

License Patrol™ Server
Concurrent License Management Tool

Installation Guide

Release 26.1 for Microsoft Windows

July 2026

License Patrol Server Installation Guide, 26.1.x for Microsoft Windows

Copyright © 2026 VeraLab Inc. All rights reserved.

The information contained in this document is subject to change without notice. If you find any problems in the documentation, please report them to us in writing. This document is not warranted to be error-free. Except as may be expressly permitted in your license agreement for these Programs, no part of these Programs may be reproduced or transmitted in any form or by any means, electronic or mechanical, for any purpose.

VeraLab programs, which include both the software and documentation, contain proprietary information. They are provided under a license agreement containing restrictions on use and disclosure and are also protected by copyright and other intellectual and industrial property laws. Reverse engineering, disassembly, or decompilation of the VeraLab programs, except to the extent required to obtain interoperability with other independently created software or as specified by law, is prohibited.

Contents

Send Us Your Comments ..... **ii**

Preface ..... **iii**

Audience iv

Organization v

Related Documentation vi

Conventions vii

1 Preinstallation Requirements **1-1**

System Requirements 1-2

Software requirements for License Patrol Server 1-2

Hardware Requirements for License Patrol Server 1-2

Verifying Hardware Requirements 1-2

Third-Party Software 1-3

Web Browser Support 1-3

Database and Application Server 1-3

2 License Patrol Installation **2-1**

Installing License Patrol 2-2

Before You Install License Patrol 2-2

Downloading License Patrol Software from the Web Site 2-2

Installing the License Patrol Software 2-2

Connecting to License Patrol 2-3

Installing License Patrol with Existing PostgreSQL Database 2-4

Modifying config files 2-4

Uninstalling License Patrol Components and Services 2-6

3 Postinstallation Configuration **3-1**

Reviewing Installed Components 3-2

Administrator Account 3-3

admin User 3-3

Client Setup 3-4

4 License Patrol Upgrade **4-1**

Upgrading License Patrol 4-2

Before You Upgrade License Patrol 4-2

Downloading License Patrol Software from the Web Site 4-2

Upgrading License Patrol Software 4-2

Upgrading License Patrol in a Multi-Node Environment 4-3

Connecting to License Patrol 4-3

Send Us Your Comments

License Patrol Server Installation Guide

VeraLab Inc. welcomes your comments and suggestions on the quality and usefulness of this document. Your input is an important part of the information used for revision.

- Did you find any errors?
- Is the information clearly presented?
- Do you need more information? If so, where?
- Are the examples correct? Do you need more examples?
- What features did you like most?

If you find any errors or have any other suggestions for improvement, please indicate the document title and part number, and the chapter, section, and page number (if available). You can send comments to us in the following ways:

- Electronic mail: **support@veralab.com**
- Postal service:

  VeraLab Inc.
  12460 Mabury Rd
  San Jose, CA 95133
  USA

If you would like a reply, please give your name, address, telephone number, and (optionally) electronic mail address.

If you have problems with the software, please contact License Patrol Technical Support.

Preface

This manual is your primary source of introduction, preinstallation, installation, and postinstallation information for using License Patrol, concurrent license management tool.

This preface introduces you to the License Patrol Installation Guide, discussing the intended audience, structure, and conventions of this document. A list of related License Patrol documents is also provided.

> **Note** Starting with this release, License Patrol adopts the year-based version numbering used across VeraLab Inc. products: version 26.1 is the first release of 2026 and succeeds version 9.5.

This preface contains these topics:

- Audience
- Organization
- Related Documentation
- Conventions

Audience

License Patrol Server Installation Guide for Windows is necessary for anyone installing, configuring, or administering License Patrol Server.

License Patrol Installation Guide is intended for IT Managers, Administrators, Technicians, and other technical personnel who perform the following tasks:

- Manage multi-computer environment facility and personnel
- Perform system installation, administration and setup

To use this document, you need:

- Windows 8.1, Windows 10/11, Windows Server 2016, Windows Server 2019, Windows Server 2022, or Windows Server 2025 installed and tested on your computer system.

Organization

This guide contains the following chapters and appendixes:

Chapter 1, Preinstallation Requirements

This chapter describes preinstallation requirements, third-party software, and operating system requirements for License Patrol system for Windows.

