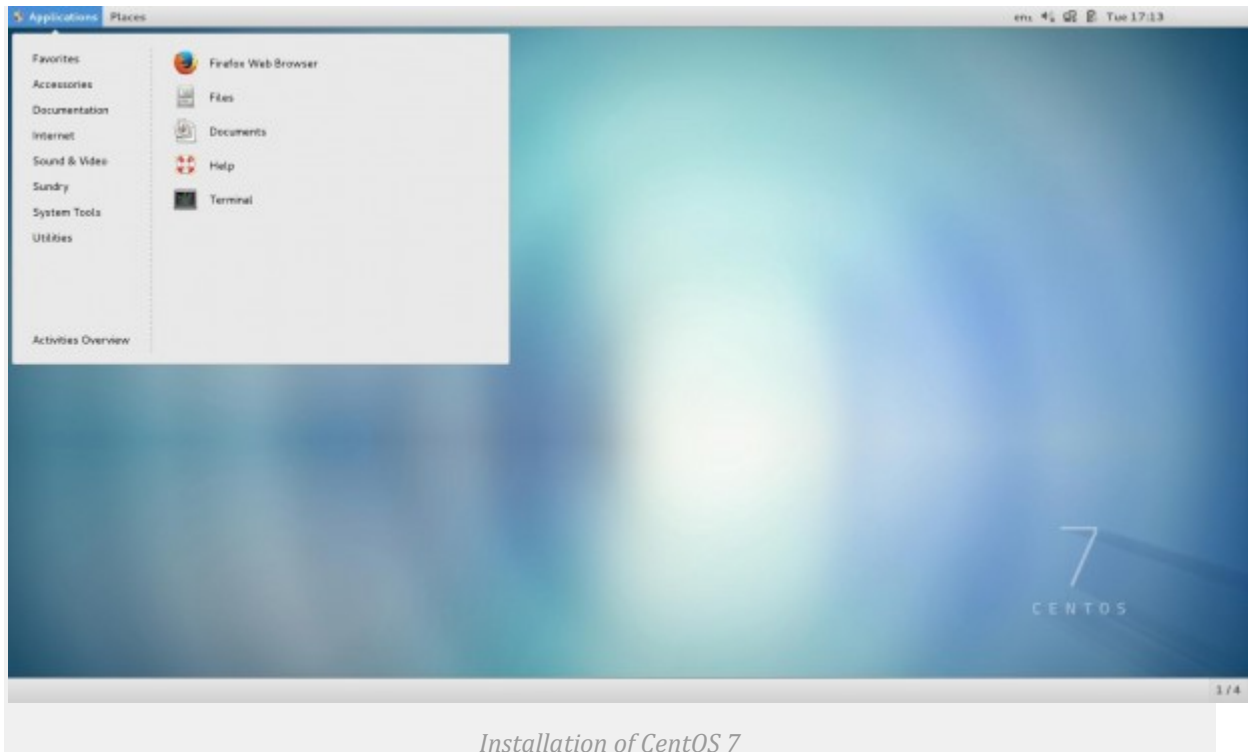


Install CentOS 7

<https://www.tecmint.com/centos-7-installation/>

This tutorial will guide you on how to perform a minimal installation of latest version of CentOS 7.0, using the binary DVD ISO image, an installation that is best suitable for developing a future customizable server platform, with no Graphical User Interface, where you can install only the software that you need.



If you want to find out more about what's new in this release of CentOS 7.0 holds and download links, I suggest reading the previous article on release announcements:

- [CentOS 7.0 Features and Download ISO Images](#)

Requirements

- CentOS 7.0 DVD ISO

CentOS 7.0 Installation Process

1. After downloading the last version of CentOS using above links or using official [CentOS download](#) page. Burn it to a DVD or create a bootable USB stick using LiveUSB Creator called [Unetbootin](#).
2. After you have created the installer bootable media, place your DVD/USB into your system appropriate drive, start the computer, select your bootable unit and the first CentOS 7 prompt should appear. At the prompt choose Install CentOS 7 and press [Enter] key.



CentOS 7 Boot Menu

3. The system will start loading media installer and a Welcome screen should appear. Select your Installation Process Language, that will assist you through the entire installation procedure and click on Continue.


```


[ OK ] Started Configure read-only root support.
[ OK ] Started udev Coldplug all Devices.
      Starting udev Wait for Complete Device Initialization...
[ OK ] Started Import network configuration from initramfs.
[ OK ] Started Create static device nodes in /dev.
      Starting udev Kernel Device Manager...
[ OK ] Reached target Local File Systems (Pre).
[ OK ] Started udev Kernel Device Manager.
[ OK ] Started Device-Mapper Multipath Device Controller.
[ OK ] Started udev Wait for Complete Device Initialization.
      Starting Activation of DM RAID sets...
[ OK ] Started Activation of DM RAID sets.
[ OK ] Reached target Local File Systems.
      Starting Trigger Flushing of Journal to Persistent Storage...
      Starting Tell Plymouth To Write Out Runtime Data...
      Starting Create Volatile Files and Directories...
[ OK ] Reached target Encrypted Volumes.
[ OK ] Started Trigger Flushing of Journal to Persistent Storage.
[ OK ] Started Tell Plymouth To Write Out Runtime Data.
[ OK ] Started Create Volatile Files and Directories.
      Starting Update UTMP about System Reboot/Shutdown...
[ OK ] Started Update UTMP about System Reboot/Shutdown.
[ OK ] Reached target System Initialization.
[ OK ] Reached target Timers.
[ OK ] Listening on Open-iSCSI iscsid Socket.
[ OK ] Listening on Open-iSCSI iscsiui Socket.
[ OK ] Listening on Avahi mDNS/DNS-SD Stack Activation Socket.
[ OK ] Listening on D-Bus System Message Bus Socket.
[ OK ] Reached target Sockets.
[ OK ] Reached target Basic System.
      Starting firewalld - dynamic firewall daemon...
      Starting Dump dmesg to /var/log/dmesg...
      Starting Terminate Plymouth Boot Screen...
      Starting System Logging Service...
      Starting Wait for Plymouth Boot Screen to Quit...
[ OK ] Started Dump dmesg to /var/log/dmesg.

```

<http://www.tecmint.com>

CentOS Installer Loading


CentOS

CENTOS 7 INSTALLATION
 **us**

WELCOME TO CENTOS 7.

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

English	English		English (United States)
Afrikaans	Afrikaans		English (United Kingdom)
አማርኛ	Amharic		English (India)
العربية	Arabic		English (Australia)
অসমীয়া	Assamese		English (Canada)
Asturianu	Asturian		English (Denmark)
Беларуская	Belarusian		English (Ireland)
Български	Bulgarian		English (New Zealand)
বাংলা	Bengali		English (Nigeria)
			English (Hong Kong SAR China)

Type here to search.

