



**GLOBAL LEADER IN  
BROADCAST QUALITY  
LIVE VIDEO OVER IP**

# **Zixi Installation Guide**

Software Version 14  
Document Version DOC18-540-0010  
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*\* See back for additional licensing information*

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# Introduction

This Installation Guide includes installation procedures for the following Zixi products on Linux and Windows environments:

- Zixi Feeder
- Zixi Broadcaster
- Zixi Receiver



You can also install Zixi products in a Docker container. For an explanation of how to build and use Docker containers to deploy Zixi products, see [HOW TO USE ZIXI BROADCASTERS/FEEDERS/RECEIVERS IN DOCKER CONTAINERS](#).

## Network Settings

The following ports must be opened on your Firewall(s) for inbound and outbound traffic as described below:

### Zixi Feeder Network Settings

Port	Type	Direction	Description
2088	UDP	Outbound	Feeder push to Broadcaster, Zixi protocol
7088	UDP	Outbound	Feeder push to Broadcaster, Zixi protocol with DTLS
80/443	TCP	Outbound	Outbound + return - Zixi License server - license.zixi.com - 52.72.218.41 - 34.195.97.223
1935	TCP	Inbound	Encoder push to Feeder, RTMP protocol
4200	TCP	Inbound	Web management UI, HTTP protocol
53	DNS	Outbound	Outbound + return - communication to license server, Broadcaster host name resolution

### Zixi Broadcaster Network Settings

Port	Type	Direction	Description
2088	UDP	Inbound	Feeder push to Broadcaster, Zixi protocol

## Introduction

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Port	Type	Direction	Description
7088	UDP	Inbound	Feeder push to Broadcaster, Zixi protocol with DTLS
2077	UDP	Inbound	Receiver pull from Broadcaster, Zixi protocol
7077	UDP	Inbound	Receiver pull from Broadcaster, Zixi protocol with DTLS
1935	TCP	Inbound	Encoder push to Broadcaster, RTMP protocol
1935	TCP	Outbound	Broadcaster push to CDN or RTMP server, RTMP protocol
7777	TCP	Inbound	HTML5 video player or CDN pull from Broadcaster, HTTP streaming protocol - HLS or DASH
4444	TCP	Inbound	Web management UI, HTTP protocol
80/443	TCP	Outbound	Outbound + return - Zixi License server - license.zixi.com - 52.72.218.41 - 34.195.97.223
53	DNS	Outbound	Outbound + return - communication to license server, Broadcaster/Feeder/Receiver host name resolution

## Zixi Receiver Network Settings

Port	Type	Direction	Description
2077	UDP	Outbound	Receiver pull from Broadcaster, Zixi protocol
7077	UDP	Outbound	Receiver pull from Broadcaster, Zixi protocol with DTLS
4300	TCP	Inbound	Web management UI, HTTP protocol
80/443	TCP	Outbound	Outbound + return - Zixi License server - license.zixi.com - 52.72.218.41 - 34.195.97.223
53	DNS	Outbound	Outbound + return - communication to license server, Broadcaster host name resolution

## ZEN Master Network Settings

The following network settings are required to connect the various Zixi products to ZEN Master.

### Zixi Feeder – ZEN Master Network Settings

Type	Port	Direction	Description
TCP	80/443	Outbound + Return	
SSH	22	Outbound + Return	ZEN Master to <customer>.io.zixi.com
UDP	2077 / 2088	Outbound + Return	Stream authentication to <customer>.io.zixi.com
UDP	7077 / 7088	Outbound + Return	DTLS communication to customer.io.zixi.com

### Zixi Broadcaster – ZEN Master Network Settings

Type	Port	Direction	Description
TCP	80/443	Outbound + Return	ZEN Master Authentication Servers: - 18.210.103.157 - 23.20.44.73 - 34.200.88.233 - 34.238.1.65 - 35.170.111.151 - 52.4.9.203 Or <customer>.zen.zixi.com
SSH	22	Outbound + Return	ZEN Master to <customer>.io.zixi.com Or <customer>.zen.zixi.com
UDP	2077 / 2088	Outbound + Return	Stream authentication to <customer>.io.zixi.com Or <customer>.zen.zixi.com
UDP	7077 / 7088	Outbound + Return	DTLS communication to customer.io.zixi.com Or <customer>.zen.zixi.com

### Zixi Receiver – ZEN Master Network Settings

Type	Port	Direction	Description
TCP	80/443	Outbound + Return	
SSH	22	Outbound + Return	ZEN Master to <customer>.io.zixi.com
UDP	2077 / 2088	Outbound + Return	Stream authentication to <customer>.io.zixi.com
UDP	7077 / 7088	Outbound + Return	DTLS communication to customer.io.zixi.com



# Installing Zixi Products

All Zixi Products (Feeder, Broadcaster and Receiver) can be installed and run on either Linux or Windows environments. The following sections describe the system requirements and installation procedures for each type of OS.

For instructions on how to install CentOS 7.x, see - [Installing CentOS 7](#)

## Installing Zixi Products on Linux

For instructions on how to install CentOS 7.x, see - [Installing CentOS 7](#)

### ➔ To install Zixi products on a Linux environment:

1. Check that you have credentials to login to the Zixi Customer Portal. If you don't have them, please contact *Zixi Support* at [support@zixi.com](mailto:support@zixi.com).
2. Check that your system meets the system requirements, see [SYSTEM REQUIREMENTS - LINUX](#).
3. Download and extract the installation file(s) using the procedures described in [DOWNLOADING AND EXTRACTING THE INSTALLATION FILE](#).
4. Activate the license through the web-based management UI using the procedures described in [ACTIVATING THE LICENSE](#).

## System Requirements - Linux

### Hardware

- CPU: Intel i3 dual core CPU or above
- RAM: 2 GB RAM (minimum)
- Networking: 2 x 1GB network card

### Operating System

- Zixi Broadcaster - 64-bit CentOS 7.x or an equivalent Linux distribution with glibc 2.14+
- Zixi Feeder and Receiver - Linux CentOS 6/7, must be a 64-bit distribution
- Linux Ubuntu 12 or later, 64-bit
- Linux Debian 7 or later, 64-bit
- Non-GUI server distribution recommended due to conflicts with NetworkManager GUI application.

### Network Management

- Feeder GUI: TCP 4200
- Broadcaster GUI: TCP 4444

## Installing Zixi Products

- Receiver GUI: TCP 4300
- SSH Remote Tunnel: If enabled, the device reaches out on port 22 to the remote access server.

## Downloading and Extracting the Installation File - Linux

All Zixi software covered by your license agreement is available for download on your Zixi Customer Portal. You can either download the files directly to your local machine or you can use a CLI command or API call to install it on a remote server. The procedures for downloading and extracting all Zixi products (Feeder, Broadcaster and Receiver) are identical.



Make sure you are logged in as a Root user. If you are not logged in as a Root user, use the "su" command.

