

Installing and Upgrading Ignition

The installation process for Ignition is designed to be as simple as possible. You can find installers on our Downloads page: <https://inductiveautomation.com/downloads/ignition/>.

You'll find the dedicated Installers (just called "installer" for all major operation system. You'll also find ZIP files. Both options install Ignition, but the installers are generally easier to use. Download an installer, and head to the appropriate section below. For information on ZIP file installation instead, go [here](#).

Make sure your system meets our minimum system requirements (also found on our downloads page).

Install Ignition

1. Download an installer from our downloads page: <https://inductiveautomation.com/downloads/ignition/>.

Installing on a Headless Server?

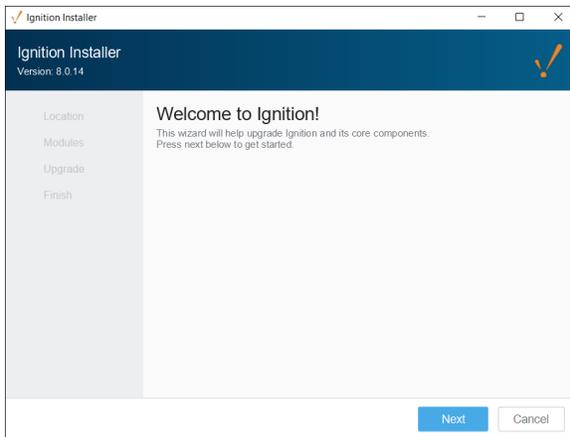
The steps below detail installing Ignition in a graphical environment. If you're attempting to install Ignition on a headless server, you can use the same installer, but you'll likely want to refer to the [Command Line Installations](#) page for details on command line arguments, which allow you to do things like run the installer in unattended mode.

Installing on Headless Linux Distros

When installing Ignition on a headless Linux distro, you'll want to install the fontconfig package, as some Ignition features use the package.

```
sudo apt-get install fontconfig
```

2. Run the installer and follow the steps in the installation wizard.



Linux Installations

Before you can run the installer on Linux, you must first make the installer executable. From terminal:

```
chmod +x ignition-x.x.x-linux-xxxinstaller.run
```

Alternatively, your desktop environment may have some graphical interface to make the installer executable. Check your desktop's documentation for more details.

On this page ...

- [Install Ignition](#)
 - [Ignition Default Installation Directories](#)
- [Quick Start Configuration](#)
- [Start or Stop Ignition](#)
- [Upgrade Ignition](#)
 - [Updating License for an Upgrade](#)
 - [Upgrading a Redundant Pair](#)
- [Reset the Password](#)
- [Uninstall Ignition](#)



Installing Ignition on Windows

[Watch the Video](#)



Installing Ignition on Linux

[Watch the Video](#)



Installing Ignition on Mac

[Watch the Video](#)



macOS Installations

There is a known issue with running the installer on macOS. If you're receiving warnings about being unable to open the installer, see our [Knowledge Base Article](#).

In most cases you can use the default settings in the installer. This section describes what each setting does.

Default Installation Directories

This determines the installation directory. You're free to pick the directory you wish. See the [Ignition Default Installation Directories](#) section below for the default paths.

Gateway Service Name (Windows Only)

This field allows you to choose the service name of Ignition, as it appears in the operating system's service listing.

Installation Options

Allows which modules are included in your base installation. Your choices are **Typical** and **Custom**. The Typical option will use a select list of commonly used modules. The Custom option allows you to install specific modules. In most installations the Standard option will suffice, but do note you can always add modules and remove modules after the installation process.

Start Ignition Now

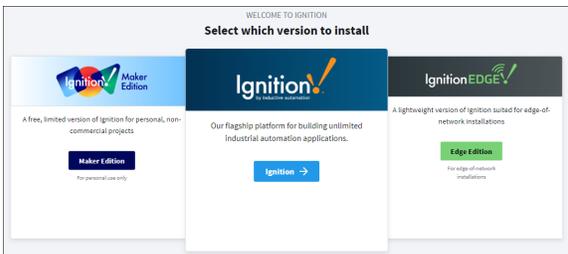
Once the installer finishes, you'll be provided with an option to start the Gateway immediately. In most cases this is the desired option. You would only opt out of this choice if you didn't want the Gateway to start once the installer finishes.

Once finished, a web browser will open, and start off the System Commissioning process.

Install As a Service (Linux and MacOS only)

Allows you to install Ignition as a service. For Windows systems, Ignition is installed as a service by default as it is a requirement for Ignition to work on a Windows server.

