

AlmaLinux 9.5 and Olex – Installation guide

Download the installation file “AlmaLinux-9.5-x86_64-dvd.iso” from almalinux.org or olex.no.

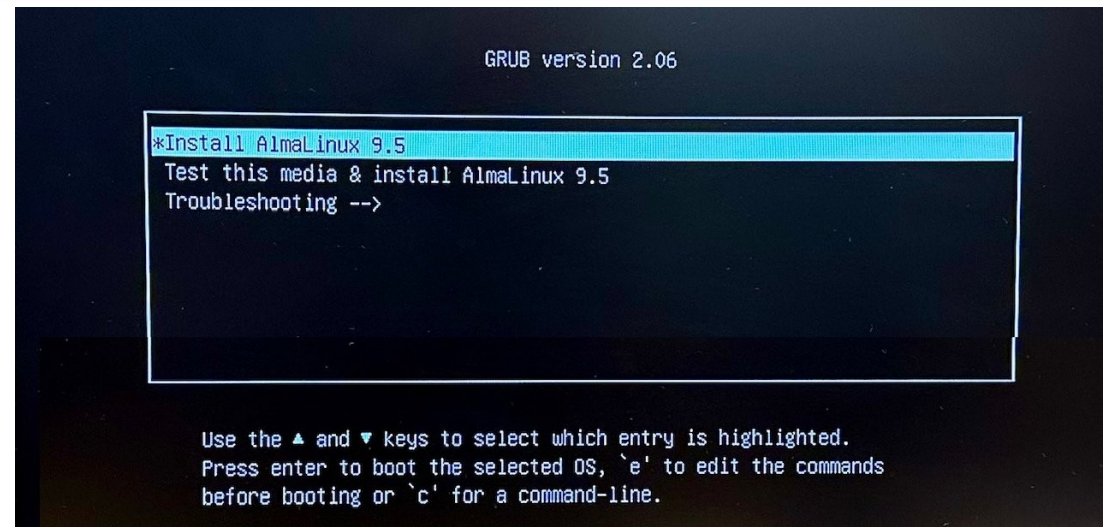
Create a bootable USB-stick with the installation file, using the program “Fedora Media Writer”, also available from olex.no

Go to the computers BIOS and make the following changes (if applicable):

- Deactivate secure boot.
 - Turn off RAID and set SATA operation to AHCI.
 - Deactivate any redundant network hardware.
 - Set the USB stick with AlmaLinux 9 as first Boot Device
- choose UEFI boot if available

Save and exit BIOS.

In the startup menu: Choose "Install AlmaLinux 9.5"

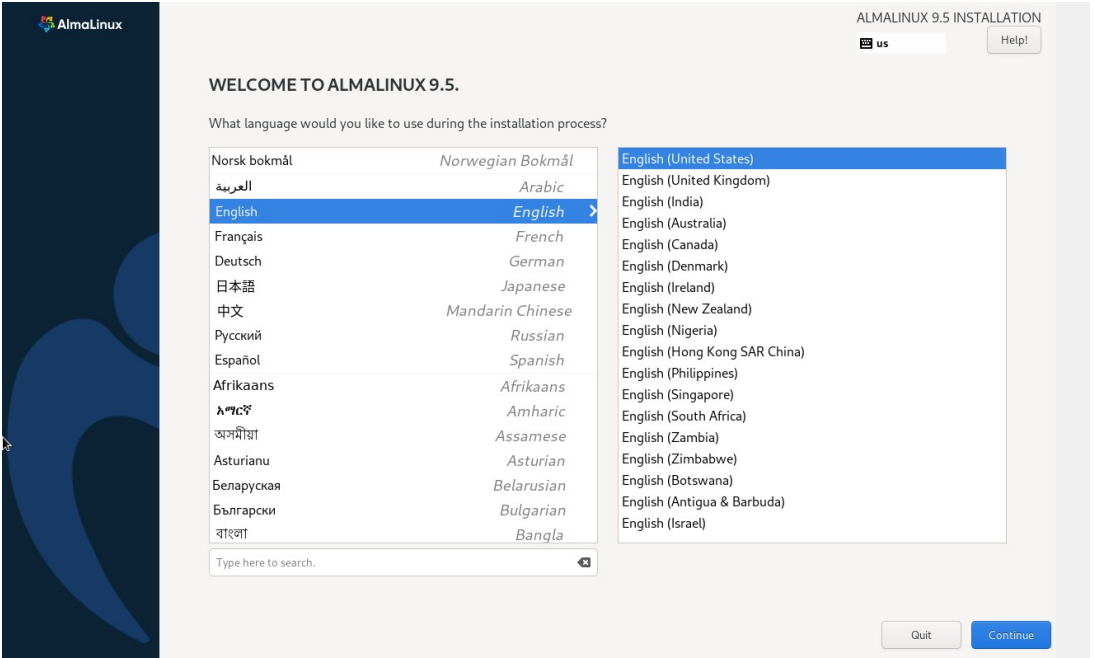


WELCOME TO ALMALINUX 9.5

What language would you like to use during the installation process?

