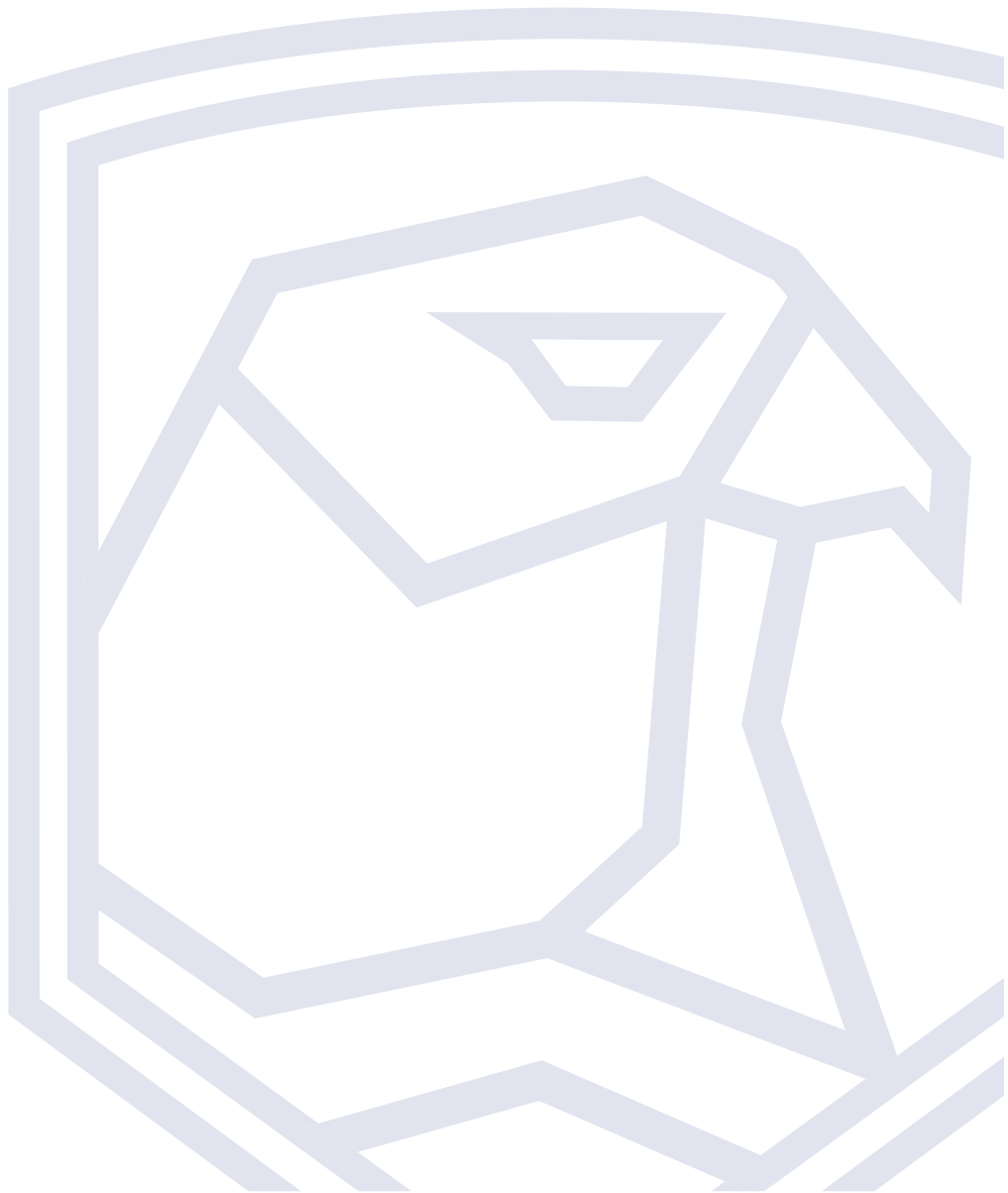


Product Documentation

Klocwork Insight v. 10.1

Installation Guide

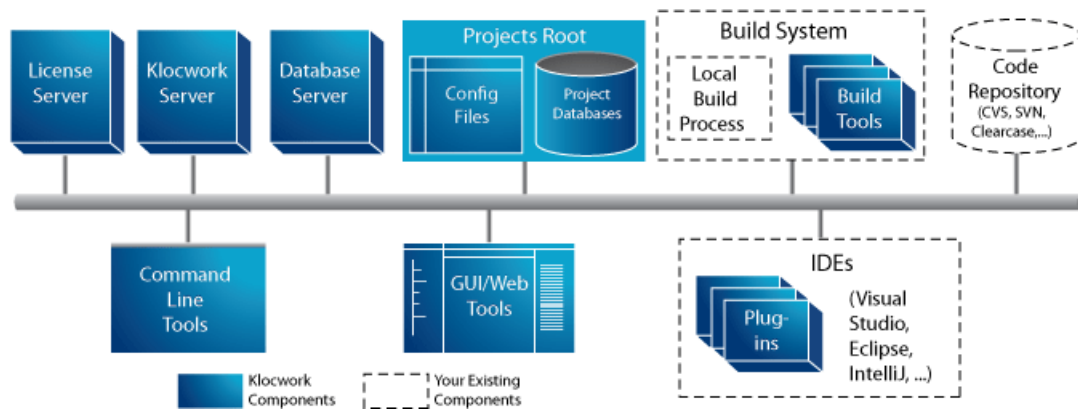


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» About the Klocwork packages and components

The Klocwork Insight installation packages and components allow you to install only the components you need on a specific machine.



Note: The Distributed Analysis package is covered separately in [Installing the Distributed Analysis package](#)

Server package components

Component	Details
License Server	A FLEXlm license manager (command-line name: license). You can also use your organization's FLEXlm server. Default host: localhost Default port: 27000 plus 33133
Klocwork Server	An Apache Tomcat Web server (command-line name: klocwork). Provides access to Klocwork Review, Klocwork Cahoots and Klocwork documentation. Klocwork clients connect to the Klocwork Server for project information. Note: Klocwork does not support using your own Apache Tomcat server. You must use the Web server packaged with Klocwork. Default host: localhost Default port: 8080 plus 8081 The Klocwork Server component now contains the Klocwork Database. Default host: localhost Default port: 3306
Klocwork build tools	Integration build analysis tools: <ul style="list-style-type: none"> » tools for managing Klocwork projects, analysis and access control (kwadmin and kwbuildproject) » tools to produce a build specification (kwinject, kwwrap, kwant, kwcsprojparser) » tools for running Klocwork integration build analysis (the analysis engines) » tools for managing Klocwork projects and access control » sample projects
Klocwork projects_root directory	The data location for the Klocwork Servers and applications, including the project database tables, which are stored in MySQL and Lucene databases. Note: The projects_root directory is not one of the components you see listed in the installation wizard, but the wizard lets you choose a location for it.

Desktop analysis components

Component	Details
Klocwork command line	Command-line versions of the Klocwork developer tools for C/C++ and Java, which allow software developers to verify the quality of source code before they commit it to source control. Also includes Klocwork Desktop, a GUI alternative to running kwcheck. Note: This component also includes the Klocwork Extensibility API for writing custom checkers.
Klocwork Desktop plug-in for Visual Studio	The Klocwork desktop analysis plug-in for integration with Microsoft Visual Studio. Supports Visual Studio versions 2005, 2008, 2010 and 2012.
Klocwork Desktop plug-in for Eclipse	The Klocwork desktop analysis plug-in for Eclipse and Eclipse-based IDEs.
Klocwork Desktop plug-in for IntelliJ IDEA	The Klocwork desktop analysis plug-in for IntelliJ IDEA.