Chapter 2, License Patrol Installation

This chapter describes how to install and uninstall License Patrol system for Windows.

Chapter 3, Postinstallation Configuration

This chapter identifies postinstallation configuration tasks. Where appropriate, this chapter references other guides for procedures on performing these configuration tasks.

Chapter 4, License Patrol Upgrade

This chapter describes how to upgrade License Patrol system for Windows to the current release.

Related Documentation

This guide is a part of a set for IT personnel using License Patrol system. The other guides in the set are:

- *License Patrol Administrator's Guide*
- *License Patrol Client Installation Guide*

To download free release notes, installation documentation, white papers, or other collateral, please visit www.veralab.com.

Conventions

This section describes the conventions used in the text of this documentation set. We use various conventions in text to help you more quickly identify special terms. The following table describes those conventions and provides examples of their use.

Convention	Meaning	Example
Bold	Bold typeface indicates screen elements, such as elements of forms or menu items.	Select the **Available** checkbox.
Italics	Italic typeface indicates book titles or emphasis.	*You can not make currently used workstations unavailable.*
Bold Italics	Bold and Italic typeface indicates screen names and areas.	The screen changes to ***Dashboard***.
<>	Angle brackets enclose variables or optional items.	The Dashboard `<counter_name>` page appears for that counter.

1 Preinstallation Requirements

This chapter guides you through the License Patrol preinstallation procedures. This chapter covers the following topics:

- System Requirements
- Third-Party Software

System Requirements

Software requirements for License Patrol Server

The following table shows the supported software environment.

Requirement	Value
System Architecture	64-bit
Operating System	License Patrol for Windows is supported on the following operating systems: ▪ Windows 8.1 ▪ Windows 10/11 ▪ Windows Server 2016 ▪ Windows Server 2019 ▪ Windows Server 2022 ▪ Windows Server 2025
Network Protocol	▪ TCP/IP ▪ TCP/IP with SSL

Hardware Requirements for License Patrol Server

The following hardware components are required for License Patrol Server:

- RAM: 3 GB minimum, 6 GB recommended.
- Hard disk space: 500 MB minimum for custom installation (without database), 900 MB minimum for full installation, 2 GB recommended.
- Processor: 2 GHz MHz minimum.

> **Note** Above minimum requirements are for environments with up to 300 client computers. Contact VeraLab support to get recommendations for environments with over 300 client computers.

Verifying Hardware Requirements

To ensure that the system meets these requirements, follow these steps:

1. Determine the physical RAM size. For a computer using Windows 10, for example, open the Windows **Start** menu, click **Settings** icon or start typing **About your PC**, and click the option to open it when it appears. In the ***Device Specifications*** section, your total RAM capacity is displayed next to **Installed RAM**. If the size of the physical RAM installed in the system is less than the required size, then you must install more memory before continuing.
2. Determine the amount of free disk space on the system. For a computer using Windows 10, for example, open the Windows **Start** menu, click **Settings** icon or start typing **About your PC**, and click the option to open it when it appears. In the ***Storage*** section, your used and free disk space is displayed.

Third-Party Software

Web Browser Support

VeraLab supports the latest three versions of Google Chrome, Chrome-based browsers, Mozilla Firefox, the latest version of Mozilla Firefox ESR, and the last two versions of Apple Safari to ensure the best compatibility and performance.

Although it is not required, we recommend using the latest versions of service packs for security purposes.

Database and Application Server

We bundle Tomcat 11 as a J2EE application server, a Java runtime (JDK 25 LTS), and PostgreSQL 18 for your convenience. You have an option not to install PostgreSQL as a part of installation process. Instead you can use your own copy of PostgreSQL database server. Current version of License Patrol has been tested and certified with PostgreSQL 15 and higher.

2 License Patrol Installation

This chapter guides you through the License Patrol installation procedures. This chapter covers the following topics:

- Installing License Patrol
- Installing License Patrol with Existing PostgreSQL Database
- Uninstalling License Patrol Components and Services

Installing License Patrol

You can download the License Patrol software from www.veralab.com Web site. This chapter describes how to install License Patrol from hard disk.

> **Note** Version 26.1 delivers significantly faster installation, service startup, and client redeployment compared to previous releases.