“English” (always)

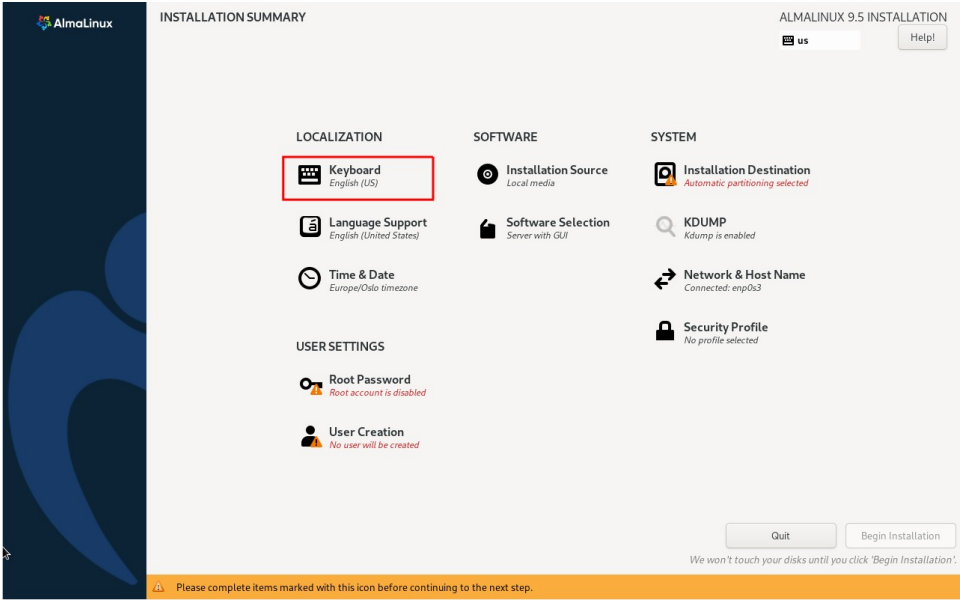
“Continue” lower right corner



INSTALLATION SUMMARY

LOCALIZATION

"Keyboard"



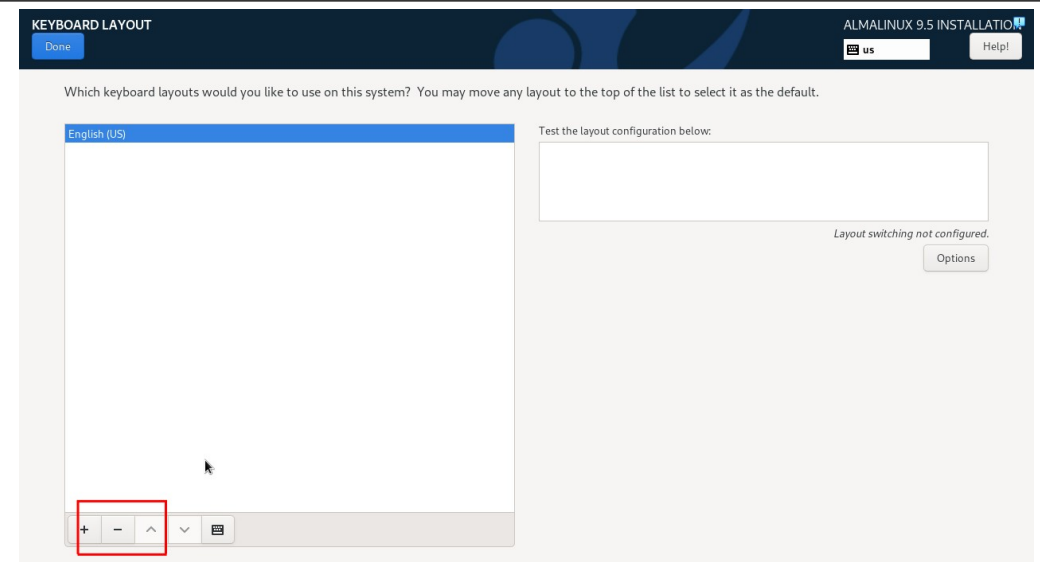
KEYBOARD LAYOUT

Remove existing layout by clicking on it's name and then the minus sign [-] in the lower left corner.

A new list appears.

Choose layout according to your keyboard.