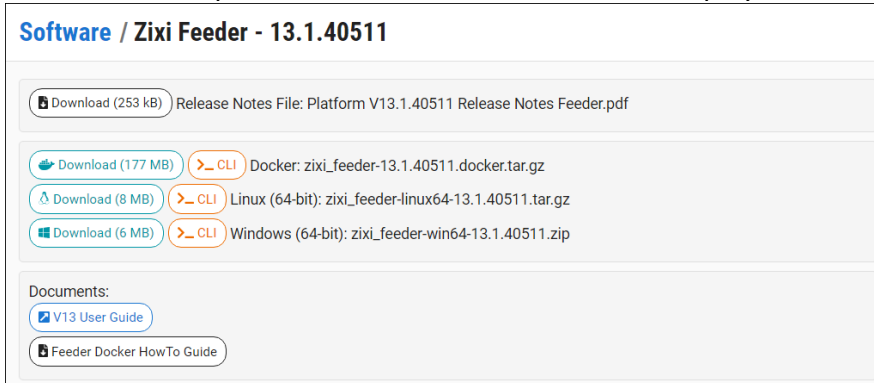
### ➔ To download and extract the relevant file:

1. Access the Zixi Customer Portal at <https://portal.zixi.com>.
2. Log in using your *Username* and *Password*.
3. In the Main Navigation, click **Software**.
4. At the top of the Software screen, click on the button of the product that you would like to install.

The screenshot shows the Zixi Customer Portal interface. The top navigation bar includes the Zixi logo, 'CUSTOMER PORTAL', and a user profile 'Eli Pielet' with a 'Logout' button. A sidebar on the left contains navigation links: Dashboard, Software, Documentation, Partners, License Keys, My Settings, Need Help?, and Zixi. The main content area is titled 'Software' and features a 'Table View' and 'Refresh' button. A green box highlights the product selection area, which includes buttons for 'Zixi Broadcaster', 'Zixi Feeder', 'Zixi Receiver', 'Zixi VLC Plugin', 'Zixi Video Accelerator Proxy', 'OBS Studio with Zixi Integration', 'Zixi Feeder for OBS Studio', 'Zixi Feeder for Wirecast', and 'Zixi Feeder/Receiver for MediaConnect'. Below this, the 'Zixi Broadcaster' product is selected, showing three versions: V. 14.0.40901 (Added Friday, October 9, 2020), V. 14.0.40554 (Added Wednesday, September 2, 2020), and V. 14.0.40530 (Added Monday, August 31, 2020). Each version has a 'Release Notes (File)' link and options for 'Linux (64-bit)' and 'Windows (64-bit)'.

The available software versions for the selected product (which are available for your account) are displayed.

- Click on the box of the version that you would like to install.  
The download options for the selected version are displayed.



**Software / Zixi Feeder - 13.1.40511**

Download (253 kB) Release Notes File: Platform V13.1.40511 Release Notes Feeder.pdf

Download (177 MB) CLI Docker: zixi\_feeder-13.1.40511.docker.tar.gz

Download (8 MB) CLI Linux (64-bit): zixi\_feeder-linux64-13.1.40511.tar.gz

Download (6 MB) CLI Windows (64-bit): zixi\_feeder-win64-13.1.40511.zip

Documents:

V13 User Guide

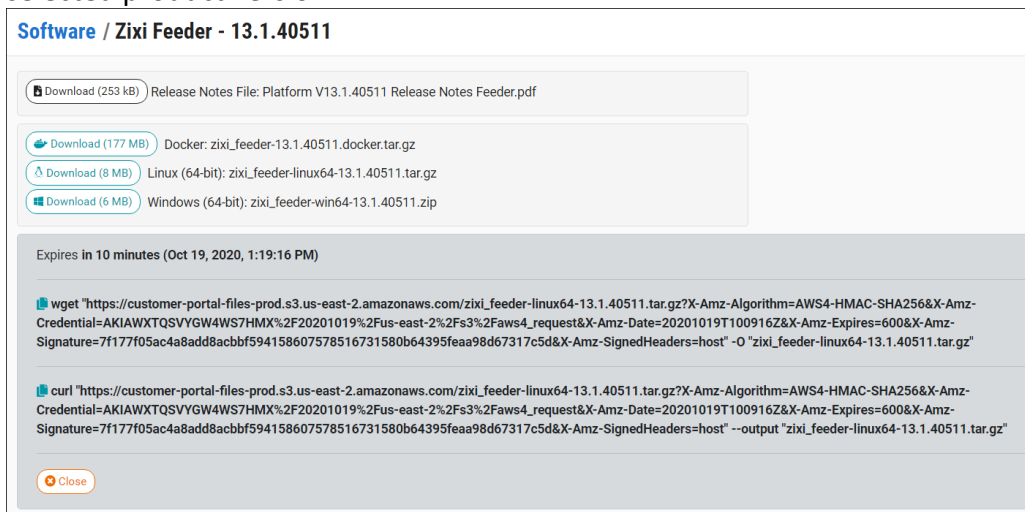
Feeder Docker HowTo Guide

- Create a Zixi folder by typing the following commands in the Linux console:

```
# mkdir /zixi
# cd /zixi
```

- Download the file as follows:

- If you would like to install the product on your local machine (laptop/desktop), click on the **Linux Download** button and navigate to the location where you would like to save the file.
- If you would like to install the product on a remote server, click on the **Linux CLI** button. The complete “wget” CLI command and “curl” API call are shown, containing all of the required information about the installation file for the selected product version.



**Software / Zixi Feeder - 13.1.40511**

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Download (177 MB) Docker: zixi\_feeder-13.1.40511.docker.tar.gz

Download (8 MB) Linux (64-bit): zixi\_feeder-linux64-13.1.40511.tar.gz

Download (6 MB) Windows (64-bit): zixi\_feeder-win64-13.1.40511.zip

Expires in 10 minutes (Oct 19, 2020, 1:19:16 PM)

wget "https://customer-portal-files-prod.s3.us-east-2.amazonaws.com/zixi\_feeder-linux64-13.1.40511.tar.gz?X-Amz-Algorithm=AWS4-HMAC-SHA256&X-Amz-Credential=AKIAWXTQSVYGVW4WS7HMX%2F20201019%2Fus-east-2%2Fs3%2Faws4\_request&X-Amz-Date=20201019T100916Z&X-Amz-Expires=600&X-Amz-Signature=7f177f05ac4a8add8acbf594158607578516731580b64395feaa98d67317c5d&X-Amz-SignedHeaders=host" -O "zixi\_feeder-linux64-13.1.40511.tar.gz"

curl "https://customer-portal-files-prod.s3.us-east-2.amazonaws.com/zixi\_feeder-linux64-13.1.40511.tar.gz?X-Amz-Algorithm=AWS4-HMAC-SHA256&X-Amz-Credential=AKIAWXTQSVYGVW4WS7HMX%2F20201019%2Fus-east-2%2Fs3%2Faws4\_request&X-Amz-Date=20201019T100916Z&X-Amz-Expires=600&X-Amz-Signature=7f177f05ac4a8add8acbf594158607578516731580b64395feaa98d67317c5d&X-Amz-SignedHeaders=host" --output "zixi\_feeder-linux64-13.1.40511.tar.gz"

Close

- Copy the desired command and submit it via the CLI or API as desired.



The “wget” and “curl” commands expire after 10 minutes, at which time they need to be refreshed.

## Installing Zixi Products

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8. Extract the installation file by typing the following command:

```
# tar xvf <zixi_product>-<version_number>.tar.gz  
# cd <zixi_product>
```

9. Run the installation script file by typing the following command:

```
#./installMe.sh
```

10. Run prerequisites script file by typing the following command:

```
#./prerequisites.sh
```

Following the completion of the installation, proceed to [ACTIVATING THE LICENSE](#).

