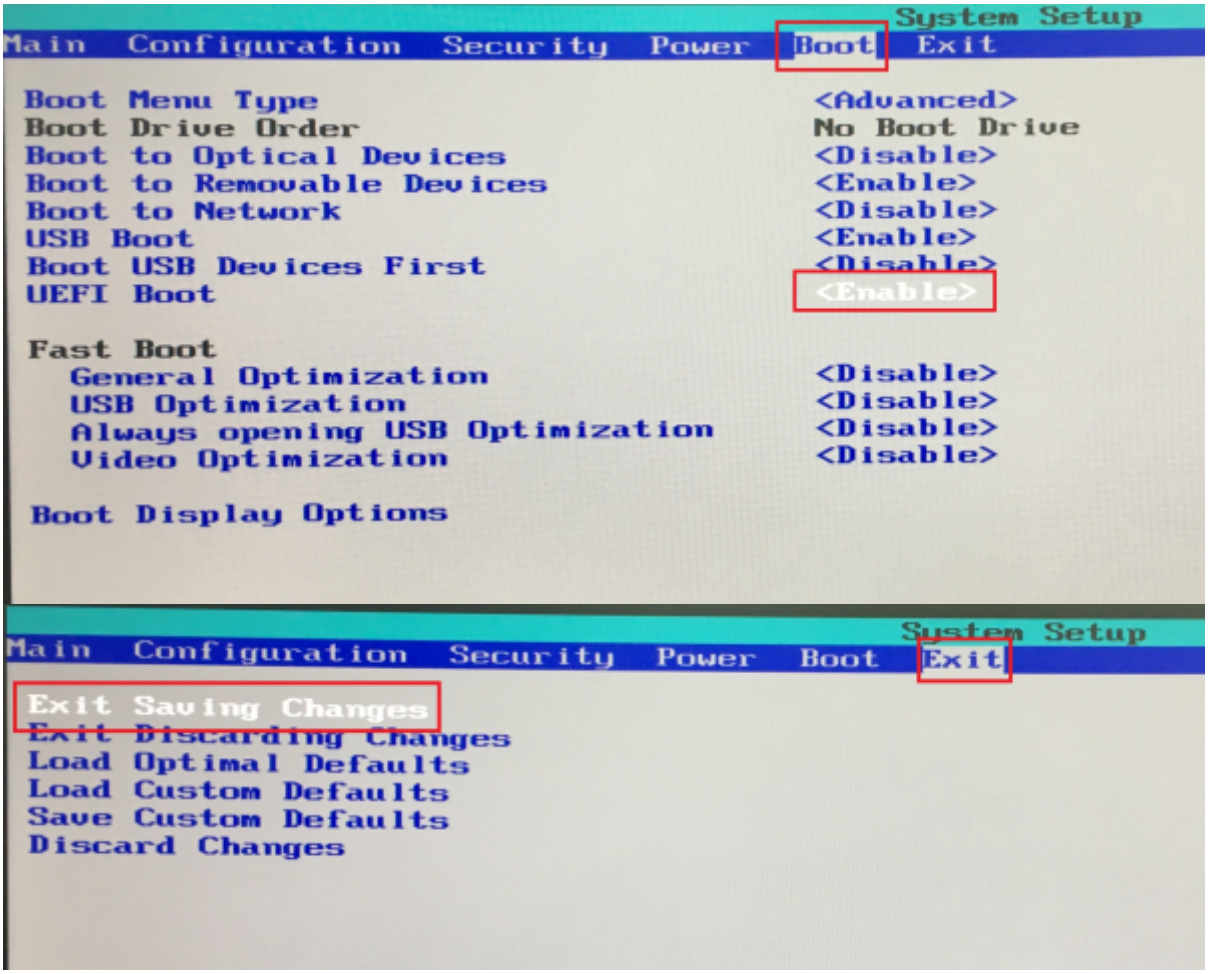
Boot the sMS-1000SQ

1. Connect the Ordered List ItemEunhasu USB installation disk to the sMS-1000SQ's USB output.
2. Connect **an LCD monitor to the sMS-1000SQ with an HDMI cable**.
3. Connect a USB keyboard to the sMS-1000SQ and power on the device.
4. Hit the F10 key to go to the booting disk selection screen. The F10 key should be hit at the same time as the unit is powered on.
5. Select the inserted USB installation disk and start booting the device.