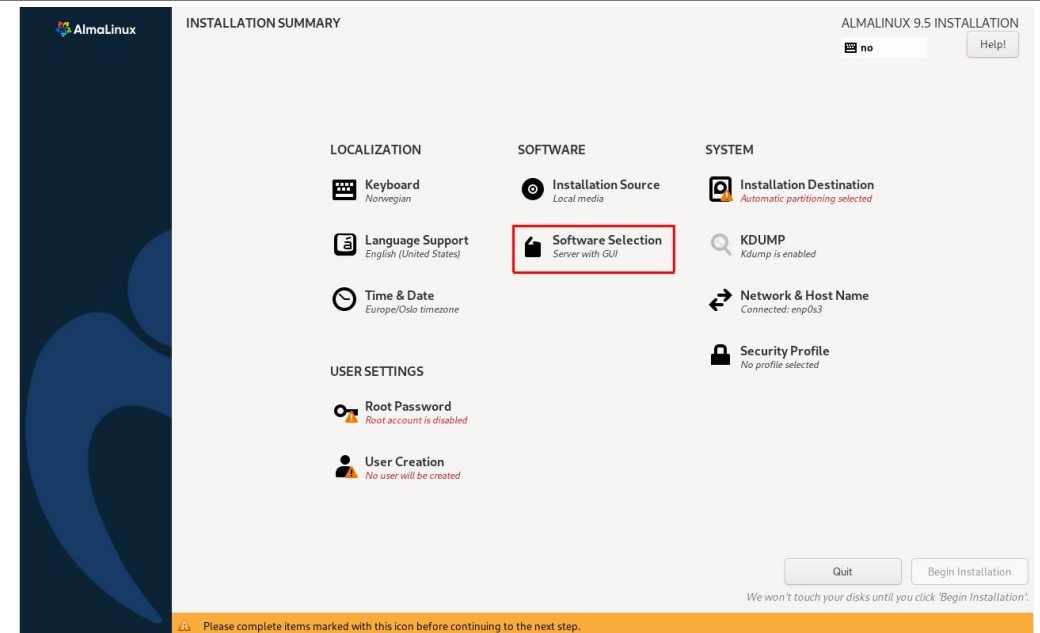
"Done" upper left corner.



INSTALLATION SUMMARY

SOFTWARE

“Software Selection”.



