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Getting started



[OS] EPPM/EDRM Deployment Operating System (Linux) Installation Guide

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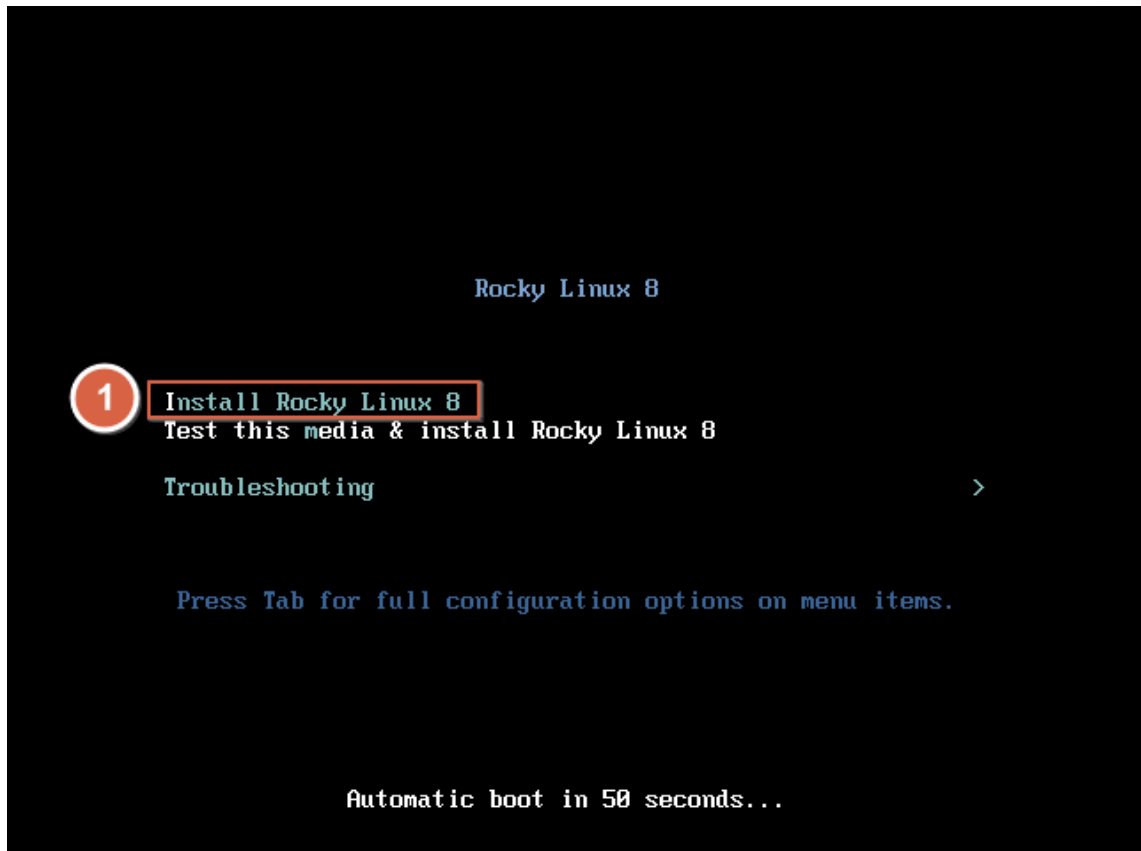
1. Overview

- This article describes how to install the operation system required for deploying EPPM/EDRM powered by AhnLab.