## Installing Zixi Products on Windows

### ➔ To install Zixi products on a Windows environment:

1. Check that you have credentials to sign in to your account on the Zixi Customer Portal. If you don't have them, please contact *Zixi Support* at [support@zixi.com](mailto:support@zixi.com).
2. Check that your system meets the system requirements, see [SYSTEM REQUIREMENTS - WINDOWS](#).
3. Download and extract the installation file(s) using the procedures described in [DOWNLOADING AND RUNNING THE INSTALLATION](#).
4. Activate the license through the web-based management UI using the procedures described in [ACTIVATING THE LICENSE](#).

## System Requirements - Windows

### Hardware

- Recommended processor: Intel® Core™ i3 dual-core or quad-core
- Memory requirements: 2GB (minimum)
- Network interface cards: Minimum of two gigabit Ethernet adapters are required

### Operating System

- Windows® Server 2012/2016/2019, 32-bit or 64-bit
- Windows 8/10, 32-bit or 64-bit

Windows releases are supported per the Microsoft support schedule. Server OS is preferred for 24/7. Desktop OS, if used, should be configured to disable auto updates and prefer background service priority.

### Network Management

- Feeder GUI: TCP 4200
- Broadcaster GUI: TCP 4444
- Receiver GUI: TCP 4300

## Installing Zixi Products

- SSH Remote Tunnel: If enabled, the device reaches out on port 22 to the remote access server.

### Network Streaming

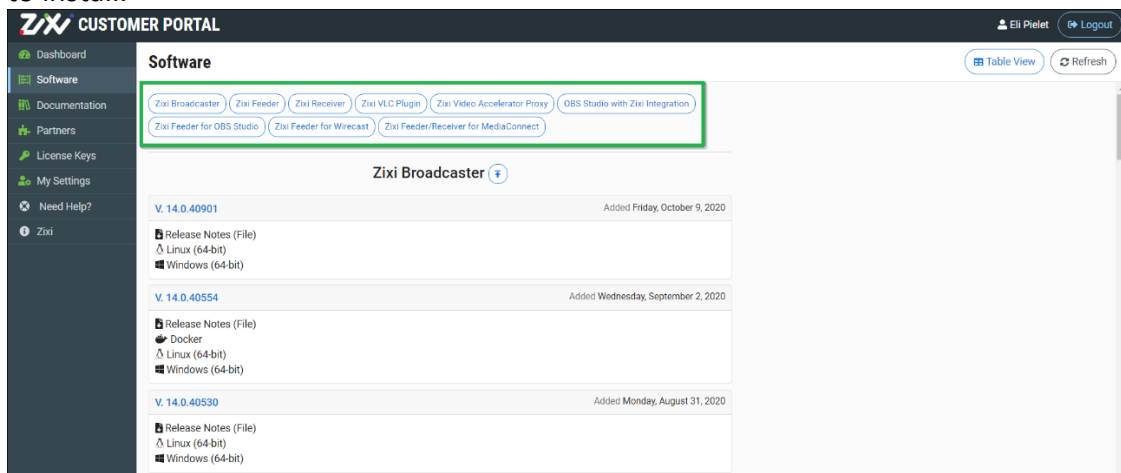
- See [Network Settings](#)

## Downloading and Running the Installation

All Zixi software covered by your license agreement is available for download on your Zixi Customer Portal. You can either download the ZIP file directly to your local machine or you can use a CLI command or API call to install it on a remote server. The procedures for downloading and extracting all Zixi products (Feeder, Broadcaster and Receiver) are identical.

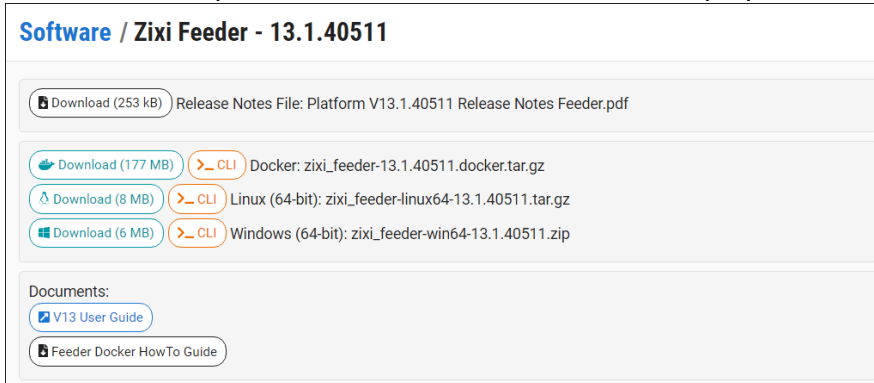
### ➔ To download and run the installation:

1. Access the Zixi Customer Portal at <https://portal.zixi.com>.
2. Log in using your *Username* and *Password*.
3. In the Main Navigation, click **Software**.
4. At the top of the Software screen, click on the button of the product that you would like to install.



The available software versions for the selected product (which are available for your account) are displayed.

- Click on the box of the version that you would like to install.  
The download options for the selected version are displayed.



**Software / Zixi Feeder - 13.1.40511**

Download (253 kB) Release Notes File: Platform V13.1.40511 Release Notes Feeder.pdf

Download (177 MB) CLI Docker: zixi\_feeder-13.1.40511.docker.tar.gz

Download (8 MB) CLI Linux (64-bit): zixi\_feeder-linux64-13.1.40511.tar.gz

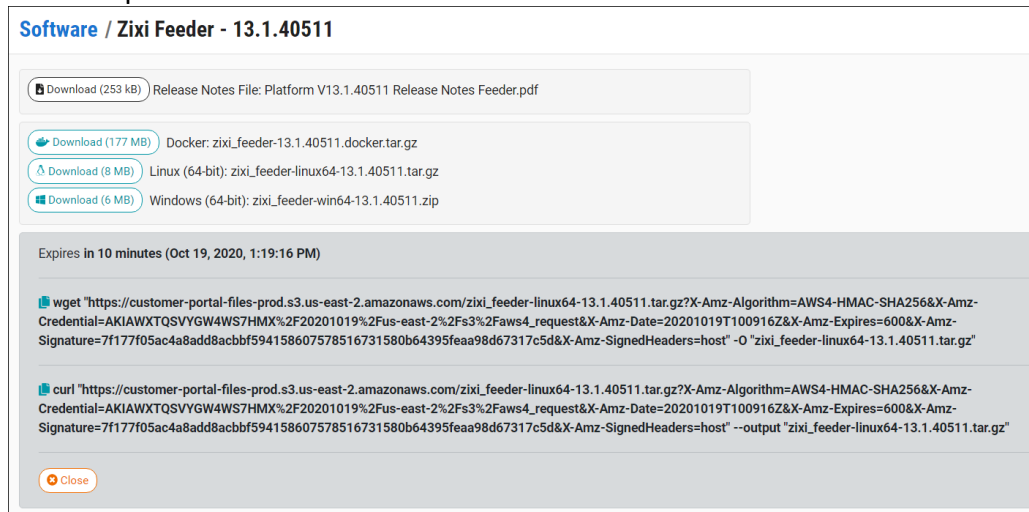
Download (6 MB) CLI Windows (64-bit): zixi\_feeder-win64-13.1.40511.zip

Documents:

V13 User Guide

Feeder Docker HowTo Guide

- Download the file as follows:
  - If you would like to install the product on your local machine (laptop/desktop), click on the **Windows Download** button and navigate to the location where you would like to save the file.
  - If you would like to install the product on a remote server, click on the **Windows CLI** button. The complete “wget” CLI command and “curl” API call are shown, containing all of the required information about the installation file for the selected product version.