SOFTWARE SELECTION

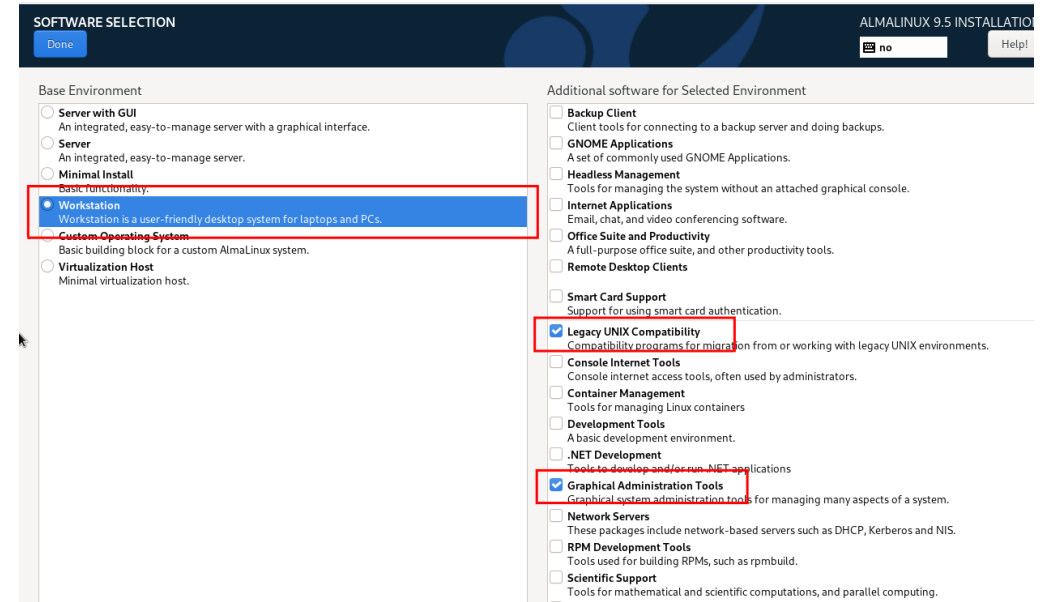
Base Environment

- Workstation

Additional software for Selected Environment

- Legacy UNIX Compatibility
- Graphical Administration Tools

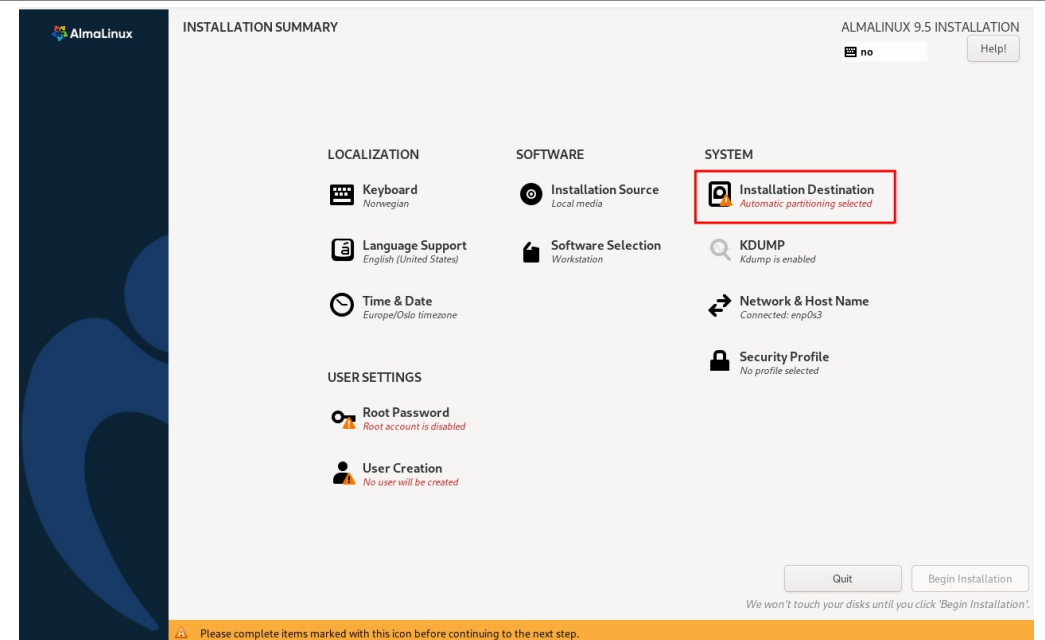
“Done” upper left corner.



INSTALLATION SUMMARY

SYSTEM

"Installation Destination"

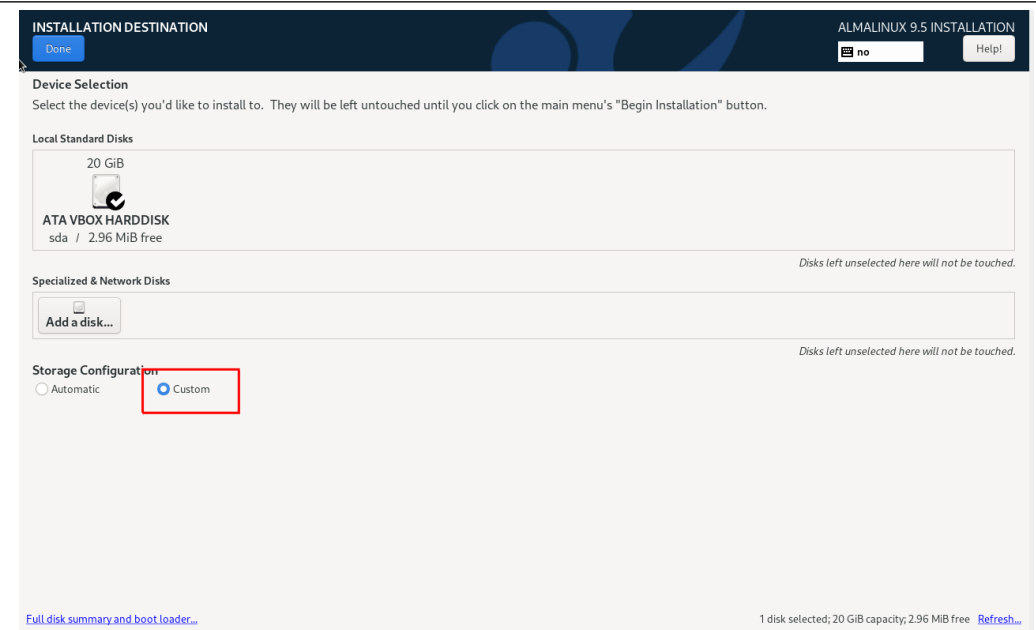


INSTALLATION DESTINATION

Storage Configuration

- Custom

"Done" upper left corner.