3. After the installation wizard finishes, a web browser will open and start the commissioning process. At this point you'll need to select your edition.



Standard Ignition - Unlimited edition of our flagship platform. Designed for commercial use.

Ignition Edge - A lightweight version of Ignition suited for edge-of-network installations.

Maker Edition - A free, limited version of Ignition for personal, non-commercial projects.

4. Follow the steps in the commissioning process to complete installation.

The System Commissioning process is a series of steps that further configure your Gateway. This process begins after installation or upgrading. In addition, it can be re-triggered via a password reset with the [Gateway Command-Line Utility](#).

This feature is new in Ignition version **8.1.1**
[Click here](#) to check out the other new features

As of 8.1.1, commissioning can now set the Gateway Network port in addition to the HTTP and HTTPS port.

Clean installs of Ignition will check the default ports for their availability. If no ports are available, the Gateway will iterate that port number until one is found that is available. These ports can be modified during the commissioning process.

Existing or upgraded Gateways will not search for available ports, and will result in a faulted Gateway.

Activate License (Maker Edition Only)

When installing Maker Edition, you'll be asked to provide a License Key (an 8 digit string) and an Activation Token (a considerably longer string). Both of these can be acquired for free from your Inductive Automation account: <https://account.inductiveautomation.com/>.

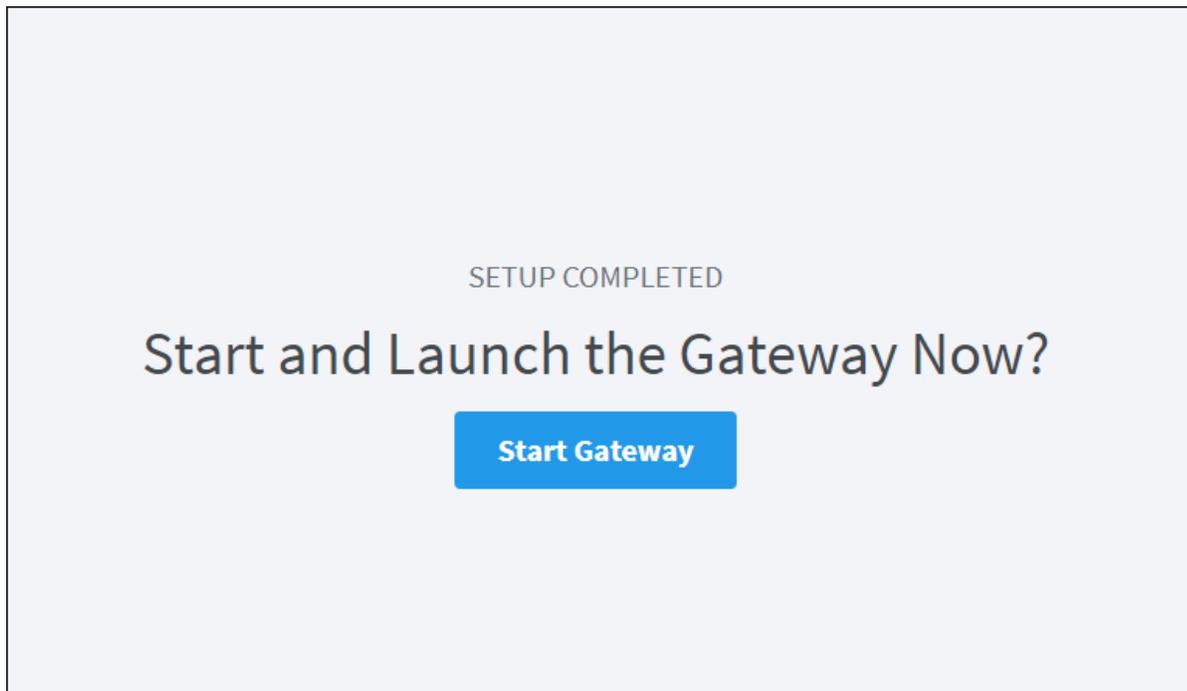
Create a User

This step asks you to create an initial user. This user will have full access to Ignition, although you're free to modify this user later. You'll need this user account to make changes to Ignition at all, so make sure you remember these credentials. Otherwise you'll need to perform a password reset: see the [Gateway Command-Line Utility](#) page.

HTTP Configuration

Allows you to specify the ports Ignition uses. By default, HTTP is **8088**, and HTTPS is **8043**.

Once you finish the commissioning process, your service will start.



Ignition Default Installation Directories

The default directories for each operation system are listed below.

