

Olex

October 1 2021

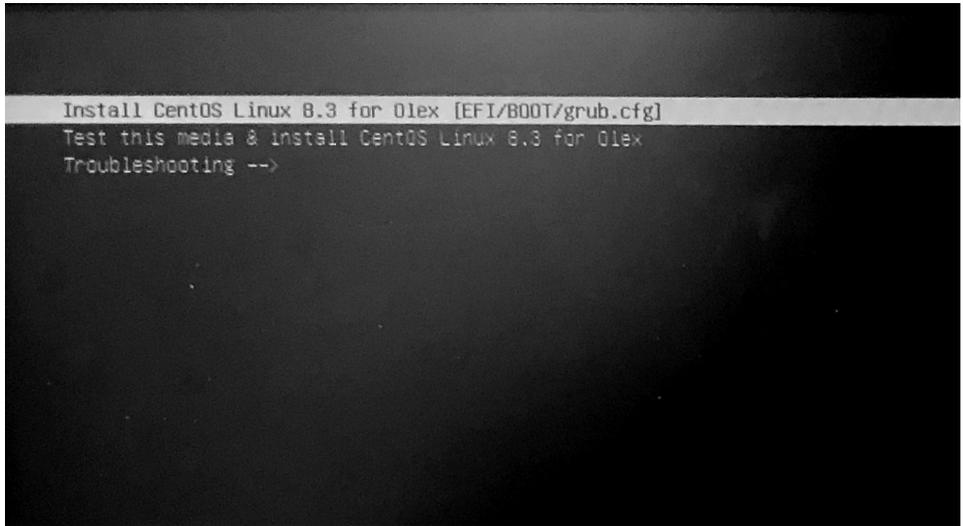
Install CentOS 8.3 and Olex

Enter the computers BIOS setup and make the following changes (if applicable):

- Disable secure boot.
- Turn off RAID and set SATA operation to AHCI.
- Disable any redundant network hardware
- Make the CentOS USB stick First Boot Device
 - select UEFI boot if available

Save and exit BIOS.

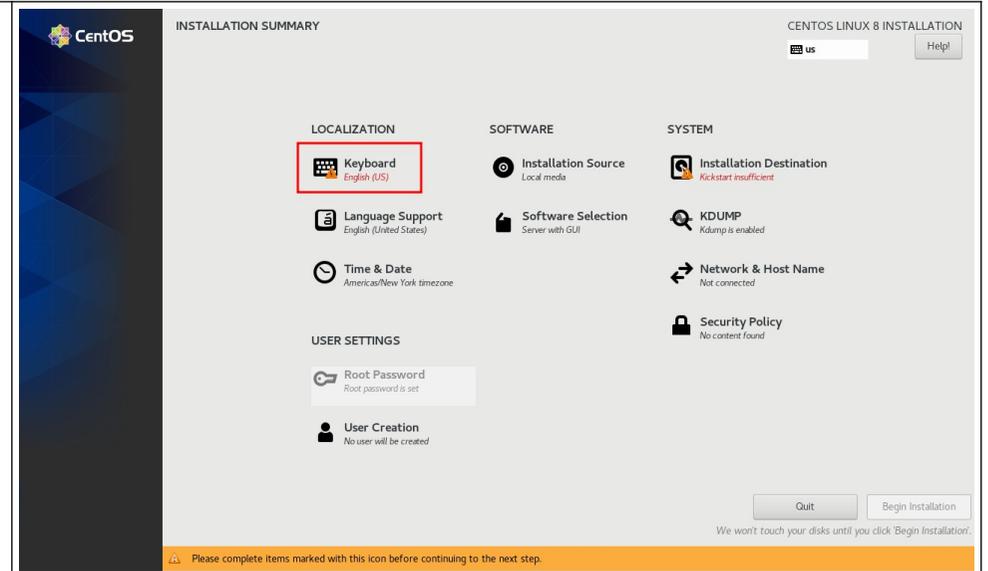
Choose "Install CentOS Linux 8.3 for Olex..."