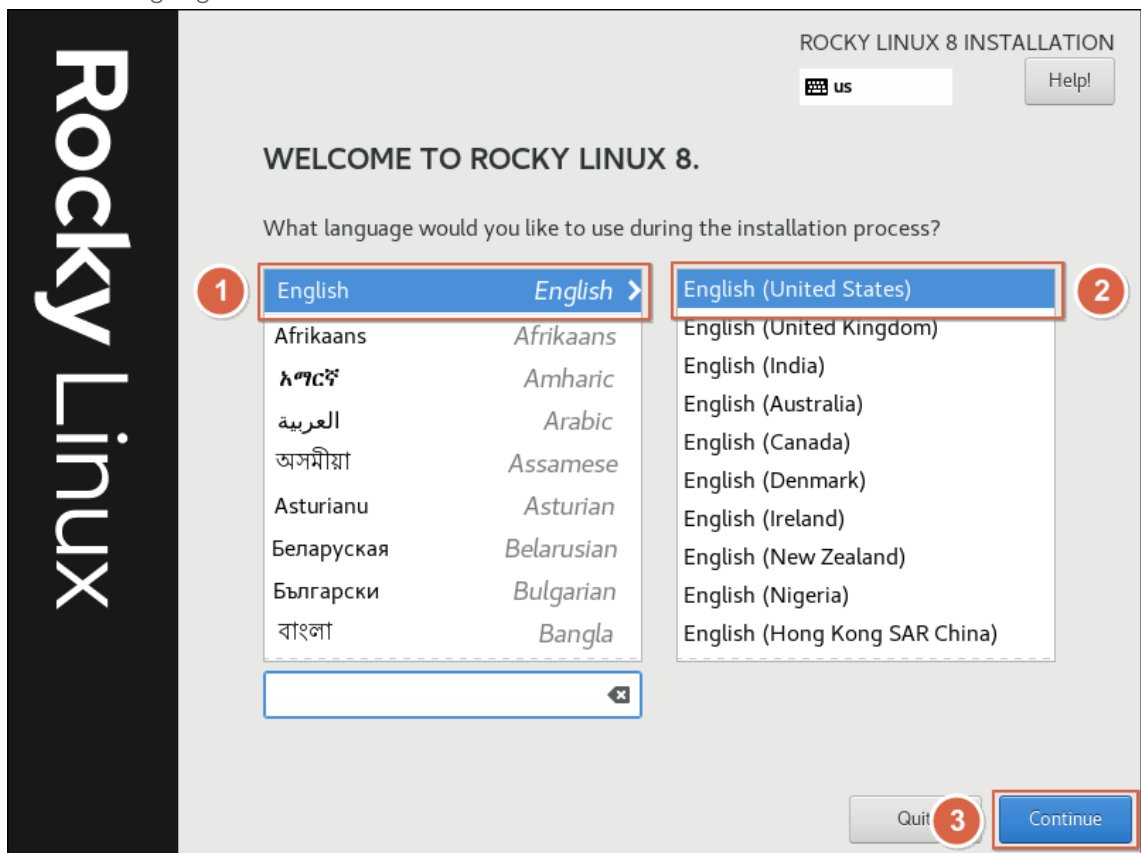
2. Install OS

2-1) Start Setting (Based on Rocky Linux 8.6)

- Select 'Install Rocky Linux 8'