If you change the OS from the Vortexbox or Windows Edition to Eunhasu OS

- You will need to enable UEFI boot before installing Eunhasu OS newly.

1. Please enter the BIOS setup by hitting F2 button once you power up the sMS-1000SQ.
2. Go to the Boot menu, and check that UEFI boot is enabled. If it is disabled, please enable it.
3. Go to Exit menu for Exit Saving Changes.



If the boot disk selection screen is not shown up

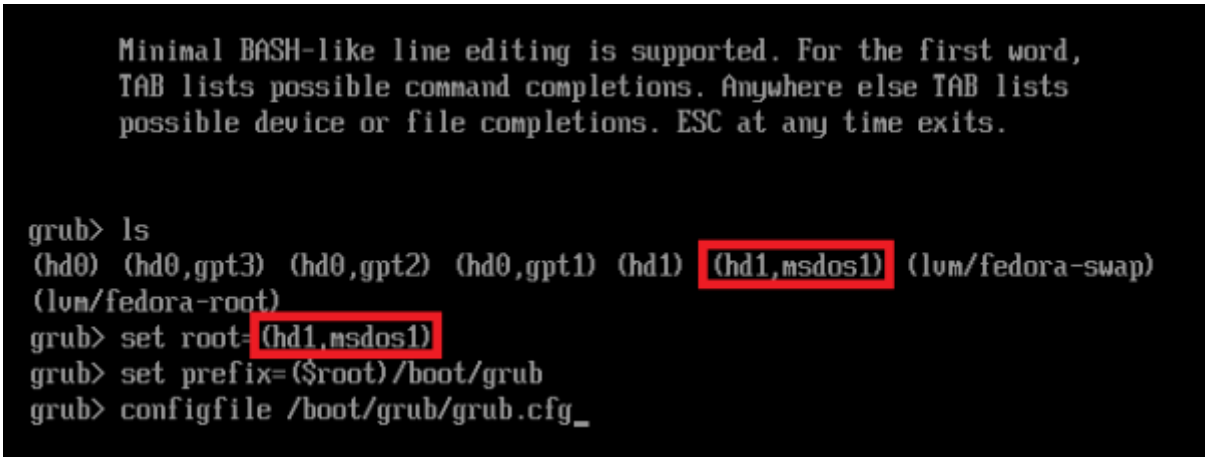
- If you are not able to see the boot disk selection screen when you hit the F10 button while turning on the power, follow the steps below to go to the Eunhasu setup screen.

Enter 'c' key on the screen (enter in 5 sec)

Enter the command below in order.

- grub> ls
- grub> set root=(**xxx**,msdos1)
- grub> set prefix=($root)/boot/grub
- grub> configfile /boot/grub/grub.cfg

