

AlmaLinux 9.5 and Olex – Installation guide

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

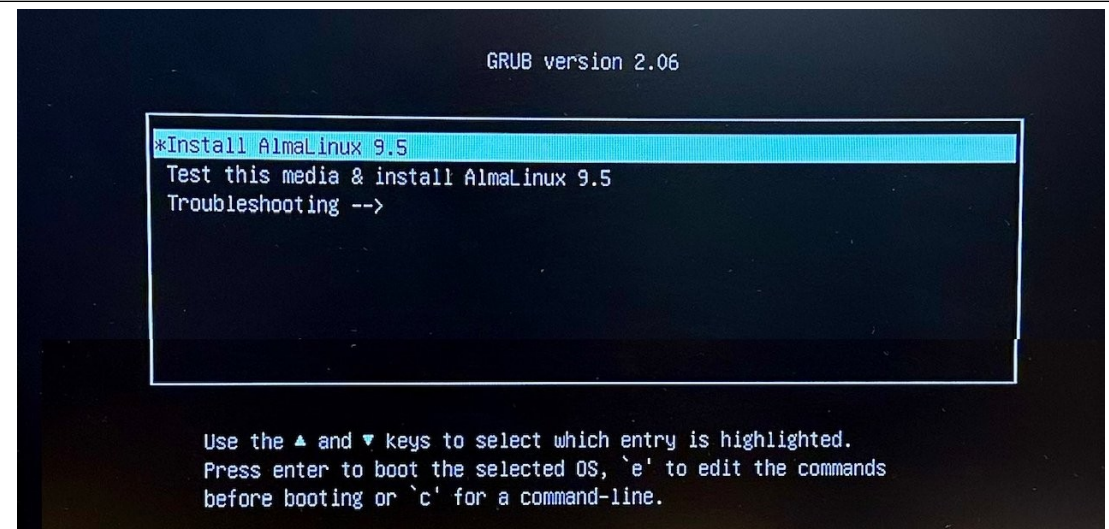
Create a bootable USB-stick with the installation file, using the program “Fedora Media Writer”, also available from olex.no

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"

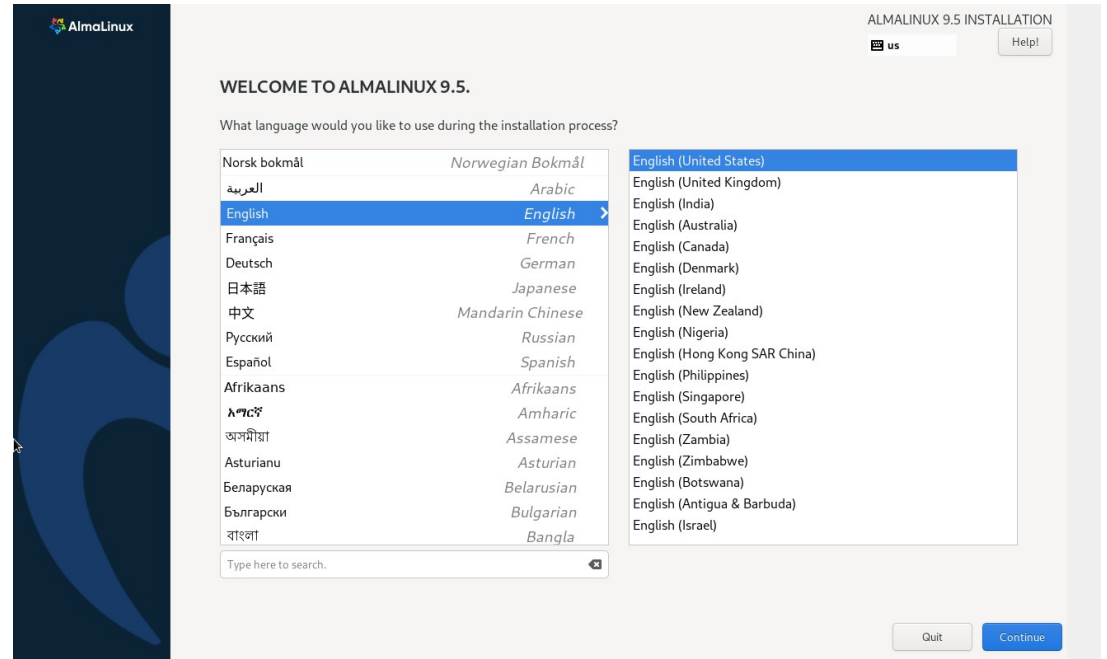


WELCOME TO ALMALINUX 9.5

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

“English” (always)