A screenshot of the CentOS 8.3 boot menu. The menu is displayed in a dark terminal window with a light gray highlight on the first option. The text in the menu is as follows:

```
Install CentOS Linux 8.3 for Olex [EFI/BOOT/grub.cfg]
Test this media & install CentOS Linux 8.3 for Olex
Troubleshooting -->
```

Keyboard configuration

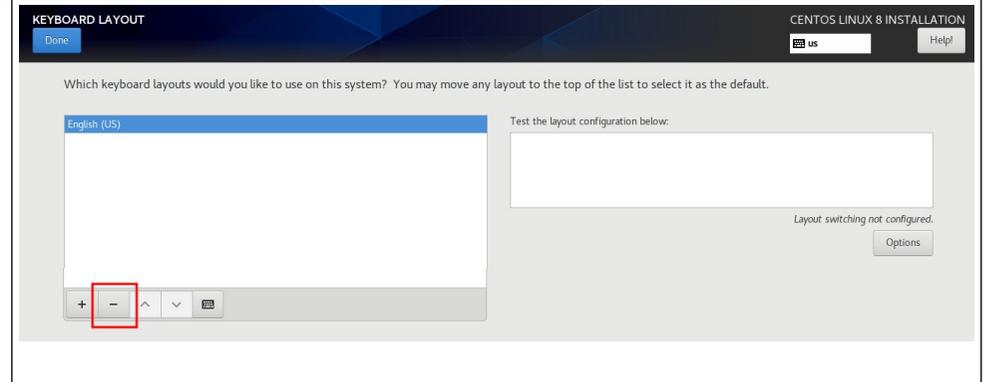
Under "Localization", choose "Keyboard"



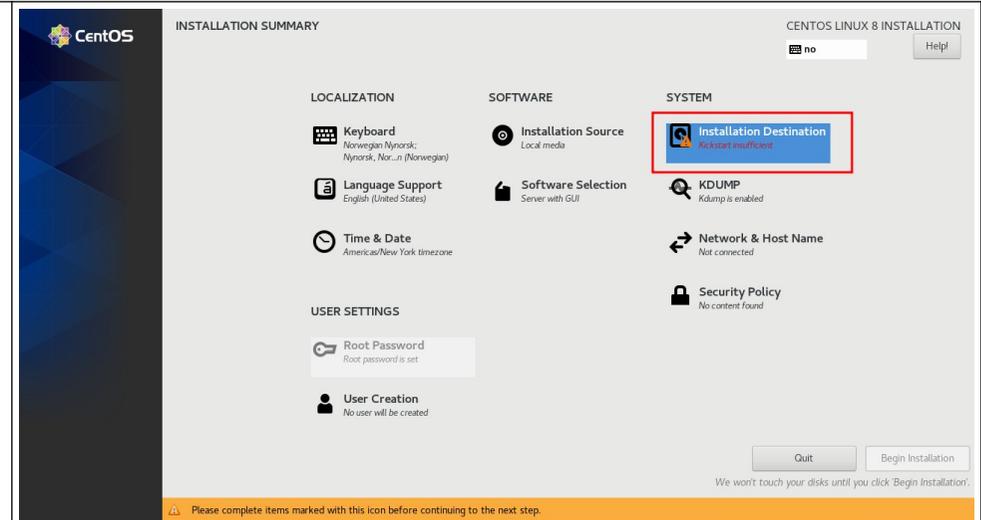
To remove the default keyboard layout, Click to highlight it, and then click on the minus sign [-].

A new list of layouts appear - choose the required layout.