**Software / Zixi Feeder - 13.1.40511**

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Download (8 MB) Linux (64-bit): zixi\_feeder-linux64-13.1.40511.tar.gz

Download (6 MB) Windows (64-bit): zixi\_feeder-win64-13.1.40511.zip

Expires in 10 minutes (Oct 19, 2020, 1:19:16 PM)

```
wget "https://customer-portal-files-prod.s3.us-east-2.amazonaws.com/zixi_feeder-linux64-13.1.40511.tar.gz?X-Amz-Algorithm=AWS4-HMAC-SHA256&X-Amz-Credential=AKIAWXTQSVYVGW4WS7HMX%2F20201019%2Fus-east-2%2Fs3%2Faws4_request&X-Amz-Date=20201019T100916Z&X-Amz-Expires=600&X-Amz-Signature=7f177f05ac4a8add8acbf594158607578516731580b64395feaa98d67317c5d&X-Amz-SignedHeaders=host" -O "zixi_feeder-linux64-13.1.40511.tar.gz"
```

```
curl "https://customer-portal-files-prod.s3.us-east-2.amazonaws.com/zixi_feeder-linux64-13.1.40511.tar.gz?X-Amz-Algorithm=AWS4-HMAC-SHA256&X-Amz-Credential=AKIAWXTQSVYVGW4WS7HMX%2F20201019%2Fus-east-2%2Fs3%2Faws4_request&X-Amz-Date=20201019T100916Z&X-Amz-Expires=600&X-Amz-Signature=7f177f05ac4a8add8acbf594158607578516731580b64395feaa98d67317c5d&X-Amz-SignedHeaders=host" --output "zixi_feeder-linux64-13.1.40511.tar.gz"
```

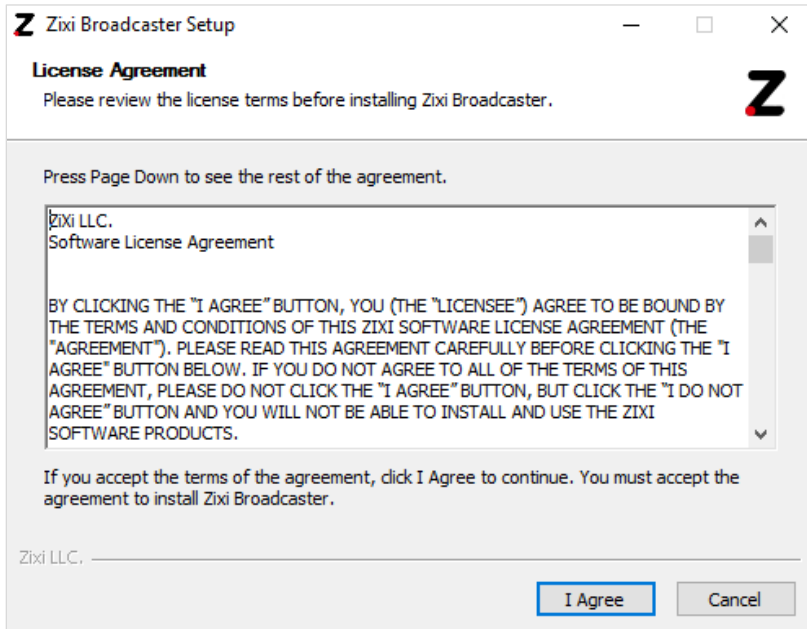
Close

- Copy the desired command and submit it via the CLI or API as desired.

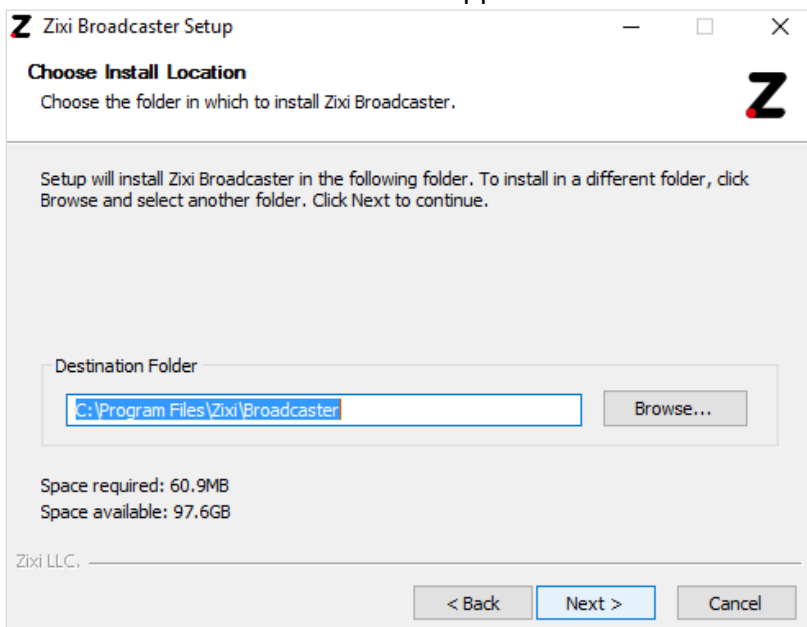


The “wget” and “curl” commands expire after 10 minutes, at which time they need to be refreshed.

7. Double-click on the Zixi Broadcaster installation file. The **License Agreement** window appears.



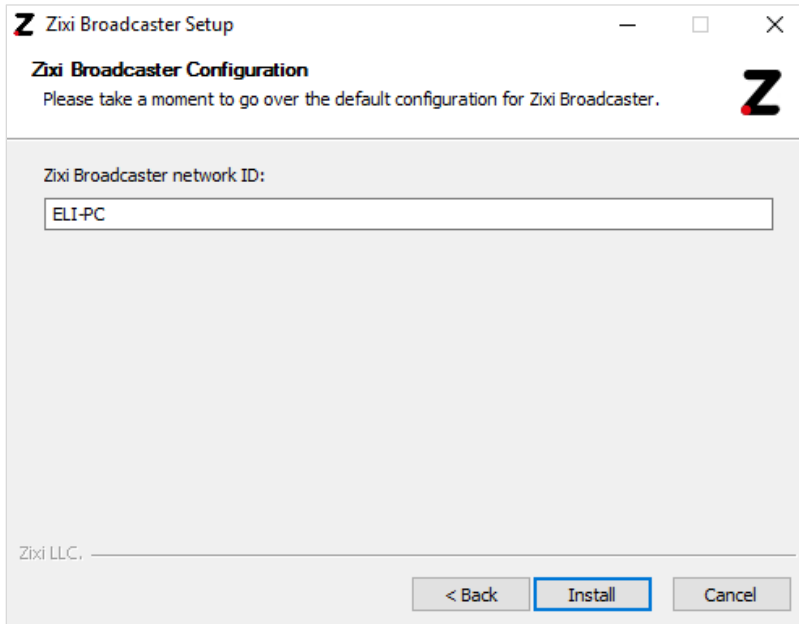
8. After reading the license agreement, click **I Agree**. The **Installation Location** window appears.



9. Select the folder in which the Broadcaster files will be installed. The default location is in the Zixi folder which is in the Program Files folder.