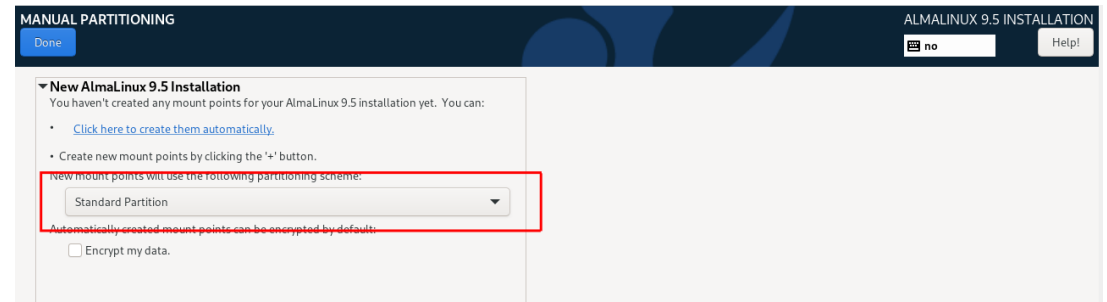


MANUAL PARTITIONING

New mount points will use the following partitioning scheme

Choose from the drop down menu: "Standard Partition"

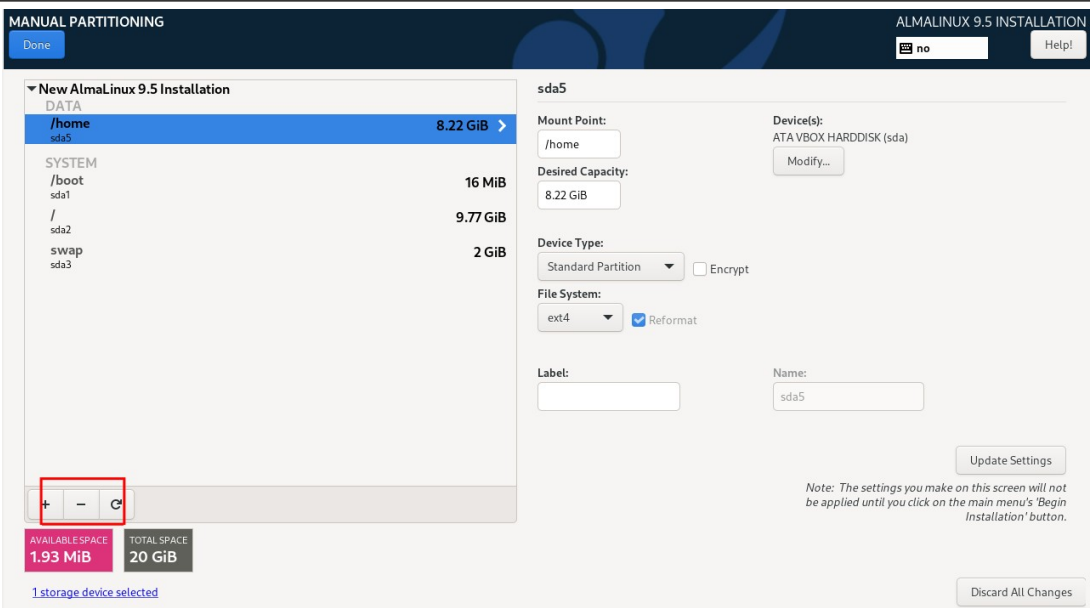
"Done" upper left corner.



Remove any existing partitions by highlighting them and then click on the minus sign [-] in the lower left corner..

Note that the file system "Iso 9660" represents the installation media, and can not be removed.

Confirm.



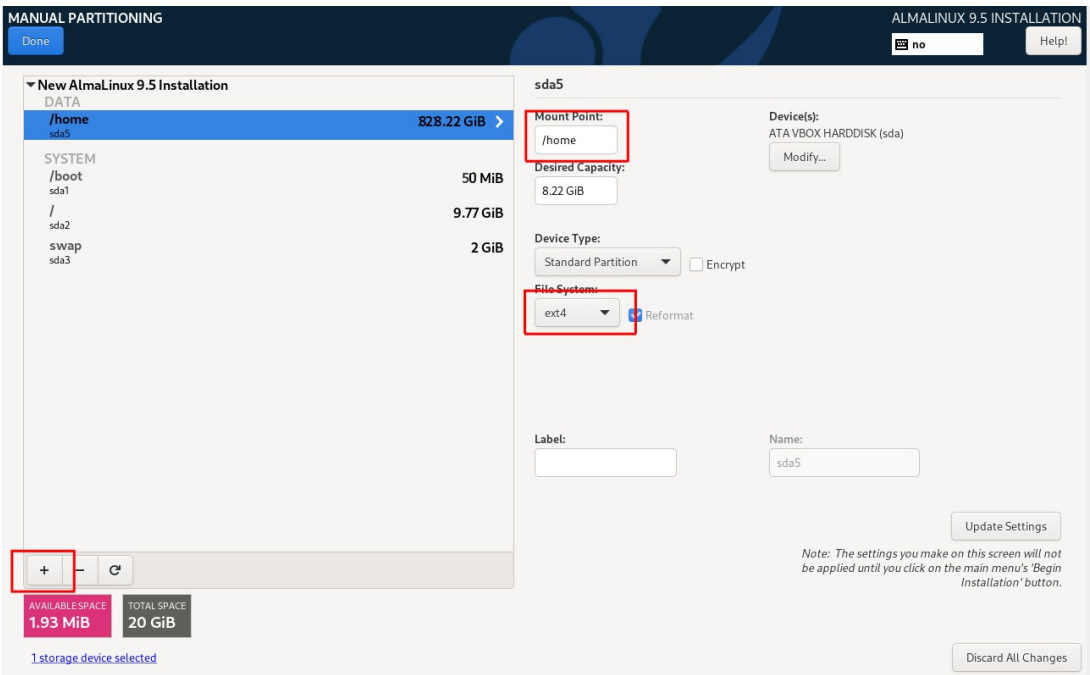
Create new partitions by clicking [+] in the lower left corner..