"Done"



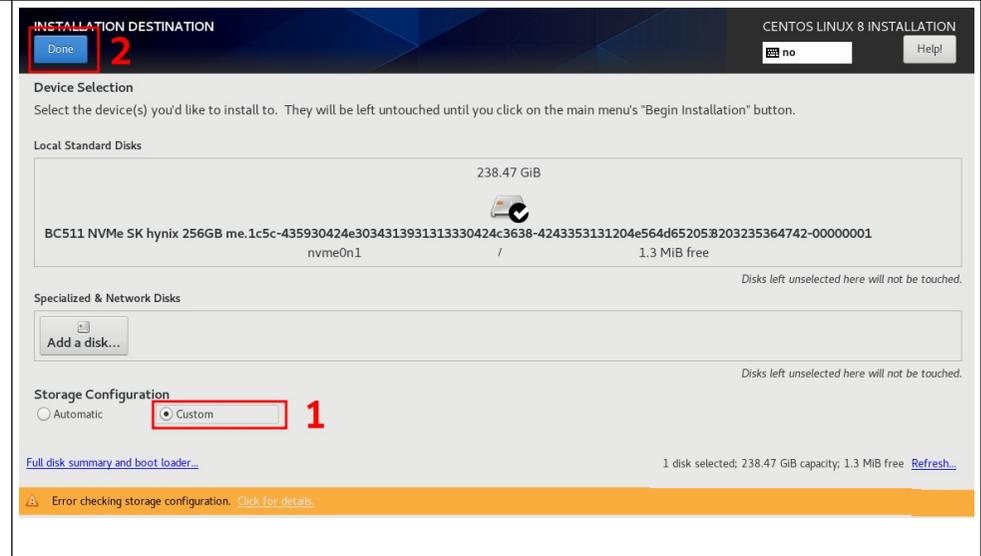
"Installation Destination"



The screenshot shows the 'INSTALLATION SUMMARY' screen for CentOS Linux 8. The interface is divided into several sections: LOCALIZATION, SOFTWARE, SYSTEM, and USER SETTINGS. In the SYSTEM section, the 'Installation Destination' option is highlighted with a red box. Below the summary, there are 'Quit' and 'Begin Installation' buttons. A warning message at the bottom states: 'Please complete items marked with this icon before continuing to the next step.'

"Storage Configuration" -> "Custom"

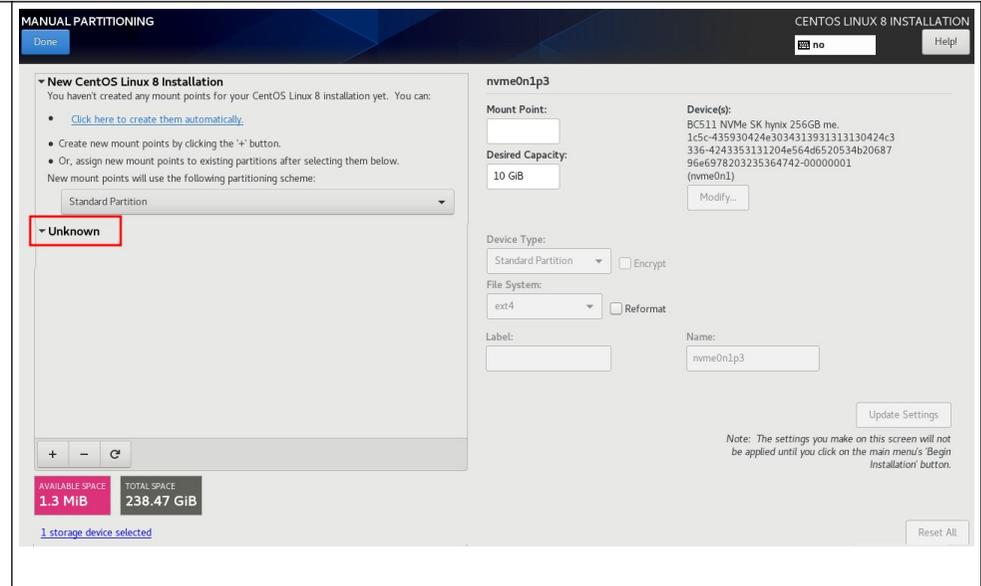
"Done"



The screenshot shows the 'INSTALLATION DESTINATION' screen. At the top, a 'Done' button is highlighted with a red box and a red '2'. The screen displays 'Device Selection' with a list of 'Local Standard Disks'. One disk is selected: 'BC511 NVMe SK hynix 256GB me.1c5c-435930424e3034313931313330424c3638-4243353131204e564d652058203235364742-00000001'. Below this, the 'Storage Configuration' section shows the 'Custom' radio button selected, highlighted with a red box and a red '1'. A warning message at the bottom states: 'Error checking storage configuration. Click for details.'