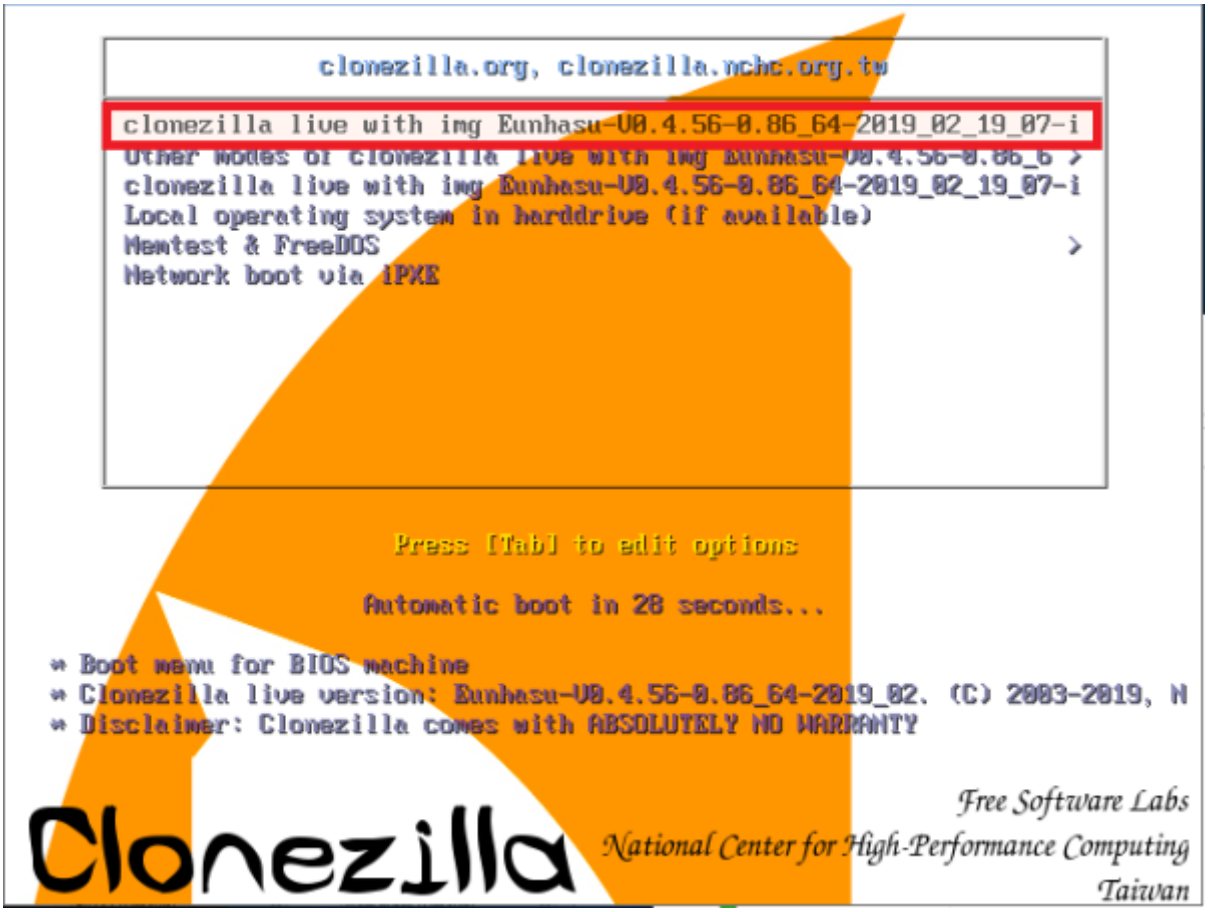
when entering**xxx**, you should check the (xxx,msdos1) disk like the image below and enter the same.



Proceed with the Eunhasu OS installation

Select the first menu on the screen, and keep continuing the boot.

- The displayed name may be different depending on the situation.