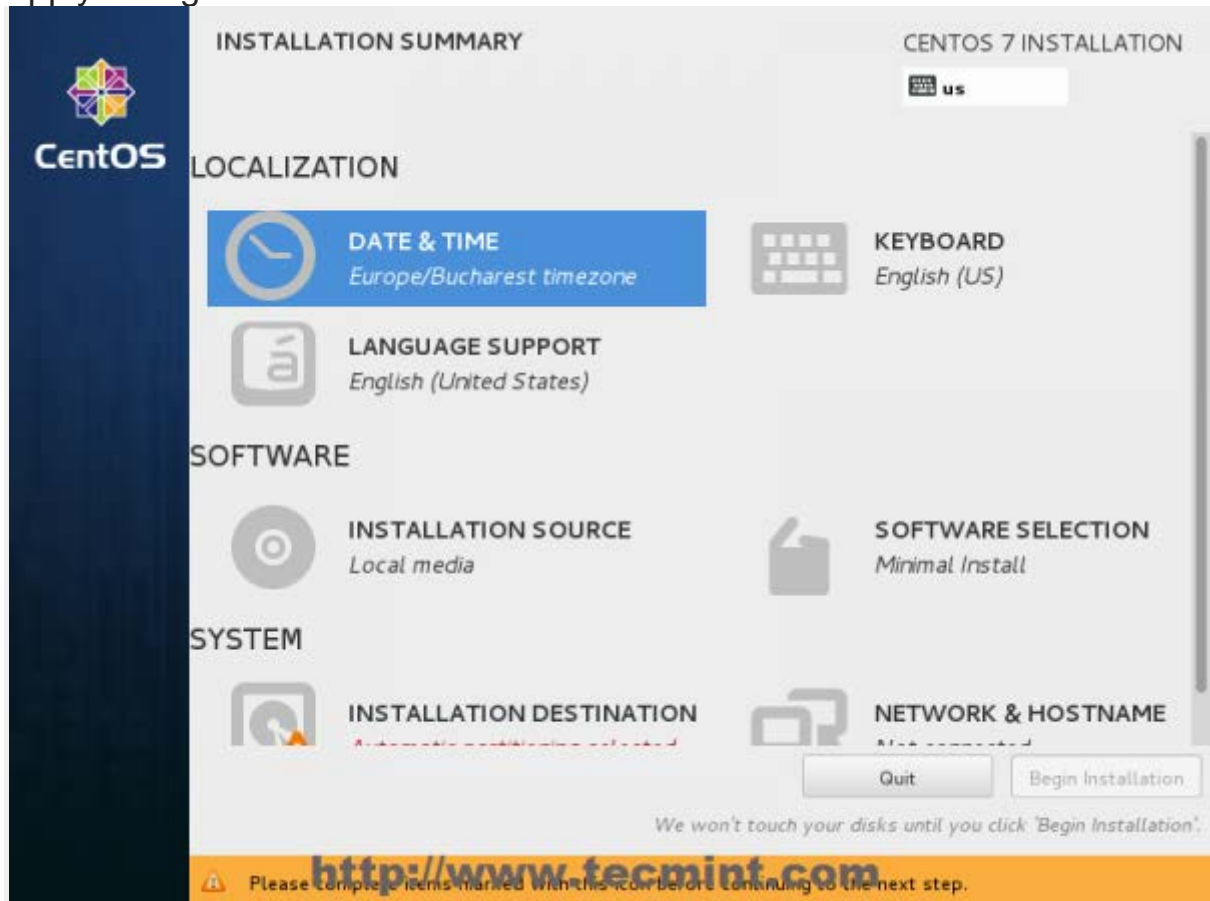
<http://www.tecmint.com>

Quit

Continue

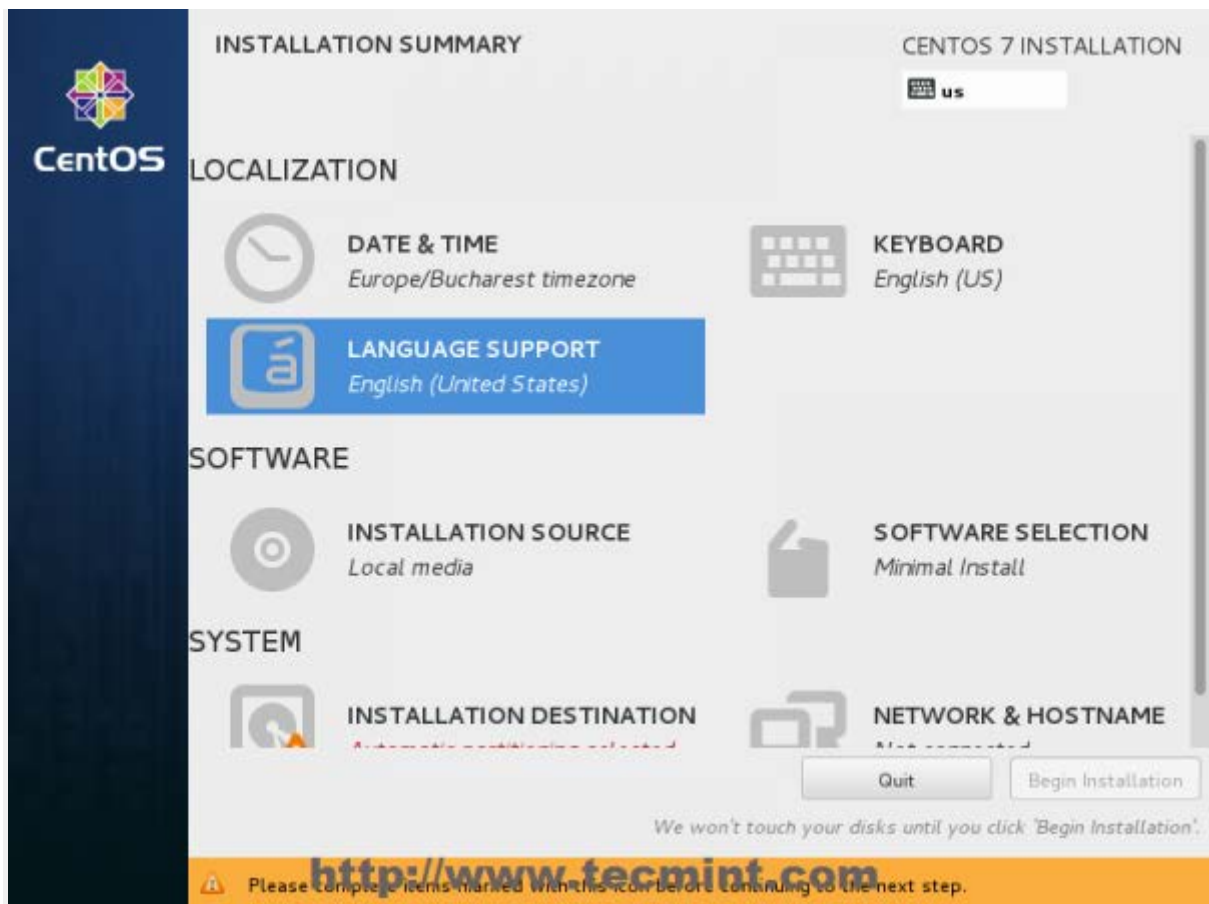
Select Installation Process Language

4. The next step, present screen prompt is Installation Summary. It contains a lot of options to fully customize your system. First thing you may want to setup is your time settings. Click on Date & Time and select your server physical location from the provided map and hit on upper Done button to apply configuration.

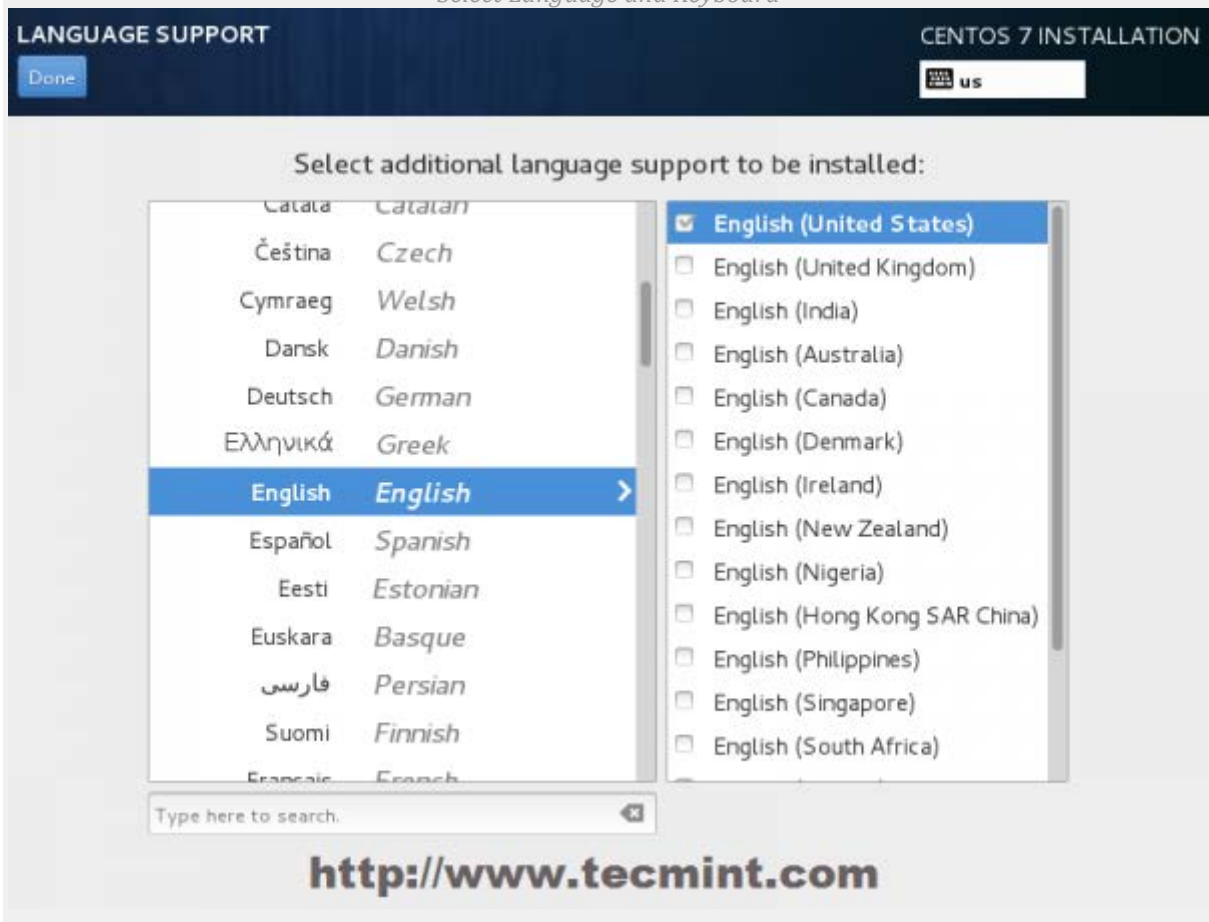


Select Date & Time and Location

5. The next step is to choose your Language Support and Keyboard settings. Choose your main and extra language for your system and when you're finished hit on Done button.