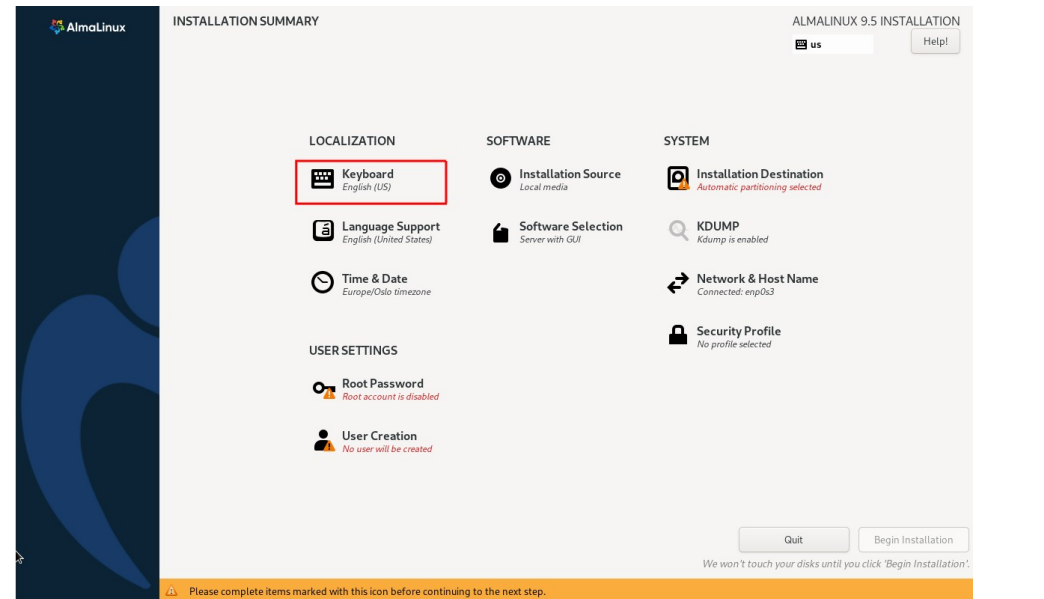
“Continue” lower right corner



INSTALLATION SUMMARY

LOCALIZATION

"Keyboard"



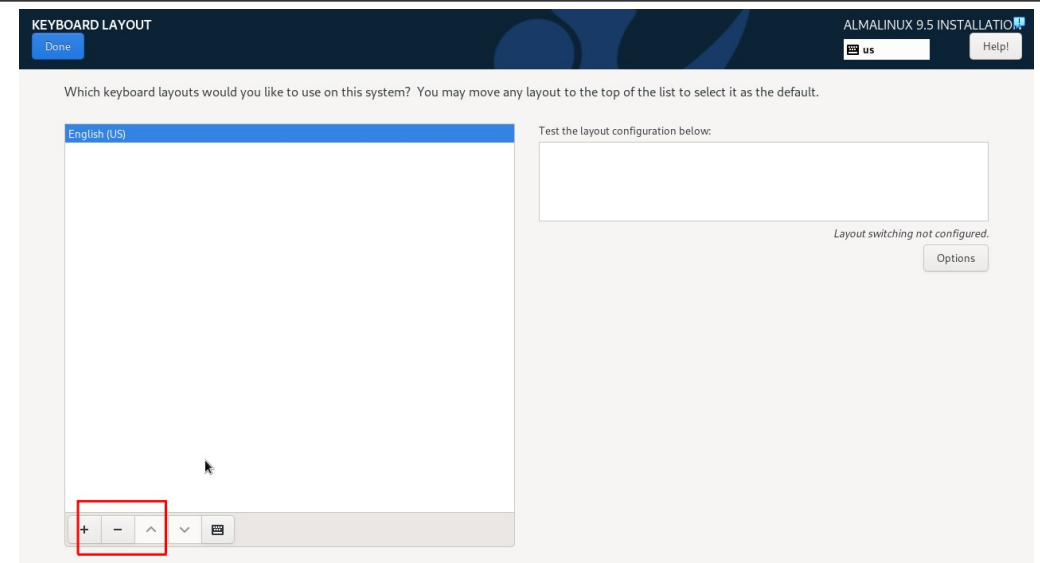
KEYBOARD LAYOUT

Remove existing layout by clicking on it's name and then [-]

A new list appears.

Choose layout according to your keyboard.

