

Installing BIND 9 DNS Server on CentOS 7

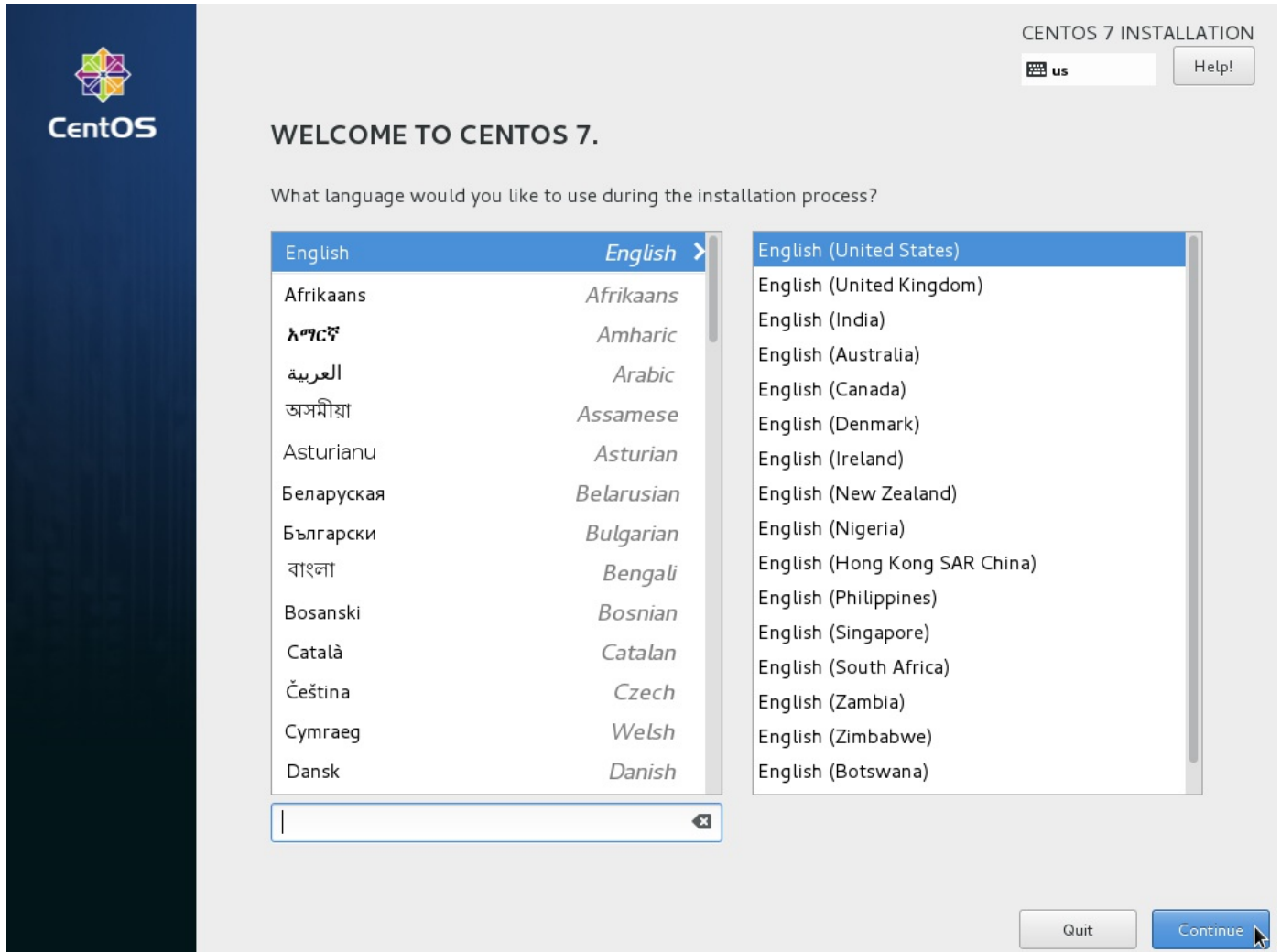
This guide assumes the use of BIND v9.10.4-P2 (the most current version at the time of writing) and CentOS 7 minimal install. Any other versions of software or distributions may have different dependencies, options, or commands.