Note: Once deployed, users can download the desktop plug-in installers from the main page of the Insight portal. Each binary has the following naming format:

`kw-insight-IDE-installer.platform.exe`

See [Installing a desktop analysis plug-in](#) for details on installing the desktop analysis plug-ins.

» Upgrading from a previous version

Insight provides a simple way to import your existing Klocwork Insight projects into a new projects_roots directory. You can use the Klocwork Insight portal GUI to connect to your existing Klocwork server then choose which projects you'd like to import. If you're a Klocwork Cahoots user, you can also connect to your existing Cahoots server to import your Klocwork Cahoots code reviews to Insight. The GUI enables a quick and painless migration to the very latest version of Klocwork Insight.

We realize that no two installations are the same, and depending on your installation, you may choose to migrate your projects root directory in its entirety. This method is still supported. Both methods are described in detail in the sections below.

Import your existing projects into a new projects root

Insight now includes a simple GUI that you can use to import projects from an existing projects_root to your new Klocwork installation. This allows you to migrate your data on a project by project basis without using the command line, and without the need to validate your database.

Before you decide to import your projects, make sure that your current installation supports this feature.

Note: *This is the preferred upgrade method.*

Typically, this process involves the following steps:

- » backing up your existing projects_root (just to be safe),
- » installing the new Klocwork Insight Server (either on a new machine or using a different port number),
- » starting the new server, opening the portal, and using the GUI to import existing projects to the new installation, and
- » after testing your new installation, uninstalling the existing server and projects_root.

Before you begin

The import process involves running your existing Insight installation (and projects_root) and your new Insight installation (with clean projects_root) concurrently. Once you've installed the new server, you must import any projects from the existing projects_root into the clean projects_root.

Remember that you cannot run two Klocwork servers on the same machine without specifying unique port numbers. If you plan on installing the new Klocwork installation on the same machine, it's a good idea to stop and restart your existing server using a different port number. This will allow you to maintain the existing port number for your new installation.

Both the Klocwork and Database servers require fully qualified domain names or IP addresses assigned in order to be accessible from the target server host during the import process. Don't use *localhost*.

Note: *You must have local projects_root administrator access in order to perform the import operation.*

Supported upgrade paths to versions of Insight that support project import

You can import your projects from any version of 9.5 or 10.0 as well as the most recent service releases of 9.2 and 9.6 are supported. If you are upgrading from release 9.0 or 9.1, you need to follow the appropriate upgrade path to upgrade to 9.2 SR3, or any of the versions described in the table below.

Find your current version in the chart below and follow the appropriate upgrade path. Once you've upgraded to the correct version of Insight, you can import your existing projects from there. If you are upgrading from a release earlier than 9.0, contact [Customer Support](#) for further instructions.

If you're using Insight version	Apply this service release
9.2	9.2 SR3
9.5	any service release
9.6	9.6 SR5
10.0	any service release

Once you've upgraded to a supported service release or version, you can install the latest version of Klocwork Insight, then use it to connect to your existing server to import your existing projects. Follow the steps described below to import your projects.

Install the Insight Server package

Install the version 10.1 Server package. For instructions, see [Installing Klocwork Insight](#) on page 14 for more information.

Be sure to copy your license file to <projects_root>/licenses .

Note: See [Customizing licensing](#) for information on licensing options.

Start the server

Once you've installed the new version of Insight, start the server being sure to specify a unique hostname and port number.

You can specify the hostname and port number either at startup, or during the installation process. See, [Starting the Klocwork Servers](#) for more information.

Log in to Klocwork Review

After starting the Klocwork servers, Klocwork Review is accessible from a browser using the URL of the Klocwork server machine and the Klocwork server port chosen during the install (for example localhost:8080). By default, the person who installed Klocwork Insight is set as the Klocwork administrator, and is given the Projects Root Administrator role. Initially, the Basic Authentication access control method is used, so no password is needed to log in. For example, if the user account used during the installation was 'jsmith', to log in to Review with the administrator role, use the credentials:

```
username: jsmith
password: <empty>
```

For more details on security and authentication methods, see [Security and permissions](#)

Import your projects and server settings

With the new Klocwork server installed and the portal up and running, you can import server settings and projects from your existing Insight installation.

When you import server settings from the existing source server, all global permission settings are imported along with the permission settings for only those projects that exist on the destination server. In other words, if you import Server A's settings to Server B, then you import a project from Server A to Server B, any permission settings that are specific to project A will not be carried over to Server B. To carry forward project A's project-specific permission settings, you must re-import the server settings after performing the import operation.

Important: In cases where a project contains custom settings, you must re-import your server settings after performing a project import.

To import your existing projects:

1. In the Klocwork portal, click *Insight* and log in to the product using your project_root admin account.
2. Click the *Projects* tab.

If this is your first time using the installation, click the **Import settings or projects** button.

If you've already created a project or imported a project, click the **Import** button.

3. In the *Klocwork server connection* dialog, specify the log in and connection information for your existing Insight installation (the installation from which you want to import). Specify:
 - » the URL of the existing server, for example: `http://server21:8082` ,
 - » your user name. **Note:** you must have projects_root administrator rights in order connect to the server and import your projects,
 - » your password (if required).
4. Click **Import server configuration** to import the existing server's configuration settings. This includes authentication configuration settings, permissions, custom metrics, reports definitions and e-mail subscription settings.
5. Click **List Projects** to see a list of projects in your existing projects_root.
6. In the **Choose projects to import** dialog, select the project(s) that you want to import to your new projects_root.
7. Click **Import**. The *Import status* dialog will display the status of the project import, while an import status message will appear at the top of the Projects tab.

Any project that imported successfully will appear in your projects list.

Note: During the import process, while projects are actively being imported, issue information in the Projects view may not accurately reflect the data in the source project. Information in the Projects view will be updated as soon as the import operation has completed. Check the import status indicator for progress information.

8. Click **Import server configuration** again to import any project-specific configuration settings. This is a mandatory step, since any project-specific configuration settings will be lost if you do not re-import the server settings.
9. For each imported project, click **Permissions** and check that the permissions are correct for each project.

It is important to verify the permissions for each project since at import time, permissions are merged between source server and destination server. You should repeat this process after each import operation, and you must be careful to re-import the server settings for each source server that you import from.

Use the Web API to import your projects

You can use the Klocwork Web API to import your projects on the command line. The following example shows a curl script to import a given project:

```
curl --data "action=import_project&user=myself&project=my_project&sourceURL=http://oldserver:8080&sourceAdmin=user&sourcePassword=pwd"
http://localhost.klocwork.com:8080/review/api
```

where:

- » *project* is the name of the project you want to import,
- » *sourceURL* is the URL of the existing, source Klocwork Server,
- » *sourceAdmin* is the user id of the source Klocwork Server administrator (must have projects_root admin access),
- » *sourcePassword* is the administrator's password.

To return a list of all projects in the source projects_root folder, run the following command:

```
curl --data "action=projects&user=myself&"
http://localhost.klocwork.com:8080/review/api
```

You can also use the Web API to import your server configuration settings:

```
curl --data "action=import_server_configuration&user=myself&sourceURL=http://oldserver:8080&sourceAdmin=user&sourcePassword=pwd"
http://localhost.klocwork.com:8080/review/api
```

Typically these operations are scripted using a language such as Python or Perl. See the [Klocwork Insight Web API cookbook](#) for examples of scripted curl calls using Python.

Import your code reviews

You can import your existing Klocwork Inspect or Klocwork Cahoots code reviews into your new projects root.