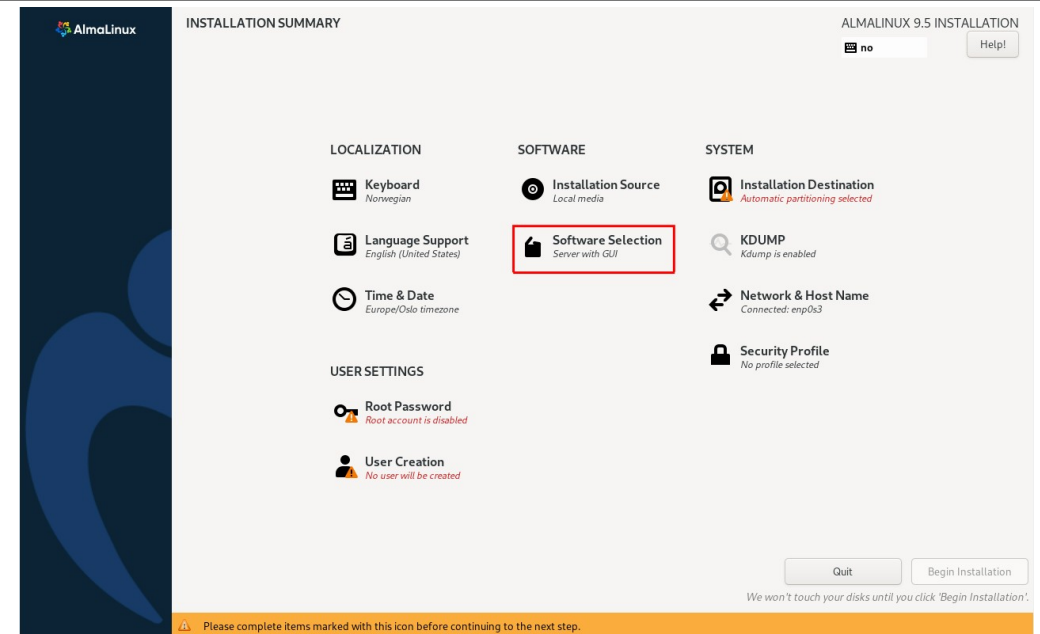
"Done" upper left corner.



INSTALLATION SUMMARY

SOFTWARE

“Software Selection”.