Install CentOS 7

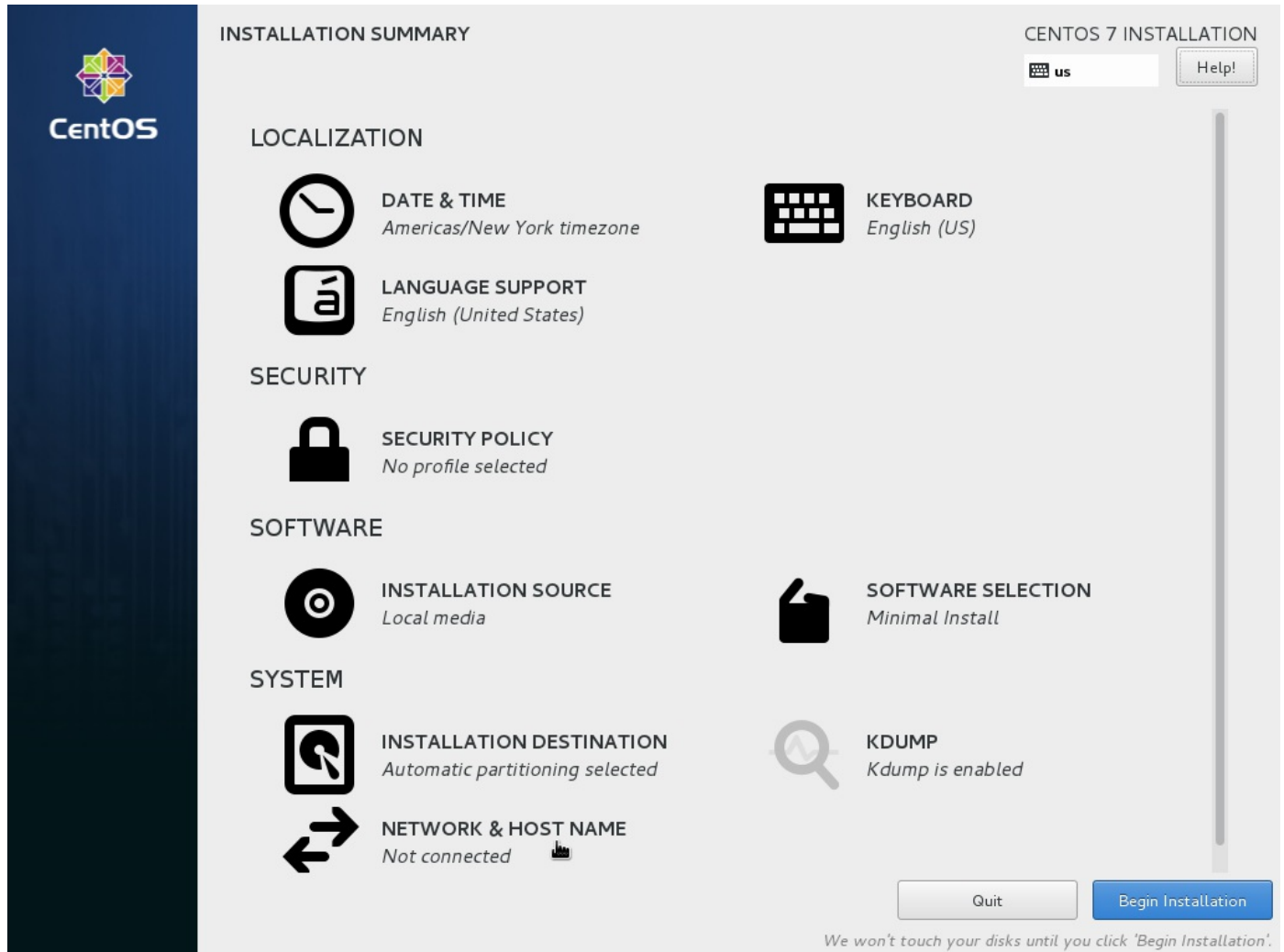
1. Start the machine with a CentOS install DVD inserted. Select the CD drive as the boot device if necessary.
2. When the CentOS install DVD boots, select "Install CentOS 7" from the menu using the arrow keys and hit the Enter key.