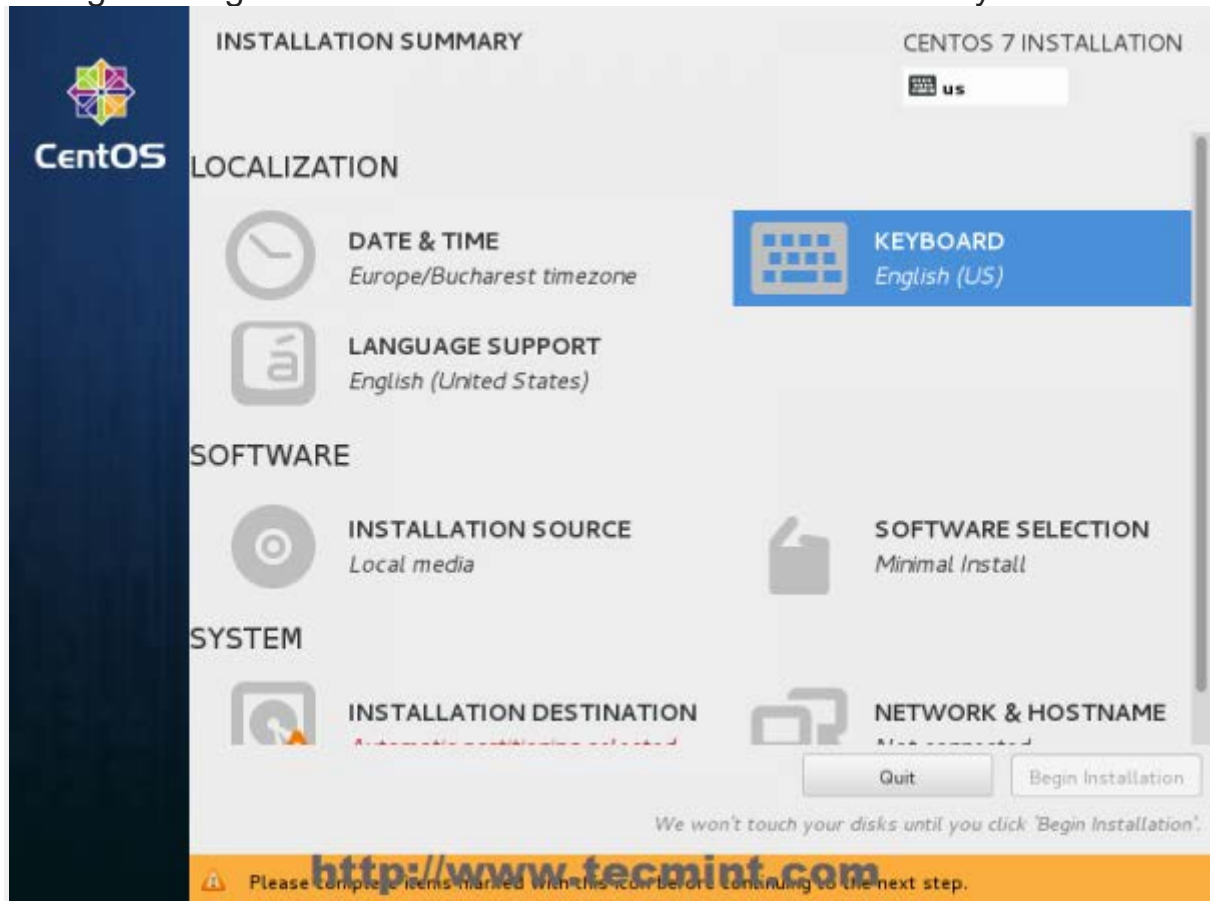


Select Language and Keyboard

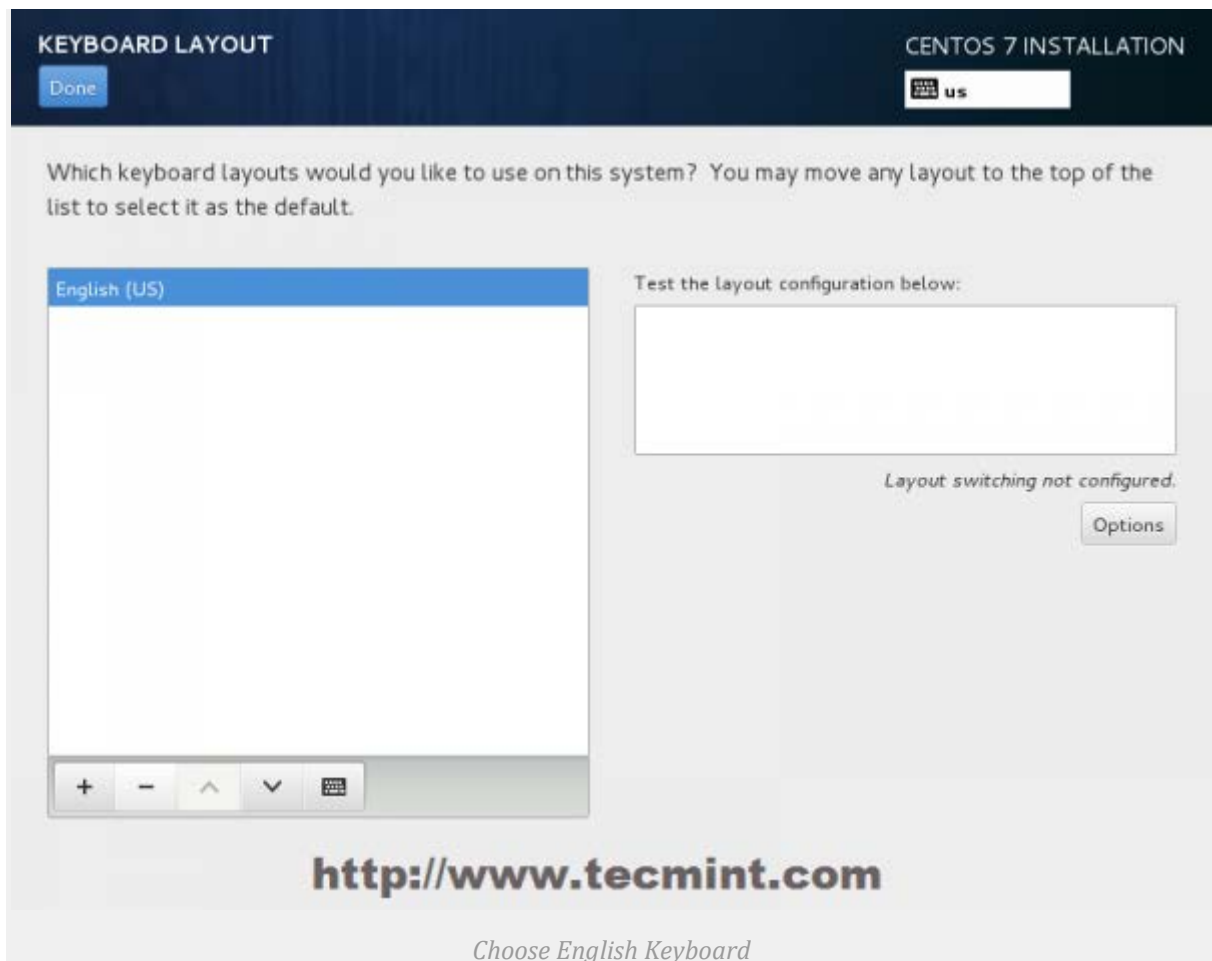


Select English Language


6. The same way choose your Keyboard Layout by hitting the plus button and test your keyboard configuration using the right input field. After you finish setting up your keyboard, again hit on upper Done button to apply changes and go back to main screen on Installation Summary.