SOFTWARE SELECTION

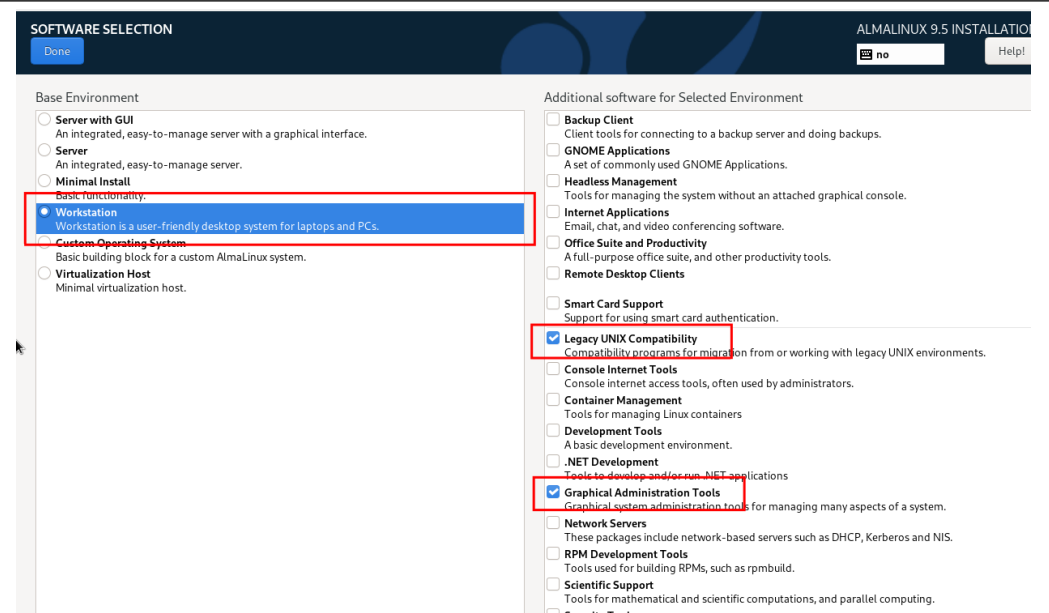
Base Environment

- Workstation

Additional software for Selected Environment

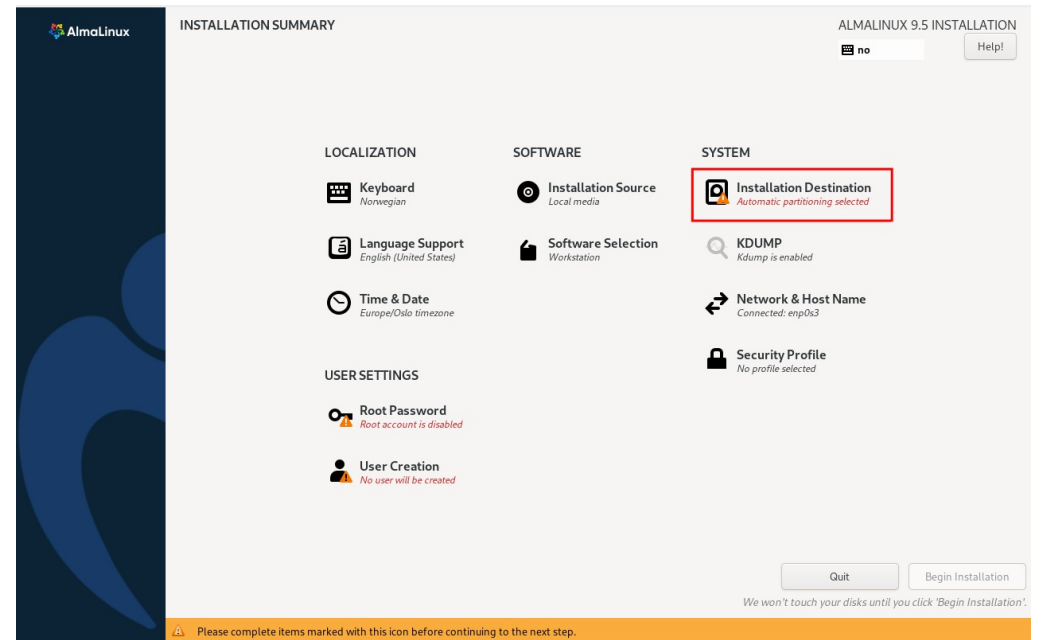
- Legacy UNIX Compatibility
- Graphical Administration Tools

“Done” upper left corner.



INSTALLATION SUMMARY SYSTEM

"Installation Destination"

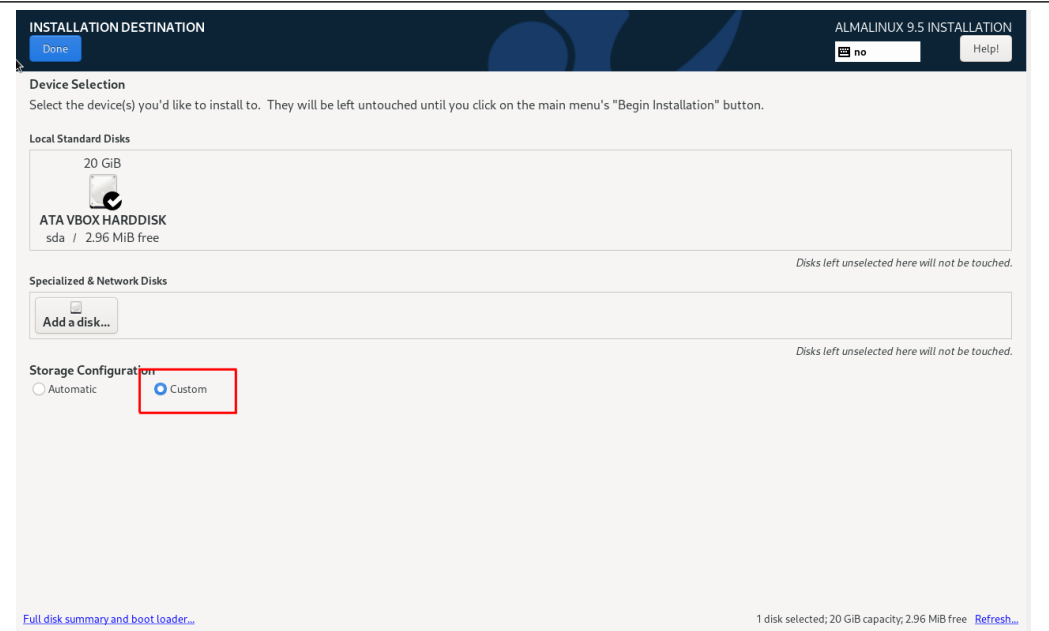


INSTALLATION DESTINATION

Storage Configuration

- Custom

"Done" upper left corner.