The following partitions ar required:

Mount point :	Size:	File System:
/	10000	ext4
/boot/efi (or biosboot)	1 (showing 50 MiB)	Leave as is
swap	2048	Leave as is
/home	Leave empty	ext4

"Done" upper left corner

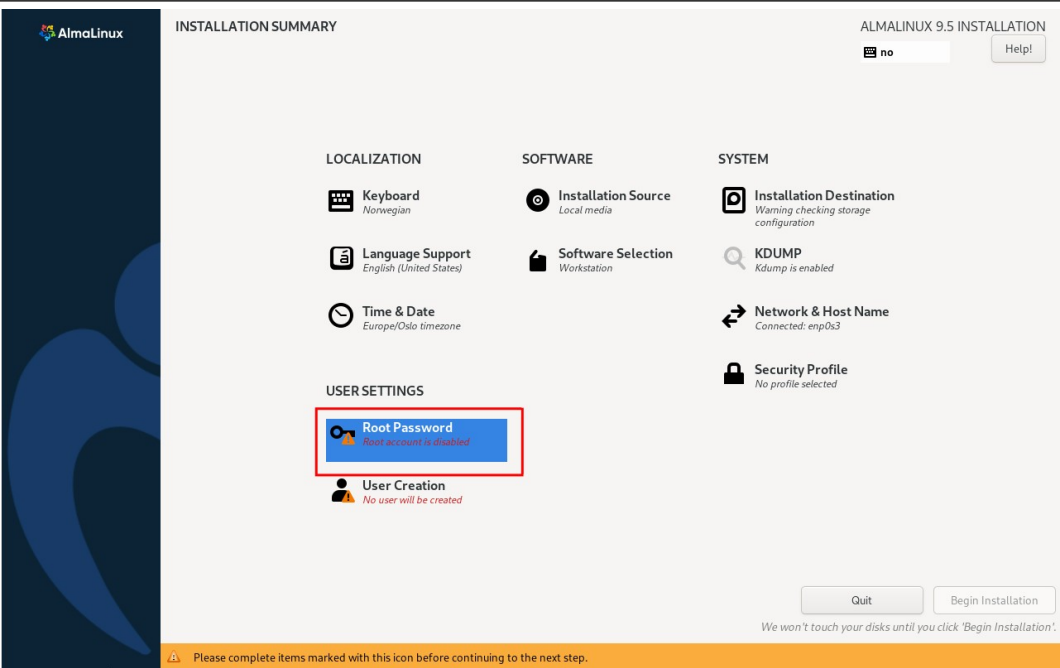
A new window appears "Summary of Changes": Accept changes