To import your existing Klocwork Inspect code reviews:

Note: Before importing code review data, you must have the equivalent project in your local projects root. Importing code review data will overwrite any existing code review data in the current projects_root folder.

1. In the Insight Product Portal, click **Cahoots**.
2. Click **Settings**, then in the left pane, click **Import**.
3. Click **Import code reviews**, then specify the URL of the source Klocwork server, the user ID of the Klocwork administrator for the source projects root, and the password (if required).
4. Select the projects that you want to import, then click **Import**.

To import your existing Klocwork Cahoots code reviews:

Note: Klocwork Cahoots does not organize code reviews by project. When you import existing code reviews from your Cahoots server, you must specify the code reviews by tag.

1. In the Insight Product Portal, click **Cahoots**.
2. Click **Settings**, then in the left pane, click **Import**.
3. Click **Import code reviews**, then specify the URL of the source Klocwork Cahoots server, the user ID of the Klocwork administrator for the source projects root, and the password (if required).
4. Select the local project into which you want to import the code reviews.
5. In the left pane, select the tags that you want to import.
6. Click **Assign** to assign the tags to the selected project.
7. Click **Import** to import the code reviews.

Test your upgrade

Ensure that you can see your projects and builds in [Klocwork Review](#).

If you installed a new license file, ensure that it was installed correctly by [checking that the number of licenses is correct](#).

Go live with your new installation

Once you're satisfied that your new installation is valid, and that your existing projects were imported correctly, it's time to go live with your new installation.

If you've chosen a new and unique port number for your new installation, then you can go ahead and communicate that information to your users.

If you'd like to reuse your existing port number (so that users don't have to update their local settings) then you'll need to stop and restart all of your Klocwork servers, taking care to specify the existing server port number for your new installation.

Upgrade all Desktop Analysis plug-ins

Ensure that all Klocwork plug-ins are upgraded to Insight 10.1.

Your users can reinstall their Klocwork Desktop Analysis plug-ins themselves by downloading the appropriate plug-ins from the Klocwork portal once it is up and running. See [Downloading and deploying the desktop analysis plug-ins](#) on page 24 for instructions on how to download and deploy the plug-ins to the server.

Before your first version 10.1 integration build analysis

New releases of Insight normally have changes to the checker configuration to keep up with current events and respond to customer requests. These changes may mean that your checker configuration from the previous release isn't the same in the new release.

Make sure that you have the right checkers enabled to match your old configuration. See [What's New](#) for a list of updated checkers, then make any changes to your [checker configuration](#). After you're satisfied with your configuration, perform your first version 10.1 integration build analysis on unmodified source code.

Note: If you've already run your first 10.1 analysis and you're missing some issues or status changes, delete that build, reconfigure your checkers, and run a new analysis.

We recommend running your final pre-upgrade integration build analysis and your first version 10.1 analysis on identical source code, and then [comparing the two builds](#). This allows you to assess changes in the analysis engine. For details on improved, added and removed checkers in this version, see [What's New](#).

Migrate your projects_root

You can migrate your projects_root and configuration settings over to your new Insight installation by using the `kwservice --migrate` command. Typically, this process involves:

- » Stopping your server and backing up your existing projects root folder and configuration settings,
- » installing the new Klocwork server package by specifying the existing projects root folder, server and port settings,
- » re-validating your database and,
- » testing your installation.

Note: Migration of your projects_root folder is only supported as part of the upgrade from Insight 10.0. If you're upgrading from an earlier version of Insight, see [Import your existing projects into a new projects root](#).

See [Migrate your projects_root directory](#) for more information about migrating from an earlier release.

Before you begin

To reduce the amount of time required for migration, we **strongly recommend that you delete unneeded projects and failed builds before migration**, as detailed in the procedure that follows.

We also recommend that you **make a copy of your projects_root directory** and migrate the copy. This way, users can continue to use Klocwork Review, though they should be instructed not to make any changes, such as changing an issue's status.

If you do not use the default server settings, you will **need to specify your custom settings prior to beginning the upgrade**. Otherwise, during the installation these settings will revert back to the default settings. If you forget, you can always go in and change the settings for each of your environments after you have completed upgrading.

To avoid losing issues, status changes or comments from the last release in your first release 10.1 analysis run, make sure you read [Before your first 10.1 integration build analysis](#).

Supported upgrade paths

You can only use the migrate utility to upgrade from the last version of the product. To upgrade from earlier versions of the product, use the import method. See [Import your existing projects into a new projects_root](#) for more information.

If you're using Insight version	Then follow this upgrade path
10.0	10.0 any release --> 10.1 GA or SR.x

Interoperability between releases

Clients earlier than Klocwork Insight 10.1 cannot interoperate with a Klocwork Insight 10.1 Server. You must upgrade both your Server and Desktop Analysis plug-in installations to Klocwork Insight 10.1.

Running two versions of the Klocwork Servers

If you will be running two sets of the Klocwork Servers, for example to test the Klocwork Insight 10.1 Servers while users continue to access your existing servers, you must run them on different projects_root directories (and [set the ports appropriately](#)).

Prepare to upgrade

For details on starting and stopping the servers, see [Starting the Klocwork Servers](#) and [Stopping the Klocwork Servers](#).

To prepare to upgrade:

1. For the `projects_root` you wish to migrate, run:

```
kwservice --projects-root <projects_root> check
```

2. Make note of what servers are running and what ports they are running on. After migration to the new version of Klocwork Insight, the servers will be running on these ports.
3. Stop the servers.
4. To create a restore point, perform a complete backup of any `projects_root` directories you want to migrate. After you upgrade Klocwork Insight, you cannot undo the upgrade. For information, see [Backing up Klocwork data](#).
5. If you customized any configuration files (such as `kwmysql.ini` or `kwfilter.conf`), back up the `<server_install>/config` directory.
6. Start the servers.
7. **IMPORTANT:** To reduce the time required to migrate your Klocwork data, Klocwork **strongly recommends** that you:
 - » Delete any projects from the previous version that you do not need to migrate. See [kwadmin delete-project](#).
 - » Delete any failed project builds from the previous version. You cannot resume a build that failed in a previous release after migrating the project as described in this article. However, you may be able to load the build from tables. See [kwadmin delete-build](#).
8. Stop the servers.
9. (Optional) To create a second restore point, back up the `projects_root` directories you have prepared for migration.
10. Store the existing Klocwork license in a safe place.
11. To prevent confusion, delete the old Klocwork logs from `<projects_root>/logs`.

Install the Insight Server package

Install the version 10.1 Server package. For instructions, see [Installing Klocwork Insight](#) on page 14 for more information.

Validate your database (mandatory)

`dbvalidate` is a tool that checks the consistency of data in your database. It works on Insight versions 8.2 and later. Running this tool is mandatory, so that any errors in your database can be corrected *before* you migrate.

Note: *The Database Server from your old installation must be running to validate the database.*

Run the following command:

```
java -jar <10.1_server_install>/class/dbvalidate.jar --projects-root <projects_root>
```

where

- » `<10.1_server_install>` is your new installation directory
- » `<projects_root>` specifies the location of the old projects root you want to migrate

Example

```
java -jar C:/Klocwork/Server 10.1/class/dbvalidate.jar --projects-root  
C:\Klocwork\projects_root
```

dbvalidate will report any errors between the "validation started" and "validation finished" lines:

```
Wed Jun 01 07:53:58 CDT 2011 kw_central database (version: 95) validation started
<detected errors appear here>
Wed Jun 01 07:54:28 CDT 2011 Database validation finished.
```

- » If **Errors** are displayed, contact Klocwork [Customer Support](#), so that we can correct the error prior to migration.
- » If no errors are displayed, your database was successfully validated.