Before You Install License Patrol

Perform the following tasks before installing License Patrol Server:

1. Review and satisfy applicable system and component requirements in Chapter 1, “Preinstallation Requirements”.
2. Log on as a member of the Administrators group to the computer on which to install License Patrol components. Log on as a member of the Domain Administrators group if you are installing on a Primary Domain Controller (PDC) or a Backup Domain Controller (BDC).
3. Back up any databases that are currently installed on the node.
4. Verify ports 8080 and 8443 (for SSL) are available and no other application is using them. For example, to check if port 8080 is busy, run `telnet localhost 8080` from command prompt on the server. If you get a blank screen, something else is using that port.

Downloading License Patrol Software from the Web Site

To download the installation files:

1. Use any browser to access the software download page:
   `http://www.veralab.com/veralab/downloads.jsp`
2. Select a file system with enough free space to store and expand the files. On the file system that you just selected, create a temporary directory.
3. Download the executable file to the directory that you just created.

> **Note** Starting with version 26.1, License Patrol installers and client binaries are signed with a modernized code-signing certificate. When prompted by Windows, verify that the publisher is VeraLab Inc. If an older cached installer produces a publisher warning, download the current installer from the Web site.

Installing the License Patrol Software

Run the downloaded executable file and install the software, as follows:

Screen	Recommended Action
Welcome to the License Patrol Setup Wizard	Click **Next**
License Agreement	Read the License Agreement and select the **I accept the agreement** radio button. Click **Next**
Select Destination Location	You can accept the default value (recommended) or select a different directory. Click **Next**

Screen	Recommended Action
Select Components	Select **Full Installation** or **Custom Installation** from the drop-down list. Click the **PostgreSQL Server 18** checkbox to select or deselect the database component. If you already have PostgreSQL database installed, do not select PostgreSQL component; see details in next chapter how to install License Patrol with existing database. Click **Next**
Select Start Menu Folder	Accept the default value (recommended) or type in a custom name. Click **Next**
Ready to Install	Review the information displayed, then click **Install**. The installation may take several minutes.
Completing the License Patrol Setup Wizard	Select the components you wish to start automatically upon completion. Click **Finish**

Connecting to License Patrol

To start using License Patrol, open a browser and go to License Patrol login page:

```
http://[HOST_NAME]:8080/server
```

or

```
https://[HOST_NAME]:8443/server
```

> **Note** When using self-signed certificate in SSL mode, you may see a warning page “Certificate Error: Navigation Blocked”. Click “Continue to this website (not recommended).” to continue to login page. To avoid SSL error message, you will need to purchase a certificate from SSL Authority or use a non-secure HTTP connection http://[HOST_NAME]:8080/server.

The default username and password are:

- username: `admin`
- password: `password`

> **Note** For more information, refer to the *License Patrol Administrator’s Guide*.

Installing License Patrol with Existing PostgreSQL Database

When installing License Patrol application in a multi-node environment or in a single-node environment with pre-installed PostgreSQL database, additional manual setups are required. Please review the following prerequisites are met before running installation:

> **Note** Below steps have been certified for PostgreSQL versions 15 and higher.

1. PostgreSQL software is installed either on the same server that is running License Patrol application or a separate server box (if using multi-node architecture). It is not required to configure database. By default, License Patrol application is using database named “license_patrol”. If you prefer to create database manually, we recommend giving it “license_patrol” name.
2. Connectivity from License Patrol server to PostgreSQL server is open. Please make sure that there is no Firewall or ACL rule blocking access to PostgreSQL database. By default, PostgreSQL is using TCP port 5432.
3. Create License Patrol user account in the existing instance of PostgreSQL. That user will own the database objects required for License Patrol product to function. When License Patrol is installed in distributed environment with a database configured on another server, veralab user (the owner of veralab database) must have permissions for external connection by editing pg_hba.conf file. See PostgreSQL reference for details: http://www.postgresql.org/docs/current/static/auth-pg-hba-conf.html. To create database user for License Patrol, run below command from PostgreSQL prompt.
   ```
   create user veralab with createdb password 'veralab';
   ```
4. Install License Patrol application by running downloaded license_patrol_server_setup.exe. Select **Custom installation** method with **PostgreSQL Server 18** option **unchecked**.