Choose Keyboard Layout





7. On the next step you can customize your installation by using other Installation Sources than your local DVD/USB media, such as a network locations using HTTP, HTTPS, FTP or NFS protocols and even add some additional repositories, but use this methods only if you know what you're doing. So leave the default Auto-detected installation media and hit on Done to continue.


CentOS


INSTALLATION SUMMARY


**DATE & TIME**
Europe/Bucharest timezone

**KEYBOARD**
English (US)


**LANGUAGE SUPPORT**
English (United States)


SOFTWARE

**INSTALLATION SOURCE**
Local media

**SOFTWARE SELECTION**
Minimal install

SYSTEM

**INSTALLATION DESTINATION**
Automatic partitioning selected

**NETWORK & HOSTNAME**
Not connected

Quit

Begin Installation

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

Please complete items marked with this icon before continuing to the next step.

Choose Installation Sources

INSTALLATION SOURCE

CENTOS 7 INSTALLATION

Done

Which installation source would you like to use?

☒ Auto-detected installation media:

Device: sr0
Label: CentOS_7_x86_64

Verify

☐ On the network:

http://

Proxy setup...

☐ This URL refers to a mirror list.

Additional repositories

Enabled	Name

+

-

Name:

http://

☐ This URL refers to a mirror list.

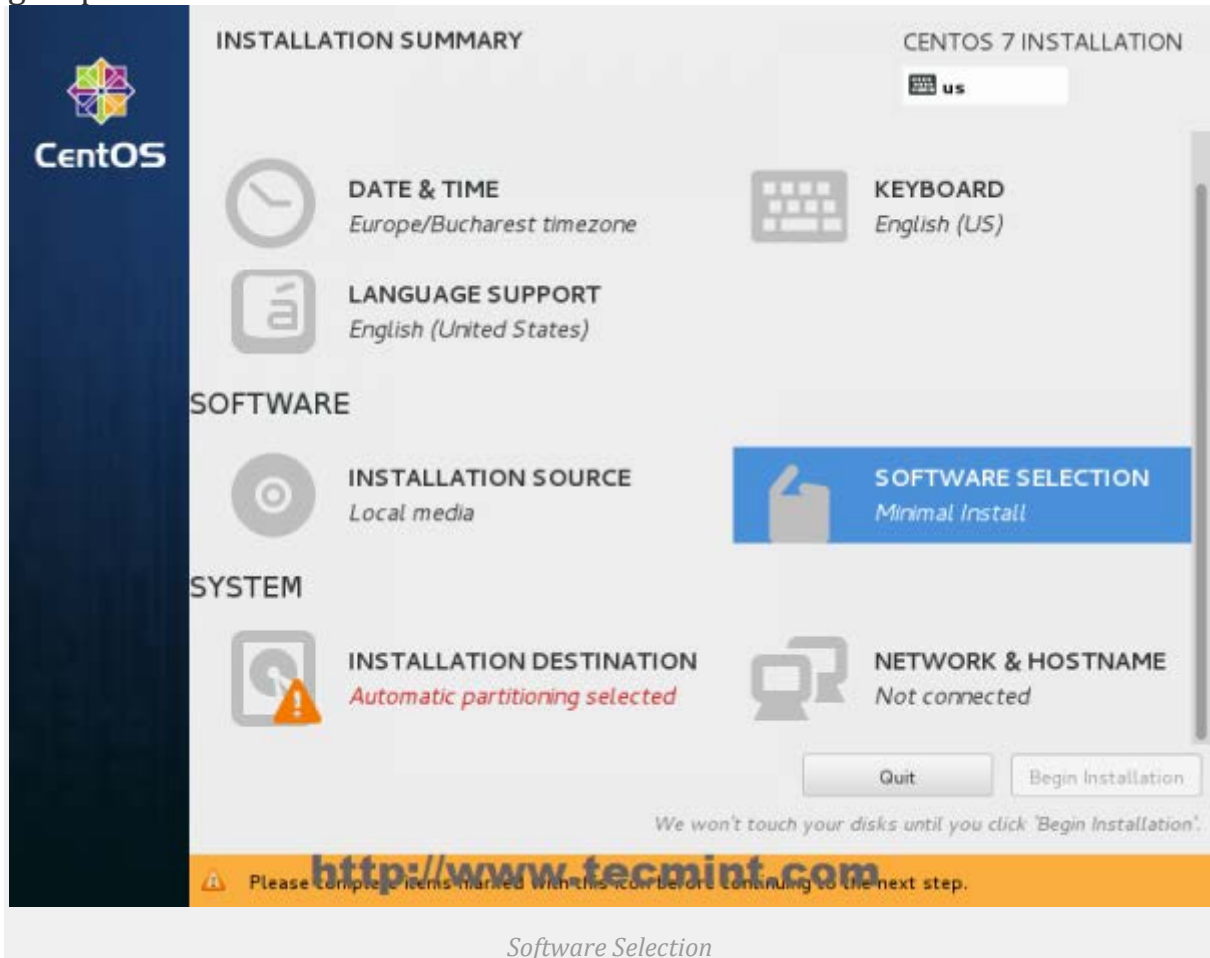
Proxy URL:

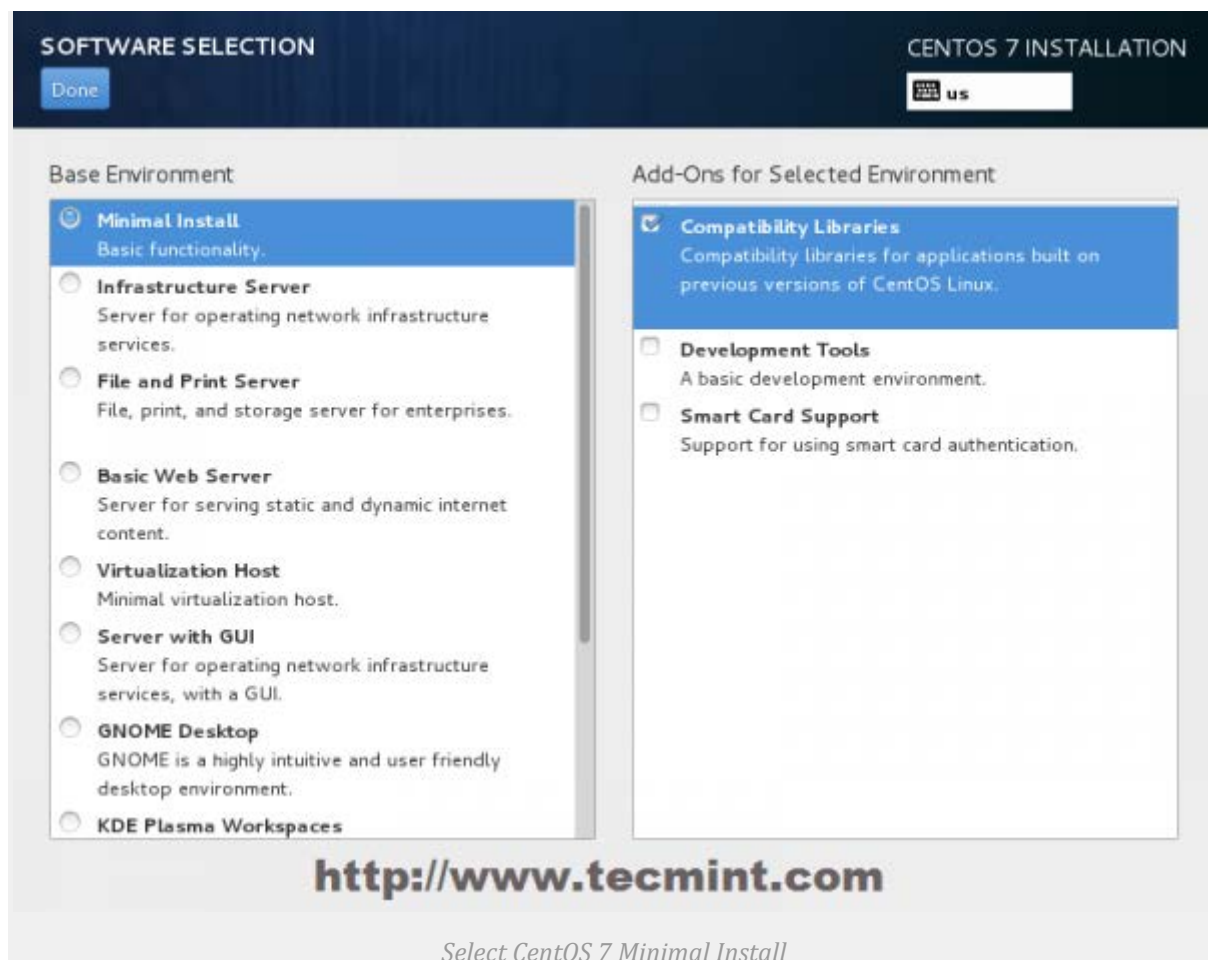
Username:

Password:

<http://www.tecmint.com>


8. On the next step you can choose your system installation software. On this step CentOS offers a lot of Server and Desktop platform environments that you choose from, but, if you want a high degree of customization, especially if you are going to use CentOS 7 to run as a server platform, then I suggest you select Minimal Install with Compatibility Libraries as Add-ons, which will install a minimal basic system software and later you can add other packages as your needs require using yum groupinstall command.