3. After the installer loads, make sure that "English (United States)" is selected as the language and click the Continue button.



4. On the main install screen, click "Network & Host Name"



5. Enter the desired hostname in the "Host name" box. If the computer should use DHCP instead of a static IP, skip the next step. If a static IP is needed, click the "Configure" button.

NETWORK & HOST NAME

CENTOS 7 INSTALLATION

Done

us

Help!

Ethernet (enp0s3)
Intel Corporation 82540EM Gigabit Ethernet Controller (PRO/1000 MT Desk

+ -

Host name:

Ethernet (enp0s3)
Disconnected

Hardware Address 08:00:27:48:DD:02
Speed 1000 Mb/s

OFF

Configure...

6. To configure the static IP, select the "IPv4 Settings" tab, select "Manual" from the drop-down menu, and click the Add button. Enter the desired IP address, netmask (or CIDR mask), and gateway. List the DNS servers to use in the "DNS Servers" box, each one separated by commas. Click the Save button.

NETWORK & HOST NAME

Done

CENTOS 7 INSTALLATION

us

Help!

Ethernet (enp0s3)
Intel Corporation 82540EM Gigabit Ethernet Controller (PRO/1000 MT Desk

Ethernet (enp0s3)
Disconnected

OFF

Editing enp0s3

Connection name: enp0s3

General

Ethernet

802.1x Security

DCB

IPv4 Settings

IPv6 Settings

Method: Manual

Addresses

Address	Netmask	Gateway
192.168.1.2	24	192.168.1.1

AddDelete

DNS servers: 8.8.8.8, 8.8.4.4

Search domains:

DHCP client ID:

☐ Require IPv4 addressing for this connection to complete

Routes...

CancelSave

Configure...

+ -

Host name: dns406

7. Click the On/Off toggle to turn the network interface on. If no static IP was entered, DHCP will be used. Click the Done button.

NETWORK & HOST NAME

Done

CENTOS 7 INSTALLATION

us

Help!

Ethernet (enp0s3)
Intel Corporation 82540EM Gigabit Ethernet Controller (PRO/1000 MT Deskt

+ -

Host name:

