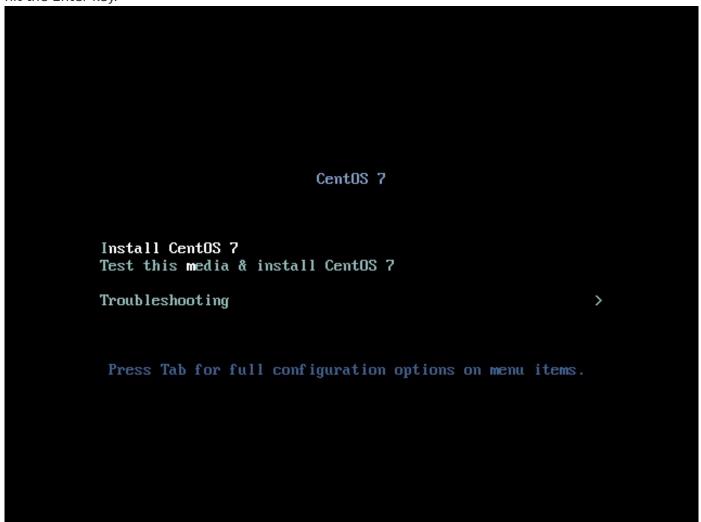
Installing BIND 9 DNS Server on CentOS 7

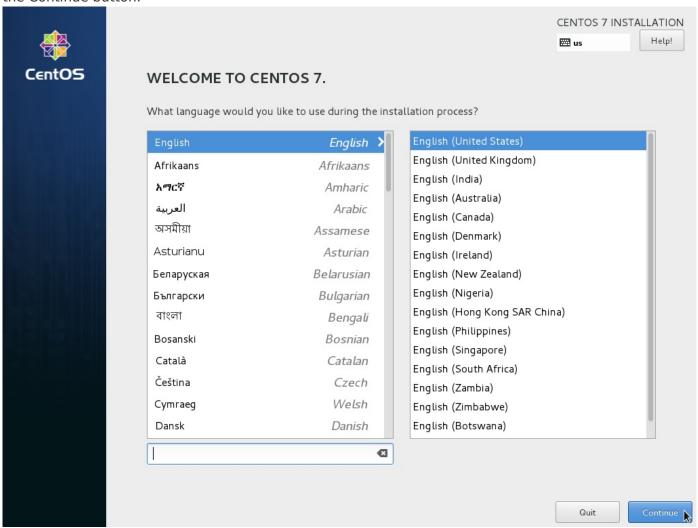
This guide assumes the use of BIND v9.10.4-P2 (the most current version at the time of writing) and CentOS 7 minimal install. Any other versions of software or distributions may have different dependencies, options, or commands.

Install CentOS 7

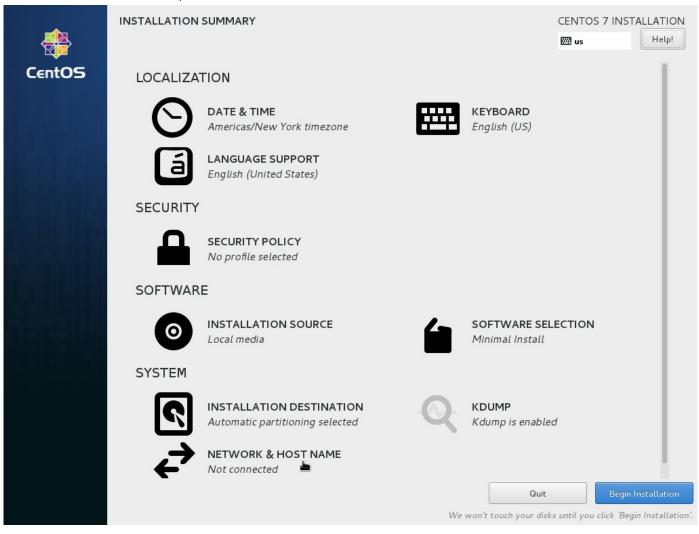
- 1. Start the machine with a CentOS install DVD inserted. Select the CD drive as the boot device if necessary.
- 2. When the CentOS install DVD boots, select "Install CentOS 7" from the menu using the arrow keys and hit the Enter key.