10. Click **Next**.

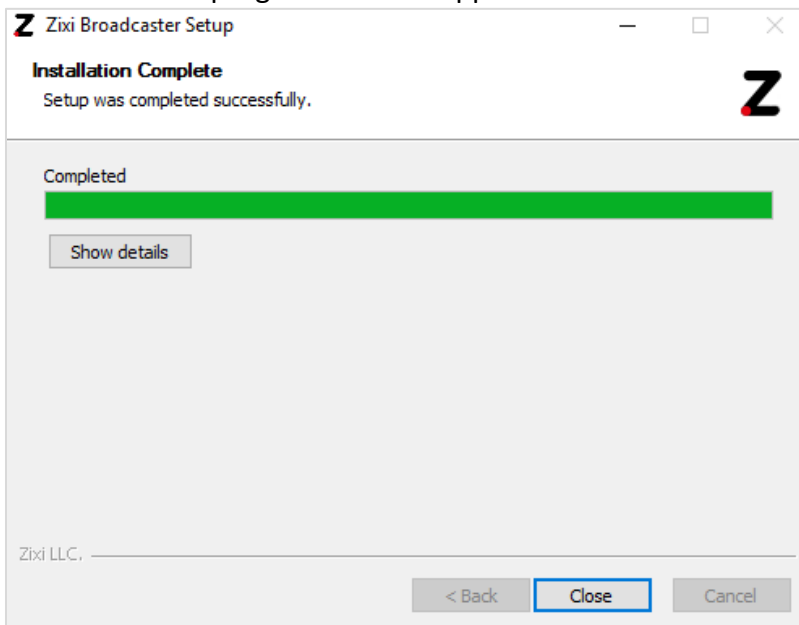
The **Broadcaster ID** window appears.



11. Enter a name for the **Broadcaster ID**. The default name is the local host.

12. Click **Install**.

The installation progress window appears.



13. When the installation is complete, click **Close**.

The Broadcaster Login page opens in your browser.

Following the completion of the installation, proceed to [ACTIVATING THE LICENSE](#).



# Activating the License

Activation of the licenses is performed in the relevant web-based management UI. For all Zixi products (Feeder, Broadcaster and Receiver), the installation can be done online using a *License Key* or offline using a *License File*.



To activate Zixi license online, ensure connection to URL: [license.zixi.com](http://license.zixi.com) via TCP port 80. If you cannot open this connection, you can activate your license through a "License File". To obtain a license file, please contact *Zixi Support* at [support@zixi.com](mailto:support@zixi.com).

## Zixi Feeder

When logging in to a Zixi Feeder for the first time, you must activate the Zixi license.

### Logging in to Zixi Feeder

#### ➔ To log in to Zixi Feeder:

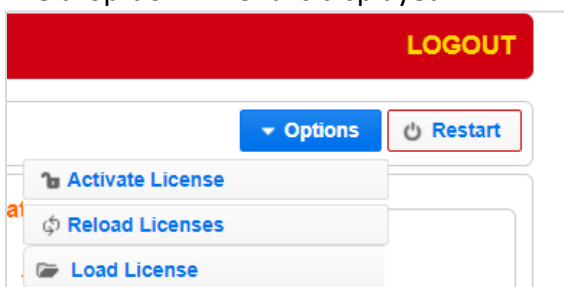
1. In your web browser, navigate to <http://localhost:4200>.  
A user authentication window opens.
2. In the **User Name** field, enter '**admin**'.
3. In the **Password** field, enter '**1234**'.
4. Click **OK**.  
The Feeder UI opens on the **Status** page.

### Online Activation (License Key)

The following procedure requires connectivity to the Internet. If you are not able to connect, you can activate the Feeder using the procedure described in [OFFLINE ACTIVATION \(LICENSE FILE\)](#).

#### ➔ To Activate the License online using a License Key:

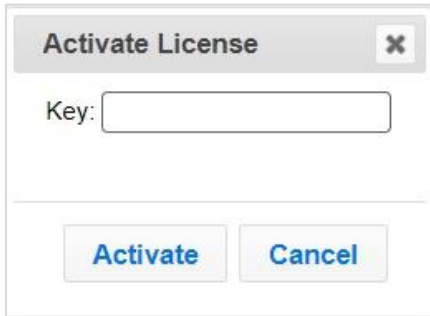
1. In the **Status** page of the Zixi Feeder UI, click **Options** in the menu bar.  
The drop-down menu is displayed.



## Activating the License

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2. Click **Activate License**.  
The **Activate License** window appears.



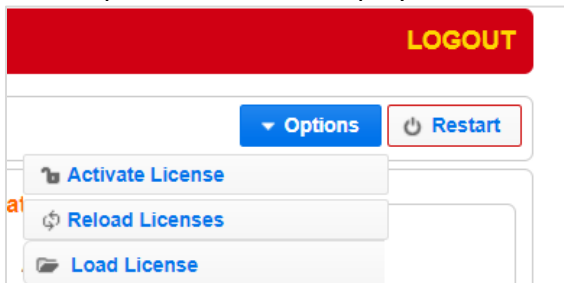
3. In the **Key** field, enter your Activation Key.
4. Click **Activate**.  
The Zixi Feeder is enabled.

## Offline Activation (License File)

If you want to activate your license without an internet connection, you can upload a *License File*. To obtain a License File, please contact *Zixi Support* at [support@zixi.com](mailto:support@zixi.com).

### ➔ To Load the License File:

1. In the **Status** page of the Zixi Feeder UI, click **Options** in the menu bar.  
The drop-down menu is displayed.



2. Click **Load License**.  
The directory of the local drive opens.
3. Navigate to the License File and click **Open**.  
A prompt window instructs you to Reload the license to activate the license.
4. Click again on **Options** and select **Reload Licenses** from the dropdown menu.  
The Zixi Feeder is enabled.

### Zixi Broadcaster

When logging in to a Zixi Broadcaster for the first time, you must activate the Zixi license.

#### Logging in to Zixi Broadcaster

➔ **To log in to Zixi Broadcaster:**

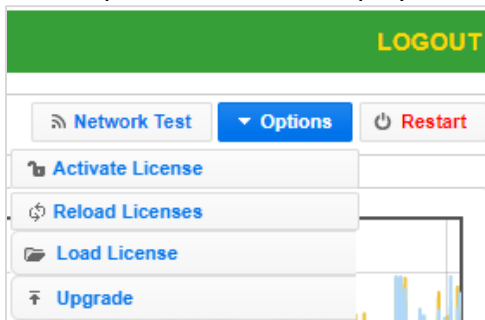
1. In your web browser, navigate to <http://localhost:4444>.  
A user authentication window opens.
2. In the **User Name** field, enter '**admin**'.
3. In the **Password** field, enter '**1234**'.
4. Click **OK**.  
The Broadcaster UI opens on the **Status** page.

#### Online Activation (License Key)

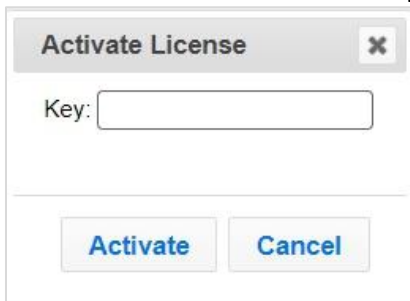
The following procedure requires connectivity to the Internet. If you are not able to connect, you can activate the Broadcaster using the procedure described in [OFFLINE ACTIVATION \(LICENSE FILE\)](#).

➔ **To Activate the License online using a License Key:**

1. In the **Status** page of the Zixi Broadcaster UI, click **Options** in the menu bar.  
The drop-down menu is displayed.