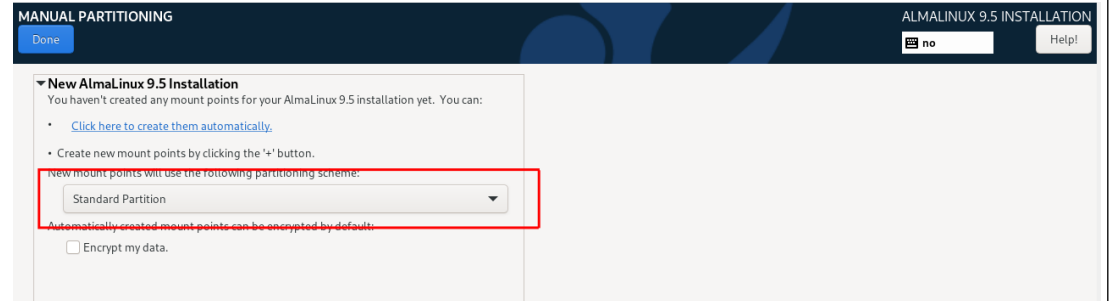


MANUAL PARTITIONING

New mount points will use the following partitioning scheme

Choose from the drop down menu: "Standard Partition"

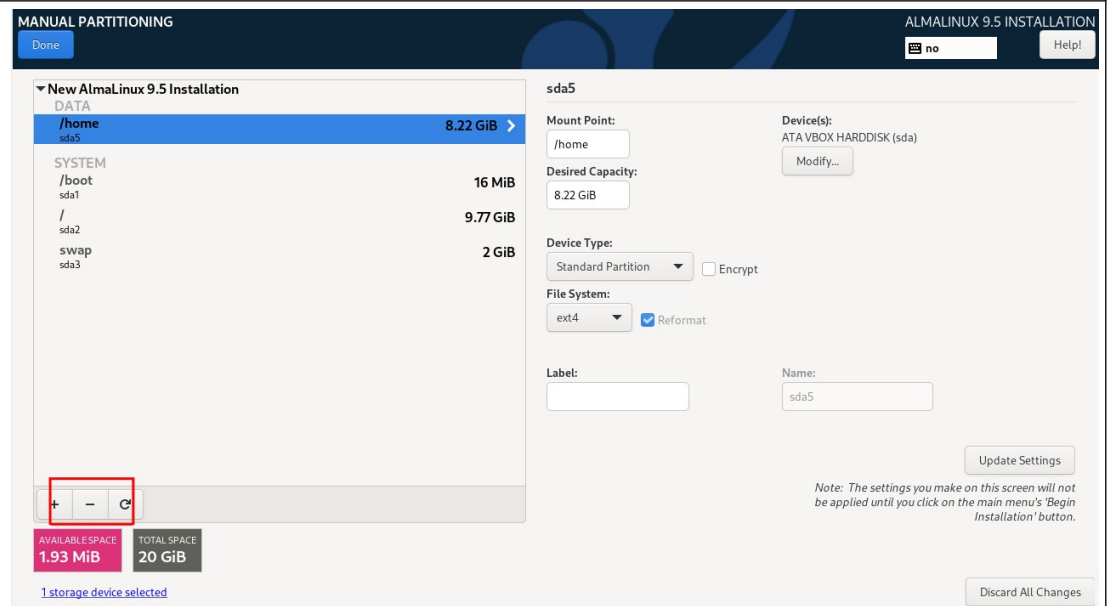
"Done" upper left corner.



Remove any existing partitions by clicking on them and then [-].

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

Confirm.