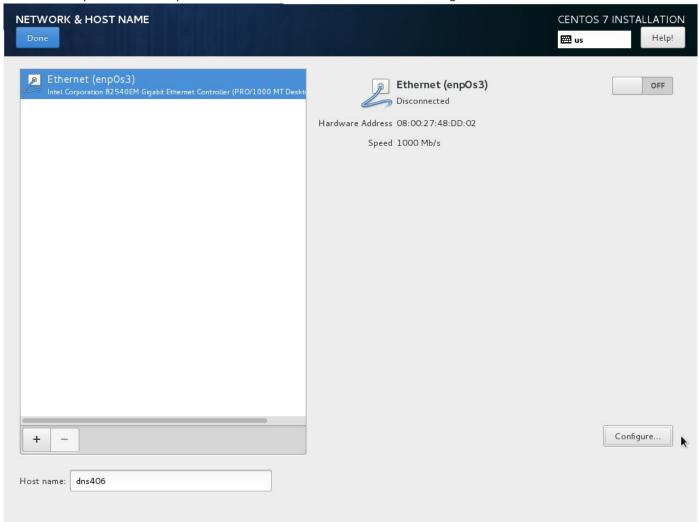
3. After the installer loads, make sure that "English (United States)" is selected as the language and click the Continue button.



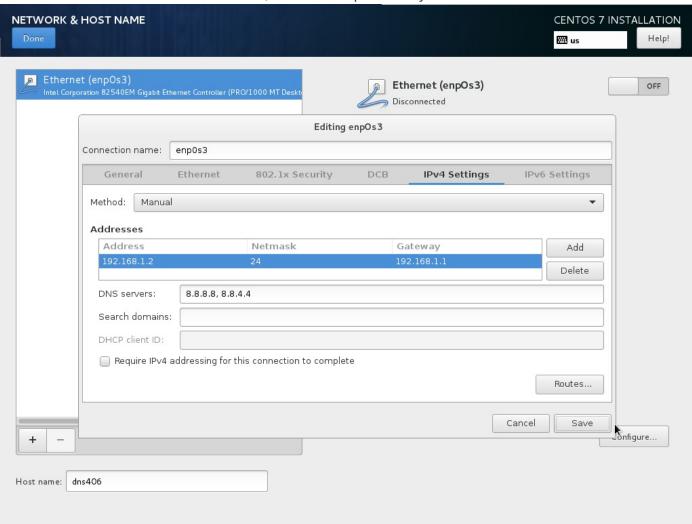
4. On the main install screen, click "Network & Host Name"



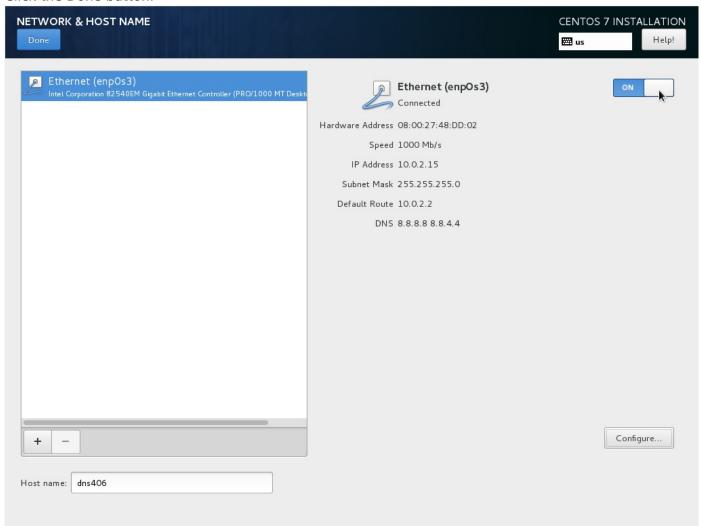
5. Enter the desired hostname in the "Host name" box. If the computer should use DHCP instead of a static IP, skip the next step. If a static IP is needed, click the "Configure" button.