Modifying config files

In order to complete License Patrol configuration with pre-installed PostgreSQL database please do the following:

1. Update `C:\LicensePatrol\tomcat\webapps\server\WEB-INF\sql\postgresql\settings.bat`. Sample file looks like this:
   ```
   echo off
   set DB_HOST=127.0.0.1
   set DB_PORT=5432
   set DB_NAME=license_patrol
   set DB_USER=veralab
   set DB_USER_PASSWORD=veralab

   set DB_SUPERUSER=postgres
   set DB_SUPERUSER_PASSWORD=root

   set POSTGRES_PATH=..\..\..\..\make\win_files\pgsql_x64\bin
   if exist "%POSTGRES_PATH%\psql.exe" goto notPostgres
   set POSTGRES_PATH=..\..\..\..\..\..\pgsql\bin
   :notPostgres
   set PGPASSWORD=%DB_USER_PASSWORD%
   set PGOPTIONS=--client-min-messages=warning
   ```

Update `DB_USER`, `DB_USER_PASSWORD`, `DB_NAME`, `DB_HOST`, `DB_PORT` parameter values according to your configured PostgreSQL database environment. We recommend keeping `DB_USER` and `DB_NAME` values default.

`DB_SUPERUSER` and `DB_SUPERUSER_PASSWORD` parameters values can be changed if you have another superuser configured in your database or use default values. These parameters are used in two cases:

- During database uninstallation to disable all users connections.
- Enable citext module. The citext module provides a case-insensitive character string type, citext.

2. Update `C:\LicensePatrol\tomcat\webapps\server\WEB-INF\db.properties` file. Sample file looks like this:

```
torque.dsfactory.maindb.pool.jdbcUrl=jdbc:postgresql://127.0.0.1:5432/license_p
atrol
torque.dsfactory.maindb.pool.username=veralab
torque.dsfactory.maindb.pool.password=veralab
```

If PostgreSQL database is installed on a separate box, please update 127.0.0.1 and 5432 values in the first string to reflect real values of DB host and port. Update veralab user and set password with same values as the db owner of license_patrol database on your PostgreSQL server.

After updating and saving above files run below commands:

```
cd C:\LicensePatrol\tomcat\webapps\server\WEB-INF\sql\postgresql\
```

`create-pgsql-db.bat` — (Optional step. If database has not been created yet, this script will create license_patrol database).

`app-data-init.bat` — (Required script. The script will initialize all metadata).

Now License Patrol application is configured. You can start VeraLab Tomcat Service and proceed to the login page.

Uninstalling License Patrol Components and Services

To uninstall License Patrol software and all its components:

1. Log on as a member of the Administrators group to the computer on which you installed License Patrol Server components.
2. Go to **Start → Control Panel → Add or Remove Programs**, and select **License Patrol**.
3. Click **Remove**.

> **Note** PostgreSQL database and the installation directory (default is C:\LicensePatrol) do not get removed automatically upon completion. It is safe to remove it manually. If you are uninstalling and re-installing License Patrol as a single-box installation from scratch it is recommended to remove C:\LicensePatrol directory before next fresh installation. Upgrades should be performed on top of existing installation, no uninstallation or other manual steps are required.

3 Postinstallation Configuration

This chapter guides you through the License Patrol postinstallation procedures. This chapter covers the following topics:

- Reviewing Installed Components
- Administrator Account
- Client Setup

Reviewing Installed Components

License Patrol installs and configures the following Windows Services:

- VeraLab Apache Tomcat
- PostgreSQL

These services are configured for Automatic Startup Type.

To view services and their status, go to **Start → Control Panel → Administrative Tools → Services**.

By default, VeraLab Apache Tomcat Service is configured to listen on TCP ports 8080 and 8443. If for any reason the default License Patrol port is already used by some other software on your system you can change the port in the following file:

```
%LicensePatrol_INSTALL_DIRECTORY%\tomcat\conf\server.xml
```

Locate the following lines and change the port number, e.g.:

```
<Service name="Catalina">
  <Connector port="8443" />
```

> **Note** For more information, refer to the Apache Tomcat 11 documentation.