Put your new license in the correct directory

If you received a new license file from Customer Support, copy it to <projects_root>/licenses.

Note: See [Customizing licensing](#) for information on licensing options.

Migrate your Klocwork data

To migrate a projects_root, run the following command from <Klocwork_10.1_Server_install>/bin:

```
kwservice --projects-root <old_projects_root> start --migrate
```

If the projects_root migrates successfully, the Klocwork Servers start on the port numbers picked up from the migrated projects_root.

Notes:

- » If you will be running the Klocwork Servers as Windows services, after starting the servers with the *--migrate* option, stop the servers with `kwservice --projects-root <migrated_projects_root> stop`. Then start the Insight 10.1 services in Windows Services Administration.
- » You can manage the Klocwork servers remotely on Unix with SSH, or on Windows with Windows Services administration. Otherwise, you must issue the start, restart and stop commands locally.
- » The above command converts all external configuration files in the projects_root to UTF-8. As of Klocwork Insight 8.1, all external configuration files must be UTF-8 encoded if they contain multibyte characters (for example, Japanese). External configuration files are those listed in [Configuration files you can edit](#).

If you customized configuration or metrics files

- » **If you modified the MySQL configuration file** located at <old_Klocwork_install>/config/kwmysql.ini
Make the same changes to kwmysql.ini in the new installation.

Note: The following fields are no longer supported with the version of MySQL used with Insight 9.2 and later. If your previous kwmysql.ini file contains these fields, do not copy these lines to the new file:

```
skip-bdb
```

```
myisam_max_extra_sort_file_size
```

Important: Do not copy your customized configuration files into the new Insight installation. Instead, make the same customizations to the newly installed configuration files.

- » If you modified the compiler mapping file located at <old_Klocwork_install>/config/kwfilter.conf
Make the same changes to kwfilter.conf in the new installation.

Important: Do not copy your customized configuration files into the new Insight installation. Instead, make the same customizations to the newly installed configuration files.

- » The following files are obsolete as of Insight 9.5 and do not need to be migrated:
 - » the compiler configuration file (`kwcc_config.xml`)
 - See [kwinject error - Compiler can't be configured](#) for more information.
 - » compiler filter files (`<compiler_name>_filter.xml`)
 - You may need to contact Customer Support to replace your `*_filter.xml` file with a Python script. See [Adding an unsupported C/C++ compiler](#) for details.
- » **If you added custom metrics reports to Klocwork Review**, you need to edit the custom metrics report configuration file (`metrics.xml`). Prior to Klocwork Insight 9.0, the `metrics.xml` file was located at:
 - `<server_install>/webapps/review/reporting/config`
- » As of Klocwork Insight 9.0, the `metrics.xml` file is located at:
 - `<projects_root>/config`

Notes

- » As of Klocwork Insight 9.0, the `metrics.xml` file applies to a `projects_root` directory, not to an entire Klocwork installation. Therefore, if you have multiple `projects_root` directories, you will need to copy your customized `metrics.xml` file to each of your `projects_roots`.
- » As of Klocwork Insight 9.0, you need to restart the Klocwork Server after customizing the `metrics.xml` file.

Test your upgrade

Ensure that you can see your projects and builds in [Klocwork Review](#).

If you installed a new license file, ensure that it was installed correctly by [checking that the number of licenses is correct](#).

Upgrade all Desktop Analysis plug-ins

Ensure that all Klocwork plug-ins are upgraded to Insight 10.1.

Your users can reinstall their Klocwork Desktop Analysis plug-ins themselves by downloading the appropriate plug-ins from the Klocwork portal once it is up and running. See [Downloading and deploying the desktop analysis plug-ins](#) on page 24 for instructions on how to download and deploy the plug-ins to the server.

Repeat upgrade steps on other projects_root directories

To migrate another `projects_root`, carry out the steps in this chapter again (except for installing Klocwork).

Summary of upgrade steps for second or later `projects_root` directory:

1. Prepare to upgrade.
2. Run:

```
kwservice --projects-root <projects_root> start --migrate
```

3. Re-create any compiler configuration files you had customized.
4. If you added custom metrics reports to Klocwork Review, edit the custom metrics report configuration file (`metrics.xml`).
5. Test your upgrade.

Before your first version 10.1 integration build analysis

New releases of Insight normally have changes to the checker configuration to keep up with current events and respond to customer requests. These changes may mean that your checker configuration from the previous release isn't the same in the new release.

Make sure that you have the right checkers enabled to match your old configuration. See [What's New](#) for a list of updated checkers, then make any changes to your [checker configuration](#). After you're satisfied with your configuration, perform your first version 10.1 integration build analysis on unmodified source code.

Note: *If you've already run your first 10.1 analysis and you're missing some issues or status changes, delete that build, reconfigure your checkers, and run a new analysis.*

We recommend running your final pre-upgrade integration build analysis and your first version 10.1 analysis on identical source code, and then [comparing the two builds](#). This allows you to assess changes in the analysis engine. For details on improved, added and removed checkers in this version, see [What's New](#).

» Installing Klocwork Insight

Follow the steps described below to install the Klocwork Server and Desktop Analysis plug-ins. For help, see [Troubleshooting your installation](#) on page 34 below.

Installing the Klocwork Server package on Windows

This page provides instructions for installing the Klocwork Server package using the installation wizard. For instructions on unattended installation of both the Klocwork Server and desktop analysis plug-ins, see [Unattended installation on Windows](#).

Your users can install the desktop analysis plug-ins from the product portal ("pull" installation) or, if your organization is set up for it, you can install the clients for your users in an unattended ("push") installation through a Software Management System (SMS) or similar system.

Before you begin

Upgrading? See [Upgrading from a previous version](#).

Where do I get the software?

Download the [packages](#) from [Klocwork support](#). Typically, only one or two users in an organization have access to Klocwork Developer Network. If you don't have access, you can register for a new account.

You need a license. See [Getting a license](#) if you don't already have one.

Running two versions of the Klocwork Servers

If you will be running two sets of the Klocwork Servers, for example to test the Klocwork Insight 10.1 Servers while users continue to access your existing servers, you must run them on different projects_root directories (and [set the ports appropriately](#)).

Required permissions

- » Administrator access is required to install all Windows packages, whether using the installation wizard or unattended installation.
- » You must have administrator access to install the Klocwork Server.
- » You must have administrator permissions to start the Klocwork Servers (and to run the Klocwork Servers as Windows Services).
- » For Windows Server 2008, you must use the 'Run As Administrator' option in order to launch any Klocwork tools which access a projects_root that is located on a root directory.

Installation using the Windows installation wizard

Run the Klocwork Server installation wizard, following the prompts. Note the following:

- » During installation, one or more Visual C++ Runtime redistributable packages may be installed on your computer. Depending on your operating system, a reboot may be required at the end of the installation.
- » The installation package will automatically detect whether you have a 32-bit or 64-bit operating system and will install the appropriate version of Java.
- » If your system locale is Japanese, the installation package runs in Japanese. Otherwise, it runs in English.
- » You can specify server information during installation in the Klocwork Servers configuration screen to override the default settings. The defaults for the License Server are localhost and 27000. The default port for the Klocwork Server is 8080. See [Viewing and changing Klocwork server settings](#) for more information on ports.
- » For information on the *Use secure server connection (HTTPS)* checkbox, see [Using a secure Klocwork Server connection](#).
- » You'll be asked where you want to create the projects_root directory, which is the data location for the Klocwork Servers and applications. It contains Klocwork Server settings and information about integration projects and

build analysis runs. It also stores the Klocwork license file. The default location is `<server_install>\projects_root`.