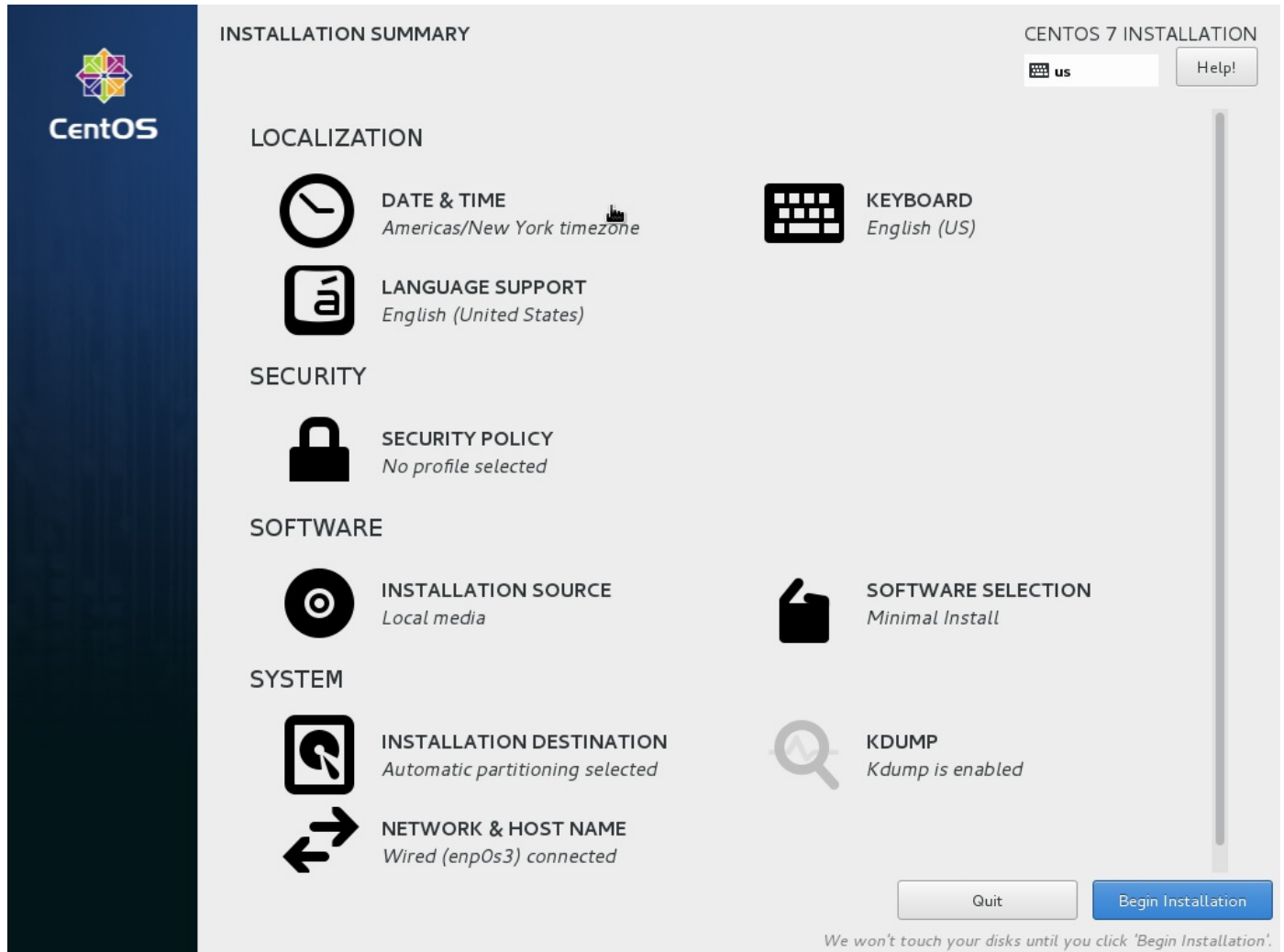
Ethernet (enp0s3)
Connected

ON

Hardware Address 08:00:27:48:DD:02
Speed 1000 Mb/s
IP Address 10.0.2.15
Subnet Mask 255.255.255.0
Default Route 10.0.2.2
DNS 8.8.8.8 8.8.4.4

Configure...

8. Back on the main install screen, click "Date & Time".



9. Select the appropriate time zone. For US Central time, select "Americas/Chicago". Make sure the "Network Time" in the upper right is set to "On". Click the Done button.

DATE & TIME


CENTOS 7 INSTALLATION

Done

us

Help!