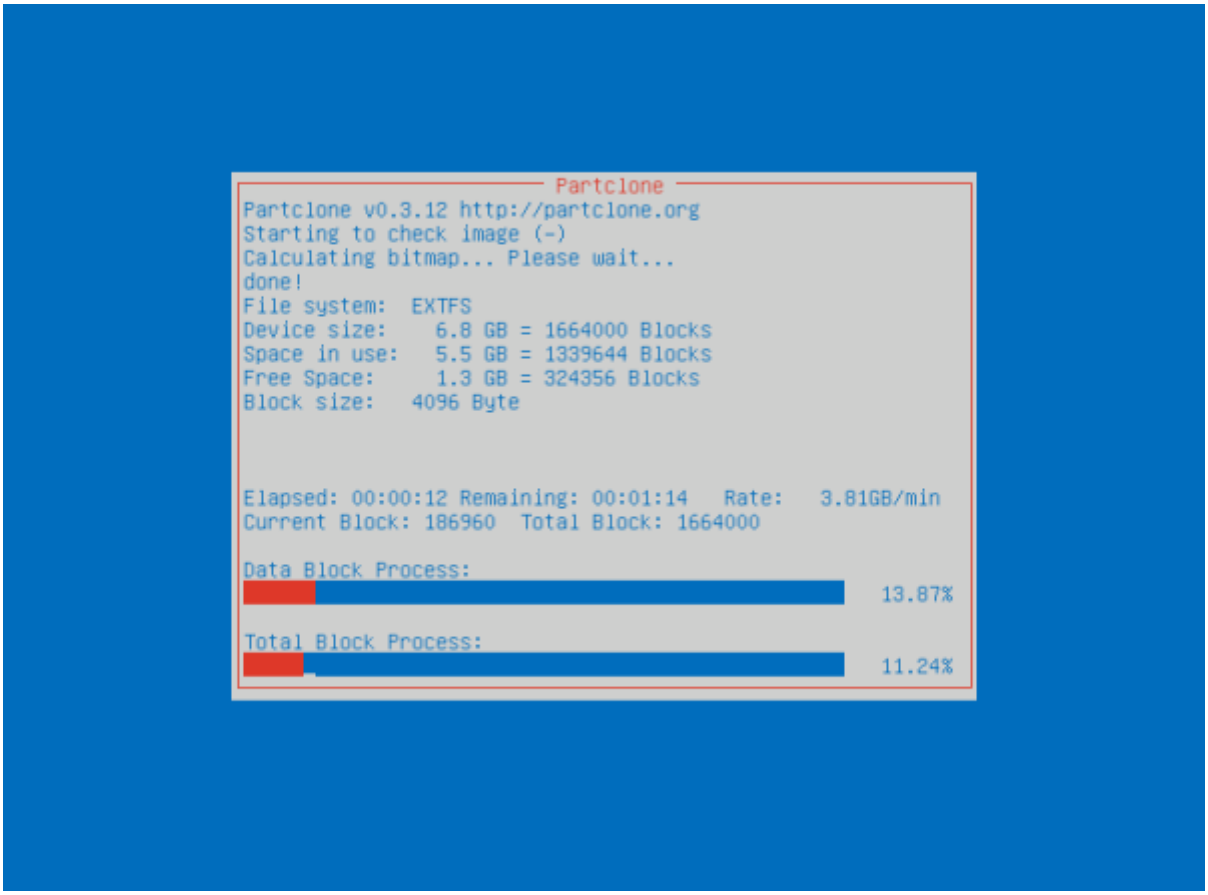


The disk check will be made while booting is processed, and the Eunhasu image will be installed into the sMS-1000SQ.

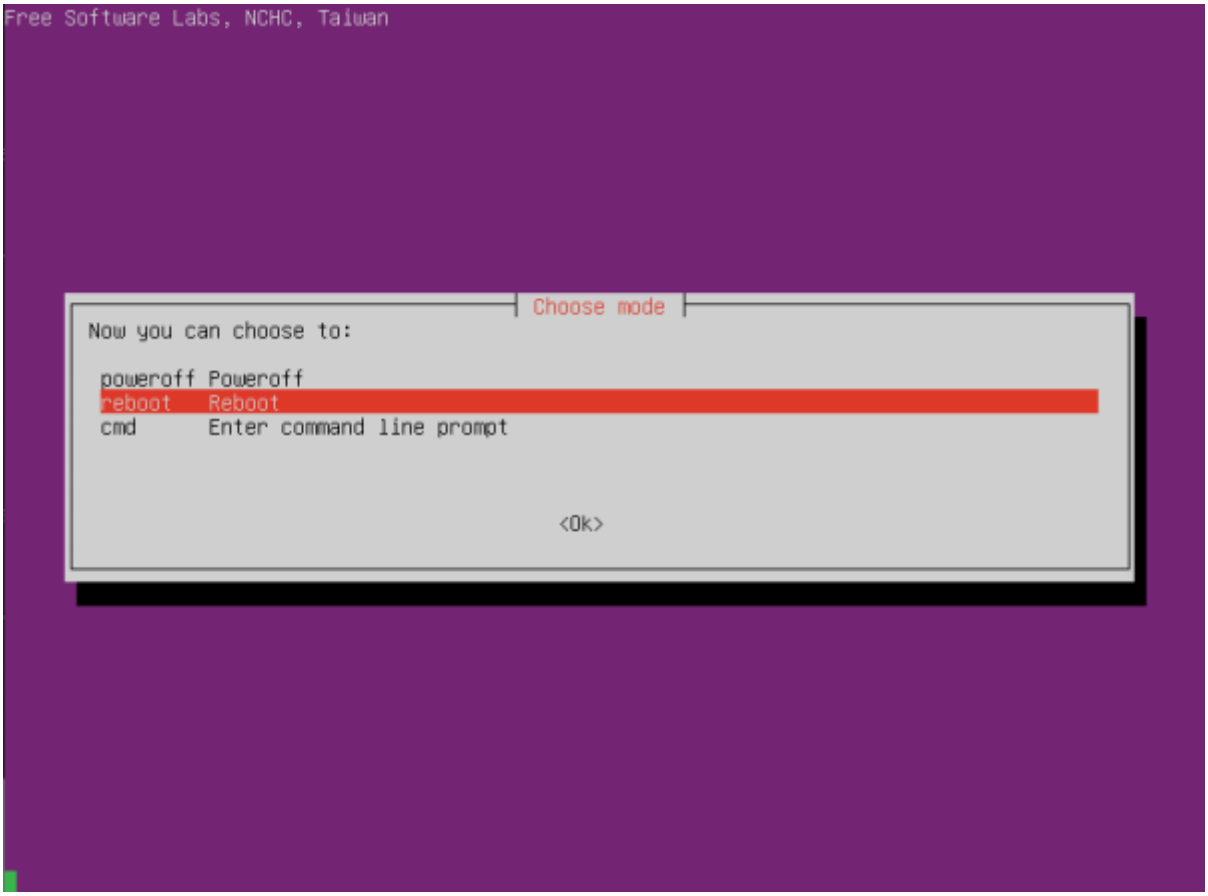
- Once the disk check is completed, press y key 2 times for the installation.

```
GPT partition table file for this disk saved by gdisk was found: sda
MBR file for this disk was found: sda
The image of this partition is restorable: sda1
The image of this partition is restorable: sda2
The image of this partition is restorable: fedora-root
All the images of partition or LV devices in this image were checked and they are restorable: Eunhas
u-V0.4.56-0.86_64-2019_02_19_07-img
=========================
Activating the partition info in /proc... done!
Error: /dev/sda: unrecognised disk label
**************************************************.
The following step is to restore an image to the hard disk/partition(s) on this machine: "/home/part
imag/Eunhasu-V0.4.56-0.86_64-2019_02_19_07-img" -> "sda sda1 sda2 sda3"
The image was created at: 2019-0219-0725
WARNING!!! WARNING!!! WARNING!!!
WARNING. THE EXISTING DATA IN THIS HARDDISK/PARTITION(S) WILL BE OVERWRITTEN! ALL EXISTING DATA WILL
 BE LOST:
**************************************************.
Machine: VMware Virtual Platform
sda (21.5GB_VMware_Virtual_S_No_disk_serial_no)
**************************************************.
Are you sure you want to continue? (y/n) y
OK, let's do it!!!
This program is not started by clonezilla server.
**************************************************.
Let me ask you again.
The following step is to restore an image to the hard disk/partition(s) on this machine: "/home/part
imag/Eunhasu-V0.4.56-0.86_64-2019_02_19_07-img" -> "sda sda1 sda2 sda3"
The image was created at: 2019-0219-0725
WARNING!!! WARNING!!! WARNING!!!
WARNING. THE EXISTING DATA IN THIS HARDDISK/PARTITION(S) WILL BE OVERWRITTEN! ALL EXISTING DATA WILL
 BE LOST:
**************************************************.
Machine: VMware Virtual Platform
sda (21.5GB_VMware_Virtual_S_No_disk_serial_no)
**************************************************.
Are you sure you want to continue? (y/n) y
```