Caution: Do not install the Server package and the `projects_root` in the Program Files directory. Default security settings for Windows 7 and Windows Server 2008 restrict writing to files in the Program Files directory.

- » During installation, you specify whether you want to use the locally installed License Server (*Local*) or connect to a remote License Server (*Remote*). *Local*, the default option, requires you to browse to your license file. If you select *Remote*, you must specify the host name and port number for your License Server.
- » If you specify a new `projects_root` location during installation, you have the option of starting the Klocwork Servers as Windows services automatically following installation. This option is available on the **Set up Klocwork Servers dialog** of the Server package installer. If you do not select this option, you need to start the servers manually following installation.

Note on the Path environment variable

On Windows, the Klocwork bin directory is automatically added to your Path environment variable as follows:

Installation package	Environment variable modified	Value used
Server	System Path	<code><server_install>\bin</code>
Desktop Analysis Tools	System Path	<code><desktop_analysis_tool_install>\bin</code>

Log files for Windows installation

An installation log file is saved to the Temp directory of Local Settings whenever one of the Klocwork installation packages is started on Windows. For example, on Windows 7, the installation log file is saved to `\Users\<user>\AppData\Local\Temp`.

These log files are named `Klocwork<release_number>-<package>.log`. For example, the installation log file for the Klocwork 10.1 Server package is named `Klocwork10.1-Server.log`.

A `logs` directory is also created in the root Klocwork installation directory during installation. For the Server installer, for example, the log files in this directory store *kwservice* output when the servers are first started and the `projects_root` directory is initialized.

Start the servers

To start the servers, use Windows Services Administration or *kwservice start*:

```
kwservice --projects-root <projects_root> start
```

where `<projects_root>` is the `projects_root` directory you specified during installation

Example

```
kwservice --projects-root C:\klocwork\projects_root start
```

Log in to Klocwork Review

After starting the Klocwork servers, Klocwork Review is accessible from a browser using the URL of the Klocwork server machine and the Klocwork server port chosen during the install (for example `localhost:8080`). By default, the person who installed Klocwork Insight is set as the Klocwork administrator, and is given the Projects Root Administrator role. Initially, the Basic Authentication access control method is used, so no password is needed to log in. For example,

if the user account used during the installation was 'jsmith', to log in to Review with the administrator role, use the credentials:

```
username: jsmith  
password: <empty>
```

For more details on security and authentication methods, see [Security and permissions](#)

Installing the Klocwork Server package on Windows -- Upgrade only

This page provides instructions for installing the Server package if you are upgrading.

IMPORTANT: This is not the starting point for upgrading. Make sure you start with [Upgrading from a previous version](#).

Before you begin

Where do I get the software?

Download the [packages](#) from [Klocwork support](#). Typically, only one or two users in an organization have access to Klocwork Developer Network. If you don't have access, you can register for a new account.

Required permissions

- » Administrator access is required to install all Windows packages, whether using the installation wizard or unattended installation.
- » You must have administrator access to install the Klocwork Server.
- » You must have administrator permissions to start the Klocwork Servers (and to run the Klocwork Servers as Windows Services).
- » For Windows Server 2008, you must use the 'Run As Administrator' option in order to launch any Klocwork tools which access a projects_root that is located on a root directory.

Run the installation wizard

Run the Klocwork Server installation wizard, following the prompts. Note the following:

- » The installation package will automatically detect whether you have a 32-bit or 64-bit operating system and will install the appropriate version of Java.
- » If your system locale is Japanese, the installation package runs in Japanese. Otherwise, it runs in English.
- » **Caution:** Do not install the Server package and the projects_root in the Program Files directory. Default security settings for Windows 7 and Windows Server 2008 restrict writing to files in the Program Files directory.
- » For information on the *Use secure server connection (HTTPS)* checkbox, see [Using a secure Klocwork Server connection](#).
- » When prompted for the location of the projects_root directory, specify the **old** projects_root directory that you want to migrate.
- » You do not need to set host names and port numbers for the Klocwork Servers during installation. This information will be picked up from your old projects_root directory when it is migrated.
- » Do not select the option to start the Klocwork Servers as Windows services automatically. You will start the servers in a later step.
- » The Klocwork bin directory (<server_install>\bin) is automatically added to your System Path environment variable.

Log files

An installation log file is saved to the Temp directory of Local Settings whenever one of the Klocwork installation packages is started on Windows. For example, on Windows 7, the installation log file is saved to \Users\<user>\AppData\Local\Temp.

These log files are named Klocwork<release_number>-<package>.log. For example, the installation log file for the Klocwork 10.1 Server package is named Klocwork10.1-Server.log.

A `logs` directory is also created in the root Klocwork installation directory during installation. For the Server installer, for example, the log files in this directory store [kwservice](#) output when the servers are first started and the `projects_root` directory is initialized.

Installing the Klocwork Server package on Unix

This page provides instructions for installing the Klocwork Server package using the installer.

Before you begin

Upgrading? See [Upgrading from a previous version](#).

Where do I get the software?

Download the [packages](#) from [Klocwork support](#). Typically, only one or two users in an organization have access to Klocwork Developer Network. If you don't have access, you can register for a new account.

You need a license. See [Get a license](#) if you don't already have one.

Running two versions of the Klocwork Servers

If you will be running two sets of the Klocwork Servers, for example to test the Klocwork Insight 10.1 Servers while users continue to access your existing servers, you must run them on different `projects_root` directories.

Check the system requirements

Refer to the [System requirements](#) for a list of required packages and dependencies.

Installation notes

- » **Linux only:** There are separate installation packages for 32-bit and 64-bit Java. Make sure you select the one that matches your operating system.
- » `ulimit -n` must be 2048 in order to run the Klocwork Server.
- » Ensure that the downloaded `.sh` file is executable. Use the `chmod` command to set the appropriate permissions: `chmod 755 <kw-installer.sh>`
- » To control permissions when you are installing Klocwork, change the value of `umask`.
- » Install Klocwork software as a non-root user.
- » Ensure that the path in which you install the product is the same path from which users invoke the product. For example, the local path to the installation might be `/local/tools/klocwork`, but users on other machines have to use the NFS path `/opt/tools/klocwork` to invoke the product. Therefore, to ensure that users can invoke the product, use the `/opt/tools/klocwork` path during installation.
- » For some Linux installations, if you want to run the Klocwork Server, you may be required to install additional third-party libraries. For example: `libaio1`, `libaio`, or `libaio.x86_64`.

Note: Due to MySQL limitations, the `projects_root` directory should not be located on NFS. It has a special file locking implementation which is not fully supported by MySQL. See also the [warning in the MySQL documentation](#).

Running the installation package

Run the following command:

```
kw-server-installer.10.1.x.x.<platform>.sh [options] <install_directory> [<component ...>]
```

where

- » `<platform>` is `solaris`, `linux` or `aix`
- » `[<options>]` are any of the options listed in Command-line options for the Server package.

- » `<install_directory>` specifies the directory in which you want to install Klocwork. Do not specify a subdirectory of the `projects_root` directory. Note that if the chosen directory is not empty, you will not be able to continue with the installation.
- » `[<component ...>]` is any of the arguments from [Arguments for Server components](#). Separate multiple components with spaces. If you do not specify one or more components, the entire package will be installed. You can also see a list of arguments for the various components with the `--list` option.