2. Click **Activate License**.  
The **Activate License** window appears.



3. In the **Key** field, enter your Activation Key.

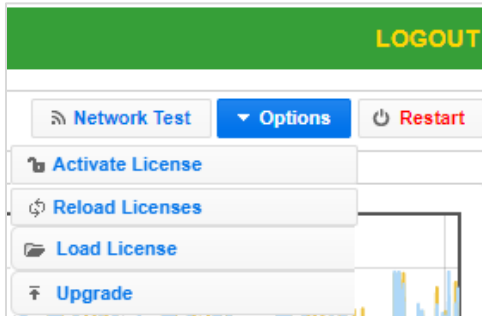
4. Click **Activate**.  
The Zixi Broadcaster is enabled.

### Offline Activation (License File)

If you want to activate your license without an internet connection, you can upload a License File. To obtain a license file, please contact *Zixi Support* at [support@zixi.com](mailto:support@zixi.com).

#### ➔ To Load the License File:

1. In the **Status** page of the Zixi Broadcaster UI, click **Options** in the menu bar.  
The drop-down menu is displayed.



2. Click **Load License**.  
The directory of the local drive opens.
3. Navigate to the License File and click **Open**.  
A prompt window instructs you to Reload the license to activate the license.
4. Click again on **Options** and select **Reload Licenses** from the dropdown menu.  
The Zixi Broadcaster is enabled.

## Zixi Receiver

When logging in to a Zixi Receiver for the first time, you must activate the Zixi license.

### Logging in to Zixi Receiver

#### ➔ To log in to Zixi Receiver:

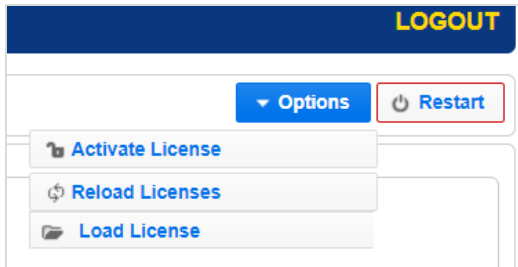
1. In your web browser, navigate to <http://localhost:4300>.  
A user authentication window opens.
2. In the **User Name** field, enter 'admin'.
3. In the **Password** field, enter '1234'.
4. Click **OK**.  
The Receiver UI opens on the **Status** page.

### Online Activation (License Key)

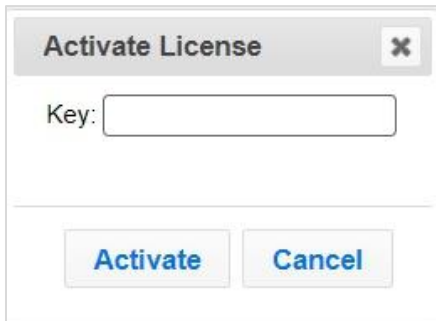
The following procedure requires connectivity to the Internet. If you are not able to connect, you can activate the Receiver using the procedure described in [OFFLINE ACTIVATION \(LICENSE FILE\)](#).

➔ **To Activate the License online using a License Key:**

1. In the **Status** page of the Zixi Receiver UI, click **Options** in the menu bar. The drop-down options menu is displayed.



2. Click **Activate License**. The **Activate License** window appears.



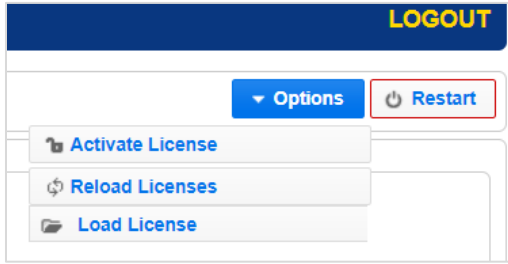
3. In the **Key** field, enter your Activation Key.
4. Click **Activate**. The Zixi Receiver is enabled.

### Offline Activation (License File)

If you want to activate your license without an internet connection, you can upload a license file. To obtain a license file, please contact *Zixi Support* at [support@zixi.com](mailto:support@zixi.com).

#### ➔ To Load the License File:

1. In the **Status** page of the Zixi Receiver UI, click **Options** in the menu bar. The drop-down options menu is displayed.



2. Click **Load License**. The directory of the local drive opens.
3. Navigate to the License File and click **Open**. A prompt window instructs you to Reload the license to activate the license.
4. Click again on **Options** and select **Reload Licenses** from the dropdown menu. The Zixi Receiver is enabled.

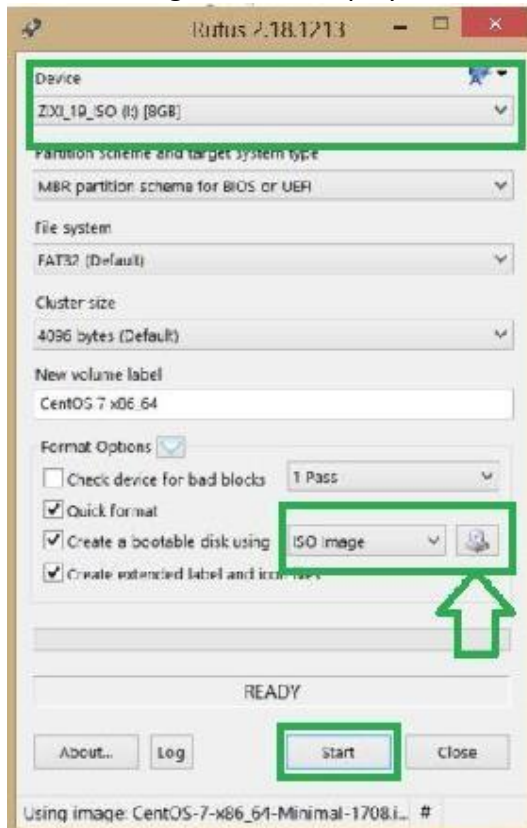
# Installing CentOS 7

The following instructions are designed to help you install CentOS 7.x. After installing the operating system, follow the instructions in the **Installing Zixi Products on Linux** section to complete the installation.

➔ **To install CentOS 7 on your computer:**

1. Download the “CentOS-7x86\_64-Minimal-1908.iso” file from the following link:  
[http://mirrors.seas.harvard.edu/centos/7.7.1908/isos/x86\\_64/](http://mirrors.seas.harvard.edu/centos/7.7.1908/isos/x86_64/)  
A list of additional mirrors can be found at  
[http://isoredirect.centos.org/centos/7/isos/x86\\_64/](http://isoredirect.centos.org/centos/7/isos/x86_64/)
2. Copy the downloaded file to a FAT 32 formatted USB thumb drive of good quality with at least 8 GB of space.
3. To create a bootable USB drive, download **Rufus** to your computer from the following link - <https://rufus.akeo.ie/>
4. Right-click on the **Rufus** icon and choose **Run as Administrator**.

The following screen is displayed:



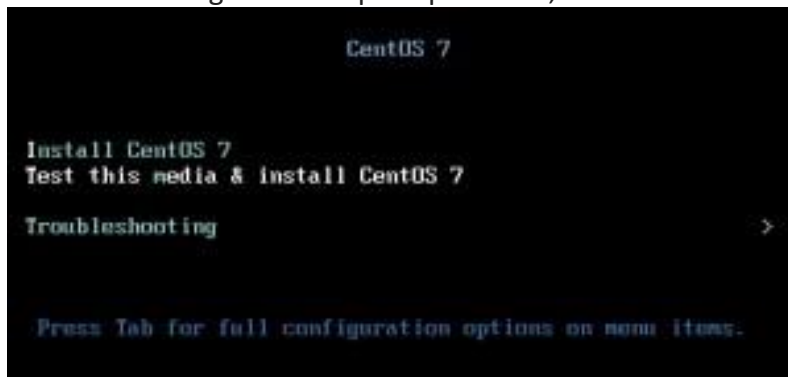
5. In the **Device** field, select the name of your USB thumb drive.
6. In the **Create bootable disk using** field, select the format of the downloaded image (e.g. ISO image).
7. Click on the disk icon to browse to the CentOS 7 ISO to install.