Windows

```
C:\Program Files\Inductive Automation\Ignition
```

MacOS

```
/usr/local/ignition
```

Linux

```
/usr/local/bin/ignition
```

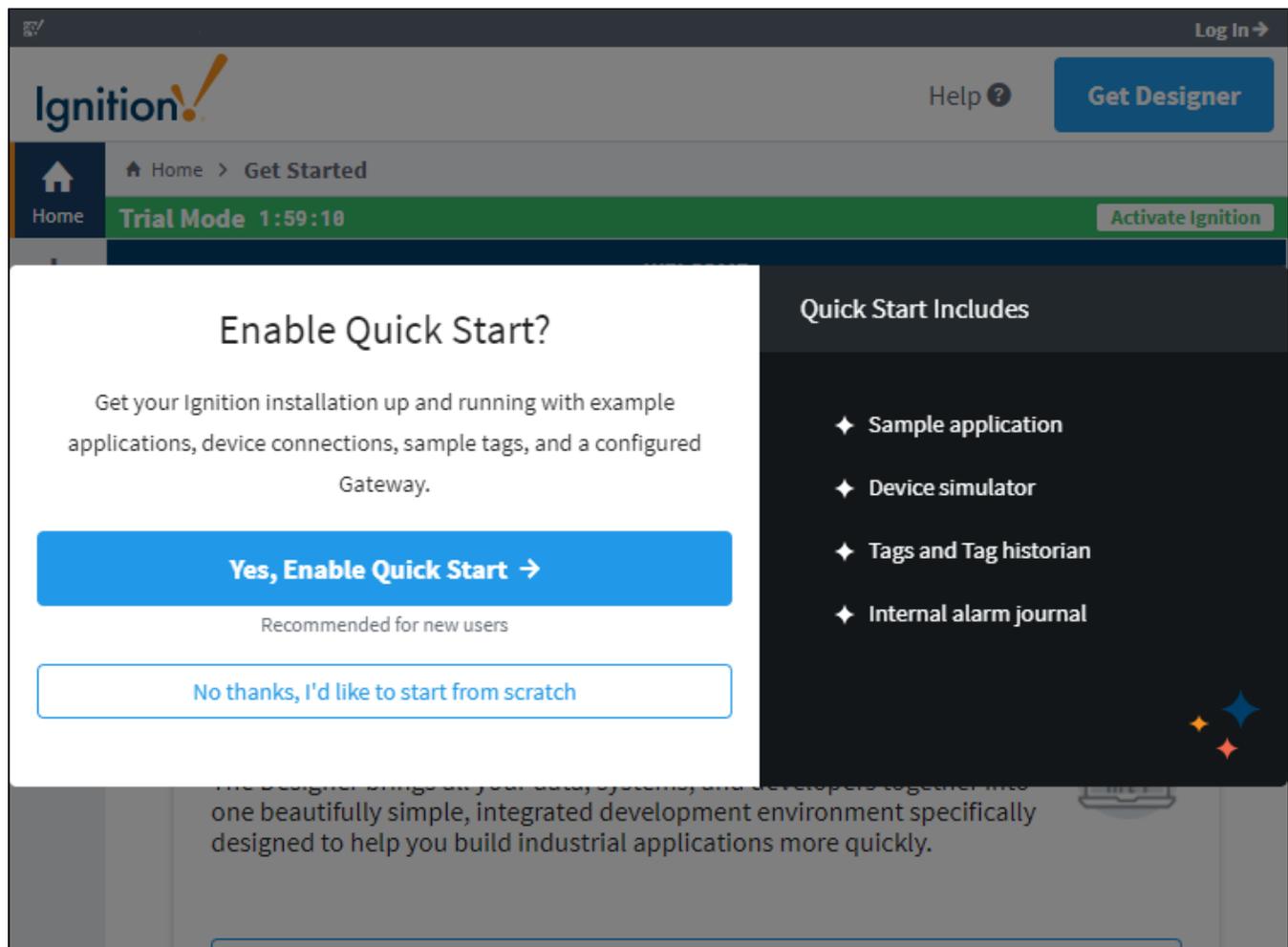
Quick Start Configuration

This feature is new in Ignition version **8.1.0**
[Click here](#) to check out the other new features

Once the installation process has finished, you'll be redirected to the Gateway Webpage. From there you'll be asked to opt into the Quick Start configuration, which makes several configuration changes to the system. Quick Start can only be enabled upon a new installation.

The following changes are made once Quick Start is enabled:

- Creates an internal SQLite database connection.
- Configures a device connection to a [Programmable Device Simulator](#) instance, and adds Tags from the simulator into a Tag provider.
- Configures an internal alarm journal.
- Creates a sample project.