Administrator Account

admin User

License Patrol provides a predefined user, `admin`, that has privileges for performing all of the tasks in a License Patrol system, including setting up the system and creating other users. This user has an access to other roles in License Patrol application by default. You can modify admin's default settings by logging in to the web application, go to **Users** → click **Edit** icon next to admin user. However, it is recommended to create new users and assign them required roles and rights. You can not delete yourself. In order to delete a user with Administrator role, you will need to login as a different administrative user.

The default password for the admin user is 'password'. We recommend changing the password for the admin user immediately after install. You can also delete or deactivate this account, once you create your custom License Patrol Administrator users.

Changing the Password for the admin User in License Patrol

To change the password for the admin user:

1. Log into License Patrol as the admin user.
2. Navigate to **Setup** → **Users**. (Users task is the default landing page for Setup role).
3. Click **Edit** icon next to the user.
4. In the ***Edit Employee Admin*** page, type in the new password for **Password** and **Repeat Password** fields.
5. Click **Update**.

> **Note** For more information, refer to the *License Patrol Administrator's Guide*.

Client Setup

> **Important** Version 26.1 introduces several client deployment improvements: automatic computer model detection during client registration (the Model object is deprecated), smarter station identification based on a unique Device ID (more reliable than host name or MAC address when machines are re-imaged or renamed).

Starting with version 5.x License Patrol comes with several options to deploy and setup License Patrol client in multi-station environment. Review them carefully before selecting the one that fits your strategy best. Starting with version 6.0 License Patrol comes with functionality allowing to deploy new versions of client remotely by pushing new client software from LP server to the clients. This applies only to deployments with both client and server upgraded to 6.0. In other words, if you have License Patrol server upgraded to 6.0, but your clients are still on 5.5, you cannot deploy new version to the clients. Clients use "pull" method to download new version of setup files from the server and this functionality is only present on clients with version 6.0 or higher.

Before running License Patrol client installation in production environment visit **Setup → Stations → Client Setup** page.

There are three ways to install and setup License Patrol clients:

- using License Patrol Wizard (manual installation)
- using Configuration file (silent installation)
- using server to client push (starting with version 6.0)

Client Setup page helps in generating Config file that can be used during silent installations. After generating Config file, save it under the same folder as License Patrol Client setup (exe) file. Client Installer will pick up parameters from the Config file. Optionally you can select to auto-register workstations on the server. If auto registration is not selected, you will need to either import stations using **Maintain Data** task under Setup role before deploying License Patrol client (Excel .xlsx import is supported starting with version 26.1) or, if client deployment is already done, using an interface to add workstations showing in the ***Unregistered Stations*** list. You can install License Patrol client on a sample station and replicate the image to the rest of the room or lab using Ghost or similar methods. Here are deployment path options for versions prior to 6.0:

1. Setup required Room and Image tasks on the server → Generate Config file with Auto-register option selected → Deploy License Patrol clients.
2. Setup your environment using Maintain Data task under Setup → Generate Config file without Auto-register option selected → Deploy License Patrol clients.
3. Setup required Room and Image tasks on the server → Generate Config file without Auto-register option selected → Deploy License Patrol clients → Use ***Unregistered Stations*** list under **Setup → Stations** to add all detected client workstations to corresponding rooms/images.
4. Setup required Room and Image tasks on the server → Deploy License Patrol clients manually → if no Config file used, License Patrol Client Setup will prompt you to specify room/image, server IP, and communication password.

> **Note** Starting with version 26.1, the Model object is deprecated: clients automatically detect and report the computer model during registration, and models are no longer created or maintained manually.

To perform remote client deployments on versions starting with 6.0 use the following steps:

1. Download new client binaries for PC or/and Mac and save them on the server under LicensePatrol_Home\tomcat\webapps\server\update, e.g. `C:\LicensePatrol\tomcat\webapps\server\update`.
2. Login to License Patrol Web Application as a user with Setup role and go to **Setup → Diagnostics**. Click on **Remote Client Update** link.
3. Select desired version of the client executable from PC or Mac client table.
4. Select **Update all compatible stations** or **Select stations on the next step** option on the same page and click **Continue** button.
5. If you chose an option to update a subset of stations (Select stations on the next step option), on the next page select a room from the drop down and select stations. Click **Update** button and next page will be displayed showing the list of stations you selected. In order to add more stations to that selection, click on **Return to Station Selection** button.
6. Click on **Start Update** button to launch background process that will update clients with new version.