Region: Americas City: Chicago Network Time ON



16:03 PM

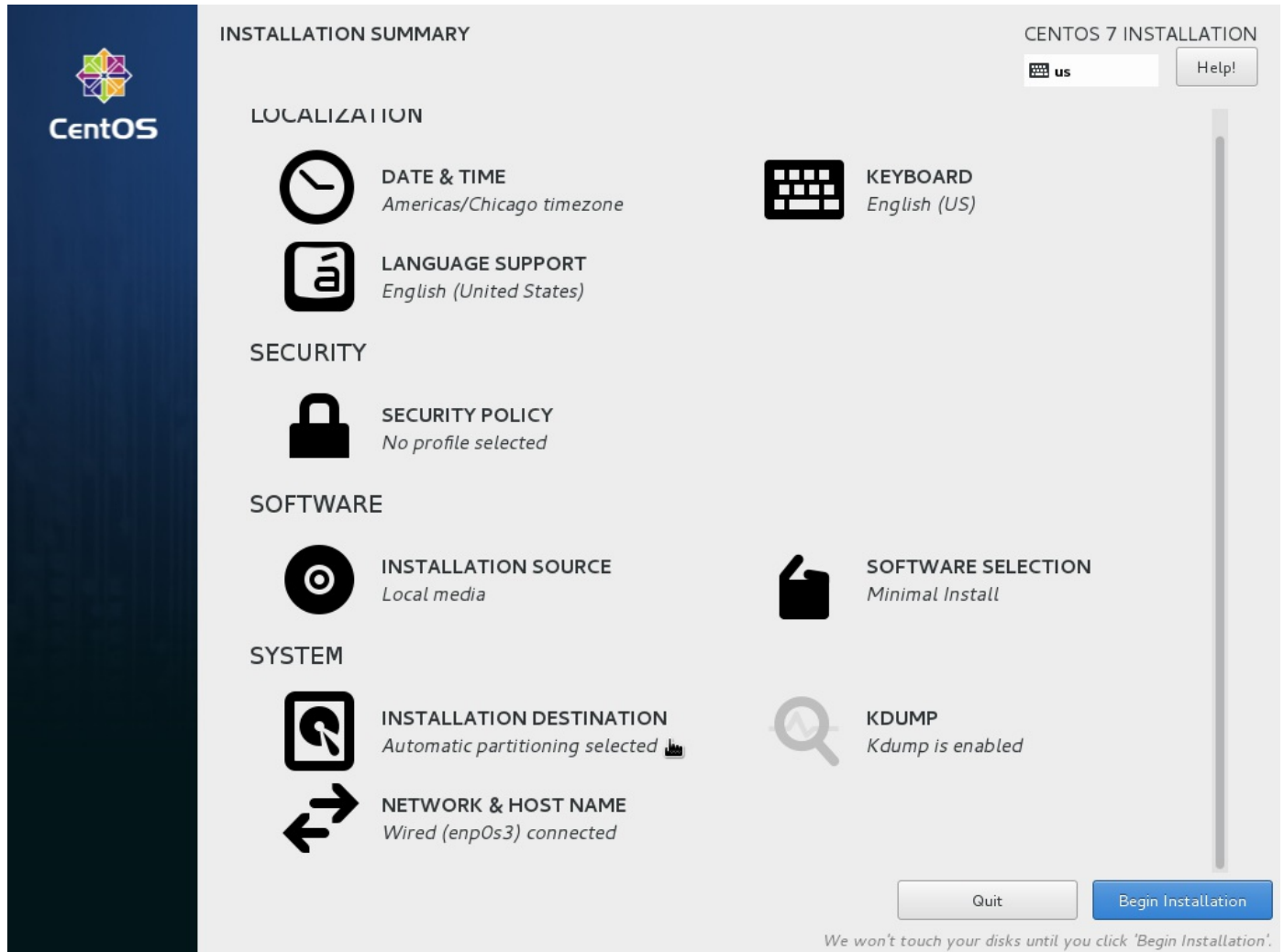
☒ 24-hour
☐ AM/PM

07

31

2016

10. Back on the main install screen, click "Installation Destination".



11. Make sure that "Automatically configure partitioning" is selected. Click the Done button.

INSTALLATION DESTINATION

CENTOS 7 INSTALLATION

Done

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

20 GiB




ATA VBOX HARDDISK

sda / 992.5 KiB 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.

☐ I would like to make additional space available.