Command-line options for the Server package

Name	Short name	Description
<code>--agree</code>	<code>-a</code>	Agree to license terms and do not display license agreement.
<code>--database-port <port_number></code>		Specify the port number that you will use to run the Database Server. Default: 3306. This option is equivalent to specifying the port number with kwservice .
<code>--debug</code>		Print debug information
<code>--force</code>	<code>-f</code>	Install without integrity checks
<code>--help</code>	<code>-h</code>	Display this help and exit
<code>--klocwork-port <port_number></code>		Specify the port number that you will use to run the Klocwork Server. Default: 8080. This option is equivalent to specifying the port number with kwservice .
<code>--license-port <port_number></code>		Specify that the License Server will be run locally, but on a non-default port. Default: 27000. This option is equivalent to specifying the port number with kwservice .
<code>--license-server <host>[:<port>]</code>		Specify a remote License Server host. The host argument is required; the port argument is optional. Default: localhost:27000. This option is equivalent to specifying the host and port with kwservice . See also Using your organization's FLEXlm server .
<code>--list</code>	<code>-l</code>	List available features (components)
<code>--projects-root <directory></code>	<code>-p</code>	Specify the complete path to a non-default <code>projects_root</code> directory. Default: <code><install_directory>/projects_root</code> . The directory you specify must meet one of the following conditions: <ul style="list-style-type: none"> » it does not yet exist » it is empty » it is a valid <code>projects_root</code> directory created previously Do not specify the same directory as the root Klocwork installation directory you have specified. Do not install Klocwork in a subdirectory of the <code>projects_root</code> directory. IMPORTANT: If you are upgrading, specify the old <code>projects_root</code> directory that you want to migrate.
<code>--use-ssl</code>		use a secure Klocwork server connection (HTTPS)
<code>--version</code>	<code>-v</code>	display the version of Klocwork software and exit

Arguments for Server components

To install this Server component (feature)...	...enter the argument...
License Server	LicenseServer
Klocwork Server	KlocworkServer
Administration and analysis management tools	BuildTools

Add Klocwork to your PATH

On Unix, we recommend adding <klocwork_install>/bin to your PATH. Otherwise, you need to execute commands from <klocwork_install>/bin.

Copy the license file

Copy your license file to the following location:

<projects_root>/licenses

The license file must have the extension .lic.

Note: See [Customizing licensing](#) for licensing options such as using your organization's license server.

Start the servers

Start the servers with *kwservice start*:

```
kwservice --projects-root <projects_root> start
```

where <projects_root> is the projects_root directory you specified during installation

Example

```
kwservice --projects-root /space/klocwork/projects_root start
```

You see messages indicating that the servers have been started, showing the server host name and port number and the path to the projects_root. For example:

```
Using projects root: /space/klocwork/projects_root Local Host is: serverxyz.com  
[13.1.1.142] Starting License Server [started on serverxyz.com:27000] (projects  
root is /space/klocwork/projects_root) Starting Database Server [started on  
serverxyz.com:3306] (projects root is /space/klocwork/projects_root) Starting  
Klocwork Server [started on serverxyz.com:8080] (projects root is  
/space/klocwork/projects_root)
```

Important: If you create a script to start the Klocwork servers automatically, do not name your script 'klocwork' as it will interfere with existing processes.

Log in to Klocwork Review

After starting the Klocwork servers, Klocwork Review is accessible from a browser using the URL of the Klocwork server machine and the Klocwork server port chosen during the install (for example localhost:8080). By default, the person who installed Klocwork Insight is set as the Klocwork administrator, and is given the Projects Root Administrator role. Initially, the Basic Authentication access control method is used, so no password is needed to log in. For example,

if the user account used during the installation was 'jsmith', to log in to Review with the administrator role, use the credentials:

```
username: jsmith
password: <empty>
```

For more details on security and authentication methods, see [Security and permissions](#)

Installing the Klocwork Server package on Unix -- Upgrade only

This page provides instructions for installing the Server package if you are upgrading.

Important: *This is not the starting point for upgrading. Make sure you start with [Upgrading from a previous version](#).*

Before you begin

Where do I get the software?

Download the [packages](#) from [Klocwork support](#). Typically, only one or two users in an organization have access to Klocwork Developer Network. If you don't have access, you can register for a new account.

Installation notes

- » **Linux only:** There are separate installation packages for 32-bit and 64-bit Java. Make sure you select the one that matches your operating system.
- » `ulimit -n` must be 2048 in order to run the Klocwork Server.
- » Ensure that the downloaded .sh file is executable. Use the `chmod` command to set the appropriate permissions: `chmod 755 <kw-installer.sh>`
- » To control permissions when you are installing Klocwork, change the value of `umask`.
- » Install Klocwork software as a non-root user.
- » Ensure that the path in which you install the product is the same path from which users invoke the product. For example, the local path to the installation might be `/local/tools/klocwork`, but users on other machines have to use the NFS path `/opt/tools/klocwork` to invoke the product. Therefore, to ensure that users can invoke the product, use the `/opt/tools/klocwork` path during installation.

Note: *Due to MySQL limitations, the `projects_root` directory should not be located on NFS. It has a special file locking implementation which is not fully supported by MySQL. See also the [warning in the MySQL documentation](#).*

Run the installation package

Run the following command:

```
kw-server-installer-10.1.x.x.<platform>.sh -p <projects_root> [options]
<install_directory> [component ...]
```

where

- » `<platform>` is `solaris`, `linux` or `aix`
- » `<projects_root>` is the location of the **old** `projects_root` directory that you want to migrate
- » `[<options>]` are any of the options listed in [Command-line options for the Server package](#)

Note: *You do not need to set host names and port numbers for the Klocwork Servers during installation. This information will be picked up from your old `projects_root` directory when it is migrated.*

- » `<install_directory>` specifies the directory in which you want to install Klocwork. Do not specify a subdirectory of the `projects_root` directory. Note that if the chosen directory is not empty, you will not be able to continue with the installation.
- » [`<component ...>`] is any of the arguments from [Arguments for Server components](#). Separate multiple components with spaces. If you do not specify one or more components, the entire package will be installed. You can also see a list of arguments for the various components with the `--list` option. Note that an asterisk in the returned output means the component is already installed.

Example

```
kw-server-installer-10.1.0.0.linux.sh -p /space/old_projects_root /opt/klocwork
```

Command-line options for the Server package

Name	Short name	Description
<code>--agree</code>	<code>-a</code>	Agree to license terms and do not display license agreement.
<code>--database-port <port_number></code>		Specify the port number that you will use to run the Database Server. Default: 3306. This option is equivalent to specifying the port number with kwservice .
<code>--debug</code>		Print debug information
<code>--force</code>	<code>-f</code>	Install without integrity checks
<code>--help</code>	<code>-h</code>	Display this help and exit
<code>--klocwork-port <port_number></code>		Specify the port number that you will use to run the Klocwork Server. Default: 8080. This option is equivalent to specifying the port number with kwservice .
<code>--license-port <port_number></code>		Specify that the License Server will be run locally, but on a non-default port. Default: 27000. This option is equivalent to specifying the port number with kwservice .
<code>--license-server <host>[:<port>]</code>		Specify a remote License Server host. The host argument is required; the port argument is optional. Default: localhost:27000. This option is equivalent to specifying the host and port with kwservice . See also Using your organization's FLEXlm server .
<code>--list</code>	<code>-l</code>	List available features (components)
<code>--projects-root <directory></code>	<code>-p</code>	Specify the complete path to a non-default <code>projects_root</code> directory. Default: <code><install_directory>/projects_root</code> . The directory you specify must meet one of the following conditions: <ul style="list-style-type: none"> » it does not yet exist » it is empty » it is a valid <code>projects_root</code> directory created previously Do not specify the same directory as the root Klocwork installation directory you have specified. Do not install Klocwork in a subdirectory of the <code>projects_root</code> directory. <p>IMPORTANT: If you are upgrading, specify the old <code>projects_root</code> directory that you want to migrate.</p>
<code>--use-ssl</code>		use a secure Klocwork server connection (HTTPS)
<code>--version</code>	<code>-v</code>	display the version of Klocwork software and exit

Arguments for Server components

To install this Server component (feature)...	...enter the argument...
License Server	LicenseServer
Klocwork Server	KlocworkServer
Administration and analysis management tools	BuildTools

Add Klocwork to your PATH

On Unix, we recommend adding <klocwork_install>/bin to your PATH. Otherwise, you need to execute commands from <klocwork_install>/bin.