Start or Stop Ignition

After installing with the Installer, Ignition will have a service representing it on the operating system. By default Ignition will start when the system starts, but you can manually start and stop the system with the following terminal commands:

Windows

The examples below assume "Ignition" is the service named used during installation (which also happens to be the default service name). You may need to modify the examples below using your system's service name.

```
net start Ignition
net stop Ignition
```

Mac

```
/usr/local/ignition/ignition.sh start
/usr/local/ignition/ignition.sh stop
/usr/local/ignition/ignition.sh restart
```

Linux

The examples below use the default installation directory

```
/usr/local/bin/ignition/ignition.sh start
/usr/local/bin/ignition/ignition.sh stop
/usr/local/bin/ignition/ignition.sh restart
```

Upgrade Ignition

Upgrading Ignition is as easy as running the installer. When you run the installer from the same directory as a previous install, our installers are able to detect that Ignition is already installed. If Ignition is already installed, the installer will ask if you would like to proceed with the upgrade. A wizard takes you through the upgrade in a similar workflow as installation workflow.

Ignition installers can be used to upgrade any edition of Ignition (i.e., Edge, Maker, or Standard) with the exception of ARM as that will require a zip installer for upgrading.

Linux Installer

Older versions of the Linux installer would place files across multiple different directories. Running an 8.0.14+ installer will move all those files to the specified installation directory.

JDBC Drivers and Upgrading

Sometimes new versions of Ignition will incorporate new JDBC drivers, which are used to connect to SQL databases. When upgrading Ignition, the JDBC drivers will **not** be upgraded. The reason being, is that you should only need to change the JDBC driver if you upgrade your database. See the [JDBC Drivers and Translators](#) page for more details.

During the upgrade process, the Gateway will have to restart, so make sure to account for downtime when upgrading.

If you are updating from one major version to the next (i.e, upgrading from version 8.0.# to version 8.1.#) , you will need an updated license. You can do this before upgrading so there is no unlicensed time after the upgrade.

1. Let us know.

You can reach Inductive Automation by phone at **(800) 266-7798**.

Some Major upgrades include new modules or have modified the functionality of pre-existing modules. If your license needs to be updated, call us and we can guide you through it. If you are updating from one version to the next, or from 7.0.0 all the way to the latest version, we can talk you through what is different and what new functionality is available. See the [New in this Version](#) page for more specifics about what was updated in the various versions.

2. Reload your license.

Once your license is updated in our system, go to your Config section of the Gateway webpage, and click System > Licensing. Click on the Update License icon .

For for a detailed guide on reloading a license, see updating a License on this page. If you are coming from an older version, the Gateway may look different. Don't worry, all this functionality is still there, but you may have to un-activate then re-activate instead if the Update License button is missing.

Upgrading a Redundant Pair

There are a few extra things to consider when upgrading a redundant pair of Gateways. When performing the upgrade locally, the order of the upgrade technically doesn't matter. However, we recommend upgrading the Master first. This allows the Backup to take over when the Master is down for an upgrade, and the Master can resume operations when it comes back online. At this point the Backup can be upgraded without interruption. The same considerations mentioned above should also be applied to the redundant pair, but you only need a Gateway Backup file from the Master Ignition Gateway.

If the upgrade will be performed remotely using the Enterprise Administration Module, then the Backup Gateway should be upgraded first. This allows the EAM controller to manually tell clients/sessions to communicate with the newly upgraded Backup Gateway, even though the Master will be a different version, allowing time to upgrade the Master.

Reset the Password

To reset the main password for the user with full privileges, use the Gateway Command-line Utility ([gwcmd](#)) utility. The '[gwcmd](#)' utility triggers system commissioning, and prompts the user to reset the username and password for the main user (with full privileges) after the [Gateway](#) restarts. Linux and Mac [OS](#) platforms also use the '[gwcmd](#)' utility for password reset. For more information, see the [Gateway Command-line Utility - gwcmd](#) page.

Uninstall Ignition

Note: Uninstalling Ignition will remove any projects or Gateway level configurations you made. If you wish to preserve anything, make sure to take a [Gateway backup](#) first.

To uninstall Ignition, run the uninstaller file. This file can be found in the main Ignition installation directory, for example:

Windows

```
C:\Program Files\Inductive Automation\Ignition\Uninstall.exe
```

Mac

```
/usr/local/ignition/Uninstall.app
```

Linux

```
/usr/local/bin/ignition/Uninstall.run
```