Any existing partitions has to be removed in order to free space for the new installation.

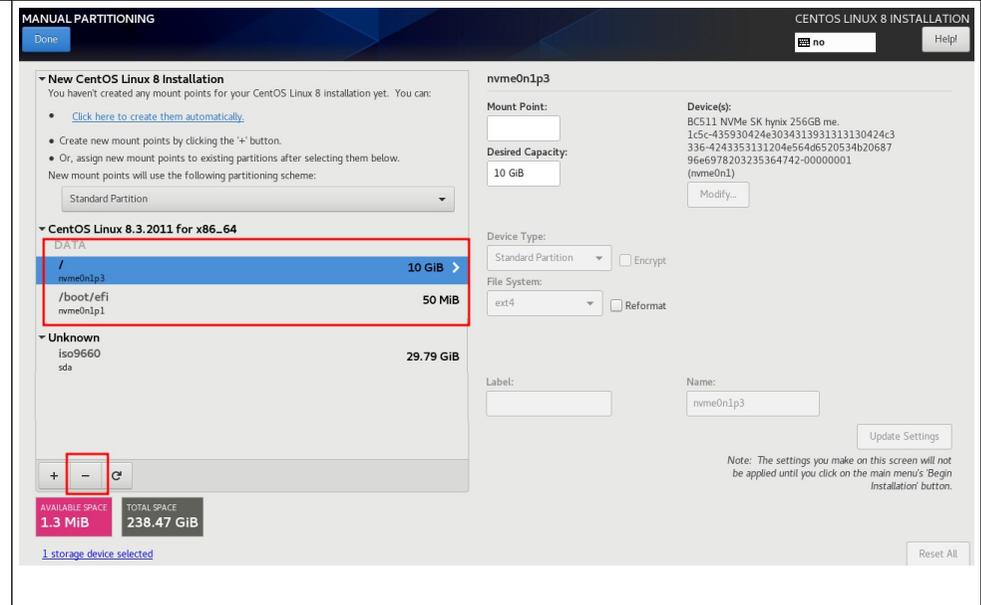
Click on the name of any existing installations to see and remove partitions.



Remove any existing partitions by clicking on each of them.

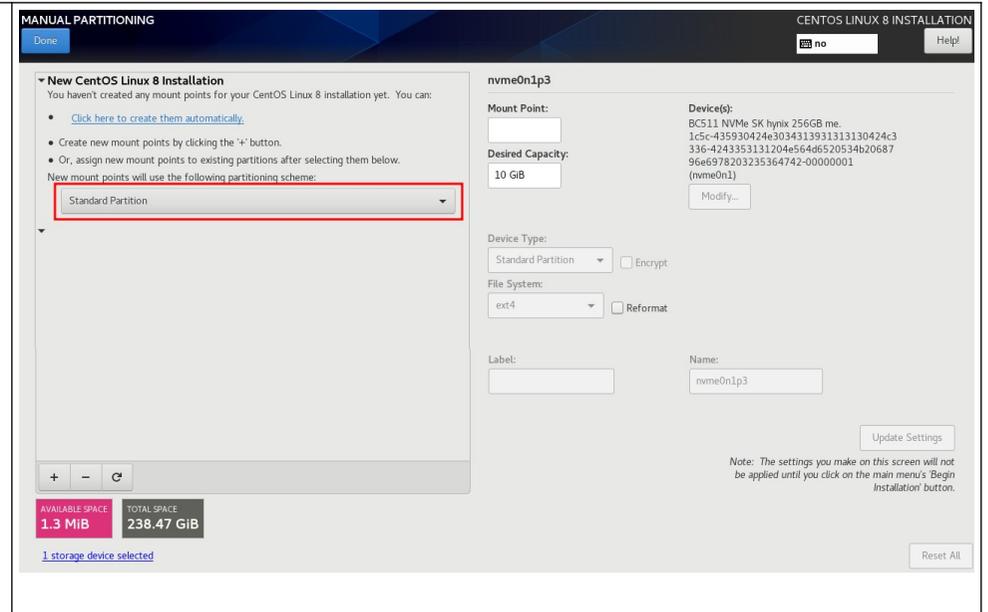
Then click on the minus sign [-] and confirm.