Installing the Klocwork Server package on Mac

This page provides instructions for installing the Klocwork Server package using the installer.

Before you begin

Upgrading? See [Upgrading from a previous version](#).

Where do I get the software?

Download the [packages](#) from [Klocwork support](#). Typically, only one or two users in an organization have access to Klocwork Developer Network. If you don't have access, you can register for a new account.

You need a license. See [Getting a license](#) if you don't already have one.

Prerequisites

- » **JVM versions:** You must install JVM 1.6 on your machine before installing the Klocwork Server package or a desktop analysis plug-in. If you have a previous JVM version installed and you try to install the Server, you will see the error message, "Version of Java is too old". Apple supplies their own version of Java. Use the Software Update feature on your Mac.
- » **Access level:** When installing the Mac packages, you must have administrator access.
- » If your organization uses GCC, make sure the correct version of the compiler is in your PATH before you run the installation program. Including the GCC compiler in your PATH automatically creates default links to standard GCC libraries and defines for all the projects you create. Note that any user can override these defaults for a particular project or build by not including the standard libraries and defines. If your organization does not use GCC, do not include it in your PATH when you run the installation program.

Default settings and installation directories

- » The Klocwork Server and desktop analysis packages are installed in the /Applications/ and /Library/Frameworks/ directories.
- » Access command-line tools using the symbolic links in /usr/local/kw/.
- » The projects_root directory installs to /Users/Shared/Klocwork/projects_root/ by default.
- » The Klocwork Servers are set to localhost, running on the default ports.

You can override server settings and specify where the projects_root is created during installation.

Running the installation package

Copy the Klocwork Server installation package to your desktop and run it, following the prompts. Please note the following:

- » The Server Settings screen is where you can adjust:
 - » the location of the projects_root directory
 - » ports for the Klocwork and Database Servers

- » During installation, you specify whether you want to use the locally installed License Server (*Local*) or connect to a remote License Server (*Remote*). *Local*, the default option, requires you to browse to your license file. If you select *Remote*, you must specify the host name and port number for your License Server.

Troubleshooting

Check the installation log from the Console (**Applications > Utilities**) or `var/log/install.log`.

Start the servers

Start the servers with *kwservice start*:

```
kwservice --projects-root <projects_root> start
```

where `<projects_root>` is the `projects_root` directory you specified during installation

Example

```
kwservice --projects-root /Users/Shared/Klocwork/projects_root start
```

You see messages indicating that the servers have been started, showing the server host name and port number and the path to the `projects_root`. For example:

```
Using projects root: /space/klocwork/projects_root Local Host is: serverxyz.com
[13.1.1.142] Starting License Server [started on serverxyz.com:27000] (projects root
is /space/klocwork/projects_root) Starting Database Server [started on
serverxyz.com:3306] (projects root is /space/klocwork/projects_root) Starting Klocwork
Server [started on serverxyz.com:8080] (projects root is /space/klocwork/projects_root)
```

Log in to Klocwork Review

After starting the Klocwork servers, Klocwork Review is accessible from a browser using the URL of the Klocwork server machine and the Klocwork server port chosen during the install (for example `localhost:8080`). By default, the person who installed Klocwork Insight is set as the Klocwork administrator, and is given the Projects Root Administrator role. Initially, the Basic Authentication access control method is used, so no password is needed to log in. For example, if the user account used during the installation was 'jsmith', to log in to Review with the administrator role, use the credentials:

```
username: jsmith
password: <empty>
```

For more details on security and authentication methods, see [Security and permissions](#)

Installing the Klocwork Server package on Mac -- Upgrade only

This page provides instructions for installing the Server package if you are upgrading.

Important: *This is not the starting point for upgrading. Make sure you start with [Upgrading from a previous version](#).*

Running the installation package

Copy the Server installation package to your desktop and run it, following the prompts. Please note the following:

- » All components of the Klocwork Server package are installed. You can't specify which components you want to install.
- » On the Server Settings screen, when prompted for the location of the `projects_root`, specify the **old** `projects_root` directory that you want to migrate.

- » You do not need to set host names and port numbers for the Klocwork Servers during installation. This information will be picked up from your old projects_root directory when it is migrated.

Installation directories

- » The Server package is installed in the /Applications/ and /Library/Frameworks/ directories.
- » Access command-line tools using the symbolic links in /usr/local/kw/.

Troubleshooting

Check the installation log from the Console (**Applications > Utilities**) or var/log/install.log.

Downloading and deploying the desktop analysis plug-ins

The desktop analysis tools refer to the desktop analysis plug-ins and the Klocwork Command Line tools.

As Klocwork Administrator, you can download the desktop analysis tools from <http://developer.klocwork.com/support/downloads> (see **Desktop Tools Packages**), unzip them, and place them within the clients directory of the Klocwork Server installation. This will allow your users to download a desktop analysis tool directly from the portal. Once downloaded, your users can easily install a desktop analysis plug-in on their own.

Depending on your corporate IT policies, you may decide to install the Klocwork desktop analysis tools yourself, as part of a controlled rollout. If this is the case, follow the steps below to download the Klocwork Desktop tools, then see the [installation instructions](#) for details on how to install the plug-ins on your user's desktops.

The Klocwork Desktop Tools packages are organized by platform, where each archive contains a plug-in for IntelliJ IDEA, Visual Studio (Windows-only), and the Command Line tools package. The Eclipse update site archive is platform independent.

Package	Platform
kw-insight-desktop-tools.10.1.0.xxxx.windows.zip	Windows
kw-insight-desktop-tools.10.1.0.xxxx.mac.zip	Mac
kw-insight-desktop-tools.10.1.0.xxxx.linux.zip	Linux
kw-insight-desktop-tools.10.1.0.xxxx.solaris.zip	Solaris

Note: the xxxx portion of the path indicates the minor build number.

To deploy the Klocwork Desktop tools:

1. Download the applicable Klocwork Desktop tools package from the [download site](#) at developer.klocwork.com. You'll need to log in to the site using your Klocwork Developer Network user ID and password. If you do not currently have a Klocwork Developer Network user ID and password, you'll need to register as a new user.
2. Once downloaded, unzip the Desktop Tools package archive into the <server_install_path>\clients directory, where <server_install_path> is the location of your Klocwork Server installation on Windows.
 - » On Linux, the folder is located at <server_install_path>/clients
 - » On Mac, the folder is located at /usr/local/kw/server/clients or /Library/Frameworks/KlocworkServer.framework/Versions/10.1/clients

Note: This directory contains a single file called clients.json. **Do not delete this file.**

1. Refresh the portal and verify that the **Downloads** list appears on the right hand side of the portal. The **Downloads** list contains links to the desktop analysis plug-ins. Your users can download and install the desktop analysis tools directly from here.
2. Communicate the deployment to your users, either by sending them a link to the portal and to the [installation instructions](#) or by sending an internal email that describes how users can download and install the plug-ins.