Select CentOS 7 Minimal Install


9. Now it's time to partition your hard-drive. Click on Installation Destination menu, select your disk and choose I will configure partitioning.


**CentOS**

INSTALLATION SUMMARY


CENTOS 7 INSTALLATION


**DATE & TIME**
Europe/Bucharest timezone

**KEYBOARD**
English (US)


**LANGUAGE SUPPORT**
English (United States)


SOFTWARE

**INSTALLATION SOURCE**
Local media

**SOFTWARE SELECTION**
Minimal install

SYSTEM

**INSTALLATION DESTINATION**
Error checking s...ge configuration

**NETWORK & HOSTNAME**
Not connected

Quit

Begin Installation

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


Please complete items marked with this icon before continuing to the next step.

Choose Installation Destination

INSTALLATION DESTINATION

CENTOS 7 INSTALLATION

Done


 us

Device Selection

Select the device(s) you'd like to install to. They will be left untouched until you click on the main menu's "Begin Installation" button.

Local Standard Disks

20.48 GB



VMware, VMware Virtual S
sda / 20.47 GB free

Disks left unselected here will not be touched.

Specialized & Network Disks

Add a disk...

Disks left unselected here will not be touched.

Other Storage Options

Partitioning

☐ Automatically configure partitioning.

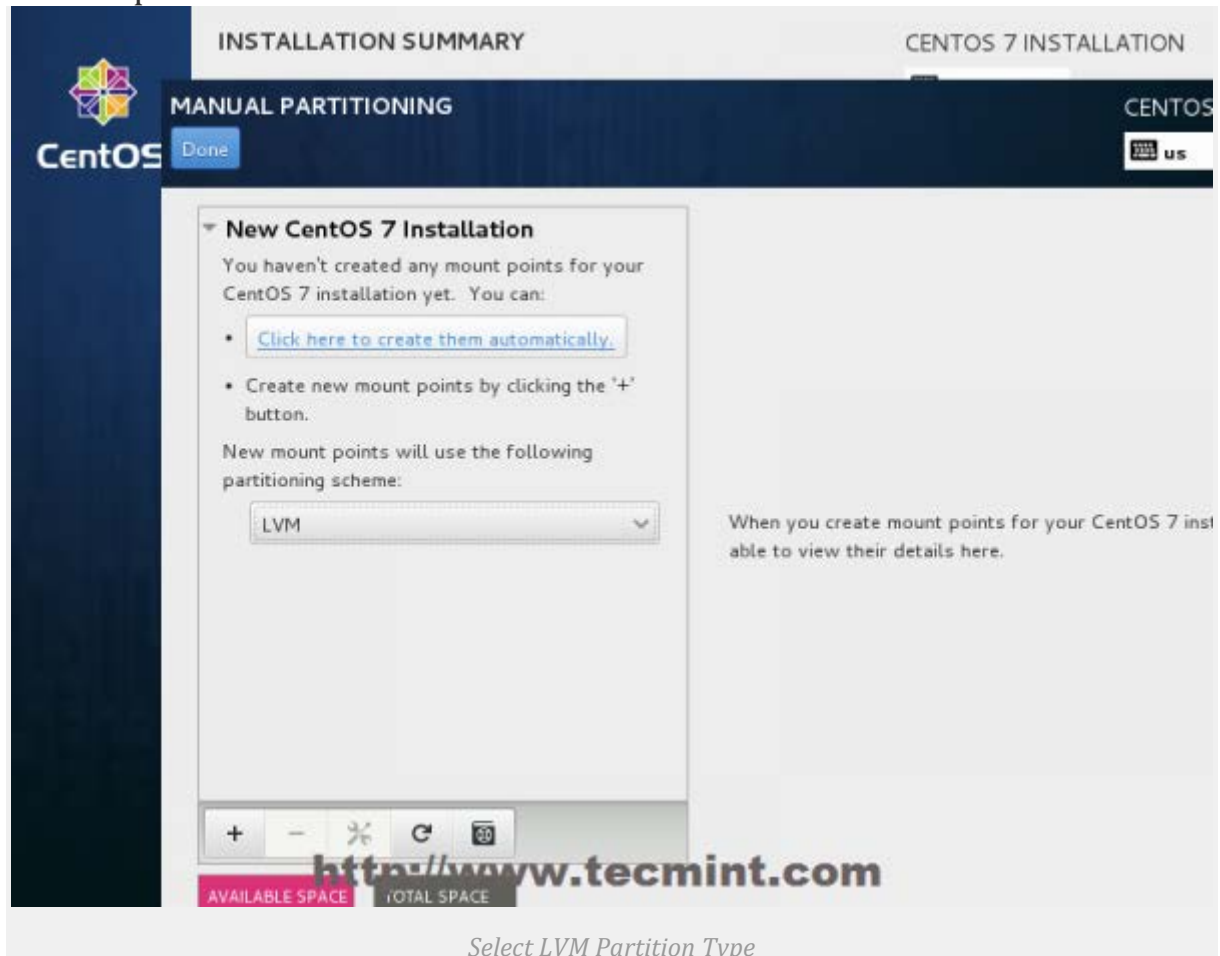
☒ I will configure partitioning.

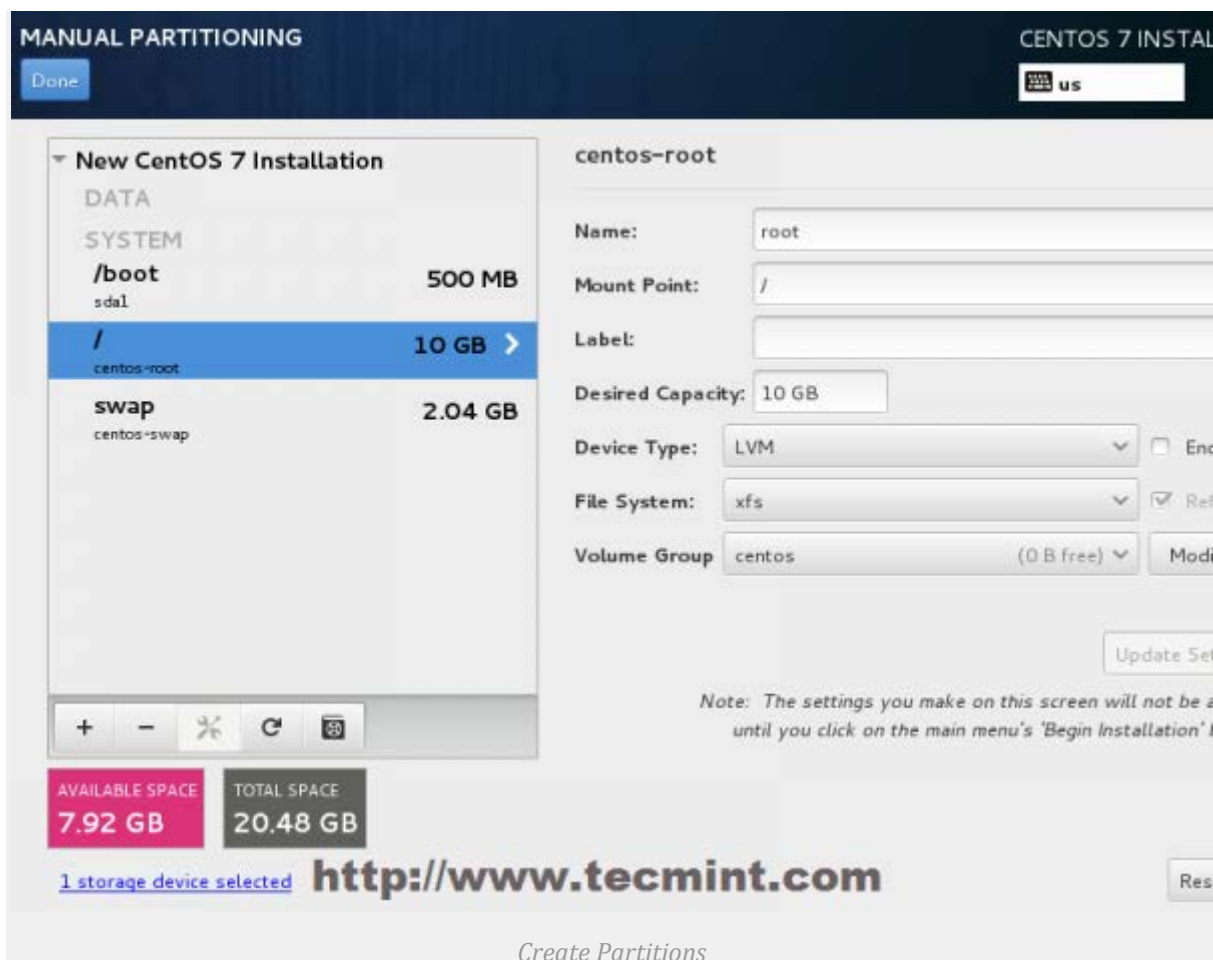
[Full disk summary and bootloaders](#)

