



Coverity Upgrade Overview

This document describes the overall process for upgrading the Coverity Analysis and Coverity Connect products to the latest version and includes a few tips. For detailed instructions, see the latest *Coverity Upgrade and Release Notes* and the *Coverity Installation and Deployment Guide*.

The main steps:

- [Understand the product names and installer contents](#)
- [Upgrade your license files](#)
- [Download the Analysis and Platform installers and the Installation Documentation bundle](#)
- [Adjust your performance tuning settings](#)
- [Upgrade Coverity Connect](#)
- [Upgrade Coverity Analysis](#)
- [Upgrade Coverity plugins – Desktop and Jenkins](#)

Understand product names and installer contents

If you are upgrading from a 5.x version, be aware of changes in the names of products and contents of installation bundles.

- All Coverity components used for source code analyses are bundled in a single installer, the Coverity Analysis installer. These components are Coverity Analysis, Coverity Dynamic Analysis, Coverity Extend SDK, and Architecture Analysis. This is the client package.
- Coverity Integrity Manager (CIM) has been renamed Coverity Connect. It is in the Coverity Platform installer along with Coverity Policy Manager. This is the server package.

Upgrade your license files

Your license must be set to a supported product version. Your Downloads page only shows files that match your current license version. There is no cost to upgrade or downgrade your license version. You can do it yourself, at any time, on your Licenses page. If your Licenses page or Downloads page is blank, you must ask a designated Coverity License Administrator in your organization to download the files or modify the license for you, or to grant you the authority to do it yourself.

When your license is set to the right version, download the license to get the right entitlements for that version. If your license is node locked, you might need to use the Coverity Host ID utility to get your Host ID, and then rehost your license before downloading it.

Download installers and documentation

On your Downloads page, the available files are listed by package type. Download the files you need, based on your installation platform.

- **Analysis package:** This is your Analysis installer (client). Download for every OS platform on which you build and analyze your source code with Coverity analysis components.
- **Platform package:** This is your Platform installer (server). Download for the OS platform on which you run Coverity Connect.
- **Utilities package:** This is your Host ID utility. Download for every OS platform on which you plan to install Coverity Analysis or Coverity Connect, if your license for that platform requires a Host ID. Note that on some machines with complex or multiple network connections, the platform-specific Host ID Utility will not produce correct results. If you have problems, download and use the platform-independent Java Host ID utility.
- **Documentation packages:** One important package contains the latest guides for initial setup and planning, which often capture some late updates that did not make it into the installed documentation. This package includes the *Coverity Upgrade and Release Notes*, the *Coverity Installation and Deployment Guide*, and a *Quickstart Guide* for the most common Coverity Connect upgrade path. Other documentation packages provide language-specific copies of the full documentation set, the webhelp multi-book documentation (removed from Coverity Connect in version 8.0), and archived sets of *Release Notes* (English and Japanese). You can download the documentation bundles of your choice.

Adjust Performance Settings

Adjust your PostgreSQL and JVM performance tuning settings for best performance during the upgrade and subsequent production operations. Incorrect settings with a large database can cause an upgrade to take 5x to 10x longer, or to fail and require multiple restarts.

Tuning is especially critical when upgrading from a 5.x version to the latest version, because some steps in the upgrade process might require considerably more system resources than normal production operations. For more information, see Chapter 3.2. “Coverity Connect system and database tuning” in the latest *Coverity Installation and Deployment Guide*.

If you have any doubt about your tuning settings, send the following information to [Coverity Support](#) and ask for advice:

- From what version are you upgrading? To what version are you upgrading?
- What is the size of your database on disk? What size is your database backup file?
- Is the machine dedicated to Coverity Connect?
- What is the amount of system RAM in GB?
- Is your Coverity Connect database packaged with the Coverity Platform installer (an embedded PostgreSQL database), or is it an external PostgreSQL database?
- On what OS platform are you running Coverity Connect?

Upgrade Coverity Connect

You can follow the procedures documented in *Coverity Upgrade and Release Notes*, under section 1.2. *Upgrading Coverity Connect*. For the most common upgrade procedure, you can start with the *Quickstart Guide for Upgrades to Coverity Connect*, a guide that contains steps from *Coverity Upgrade and Release Notes* on upgrading a Coverity Connect instance that uses an embedded database.

Important!

Where appropriate, we advise upgrading Coverity Connect by using the automated in-place or backup-and-restore paths provided through the installer, since they preserve some settings better than the manual upgrade paths. However, you will need to use a *manual* backup-and-restore procedure if you have an external database version earlier than PostgreSQL 9.2 and/or if the database is running with a 32-bit Coverity Connect instance (the latter could be the case for versions earlier than 6.5).

Tips:

- **Running a test upgrade:** Run a test upgrade first, using your production database backup in a test environment. For large upgrades, this test should reveal possible problems and help you estimate the time that your production upgrade will require.
- **Committing between versions:** You can commit analysis results from the same or an earlier version of Coverity Analysis to the same or later version of Coverity Connect (for specific support limitations, see “Compatibility with other Coverity modules” in *Coverity Installation and Deployment Guide*). Note that if you want to incorporate the functionality of running a single, multi-language analysis (introduced in 7.0) instead of continuing to run separate analyses divided by programming language, you must commit the analysis results to the same stream in a new instance of Coverity Connect.
- **Desktop plugin versions:** If you use Coverity Desktop plugins, such as an Eclipse-based or Visual Studio IDE plugin, you must have the same version for Coverity Analysis, Coverity Connect, and the Coverity Desktop plugin. If you do not use a Coverity Desktop plugin, you can upgrade Coverity Connect first, then upgrade Coverity Analysis on any number of build machines whenever it is convenient.
- **Upgrading an enterprise cluster:** If you need to upgrade a Coverity Connect coordinator and its subscribers, see “Upgrading a Coverity Connect enterprise cluster” in *Coverity Upgrade and Release Notes*.

Upgrade Coverity Analysis

Follow the process documented in the latest *Coverity Upgrade and Release Notes*, under “Upgrading Coverity Analysis.” See tips in [Upgrade Coverity Connect](#) about coordinating your upgrade activities.

After upgrading, it is important to understand changes to commands and checkers, and to update any of your internal scripts that are affected by these changes.

Upgrade Coverity plugins – Desktop and Jenkins

For Coverity Desktop (IDE plugins), follow the process documented in the latest *Coverity Installation and Deployment Guide*, under “Installing Coverity Desktop.” See tips in [Upgrade Coverity Connect](#) about coordinating your upgrade activities. For other information, see also the latest *Coverity Upgrade and Release Notes*.

For the Coverity Jenkins plugin, follow the standard process for upgrading any Jenkins plugin. Jenkins plugin versions are not tied to other Coverity product versions. Although coordinating with your Coverity Platform upgrade is usually not necessary, we normally recommend using the latest version of the Jenkins plugin.