INSTALLATION SUMMARY

USER SETTINGS

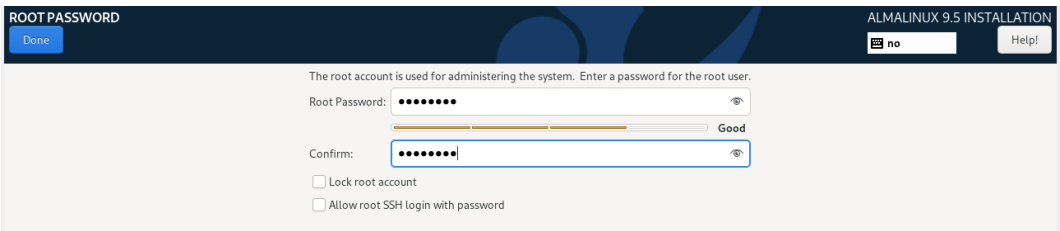
Root Password



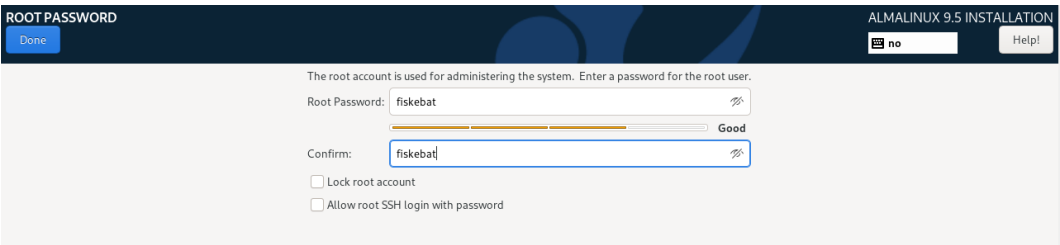
ROOT PASSWORD

Root Password fiskebat

Confirm fiskebat

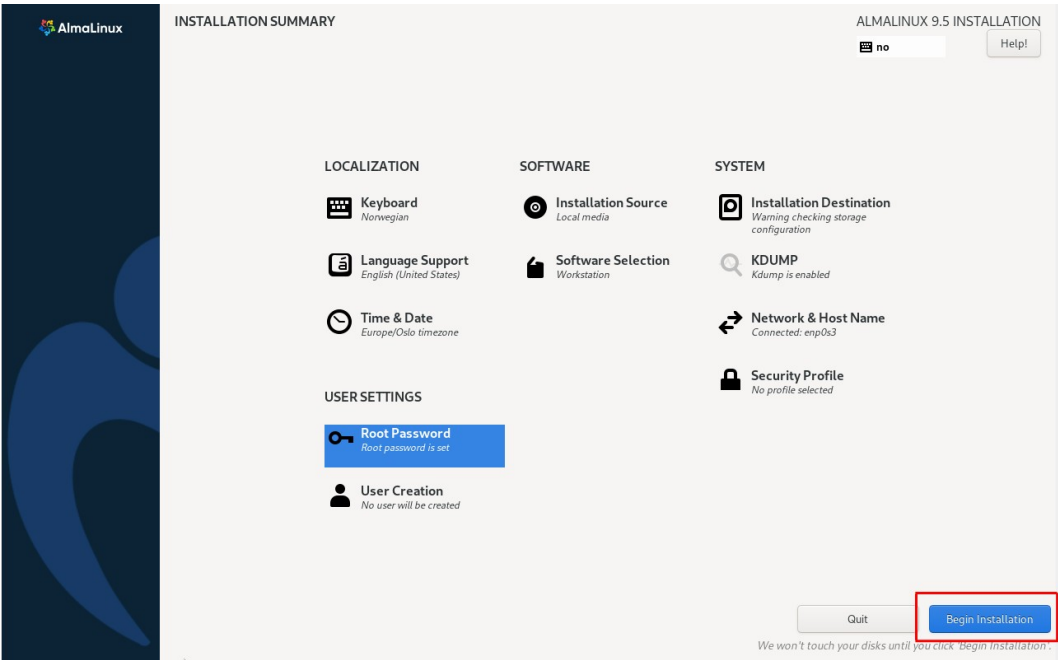


“Done” upper left corner



INSTALLATION SUMMARY

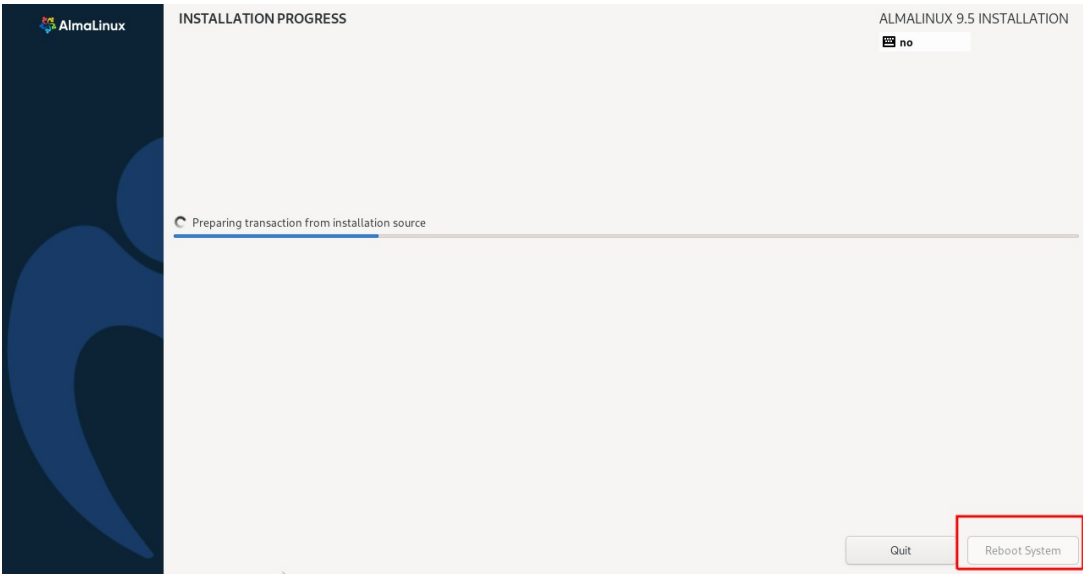
“Begin Installation” lower right corner



INSTALLATION PROGRESS

When the installation is finished: "Reboot System"