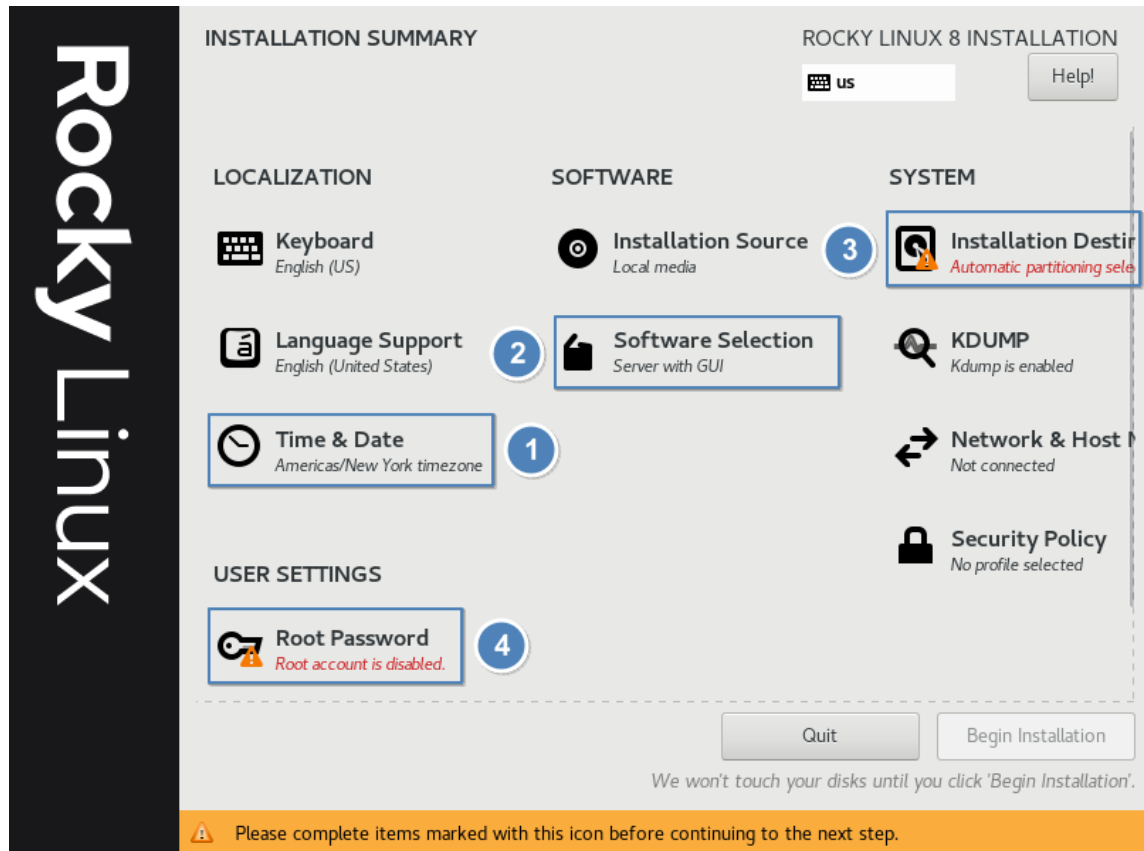


- Select a language

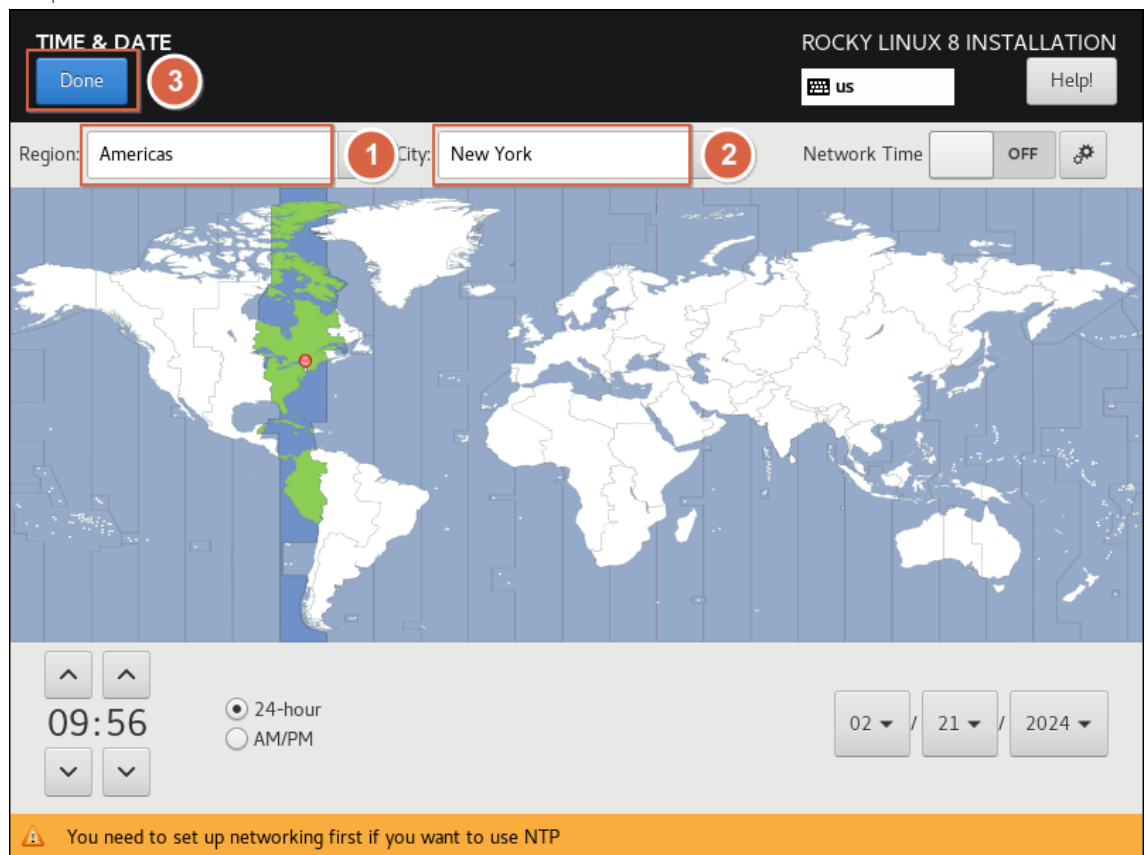


2-2) Change Settings

- You can change the following 4 settings (See the Step 1 ~ 4)



- Step 1. Time & Date



- Step 2. Software Selection

SOFTWARE SELECTION

ROCKY LINUX 8 INSTALLATION

Done

2

us

Help!

Base Environment

☐ Server with GUI
An integrated, easy-to-manage server with a graphical interface.

☐ Server
An integrated, easy-to-manage server.

☒ Minimal Install
Basic functionality. 1

☐ Workstation
Workstation is a user-friendly desktop system for laptops and PCs.

☐ Custom Operating System
Basic building block for a custom Rocky system.

☐ Virtualization Host
Minimal virtualization host.

Additional software for Selected Environment

☐ Guest Agents
Agents used when running under a hypervisor.

☐ Standard
The standard installation of Rocky Linux.

☐ Legacy UNIX Compatibility
Compatibility programs for migration from or working with legacy UNIX environments.

☐ Container Management
Tools for managing Linux containers

☐ Development Tools
A basic development environment.

☐ .NET Core Development
Tools to develop .NET and .NET Core applications

☐ Graphical Administration Tools
Graphical system administration tools for managing many aspects of a system.

☐ Headless Management
Tools for managing the system without an attached graphical console.

☐ Network Servers
These packages include network-based servers such as DHCP, Kerberos and NIS.

- Step 3. Installation Destination

INSTALLATION DESTINATION

ROCKY LINUX 8 INSTALLATION

Done

3

us

Help!

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

50 GiB

1


VMware, VMware Virtual S
sda / 50 GiB free

Disks left unselected here will not be touched.

Specialized & Network Disks

Add a disk...

Disks left unselected here will not be touched.