8. Click **Start**.  
The process will take a couple minutes and the lower window will display "READY!" when done.
9. Remove the USB and install it on the machine you will be installing CentOS on.
10. Boot your computer by restarting it and then waiting for that first screen to be displayed.
11. Press the boot option key as instructed on the first screen (e.g. often, it'll say something like "**Press F12 to Choose Boot Device**").
12. Wait a moment to continue booting until see a menu pop up with a list of choices on it. Highlight your USB drive and press **Enter**.
13. Exit out of your BIOS, while saving your changes. Usually, this option is under "Exit" on the main menu, or available via a keyboard shortcut listed (e.g. F4) somewhere on your screen.  
Your computer should reboot. If you're prompted to "**Press any key to boot from CD/DVD**" do so. Your computer should boot into the USB drive instead of your normal operating system.



Make sure ALL network adapters are connected and ON in order for the Linux installation protocol to be able to SEE them. Otherwise, they will not be set to start up on boot.

14. On the following CentOS 7 prompt screen, select **Install CentOS 7** and then press **Enter**.





### ➔ To setup CentOS 7:

1. On the CentOS welcome screen, select the desired language and click **Continue**.



2. On the main screen, click **Date & Time** and then set the time zone, date, and time and then click **Done** (located in the upper left corner).

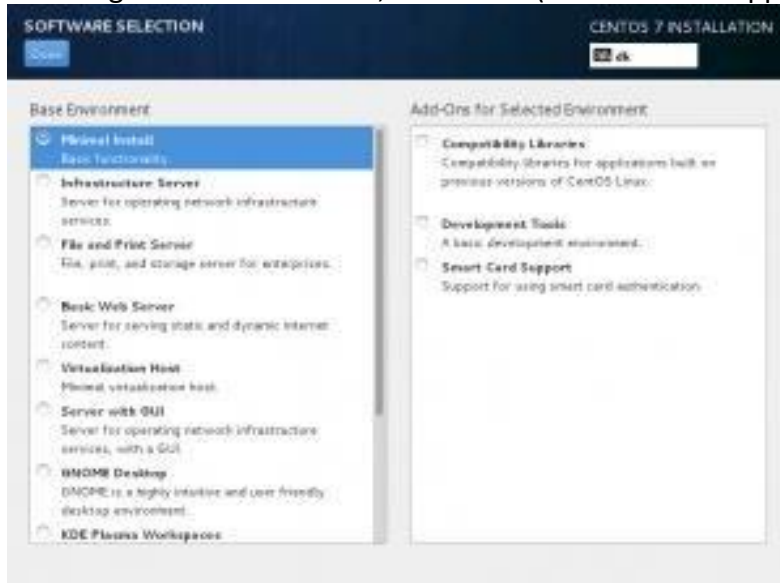


3. On the main screen, click **Keyboard** and then click the big “+” button in the lower left corner and find your keyboards language (you can search), click **Add** to add it and then click **Done** (located in the upper left corner). When finished, click **Done** (located in the upper left corner).

4. On the main screen, click **Language Support** and select the language of your choice, (default is English) and then click **Done** (located in the upper left corner).



5. On the main screen, click **Installation Source** and select the installation USB as the installation source. When finished, click **Done** (located in the upper left corner).
6. On the main screen, click **Software Selection** and select Minimal Installation (you may select another type of installation, but this is the minimal default requirement for installing Zixi). When finished, click **Done** (located in the upper left corner).

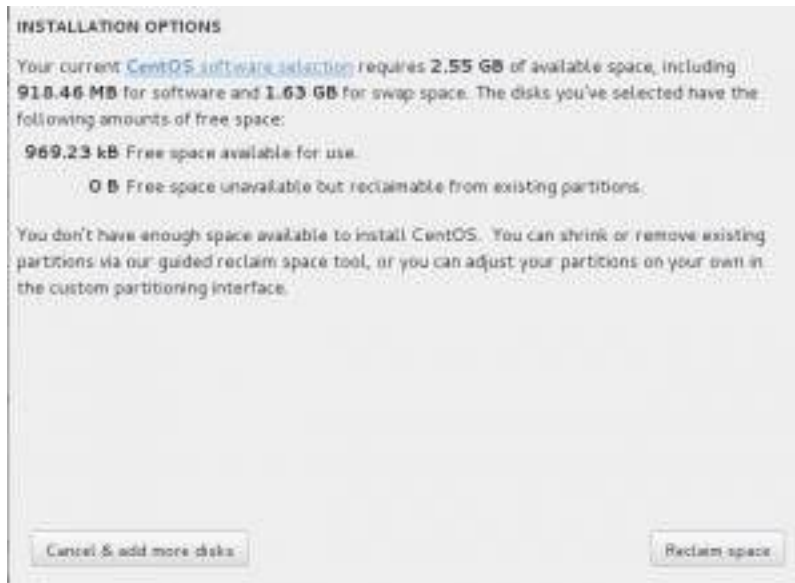


7. On the main screen, click **Installation Destination** and select the device on which you would like to install. Make sure that the hard drive you want to install the system on has

the check mark on it by clicking it (if it goes away when you click it, then click it again).

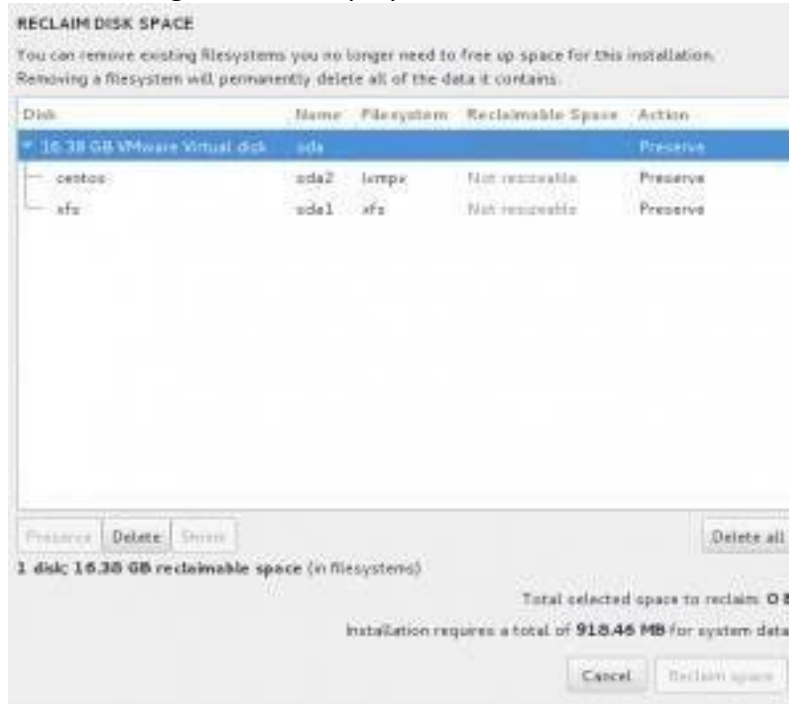


8. Under the Partitioning section, select the **Automatic Partitioning** option (this guide will not cover manually partitioning your hard drive). When finished, click **Done** (located in the upper left corner).  
If your hard drive is empty, the main installation screen will be displayed.
9. If your hard drive contains partitions, it will ask you to reclaim the space on it in a popup like shown below.