In addition to scheduled or bulk updates, version 26.1 supports on-demand client refresh: an administrator can instruct an individual client to refresh its configuration and status from the server immediately, without waiting for the next polling interval.

> **Note** The macOS client in version 26.1 ships with strengthened security hardening. Refer to the *License Patrol Client Installation Guide* for macOS deployment specifics.

Although in many cases client and server versions do not need to match, we recommend using the same version of client and server. To download the latest version of License Patrol client please visit the Downloads page on www.veralab.com.

4 License Patrol Upgrade

This chapter guides you through the License Patrol upgrade procedures. This chapter covers the following topics:

- Upgrading License Patrol

Upgrading License Patrol

You can download the License Patrol software from the VeraLab Web site.

> **Important** Upgrade eligibility has changed in version 26.1. Contact VeraLab Support to confirm the correct upgrade path for your installation.

> **Warning** We strongly recommend to contact VeraLab Support if you have any customizations on top of vanilla version before upgrading.

Before You Upgrade License Patrol

Perform the following tasks before upgrading License Patrol Server:

1. Review and satisfy applicable system and component requirements in Chapter 1, “Preinstallation Requirements”.
2. Log on as a member of the Administrators group to the computer on which to upgrade License Patrol components. Log on as a member of the Domain Administrators group if you are installing on a Primary Domain Controller (PDC) or a Backup Domain Controller (BDC).
3. Perform full system backup.

Downloading License Patrol Software from the Web Site

To download the latest installation files:

1. Use any browser to access the software download page: `http://www.veralab.com/veralab/downloads.jsp`
2. Select a file system with enough free space to store and expand the files. On the file system that you just selected, create a temporary directory.
3. Download the executable file to the directory that you just created.

Upgrading License Patrol Software

Run the downloaded executable file and follow the steps below:

Screen	Recommended Action
Welcome to the License Patrol Server Setup Wizard	Click **Next**
License Agreement	Read the License Agreement and select the **I accept the agreement** radio button. Click **Next**
Select Upgrade Operation	Select **Upgrade License Patrol Server** to upgrade from a previous release. Upgrade program will perform a backup of your previous installation, install new application files and database, import old database, and perform upgrade to current release. Select **Remove and Install** option if you are ready to wipe out your previous installation and perform fresh install. Previous setups will not be transferred or upgraded. Select **Stop and Exit** to quit. Click **Next**

Screen	Recommended Action
Select Destination Location	You can accept the default value (recommended) or select a different directory. Click **Next**
Select Start Menu Folder	Accept the default value (recommended) or type in a custom name. Click **Next**
Ready to Install	Review the information displayed, then click **Install**. The installation may take several minutes.
Completing the License Patrol Setup Wizard	Select the components you wish to start automatically upon completion. Click **Finish**

Upgrading License Patrol in a Multi-Node Environment

If you are running License Patrol in a multi-node environment where database is installed on a separate box or if you installed current version of License Patrol on a server with pre-existing database, the following steps must be executed:

1. Download latest version of License Patrol server (license_patrol_server_setup.exe).
2. Stop VeraLab Tomcat Service and backup C:\LicensePatrol.
3. Uninstall your current License Patrol version. This step will not affect your database.
4. Install latest fresh version of License Patrol. Do not select any options on the last screen ***Completing the License Patrol Setup Wizard***.
5. Update config files as described in “Modifying config files” in Chapter 2 or copy old config files from backup location (Step 2).
6. Execute the following script:

```
cd C:\LicensePatrol\tomcat\webapps\server\WEB-INF\sql\postgresql\
upgrade_db.bat
```

Connecting to License Patrol

After upgrade, by default a new browser window will open a Start Page. Please wait a couple of minutes for Windows Services to initialize. Once all services are started you will see a new icon with letters “LP” in the system tray.

To start using License Patrol web application, open a browser and go to License Patrol login page:

```
http://127.0.0.1:8080/server
```

The default username and password are:

- username: `admin`
- password: `password`

> **Note** For more information, refer to the *License Patrol Administrator’s Guide*.