Note! The file system "Iso 9660" represent the installation media, and can not be removed



Choose partitioning scheme from the drop-down menu:

"Standard Partition"



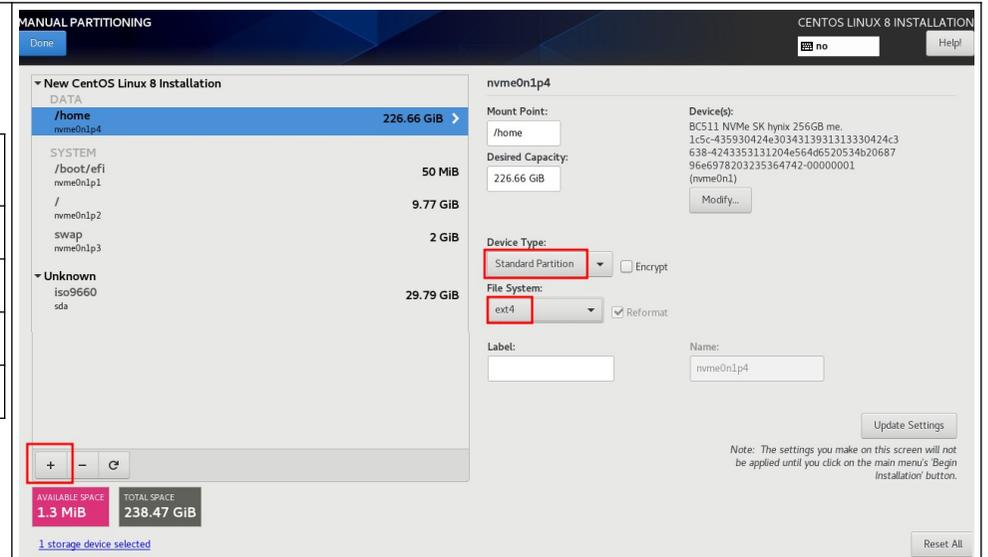
Create new partitions by clicking [+]

The following partitions are required:

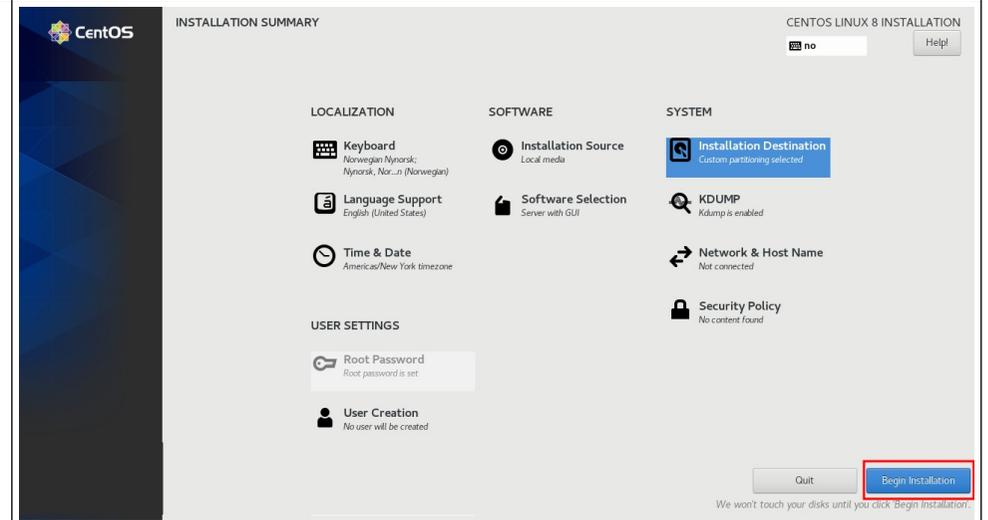
Mount point :	Size:	File System:
/	10000	ext4
/boot/efi (or biosboot)	1	Leave as is
swap	2048	Leave as is
/home	Leave empty	ext4