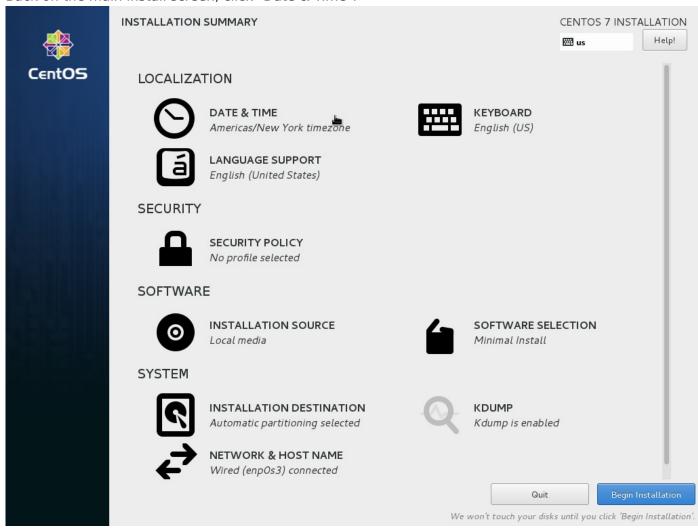
6. To configure the static IP, select the "IPv4 Settings" tab, select "Manual" from the drop-down menu, and click the Add button. Enter the desired IP address, netmask (or CIDR mask), and gateway. List the DNS servers to use in the "DNS Servers" box, each one separated by commas. Click the Save button.



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.



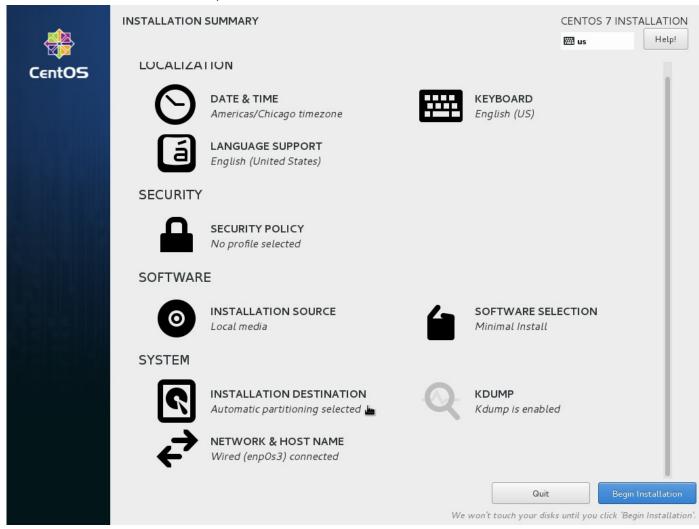
8. Back on the main install screen, click "Date & Time".



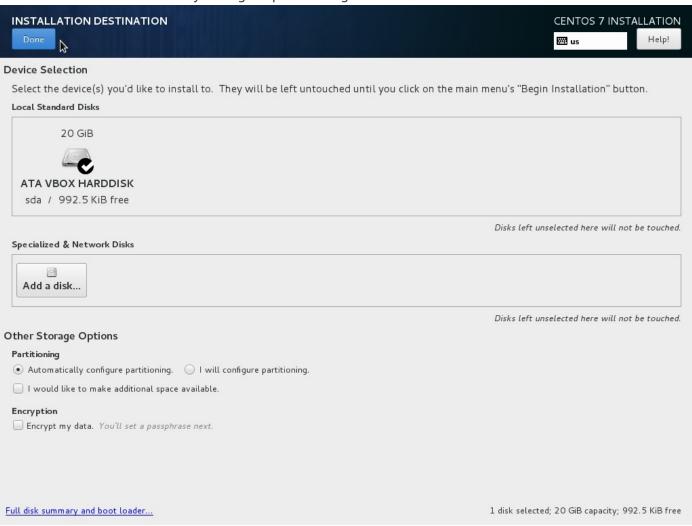
9. Select the appropriate time zone. For US Central time, select "Americas/Chicago". Make sure the the "Network Time" in the upper right is set to "On". Click the Done button.