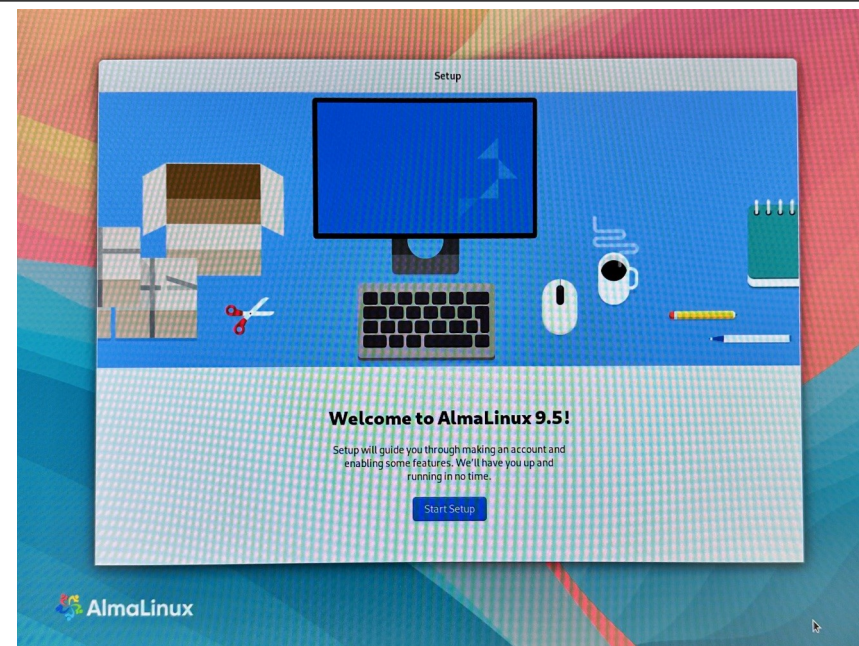
Remove the USB-stick



After the first reboot the AlmaLinux screen will appear.

Do not start setup!

Press Ctrl + Alt + F3 on your keyboard to enter text mode.



Download the latest Olex version from www.olex.no.

Save the Olex file to a USB stick and connect the stick to one of the computer's USB ports.

localhost login: root

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

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

fdisk -l

The USB stick are usually a single FAT32 file system, with a name like `"/dev/sda1"` or `"/dev/sdb1"`.

In the following description `"/dev/sdb1"` is used as an example of device name, and `"olex17.0.iso"` as an example of the latest Olex-version.

```
AlmaLinux 9.5 (Teal Serval)
Kernel 5.14.0-503.11.1.el9_5.x86_64 on an x86_64

Activate the web console with: systemctl enable --now cockpit.socket

localhost login: root
Password:
Last login: Thu Jan 2 00:00:03 on tty3
root@localhost ~]# fdisk -l
Disk /dev/sda: 238.47 GiB, 256060514304 bytes, 500118192 sectors
Disk model: TS256GSSD420K
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: 37B09671-79D8-4EB8-B3C9-E3BAC1B02F70

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 204488800 9.8G Linux filesystem
/dev/sda4          495923200 500117503 4194304     2G Linux swap

Disk /dev/sdb: 29.3 GiB, 31457280000 bytes, 61440000 sectors
Disk model: USB DISK
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: 0x0107af18

Device      Boot Start      End  Sectors  Size Id Type
/dev/sdb1   *      64    61439999 61439936 29.3G  b  W95 FAT32
root@localhost ~]#
```

Perform the following commands:

```
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/olex17.0.iso /iso
```

Disregard the warning "device write-protected, mounted read-only"

```
/iso/installer
```

```
Successful installation!
```

```
reboot
```

```
[root@localhost ~]# mount /dev/sdb1 /media/
[root@localhost ~]# ls /media/
olex17.0.iso
[root@localhost ~]# mkdir /iso
[root@localhost ~]# mount /media/olex17.0.iso /iso
mount: /iso: WARNING: source write-protected, mounted read-only.
[root@localhost ~]# /iso/installer_
```

After reboot the system should come up with an Olex like screen.

To activate the system as Olex or Lino a software key is needed.

Software keys are made by Olex AS individually for each system, based on a unique hardware id from each computer.

The id hardware id can be saved to a USB stick, and sent as attachment to an email with any key order.