Storage Configuration

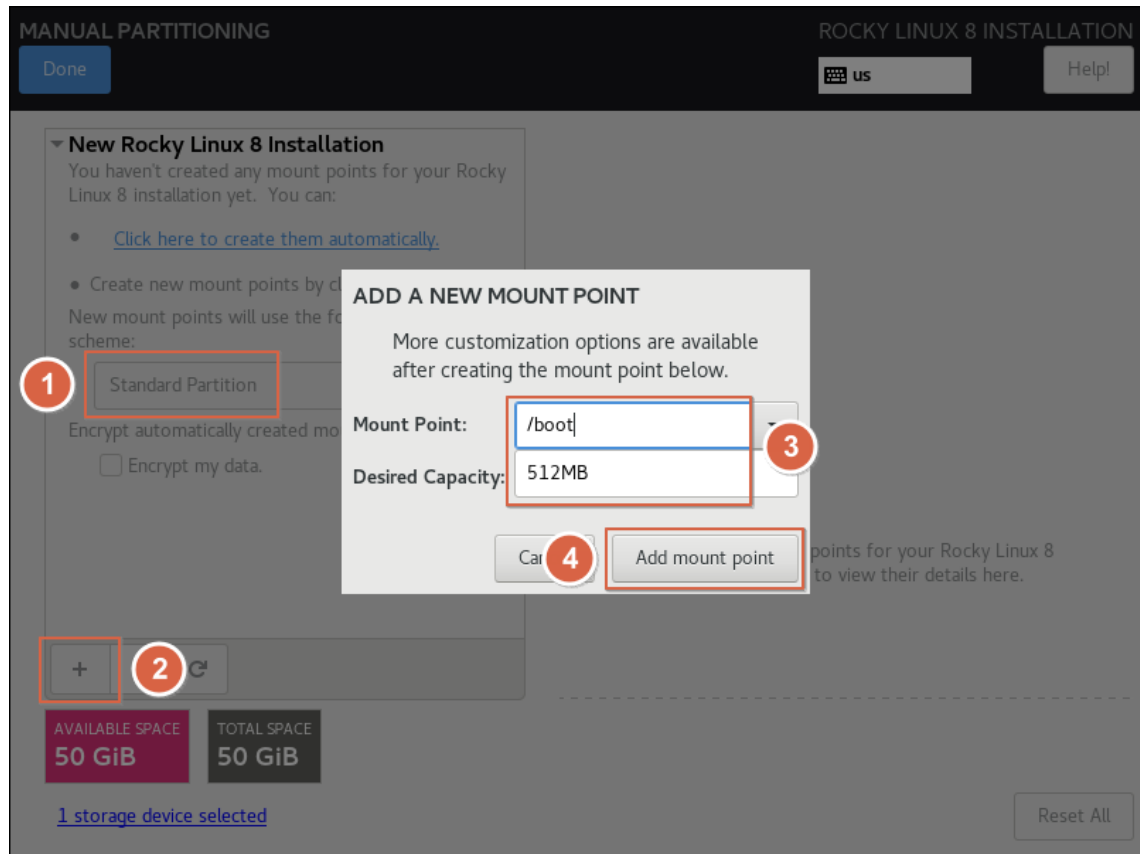
☐ Automatic

☒ Custom 2

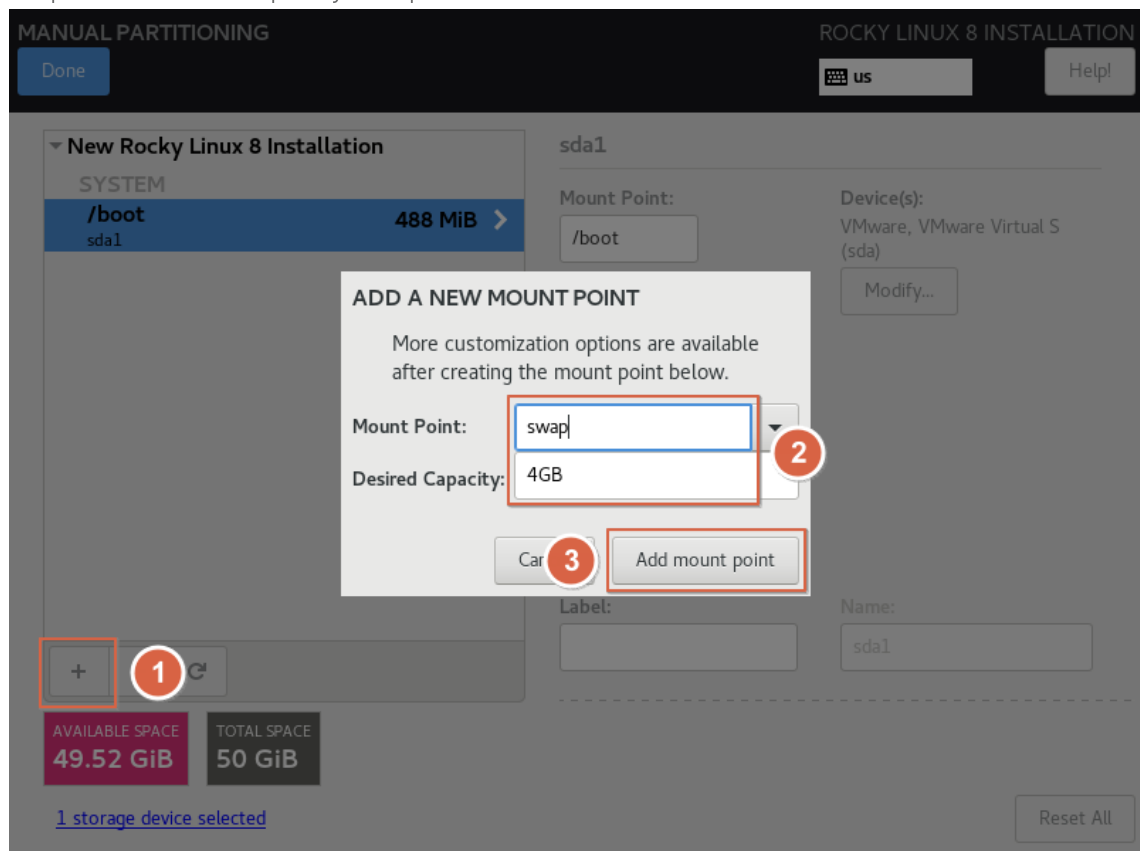
[Full disk summary and boot loader...](#)

1 disk selected; 50 GiB capacity; 50 GiB free [Refresh...](#)