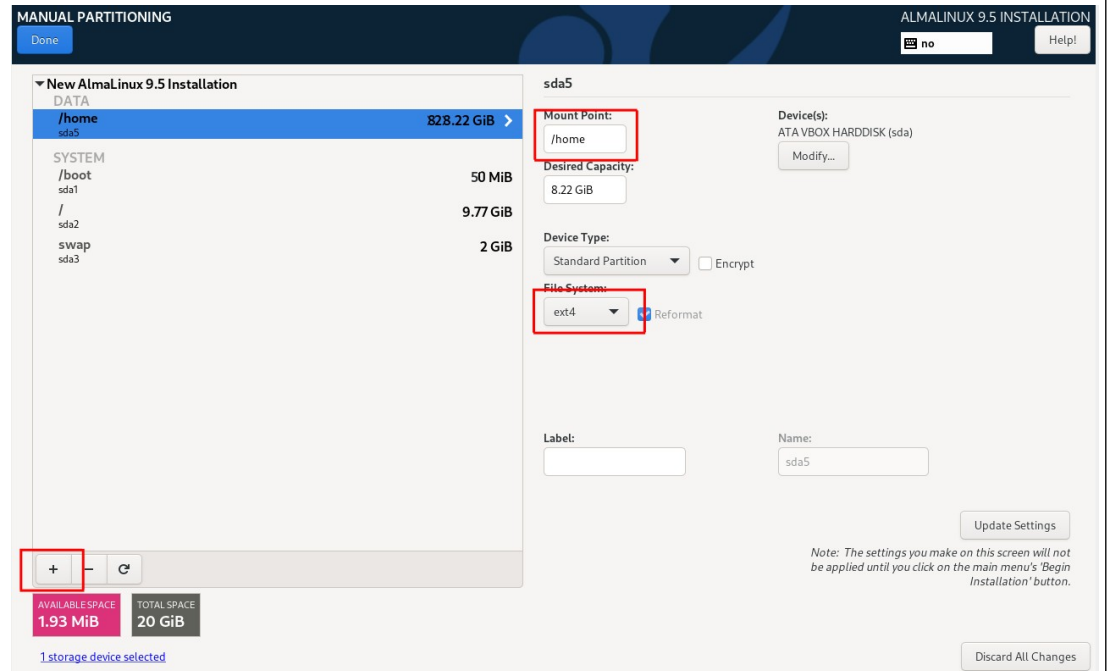
Create new partitions by clicking [+]

The following partitions are 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

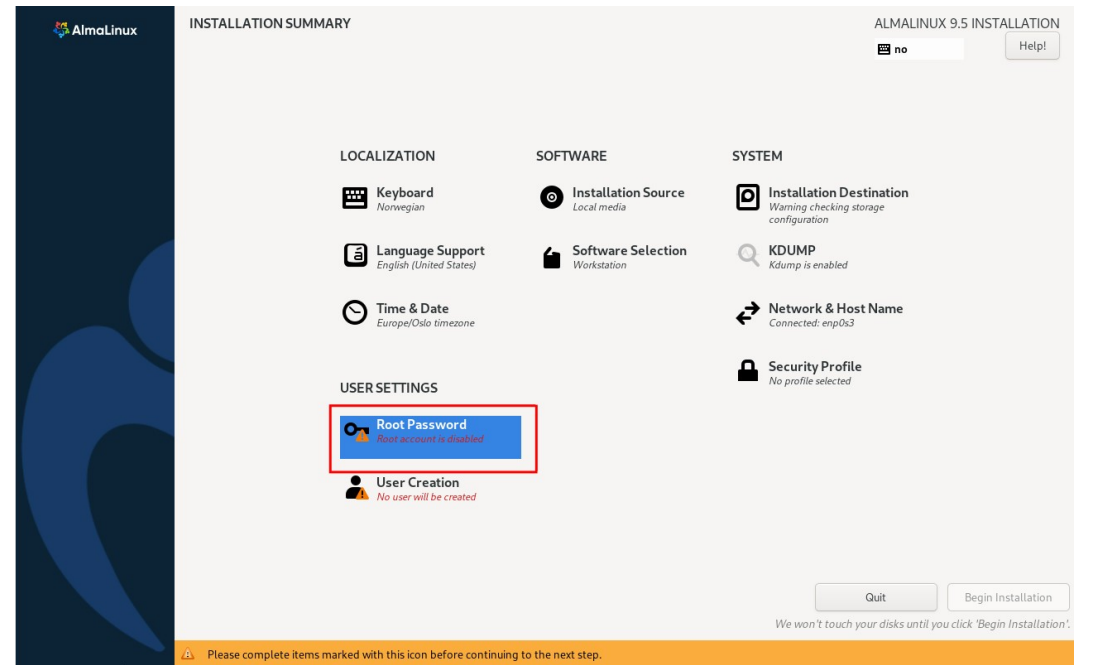
A new window appears "Summary of Changes": Accept changes