20.48 GB capacity; 20.47 GB free

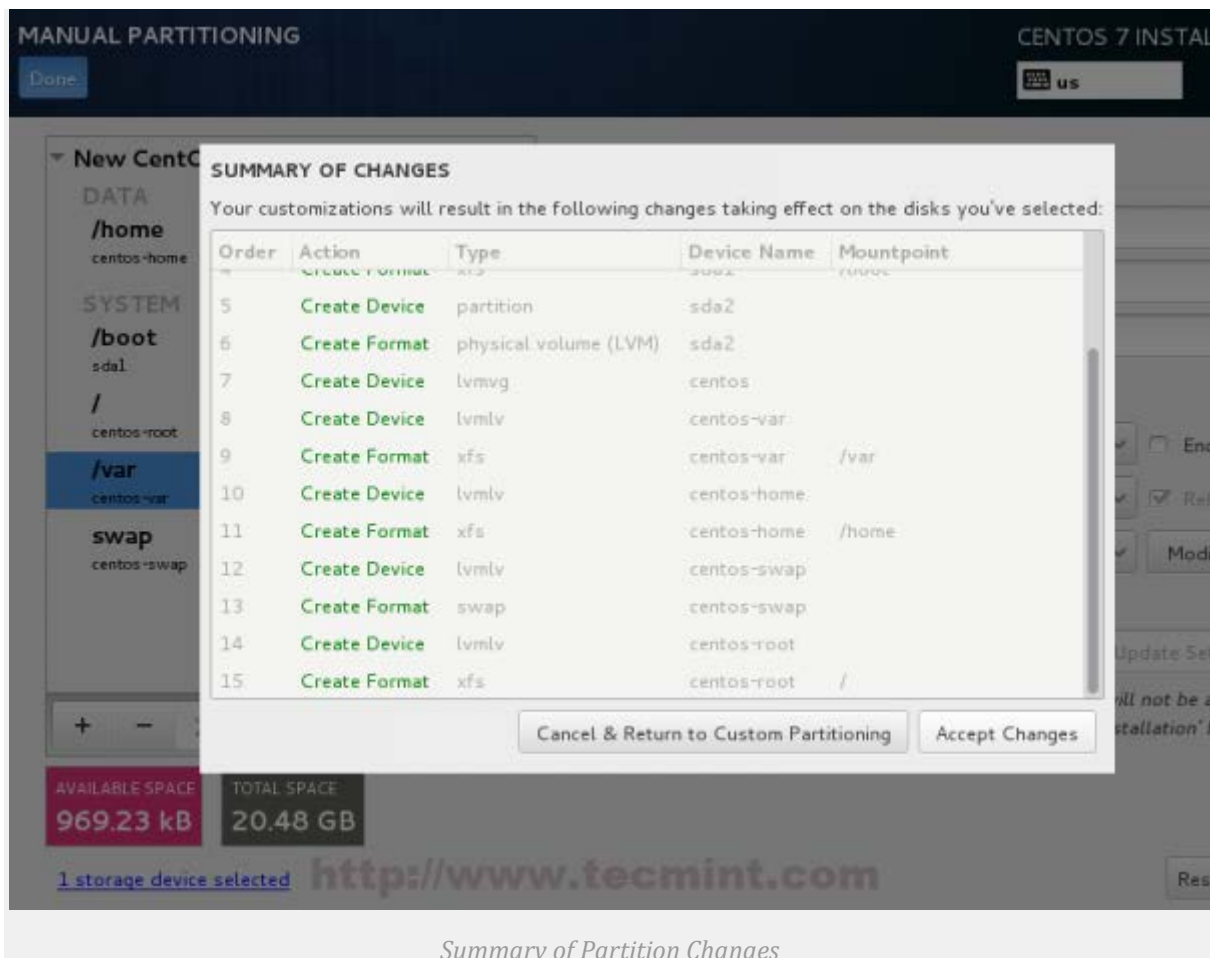
10. On the next screen, choose LVM (Logical Volume Manager) as partition layout and, then, click on Click here to create them automatically, option which will create three system partition using XFS filesystem, automatically redistributing your hard-disk space and gathering all LVS into one big Volume Group named centos.

- /boot – Non LVM
- /(root) – LVM
- Swap – LVM





11. If you are not pleased with the default partition layout done automatically by the installer you can completely add, modify or resize your partition scheme and when you finish hit on Done button and Accept Changes on the Summary of Changes prompt.