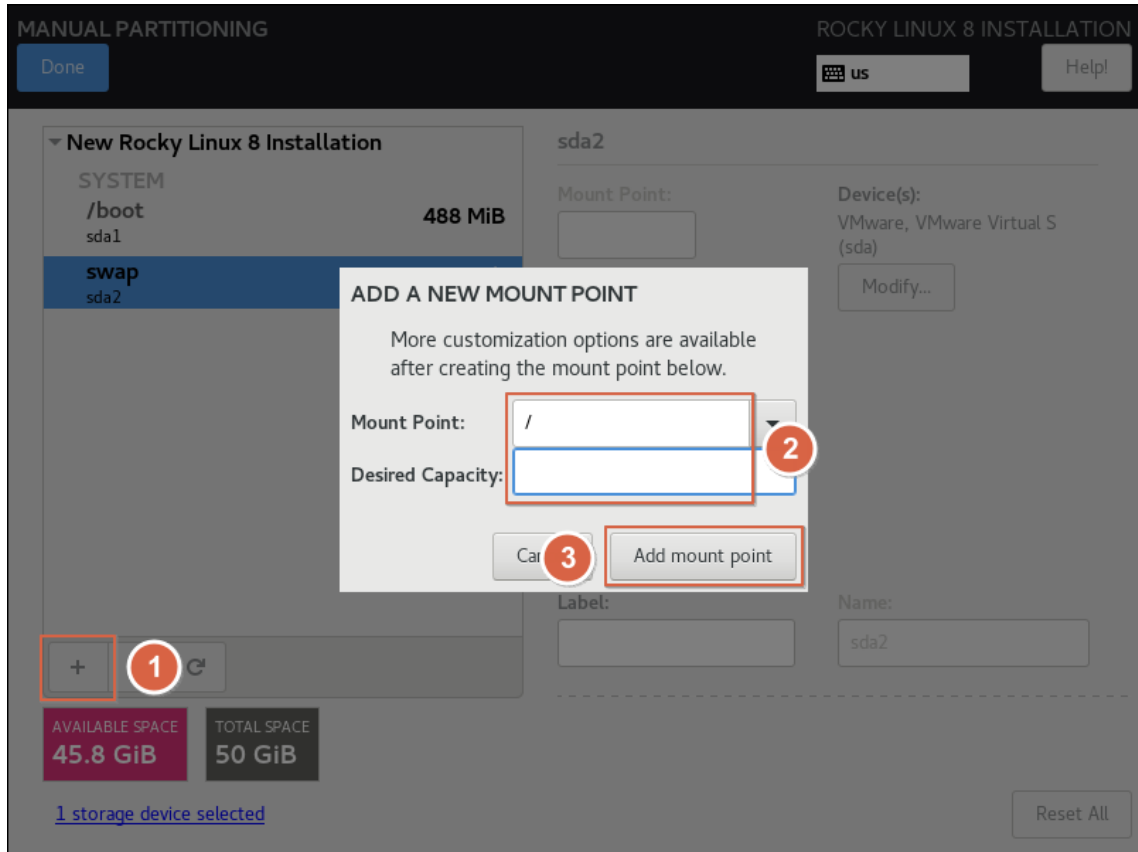
- Step 3. Partition & Capacity: /boot



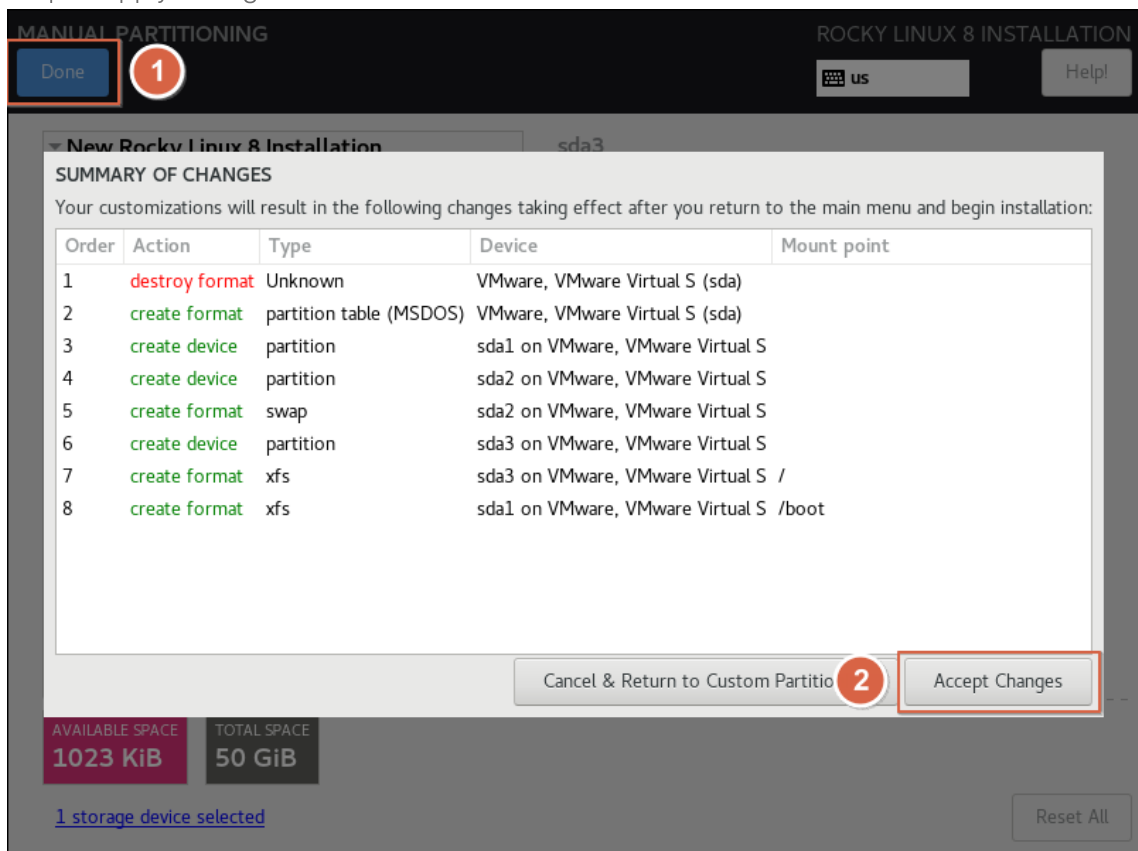
- Step 3. Partition & Capacity: swap



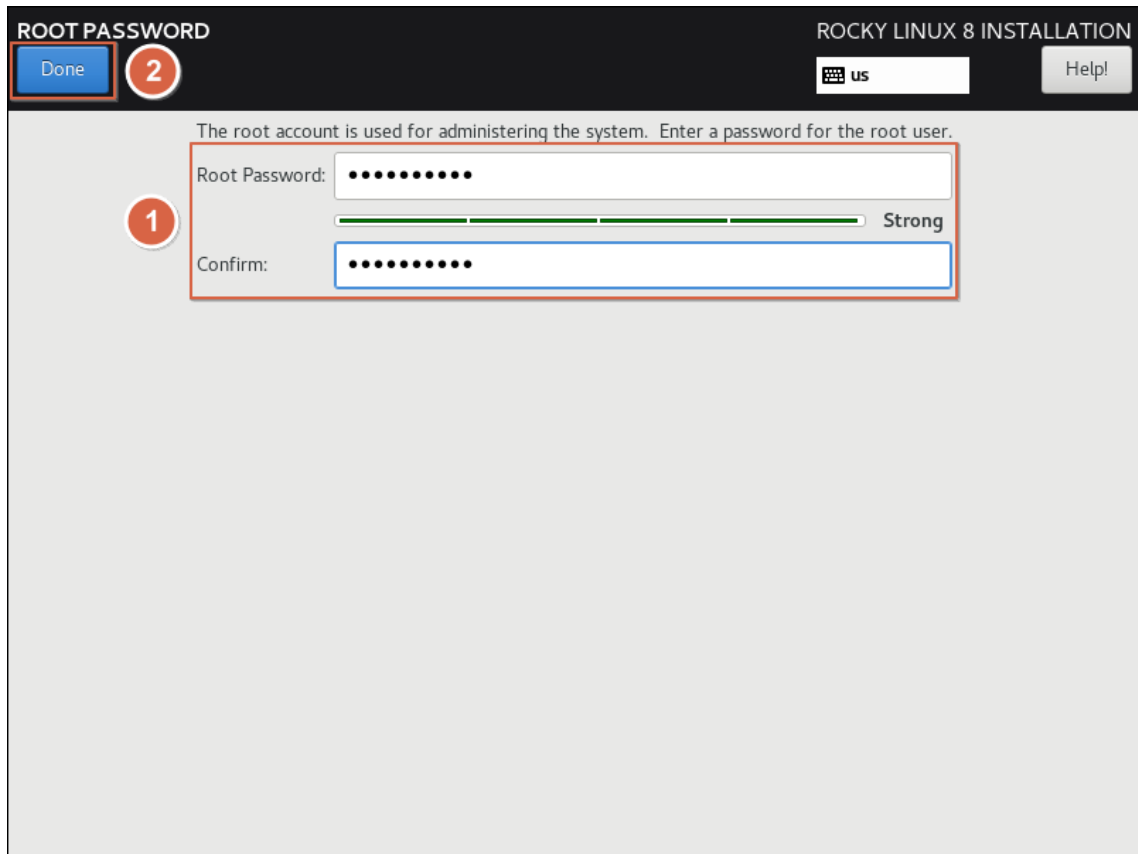
- Step 3. Partition & Capacity: / (Allocate entire available disk space)



- Step 3. Apply Changes



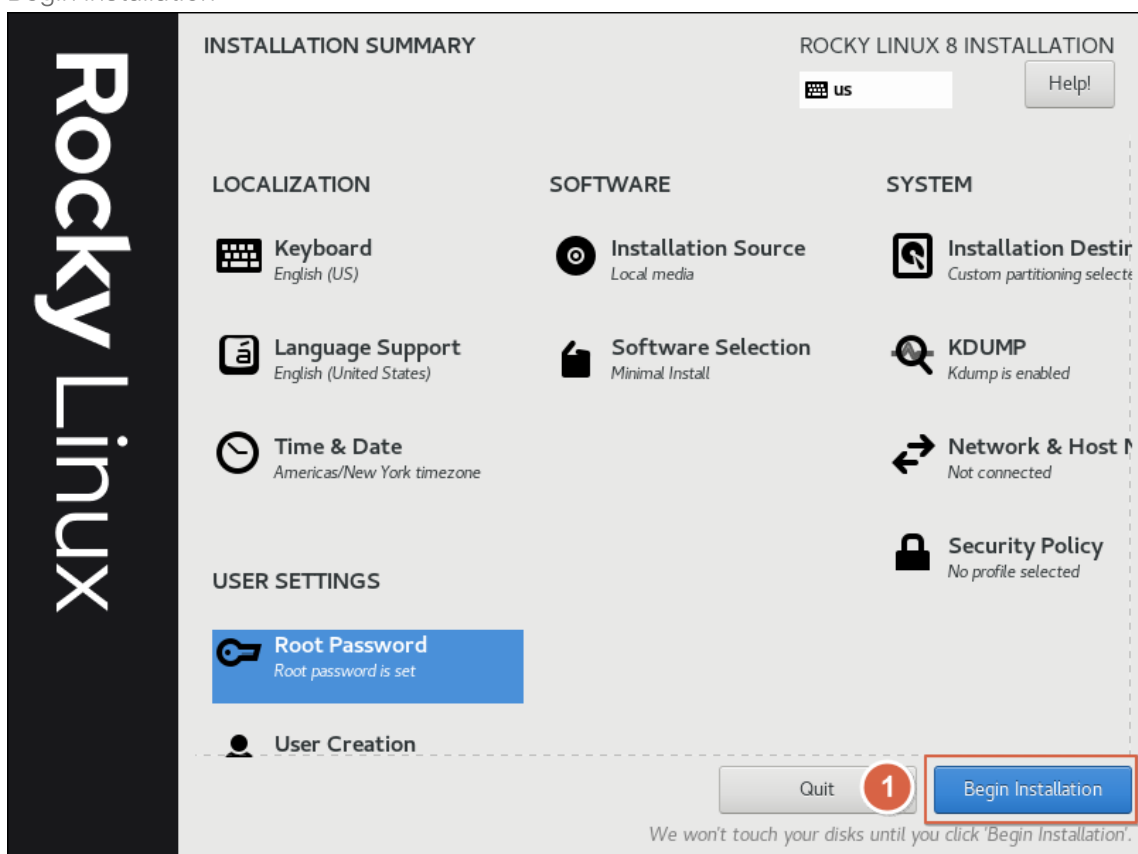
- Step 4. Root Password



The screenshot shows the 'ROOT PASSWORD' screen in the Rocky Linux 8 installation process. The title bar at the top reads 'ROOT PASSWORD' and 'ROCKY LINUX 8 INSTALLATION'. There is a 'Done' button on the left and a 'Help!' button on the right. A red circle with the number '2' is next to the 'Done' button. The main text says: 'The root account is used for administering the system. Enter a password for the root user.' Below this, there are two input fields: 'Root Password:' and 'Confirm:'. Both fields contain masked characters (dots). A red circle with the number '1' is next to the 'Root Password:' field. A green progress bar is shown between the two fields, with the word 'Strong' at the end, indicating the password strength. A red rectangle highlights the 'Root Password:' and 'Confirm:' fields.