INSTALLATION SUMMARY

USER SETTINGS

Root Password

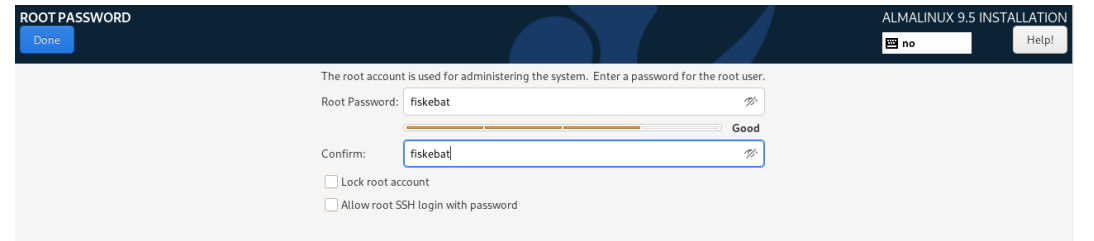
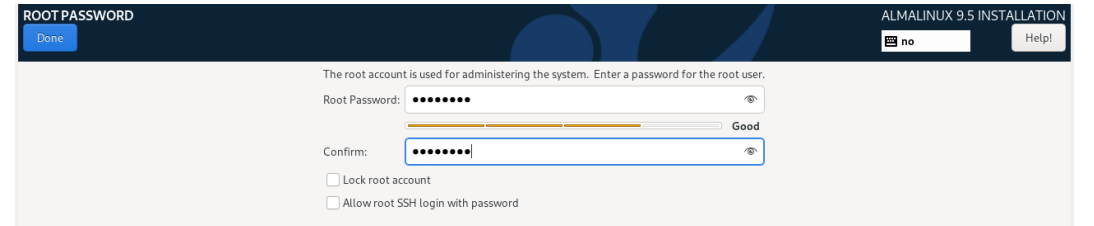


ROOT PASSWORD

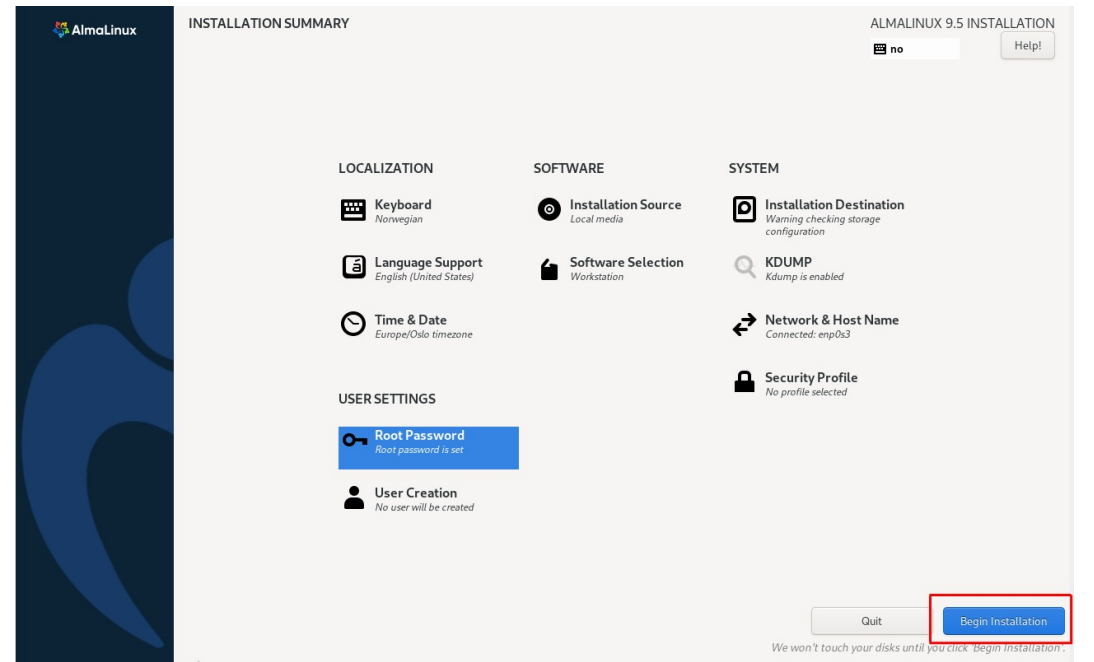
Root Password fiskebat

Confirm fiskebat

“Done” upper left corner



Begin Installation



AlmaLinux 9.5 INSTALLATION SUMMARY

ALMALINUX 9.5 INSTALLATION no [Help](#)

LOCALIZATION

- Keyboard: Norwegian
- Language Support: English (United States)
- Time & Date: Europe/Oslo timezone

SOFTWARE

- Installation Source: Local media
- Software Selection: Workstation

SYSTEM

- Installation Destination: Warning checking storage configuration
- KDUMP: Kdump is enabled
- Network & Host Name: Connected: enp0s3
- Security Profile: No profile selected