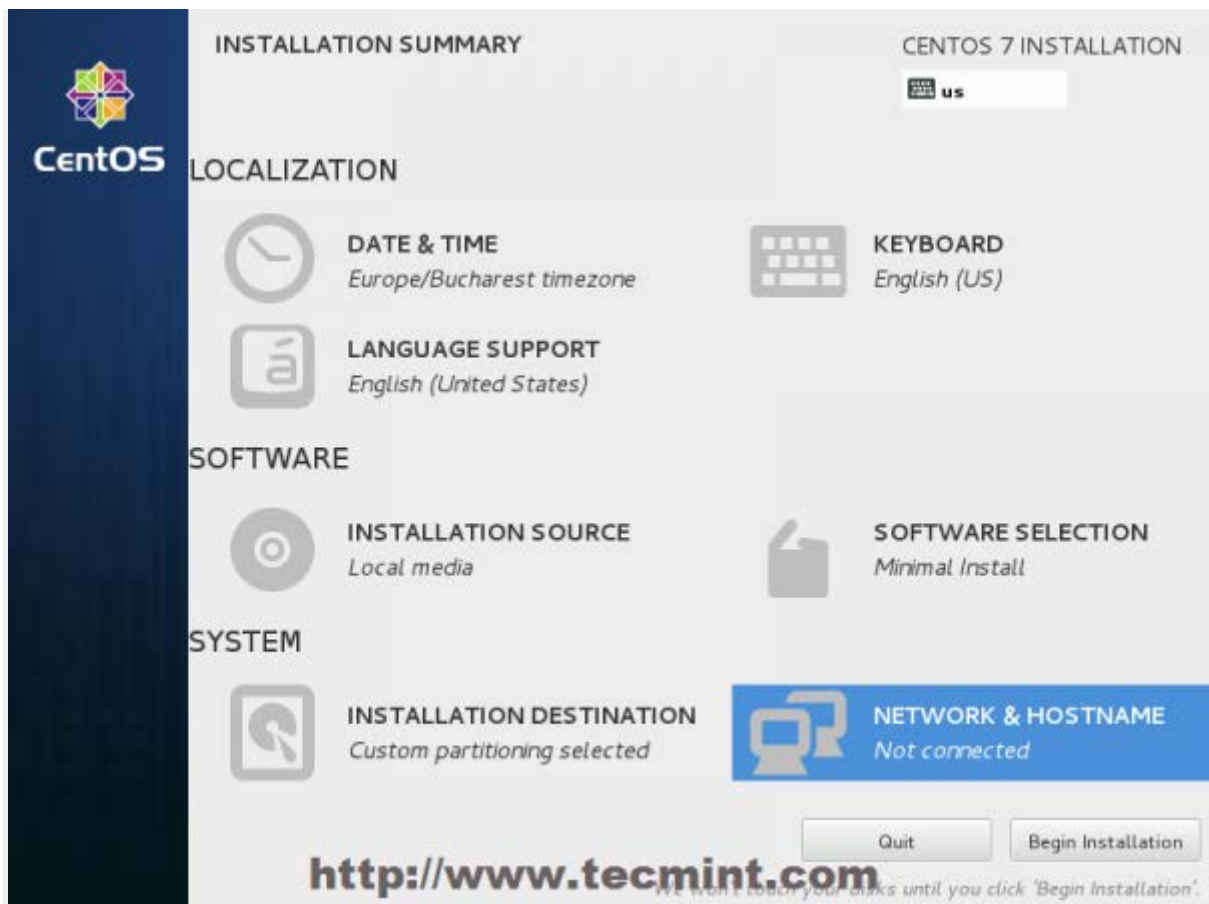


Summary of Partition Changes

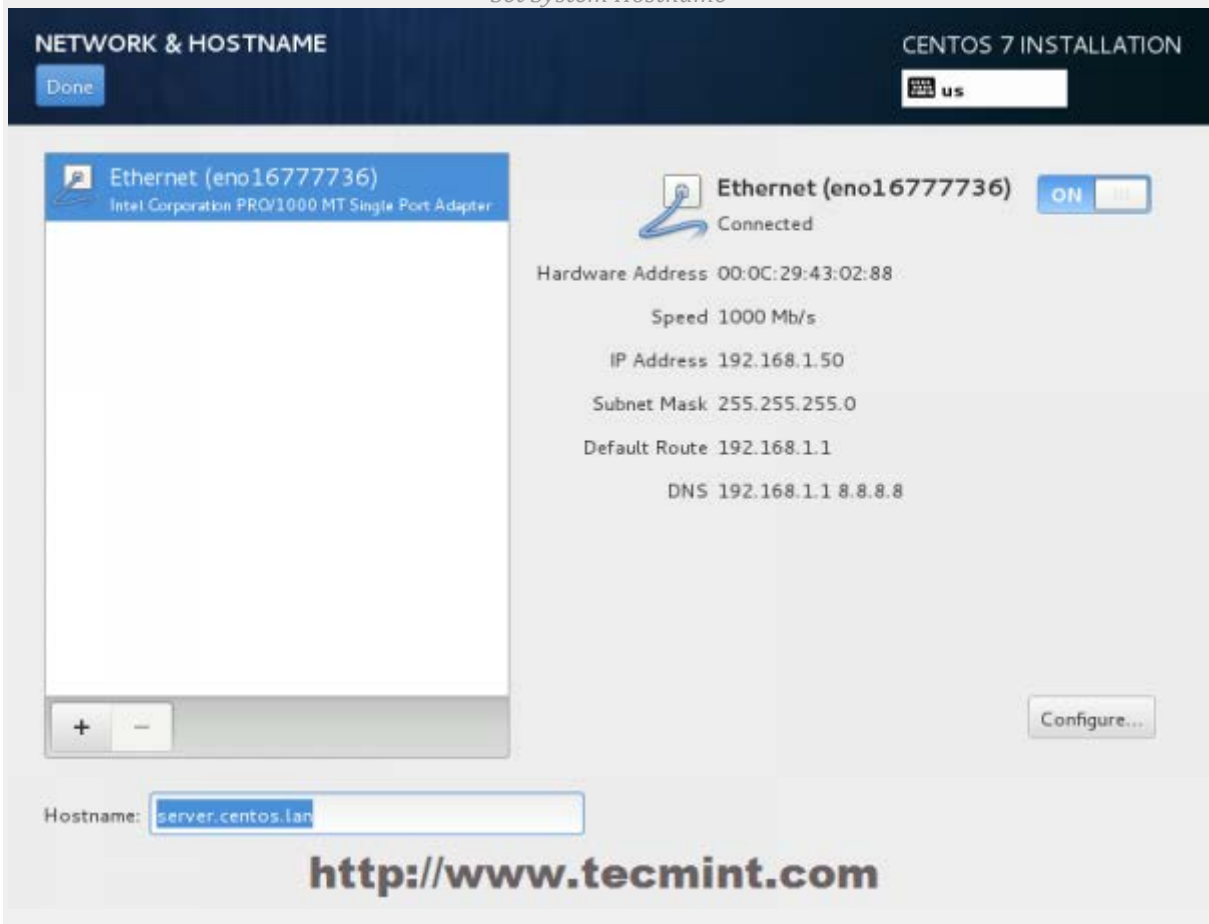
NOTE: For those users, who have hard-disks more than 2TB in size, the installer automatically will convert partition table to GPT, but if you wish to use GPT table on smaller disks than 2TB, then you should use the argument `inst.gpt` to the installer boot command line in order to change the default behaviour.

12. The next step is to set your system hostname and enable networking. Click on Network & Hostname label and type your system FQDN (Fully Qualified Domain Name) on Hostname field, then enable your Network interface, switching the top Ethernet button to ON.

If you have a functional DHCP server on your network then it will automatically configure all your network settings for enabled NIC, which should appear under your active interface.

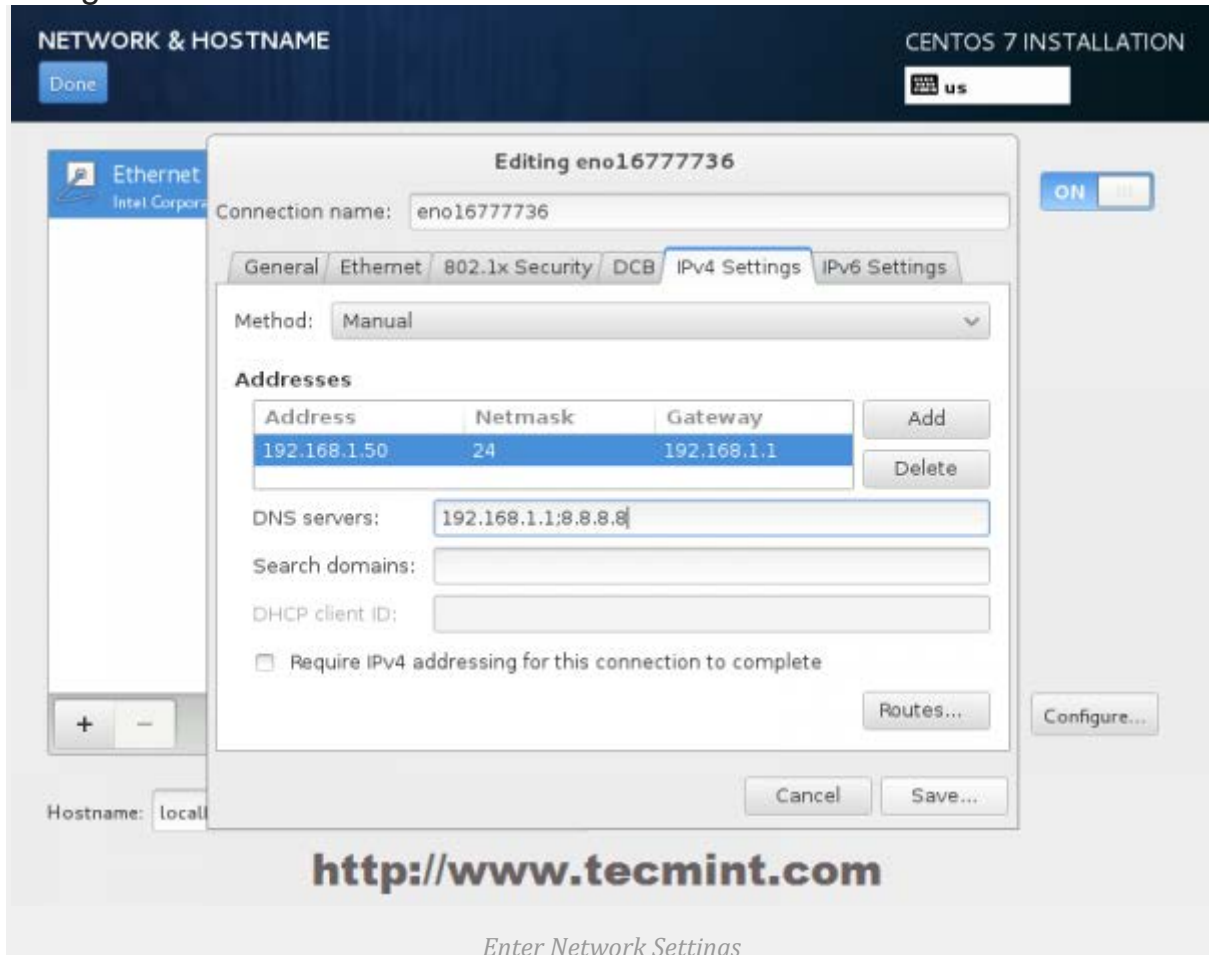


Set System Hostname




Enable Ethernet Interface

13. If your system will be destined as a server it's better to set static network configuration on Ethernet NIC by clicking on Configure button and add all your static interface settings like in the screenshot below, and when you're finished hit on Save button, disable and enable Ethernet card by switching the button to OFF and ON, and, then hit on Done to apply setting and go back to main menu.