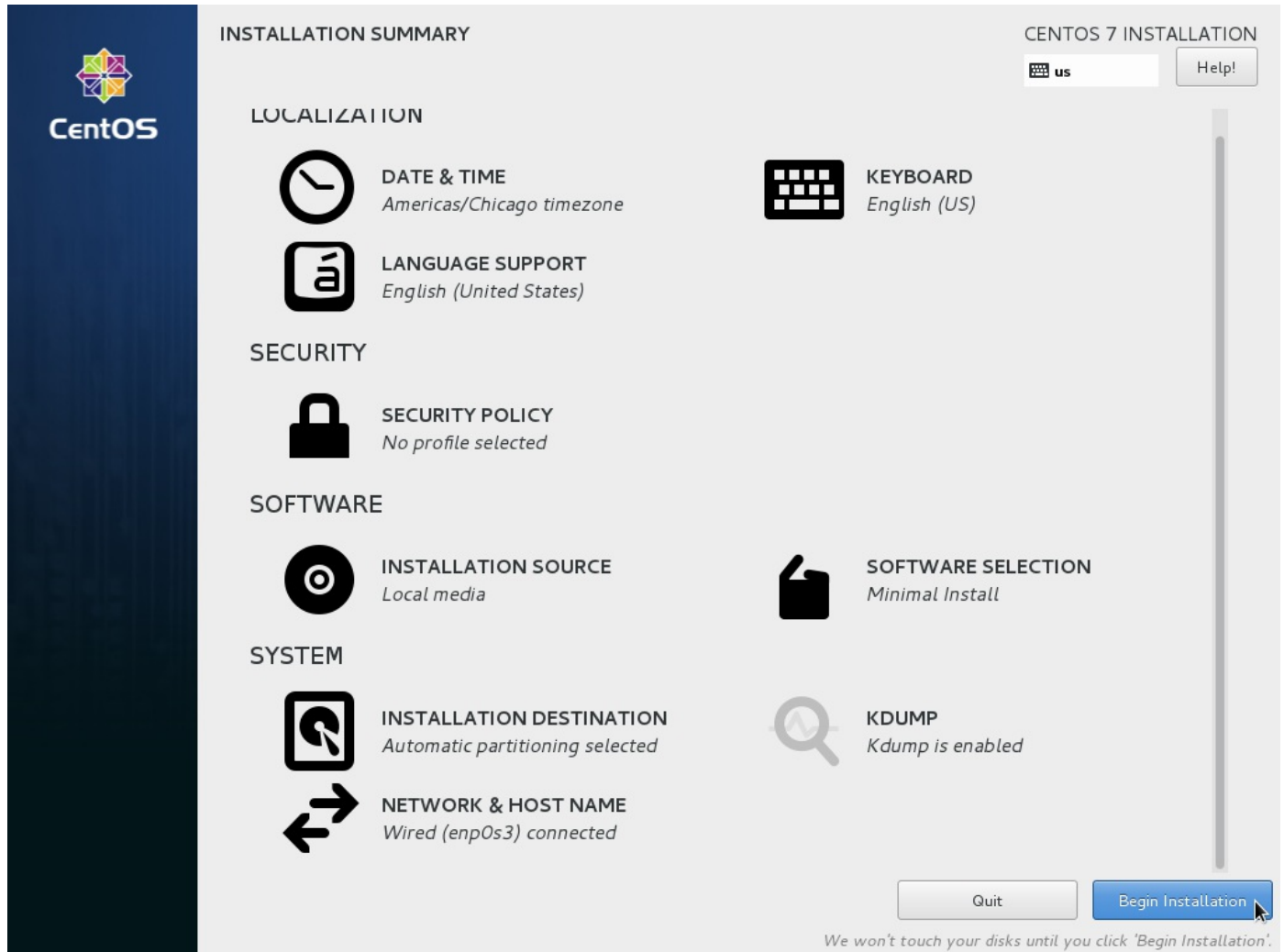
Encryption

☐ Encrypt my data. You'll set a passphrase next.