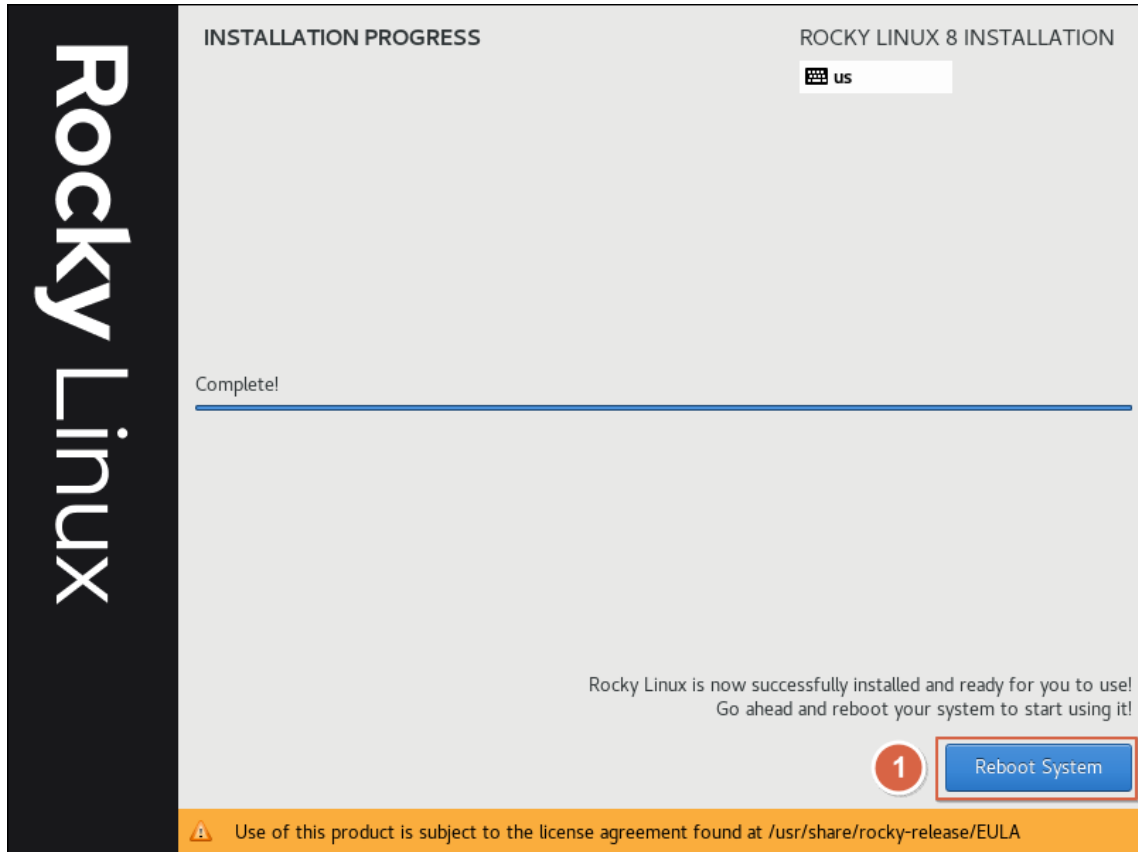
2-3) Begin Installation

- Begin installation



The screenshot shows the 'INSTALLATION SUMMARY' screen in the Rocky Linux 8 installation process. The title bar at the top reads 'ROCKY LINUX 8 INSTALLATION'. There is a 'Help!' button on the right. The screen is divided into three main sections: 'LOCALIZATION', 'SOFTWARE', and 'SYSTEM'. Under 'LOCALIZATION', there are 'Keyboard' (English (US)) and 'Language Support' (English (United States)). Under 'SOFTWARE', there are 'Installation Source' (Local media) and 'Software Selection' (Minimal Install). Under 'SYSTEM', there are 'Installation Destination' (Custom partitioning selected), 'KDUMP' (Kdump is enabled), 'Network & Host Name' (Not connected), and 'Security Policy' (No profile selected). Below these sections is the 'USER SETTINGS' section, which includes 'Root Password' (Root password is set) and 'User Creation'. A red circle with the number '1' is next to the 'User Creation' option. At the bottom right, there are two buttons: 'Quit' and 'Begin Installation'. The 'Begin Installation' button is highlighted with a red rectangle. A red circle with the number '1' is next to the 'Begin Installation' button. At the bottom of the screen, there is a message: 'We won't touch your disks until you click "Begin Installation".'

- Reboot system



3. Network Settings

3-1) Confirm Network Information

- Network Interface Name

```
command : ip a

[root@localhost ~]# ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
2: ens33: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
    link/ether 00:0c:29:21:3b:58 brd ff:ff:ff:ff:ff:ff
[root@localhost ~]#
```

- Activate network

```
command : ethtool [Network Device Name]
```

```
[root@localhost ~]# ethtool ens33
Settings for ens33:
    Supported ports: [ TP ]
    Supported link modes:   10baseT/Half 10baseT/Full
                           100baseT/Half 100baseT/Full
                           1000baseT/Full
    Supported pause frame use: No
    Supports auto-negotiation: Yes
    Supported FEC modes: Not reported
    Advertised link modes:  10baseT/Half 10baseT/Full
                           100baseT/Half 100baseT/Full
                           1000baseT/Full
    Advertised pause frame use: No
    Advertised auto-negotiation: Yes
    Advertised FEC modes: Not reported
    Speed: 1000Mb/s
    Duplex: Full
    Auto-negotiation: on
    Port: Twisted Pair
    PHYAD: 0
    Transceiver: internal
    MDI-X: off (auto)
    Supports Wake-on: d
    Wake-on: d
    Current message level: 0x00000007 (?)
                               drv probe link
    Link detected: yes
[root@localhost ~]#
```