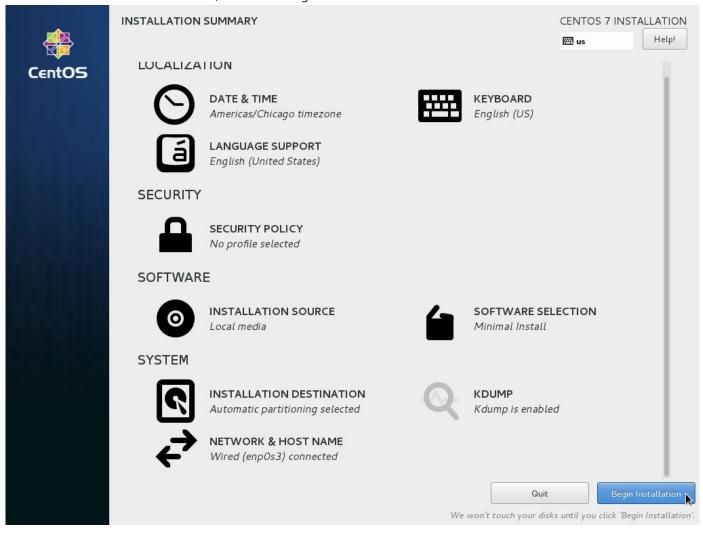
10. Back on the main install screen, click "Installation Destination".



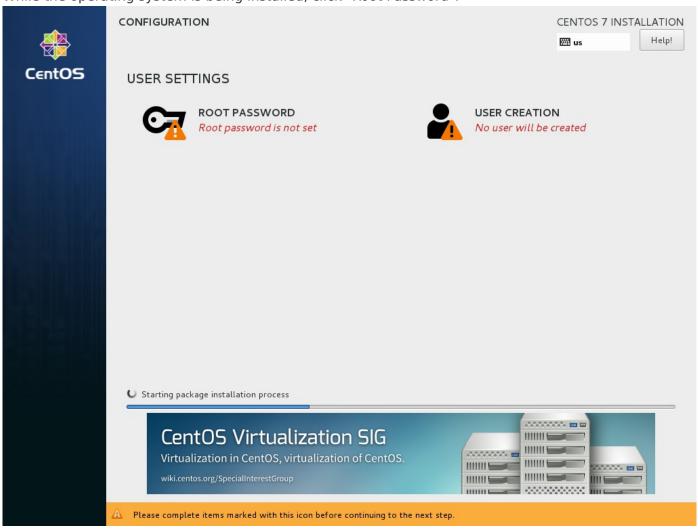
11. Make sure that "Automatically configure partitioning" is selected. Click the Done button.



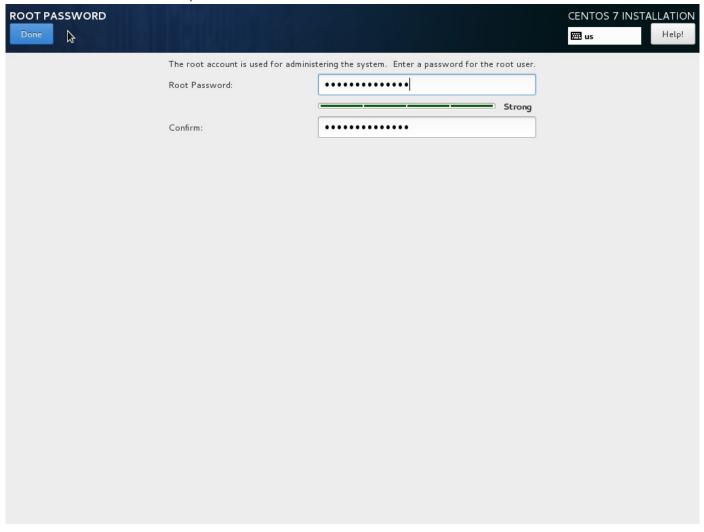
12. Back on the main install screen, click the Begin Installation button.



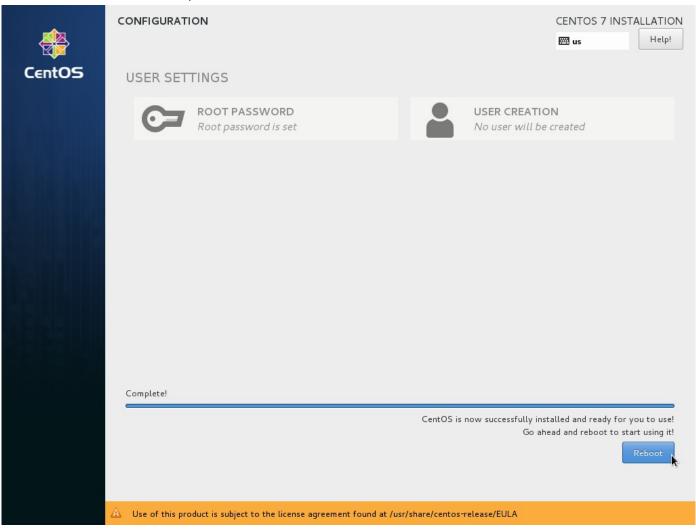
13. While the operating system is being installed, click "Root Password".