Enter Network Settings

14. Now it's time to start installation process by pressing on Begin Installation button and set up a strong password for root account.



CentOS


INSTALLATION SUMMARY


CENTOS 7 INSTALLATION

 **us**


LOCALIZATION


**DATE & TIME**
Europe/Bucharest timezone

**KEYBOARD**
English (US)


**LANGUAGE SUPPORT**
English (United States)


SOFTWARE

**INSTALLATION SOURCE**
Local media

**SOFTWARE SELECTION**
Minimal Install

SYSTEM

**INSTALLATION DESTINATION**
Custom partitioning selected

**NETWORK & HOSTNAME**
Wired (eno167...736) connecte


Quit

Begin Installation

<http://www.tecmint.com>


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

Click on Begin Installation



CentOS


CONFIGURATION


CENTOS 7 INSTALLATION

 **us**


USER SETTINGS

**ROOT PASSWORD**
Root password is set

**USER CREATION**
No user will be created


Installing linux-firmware (9/310)

CentOS Core SIG
roduces the CentOS Linux Distribution.
<http://centos.org/SpecialInterestGroup>



<http://www.tecmint.com>

Select Root Password

ROOT PASSWORD

Done

CENTOS 7 INSTALLATION

us

The root account is used for administering the system. Enter a password for the root user.

Root Password:


Fair

Confirm:

<http://www.tecmint.com>

Enter Root Password

15. After you finish setting up a strong password for root account move to User Creation and create your first system user. You can designate this user to become a System Admin with root privileges using sudo command by checking the box Make this user administrator, then click on Done to go back on main menu and wait for the installation process to finish.



CentOS

CONFIGURATION


CENTOS 7 INSTALLATION

us

USER SETTINGS



ROOT PASSWORD
Root password is set



USER CREATION
Administrator c...will be created

Installing openssh-server (269/310)

CentOS Cloud-Instance SIG

CentOS instances in public and private cloud environments.

<http://www.tecmint.com>

CentOS 7 Installation Process

CREATE USER

CENTOS 7 INSTALLATION

Done

us

Full name

caezsar

Username

caezsar

Tip: Keep your username shorter than 32 characters and do not use spaces.

☒ Make this user administrator

☒ Require a password to use this account

Password

••••••••••

Fair

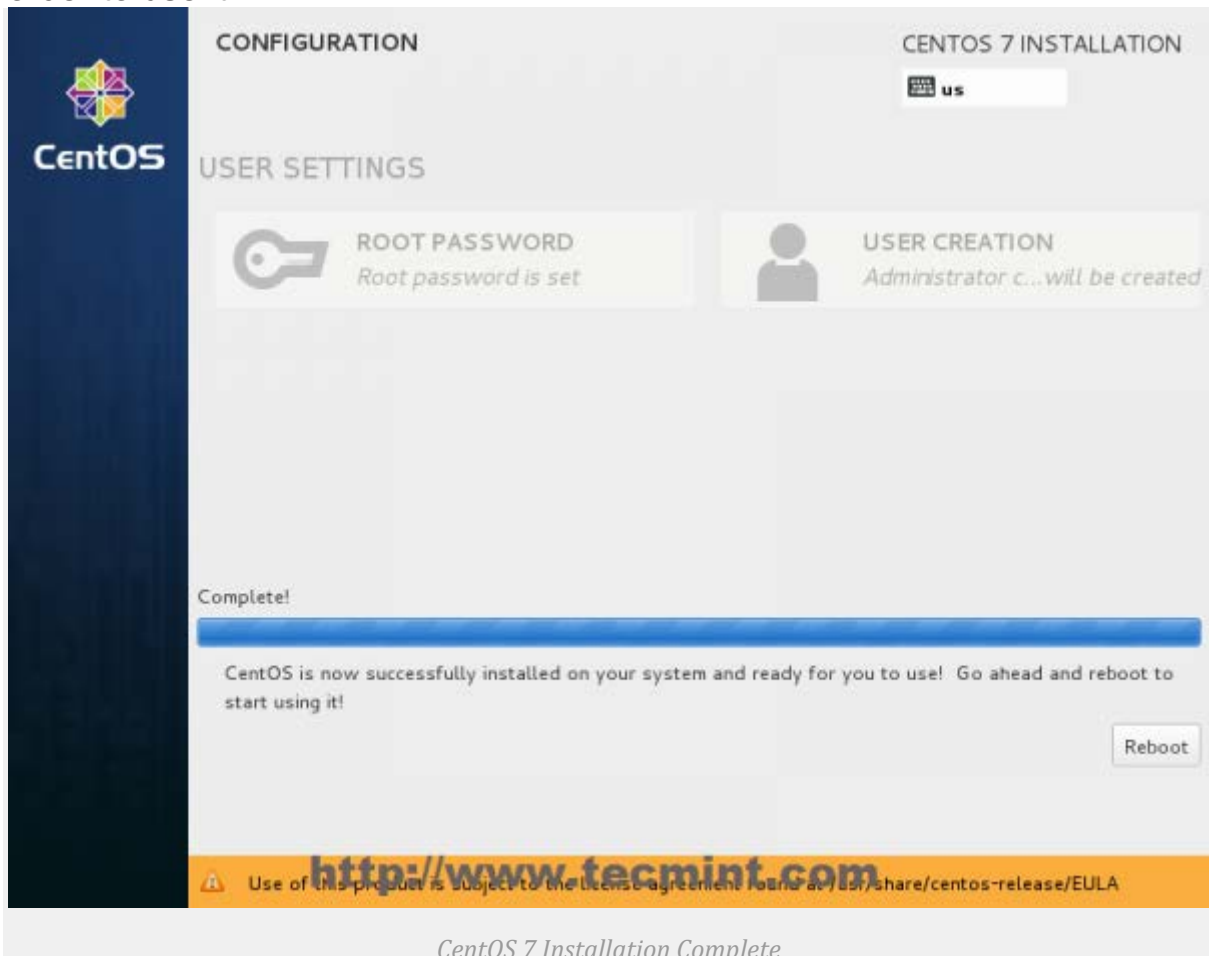
Confirm password

••••••••••

Advanced...

<http://www.tecmint.com>

16. After the installation process finishes, the installer will show a successfully message on screen, demanding to reboot your system in order to use it.



CentOS 7 Installation Complete

Congratulation! You have now installed last version of CentOS on your bare new machine. Remove any installation media and reboot your computer so you can login to your new minimal CentOS 7 environment and perform other system tasks, such as update you system and install other useful software needed to run day to day tasks.

Note :

If there is any problem in network configuration then you can check following files

ip addr ----- to check ip addresses (same as ifconfig in ubuntu)

It will show you all available ethernet adaptor on your machine

e.g

enp0s3 -

check whether it is assigned to some i/p if not then assigned to some static ip

use following steps

1. Go to folder `/etc/sysconfig/network-scripts` -----this folder contains all network related configuration files
2. Find file in which name contains name of ethernet adaptor e.g `enp0s3`
3. Open the file in vi editor
`# vi ifcfg-enp0s3`
4. Do the following changes
 1. `IPV6INIT=no`
 2. `BOOTPROTO=none`
 3. `ONBOOT=yes`
5. Add following lines
`IPADDR=192.168.1.1`
`PREFIX=24` ----- this is number of byte for subnet mask instead of this you may add `NETMASK=255.255.255.0` in some OS it may be `MASK=255.255.255.0`
6. Add following line if necessary
`GATEWAY=192.168.1.254` ----- this is required if you are accessing it through router `192.168.1.254` -----i/p of router
7. Then we need to restart the service
`#ifdown enp0s3`
`#ifup enp0s3`