"Done" - A new window appears "Summary of Changes"

"Accept changes"

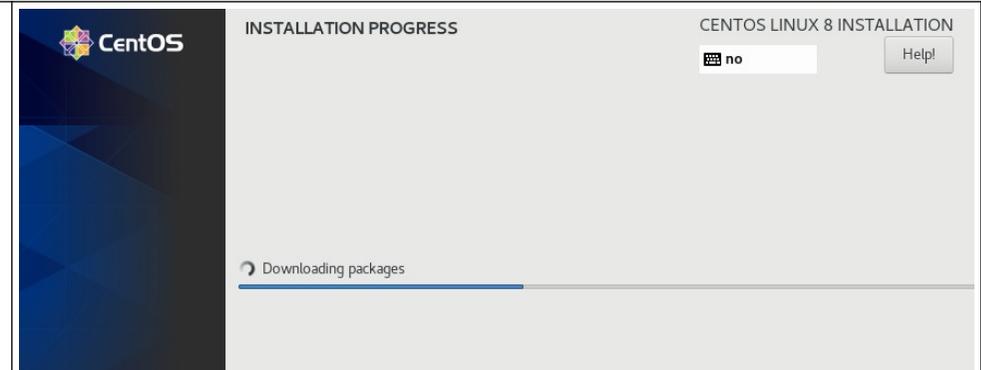


"Begin Installation"



When the installation is finished: "Reboot"

Remove the USB-stick



The latest Olex software is available for download from www.olex.no.
Copy the iso-file to a USB stick.

Connect the USB stick to one of the the computer's USB ports.

olex login: root

Password: fiskebat (the password will not show while typing)

To find the device name of the USB-stick, use the command

`fdisk -l`

The USB stick are usually a FAT32 file system standing by it self with a name like `"/dev/sda1"` or `"/dev/sdb1"`.

In the description below `/dev/sdb1` is used as an example of device name and `olex14.10.iso` as an example of the latest Olex-version.

```
[root@olex ~]# fdisk -l
Disk /dev/sda: 238.5 GiB, 256868514304 bytes, 500118192 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: FB6CFAD9-C979-4230-9589-6743639456AF

Device            Start      End      Sectors  Size Type
/dev/sda1          2048      104447   102400    50M EFI System
/dev/sda2          104448    475443199 475338752 226.7G Linux filesystem
/dev/sda3          475443200 495923199 20480000  9.8G Linux filesystem
/dev/sda4          495923200 500117503 4194304    2G Linux swap

Disk /dev/sdb: 14.7 GiB, 15728640000 bytes, 30720000 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: dos
Disk identifier: 0x19766aae

Device            Boot Start      End      Sectors  Size Id Type
/dev/sdb1          * 2048    30719999 30717952 14.7G c W95 FAT32 (LBA)
[root@olex ~]#
```

mount /dev/sdb1 /media

mkdir /iso

ls /media

The above will show the name of the Olex version on the USB stick, which is the file to be mounted in the next step.

mount /media/olex14.10.iso /iso

Disregard the warning about device being write-protected.

/iso/installer

Installing...

Successful installation!

reboot

```
[root@olex ~]# mount /dev/sdb1 /media/
[root@olex ~]# mkdir /iso
[root@olex ~]# ls /media/
olex14.10.iso
[root@olex ~]# mount /media/olex14.10.iso /iso
mount: /iso: WARNING: device write-protected, mounted read-only.
[root@olex ~]# /iso/installer _
```