USER SETTINGS

- Root Password: Root password is set
- User Creation: No user will be created

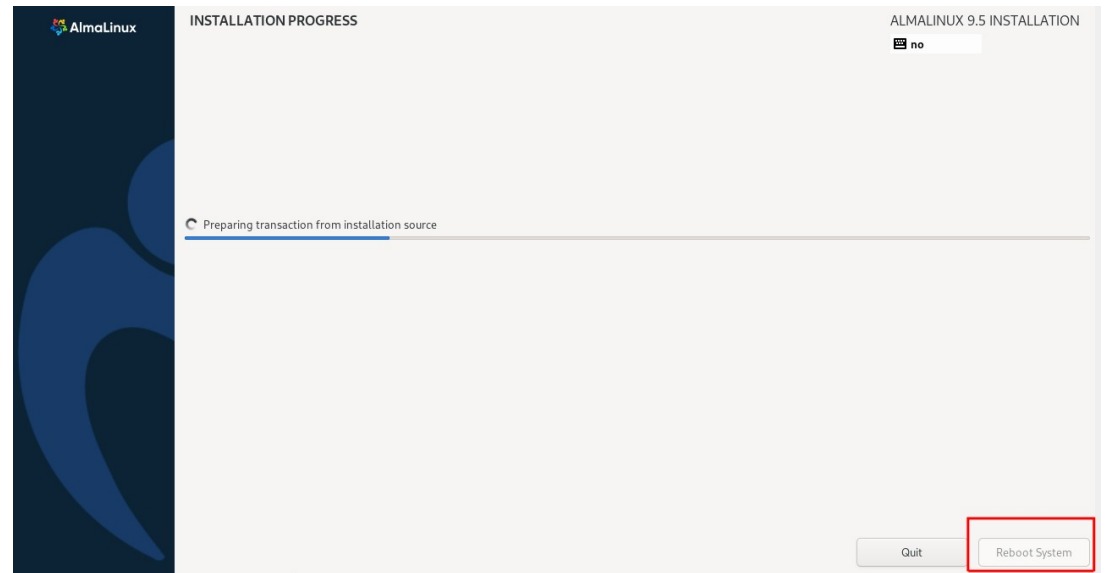
[Quit](#) [Begin Installation](#)

We won't touch your disks until you click 'Begin Installation.'

INSTALLATION PROGRESS

When the installation is finished: "Reboot System"

Remove the USB-stick



AlmaLinux 9.5 INSTALLATION PROGRESS

ALMALINUX 9.5 INSTALLATION no

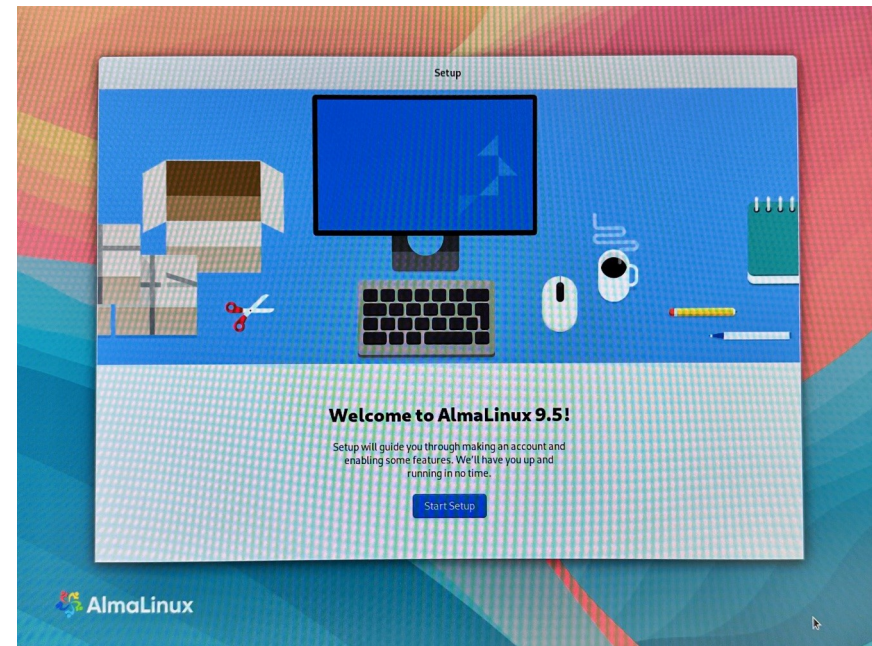
Preparing transaction from installation source

[Quit](#) [Reboot System](#)

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 08:00:03 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: 37B09671-79D8-4EB0-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 20480000 9.0G 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.