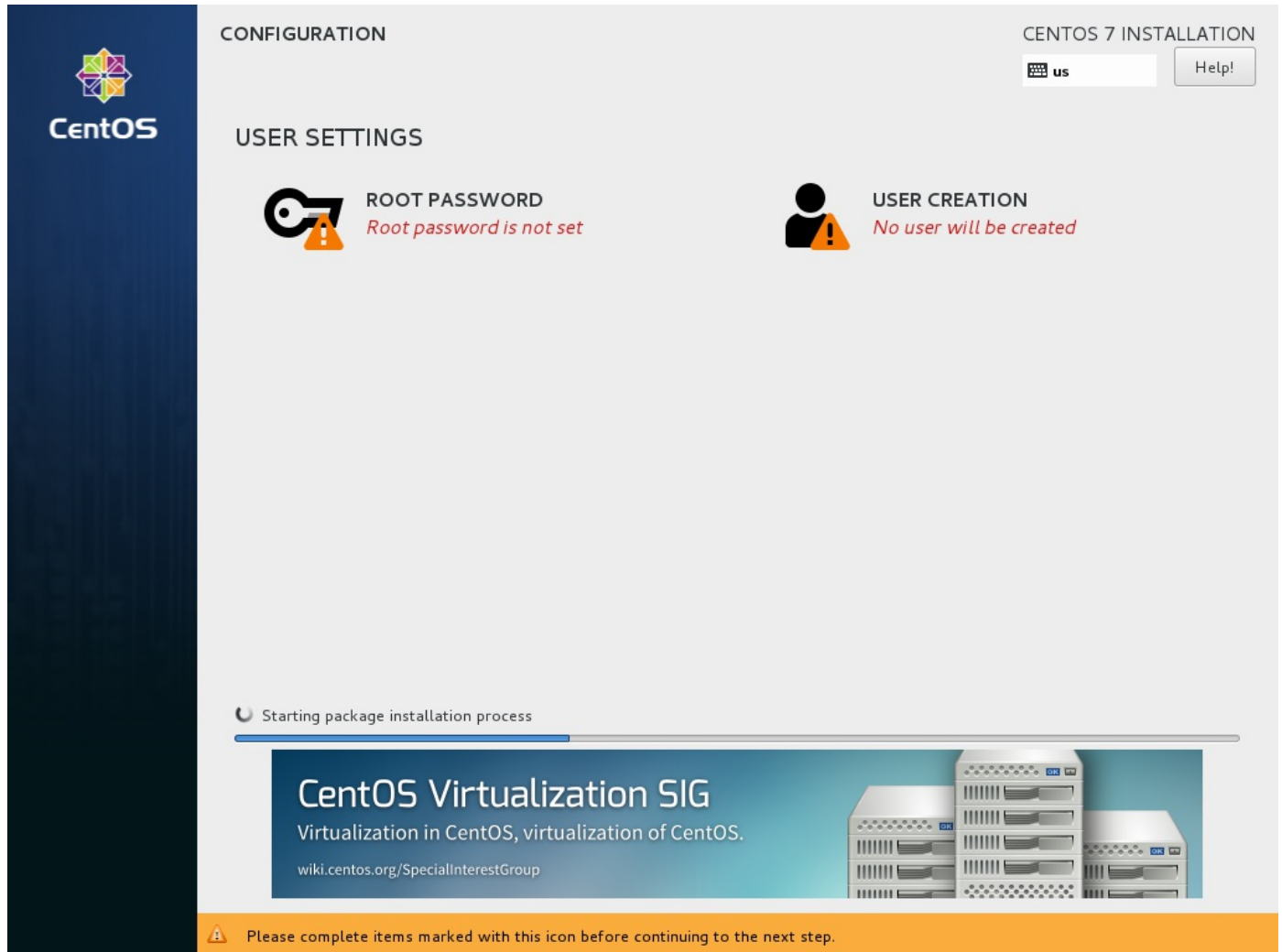
[Full disk summary and boot loader...](#)

1 disk selected; 20 GiB capacity; 992.5 KiB free

12. Back on the main install screen, click the Begin Installation button.



13. While the operating system is being installed, click "Root Password".



14. Enter the desired root user password in both boxes. Click the Done button.

ROOT PASSWORD

CENTOS 7 INSTALLATION

Done

us

Help!

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

Root Password:

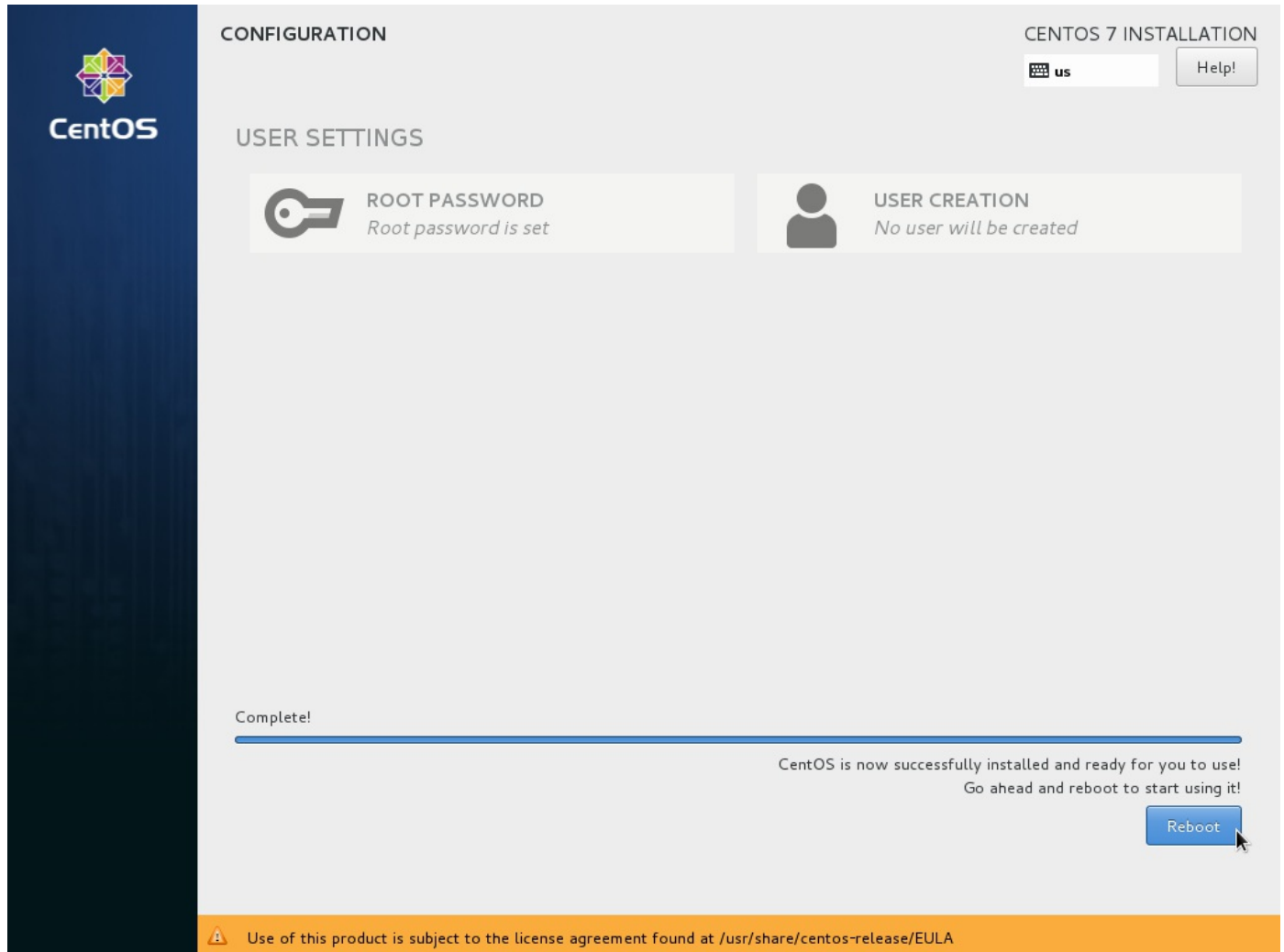
.....

Strong

Confirm:

.....

15. After the install has finished, click the Reboot button.



16. Make sure to remove the install disk from the CD drive

Prerequisites

Note that some of these dependencies are for the BIND application and others are useful utilities to aid in setup and not strictly dependencies.

1. Once the system has restarted to the login prompt, login with the username `root` and the password that was set during the install.
2. Install dependencies.

```
yum install screen vim bind-utils wget gcc automake net-tools checkpolicy  
policycoreutils-python perl-Net-DNS-Nameserver perl-IO-Socket-INET6
```

3. Add a non-root user, set the password, and allow the user to run commands via `sudo`. Replace **username** with the desired username.

```
useradd username  
passwd username  
echo "username ALL=(ALL) ALL" >> /etc/sudoers
```

4. Log into the non-root user account. Replace **username** with the chosen username. Enter the previously set password when prompted. After logging in, change into the non-root user's home directory.

```
su username -  
cd
```

Install BIND

All remaining steps should be done with the non-root user account. See [Prerequisites section](#) for logging into the non-root account.

Download and Verify

1. Go to the Internet Systems Consortium website in the downloads section: <https://www.isc.org/downloads/>. Click on the 'BIND' option under 'Downloads' to expand the available downloads. Click on the Download button for the 'Current-Stable' release.

Downloads

BIND					
BIND SOFTWARE VERSION	STATUS	DOWNLOAD	DOCUMENTATION	LATEST RELEASE DATE / NOTES	EOL DATE
9.10.4-P2	Current-Stable	Download	BIND 9.10 ARM	July 2016 / Release Notes (HTML, PDF)	TBA

2. In the popup box,