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



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. Update the system

yum update

4. After the system is updated, reboot the system.

reboot

- 5. When the system has finished restarting, log back in as the root user.
- 6. 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
```

7. 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 dowloads 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



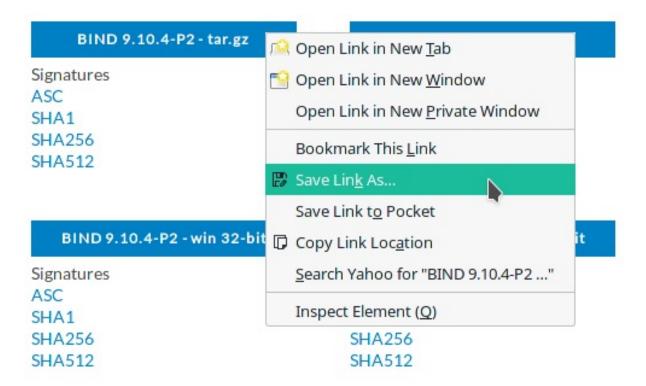
2. In the popup box, right click on the tar.gz download box and click 'Save Link As' to copy the file URL to the clipboard.

Thank you for Downloading ISC Software



Get BIND Support Subscription

Thank you for downloading ISC's Open Source Software!



3. On the command line of the CentOS 7 server, use wget to download the file. Paste the file URL previously copied where **file-url** is in the command below.

```
wget file-url -0 bind.tar.gz
```

4. In the same popup box where the tar.gz file URL was copied on the ISC website, also copy the URL of the 'SHA512' file listed under the tar.gz box.

5. On the command line of the CentOS 7 server, use wget to download the 'SHA512' file. Paste the file URL previously copied where **file-url** is in the command below.

```
wget file-url -0 bind.sha512.asc
```

6. Import the ISC GPG key to verify the downloaded file.

```
gpg --keyserver pgp.mit.edu --search-keys codesign@isc.org
```

Select the current signing key (the one that is not expired) by typing the number and hitting Enter.

```
gpg: directory `/home/username/.gnupg' created
gpg: new configuration file `/home/username/.gnupg/gpg.conf' created
gpg: WARNING: options in `/home/username/.gnupg/gpg.conf' are not yet active during
this run
gpg: keyring `/home/username/.gnupg/secring.gpg' created
gpg: keyring `/home/username/.gnupg/pubring.gpg' created
gpg: searching for "codesign@isc.org" from hkp server pgp.mit.edu
(1)    Internet Systems Consortium, Inc. (Signing key, 2015-2016) <codesign@i</pre>
           2048 bit RSA key 911A4C02, created: 2014-12-02, expires: 2017-01-31
         Internet Systems Consortium, Inc. (Signing key, 2013) <codesign@isc.or
(2)
           2048 bit RSA key 189CDBC5, created: 2013-01-31, expires: 2015-01-31
(expired)
         Internet Systems Consortium, Inc. (Signing key, 2012) (http://www.isc.
(3)
           2048 bit RSA key C96B350A, created: 2011-10-27, expires: 2013-02-01
(expired)
Keys 1-3 of 3 for "codesign@isc.org". Enter number(s), N)ext, or Q)uit > 1
gpg: requesting key 911A4C02 from hkp server pgp.mit.edu
gpg: /home/username/.gnupg/trustdb.gpg: trustdb created
gpg: key 911A4C02: public key "Internet Systems Consortium, Inc. (Signing key, 2015-
2016) <codesign@isc.org>" imported
gpg: no ultimately trusted keys found
gpg: Total number processed: 1
                     imported: 1 (RSA: 1)
gpg:
```