3-2) Change Settings

- Settings File Path:

```
cd /etc/sysconfig/network-scripts/
```

```
[root@localhost network-scripts]# vi ifcfg-ens33
```

- Confirm settings file

```
command : ls -al
```

```
[root@localhost network-scripts]# ls -al
total 8
drwxr-xr-x. 2 root root  25 Feb 21 10:31 .
drwxr-xr-x. 5 root root 4096 Feb 21 10:31 ..
-rw-r--r--. 1 root root 245 Feb 21 10:31 ifcfg-ens33
```

- Modify settings file

```
command : vi [Network Interface Name]
```

```
[root@localhost network-scripts]# vi ifcfg-ens33
```

- Modify settings file

Type	Description
BOOTPROTO	none

ONBOOT	yes
IPADDR	Enter IP address of EPP server
NETMASK	Enter subnet mask of EPP server
GATEWAY	Enter gateway of EPP server
DNS1	Enter DNS of EPP server

```

TYPE=Ethernet
PROXY_METHOD=none
BROWSER_ONLY=no
BOOTPROTO=none
DEFROUTE=yes
IPV4_FAILURE_FATAL=no
IPV6INIT=yes
IPV6_AUTOCONF=yes
IPV6_DEFROUTE=yes
IPV6_FAILURE_FATAL=no
NAME=ens33
UUID=ec76a46e-8ca6-4154-9eb1-9408d065eb0f
DEVICE=ens33
IPADDR=192.168.10.20
NETMASK=255.255.255.0
GATEWAY=192.168.10.1
DNS1=8.8.8.8
ONBOOT=yes

```

- Apply network settings

command : systemctl restart NetworkManager

```
[root@localhost network-scripts]# systemctl restart NetworkManager
```

- Confirm network settings

command : ip a

```

[root@localhost network-scripts]# ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
2: ens33: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
    link/ether 00:0c:29:21:3b:58 brd ff:ff:ff:ff:ff:ff
    inet 192.168.10.20/24 brd 192.168.10.255 scope global noprefixroute ens33
        valid_lft forever preferred_lft forever
    inet6 fe80::20c:29ff:fe21:3b58/64 scope link noprefixroute
        valid_lft forever preferred_lft forever

```

3-3) Confirm Network Connection

- Confirm gateway communication

command : ping [Gateway IP]

```
[root@localhost ~]# ping 192.168.10.1
PING 192.168.10.1 (192.168.10.1) 56(84) bytes of data.
64 bytes from 192.168.10.1: icmp_seq=1 ttl=64 time=0.345 ms
64 bytes from 192.168.10.1: icmp_seq=2 ttl=64 time=0.347 ms
64 bytes from 192.168.10.1: icmp_seq=3 ttl=64 time=0.453 ms
64 bytes from 192.168.10.1: icmp_seq=4 ttl=64 time=0.473 ms
64 bytes from 192.168.10.1: icmp_seq=5 ttl=64 time=0.477 ms
```

- Confirm external communication

```
command : ping [External IP]
```

```
[root@localhost ~]# ping 8.8.8.8
PING 8.8.8.8 (8.8.8.8) 56(84) bytes of data.
64 bytes from 8.8.8.8: icmp_seq=1 ttl=64 time=0.495 ms
64 bytes from 8.8.8.8: icmp_seq=2 ttl=64 time=0.770 ms
64 bytes from 8.8.8.8: icmp_seq=3 ttl=64 time=0.454 ms
64 bytes from 8.8.8.8: icmp_seq=4 ttl=64 time=0.490 ms
64 bytes from 8.8.8.8: icmp_seq=5 ttl=64 time=0.637 ms
```

4. Install Additional tar rpm Packages

4-1) Download tar rpm

- Rockylinux.org :
https://download.rockylinux.org/pub/rocky/8/BaseOS/x86_64/os/Packages/t/
- pkgs.org : https://rockylinux.pkgs.org/8/rockylinux-baseos-x86_64/

4-2) Install tar rpm

- Execute tar rpm installation

```
command : rpm -ivh [rpm file name]
```

```
[root@localhost ~]# rpm -ivh tar-1.30-5.el8.x86_64.rpm
warning: tar-1.30-5.el8.x86_64.rpm: Header U3 RSA/SHA256 Signature, key ID 8483c65d: NOKEY
Verifying... ##### [100%]
Preparing... ##### [100%]
package tar-2:1.30-5.el8.x86_64 is already installed
file /usr/bin/tar from install of tar-2:1.30-5.el8.x86_64 conflicts with file from package tar-2:1.30-5.el8.x86_64
file /usr/share/info/tar.info-1.gz from install of tar-2:1.30-5.el8.x86_64 conflicts with file from package tar-2:1.30-5.el8.x86_64
file /usr/share/info/tar.info-2.gz from install of tar-2:1.30-5.el8.x86_64 conflicts with file from package tar-2:1.30-5.el8.x86_64
file /usr/share/info/tar.info.gz from install of tar-2:1.30-5.el8.x86_64 conflicts with file from package tar-2:1.30-5.el8.x86_64
```

4-3) tar rpm Installation Complete

- Confirm tar rpm installation

```
command : rpm -qa | grep tar
```

```
[root@localhost ~]# rpm -qa | grep tar-1.30
tar-1.30-5.el8.x86_64
```

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English (US)