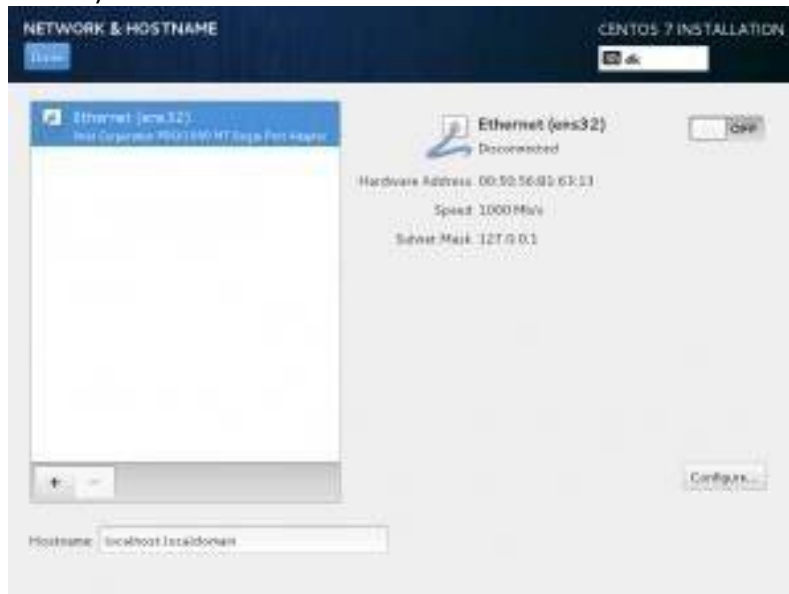
10. Click **Reclaim Space**.

The following screen is displayed.



11. Click **Delete All** and then click **Reclaim Space**.

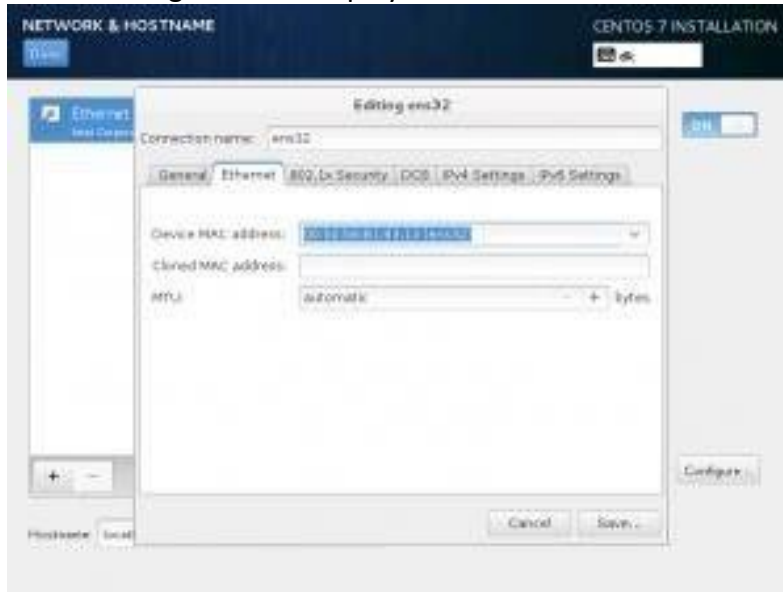
12. On the main screen, click **Network & Hostname**. Ensure you have at least one network listed on your left. If you have multiple network adapters, select the network adapter you want to use. You can use multiple network adapters by configuring network bonding, load balancing and failover schemes (see the Zixi documentation for more details).



- For each selected network adapter, toggle the **ON/OFF** switch to the right to turn it on. ALL network adapters need to be connected and ON in order for the Linux installation protocol to be able to SEE them. Otherwise, they will not be set to start up on boot.

- To configure the network adapter, select it and click **Configure**.

The following screen is displayed:



- Click the **IPv4 Settings** tab and then click **Add**. Fill in the **IP address** you want to have (make sure it's not already in use), the **netmask** and the **gateway**. When done, click **Save**.



If you want to receive the IP address through DHCP on you server, you can skip this step.

- In the **Hostname** field, enter the name of the server (default – localhost.localdomain). When finished, click **Done** (located in the upper left corner).
- On the main screen, click **Begin Installation**. The installation will begin.

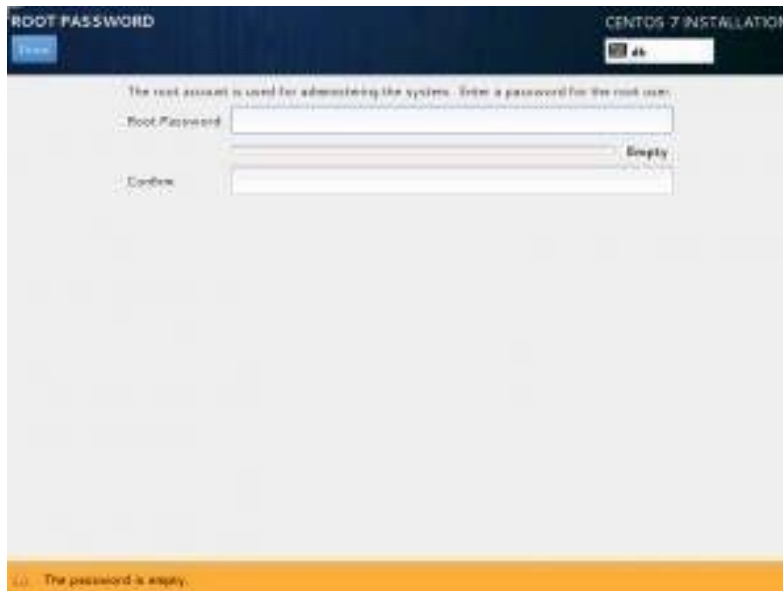
18. While it's installing, you have to set the root password. Click the **Root Password** button in the middle of the screen.



19. Type in the password you want the root user to have in both password fields.



Select a strong password for the root user and save it in a secure location.



20. Click **Done**.
21. When the progress bar is at 100%, click **Finish Configuration**.

22. When the process ends, remove the USB thumb drive and click **Reboot**.  
After a minute or two the following screen is displayed:

```
CentOS Linux 7 (Core)
Kernel 3.10.0-123.el7.x86_64 on an x86_64

localhost login: _
```

23. Type the “root” user here and press **Enter**.
24. Type the password and press **Enter**.

### ➔ To update the operating system:

1. Run the following commands as a “Root” user:

```
# yum update -y
# yum install -y yum-utils net-tools wget ntp network-scripts
telnet
```

2. After the default CentOS7 installation, NetworkManager service will be running. As networking configuration can be handled by the network-scripts package, it is advised that NetworkManager be disabled and removed. Run the following commands to disable NetworkManager:

```
# systemctl stop NetworkManager
# systemctl disable NetworkManager
# yum remove -y NetworkManager
```



On CentOS8, the network-scripts package is deprecated so NetworkManager must be kept.