- The screenshot of the installation process



Once the installation is completed, reboot the device.

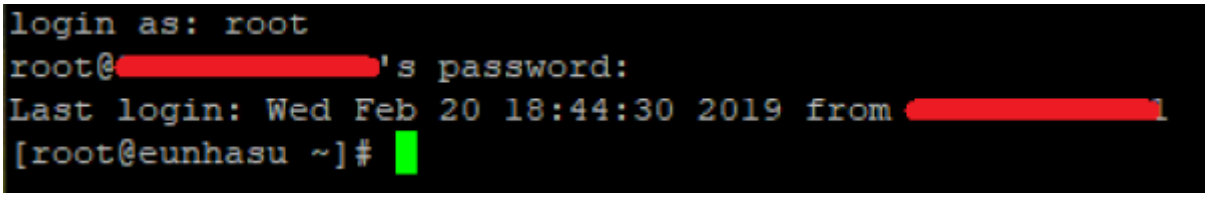


Increase the partition size for the storage

After re-booting the sMS-1000SQ Eunhasu, press the Ctrl+Alt+F2 buttons to go to the prompt mode.

Login

- ID : root
- PW : sotmaudio



Increase the partition size

- Run the command line like the below.

[root@localhost-live ~]# sh install/step1.sh

```
login as: root
root@192.168.0.10's password:
Last login: Wed Feb 20 18:44:30 2019 from 192.168.0.11
[root@eunhasu ~]# sh install/step1.sh
```

```
[fdisk status]----------------------------------------------------
Disk /dev/sda: 29.8 GiB, 32017047552 bytes, 62533296 sectors
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: A376B76C-304B-4B7A-BAA9-CAE7A06D585B

Device       Start      End  Sectors  Size Type
/dev/sda1     2048   411647   409600  200M EFI System
/dev/sda2   411648  1435647  1024000  500M Linux filesystem
/dev/sda3  1435648 16328703 14893056  7.1G Linux LVM
------------------------------------------------------------------
[parted resizepart]-----------------------------------------------
[e2fsck]----------------------------------------------------------
e2fsck 1.43.5 (04-Aug-2017)
/dev/mapper/fedora-root is mounted.
e2fsck: Cannot continue, aborting.


[resize2fs]-------------------------------------------------------
  Physical volume "/dev/sda3" changed
  1 physical volume(s) resized / 0 physical volume(s) not resized
  Size of logical volume fedora/root changed from 7.00 GiB (1792 extents) to <29.02 GiB (7428 extents).
  Logical volume fedora/root successfully resized.
resize2fs 1.43.5 (04-Aug-2017)
Filesystem at /dev/mapper/fedora-root is mounted on /; on-line resizing required
old_desc_blocks = 1, new_desc_blocks = 2
The filesystem on /dev/mapper/fedora-root is now 7606272 (4k) blocks long.

[fdisk result]----------------------------------------------------
Disk /dev/sda: 29.8 GiB, 32017047552 bytes, 62533296 sectors
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: A376B76C-304B-4B7A-BAA9-CAE7A06D585B

Device       Start      End  Sectors  Size Type
/dev/sda1     2048   411647   409600  200M EFI System
/dev/sda2   411648  1435647  1024000  500M Linux filesystem
/dev/sda3  1435648 62500000 61064353 29.1G Linux LVM
------------------------------------------------------------------

Check disk size

[root@eunhasu ~]#
```

Mount an extra storage drive

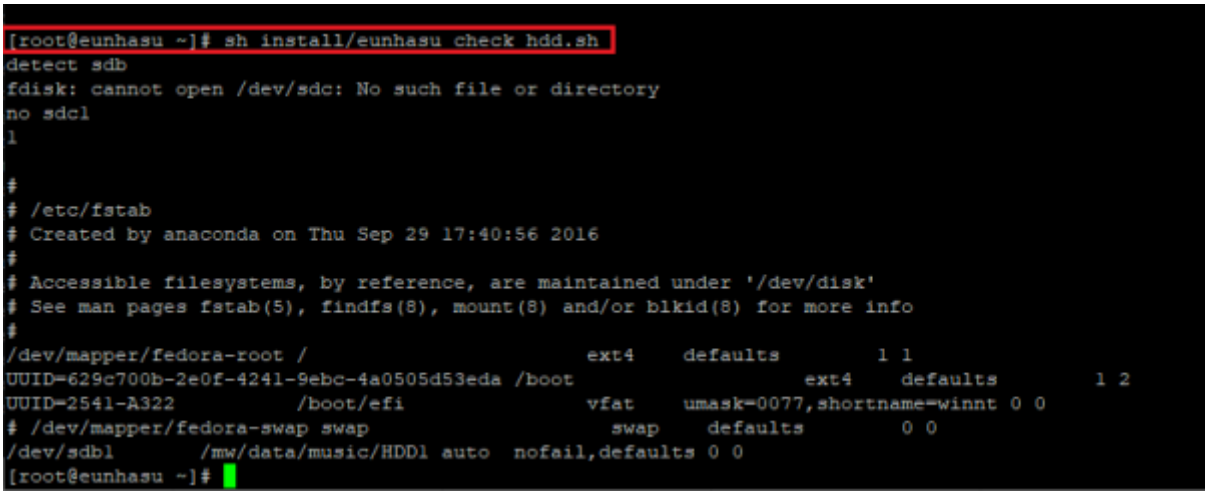
Precaution, if you don't have an extra storage drive, please omit this process.

1. Make sure you have powered off the sMS-1000SQ, and connect the extra storage drive.
2. After powering up the sMS-1000SQ and completing the booting, log in using the ID an PW above with the same procedure as increase_the_partition_size_for_the_storage.

Run the mount script

Run the mount script.

[root@localhost-live ~]# sh install/eunhasu_check_hdd.sh



Download

Utilities

- Download Rufus V3.4

Eunhasu x86 image file

- Eunhasu x86 V0.5.1
- Eunhasu x86 V0.5.2