Installing a desktop analysis plug-in

After you (as Klocwork Administrator) have installed and started the Klocwork Servers, and downloaded and deployed the desktop analysis plug-ins to the server installation, your users can access the product portal and download and install a desktop analysis plug-in. If your users prefer to work on the command line or wish to do a combination of both, they may want to install the command line tools.

Note: The **Downloads** section will not appear in the portal until the Klocwork Administrator has deployed the plug-ins. See [Downloading and deploying the desktop analysis plug-ins](#) for more information.

For more information about deploying the desktop analysis plug-ins see, [Downloading and deploying the desktop analysis plug-ins](#).

To install a plug-in, open the product on the machine where you've installed Insight. For example, go to:

`http://server01:8080/portal/Portal.html`

Install your plug-in

As a desktop analysis user, once you've downloaded the installation package from the server, you must run the installer. On Windows and Mac, an installation wizard is provided to guide you through the installation process.

Before you begin

- » You can override the default settings for the Klocwork Servers during installation. The defaults for the License Server are localhost and 27000. The default port for the Klocwork Server is 8080.
- » **On Windows:** Change Current Destination Directory screen: Avoid installing the package in the Program Files directory on Windows Vista, Windows Server 2008 and Windows 7 machines. Windows User Access Control (UAC) restricts writing to the Program Files directory.
- » Klocwork Servers configuration screen: Specify the Klocwork Server information provided by your Klocwork administrator. Select *Use secure server connection (HTTPS)* if a [secure Klocwork Server connection](#) has been configured.
- » **JVM version:** You must install JVM 1.6 Update 45 or later or JVM 1.7 update 25 or later on your machine before installing the desktop analysis plug-in.
- » Make sure that you have the appropriate administrator access before installing the desktop plugin.
- » **On Unix:**
 - » To control permissions when you are installing Klocwork Insight, change the value of umask.
 - » To change the permissions on an existing installation, use `chmod`.
 - » Install Klocwork software as a non-root user.
 - » **Linux only:** There are separate installation packages for 32-bit and 64-bit Java. Make sure you select the one that matches your operating system.

On Windows and Mac

For each of these plug-ins on Windows and Mac, simply download the package and run the installation wizard. The installation wizard will guide you through the rest of the process.

On Mac

- » Files are installed in the following location: `/Library/Frameworks/`
- » Access command-line tools using the symbolic links in `/usr/local/kw/`.

On Unix

You can install the packages using the following command:

```
kw-insight-<plug-in>-installer.sh [options] <install_directory>
```

Where

- » <plug-in> is the name of the plug-in you want to install. For example, 'cmd' or 'idea'.
- » [options] are any command line options you may want to specify. In most cases, just specify '-a' here to indicate that you agree to the terms of the Klocwork license. Use --h to get help on what available command line options exist.
- » <install_directory> specifies the directory where the Insight plug-in will be installed

Add the bin directory to your PATH

We recommend adding the <command_line_tools_install>/bin directory to your PATH environment variable. Procedures in the documentation assume that you have added the bin directory to your PATH.

Command-line options for the desktop analysis plugin package on Unix

Name	Short name	Description
--agree	-a	agree to license terms and do not display license agreement
--force	-f	install without integrity checks
--help	-h	display this help and exit
--klocwork-server <host>[:<port>]		specify the Klocwork Server host name and port number. Default: localhost:8080.
--license-server <host>[:<port>]		specify the License Server host name and port number. Default: localhost:27000
--use-ssl		use a secure Klocwork Server connection
--version	-v	display the version of Klocwork software and exit
--debug		print the debug information

Example: Installing the Command Line Tools package on Linux

```
kw-cmd-installer.linux64.sh -a /home/jlee/klocwork
```

where

- » -a means that you agree to the terms of the Klocwork license
- » /home/jlee/klocwork specifies where Klocwork Insight will be installed

Example: Installing Klocwork Desktop Plug-in for IntelliJ IDEA on Linux

```
kw-idea-installer.linux64.sh -a "/opt/klocwork/user 10.1" --klocwork-server  
server1:8084
```

where

- » -a means that you agree to the terms of the Klocwork license
- » "/opt/klocwork/user 10.1" is the path to the Klocwork user install directory
- » --klocwork-server specifies the name and port of the Klocwork server

Installing the Klocwork plug-in from the Eclipse update site

Prerequisites:

- » The Downloads section (which contains the Eclipse update site link) will not appear in the portal until the Klocwork Administrator has deployed the plug-ins. See [Downloading and deploying the desktop analysis plug-ins](#) for more information.

To install the Klocwork Desktop Analysis plug-in for Eclipse, simply follow the steps below.

1. In the Insight product portal, under **Downloads**, click **Eclipse update site**.
2. Copy the URL specific to your platform.
3. Open Eclipse.

Important: The Klocwork plug-in for Eclipse C/C++ requires the Microsoft Visual C++ 2008 Redistributable Package(32-bit) and the Microsoft Visual C++ 2012 Redistributable Package(32-bit), which you need to install manually. You can download them both by accessing the Insight product portal and selecting **Eclipse update site** under **Downloads**.

Follow the instructions according to the version of Eclipse you're using:

Eclipse 3.4	Eclipse 3.5 and greater
4. In Eclipse, go to Help > Software Updates .	4. In Eclipse, go to Help > Install New Software .

Wind River Workbench: Select the *Advanced Device Development* perspective (the button near the upper right) to access **Help > Software Updates**.

5. In the **Install** dialog, paste the URL into the **Work with:** field.
6. Now click the box next to Klocwork Tools, click Next and the wizard will guide you through the rest of the installation process.
7. When you are prompted to restart Eclipse, click **Yes**.

Troubleshooting

- » [Package Load Failure occurs in Visual Studio after I install patch](#)
- » [Error reading setup initialization file during installation](#)

» Running a custom installation for new or upgraded IDEs

If, after you installed Klocwork Insight, you upgraded your IDE, you must uninstall the previous version of the plug-in. For uninstallation information, see [Uninstalling Klocwork Insight](#).

After uninstalling, either:

- » re-run the Klocwork desktop analysis plug-in installer, or
- » install from the Eclipse plugin from the update site in your new version of Eclipse

If you're using Klocwork Desktop Command Line or Klocwork Desktop, you don't have to do anything further.

Upgrade steps are provided below, by IDE plug-in.

Visual Studio

In Windows, go to **Control Panel > Programs and Features**. Right-click **Klocwork for Visual Studio** and select **Change** to modify your settings.

Deselect features you don't want installed.

Eclipse

Regardless of the Eclipse version you upgraded to, simply install the Eclipse plugin from the update site. See [Install the Klocwork plug-in from the Eclipse update site](#).

IntelliJ IDEA

If you installed the upgraded version of IntelliJ IDEA in the same directory, you don't need to do anything further.

If you installed IDEA to a different location:

» Windows:

Re-run the Klocwork desktop analysis for IntelliJ IDEA installer.

During installation, Klocwork Insight automatically detects your IntelliJ IDEA directory and installs the plug-in directory to that location. If more than one IDEA installation directory is detected, you have to browse to the preferred location.

» Linux:

Run the following command:

```
kw-idea-installer.linux64.sh -a <user_install>
```

where

- » <user_install> is the directory where you want to install Klocwork. Note that if the chosen directory is not empty, you will not be able to continue with the installation.

Example:

```
kw-idea-installer.linux64.sh -a /home/jlee/Klocwork
```

» After you install

The following topics describe post-installation activities including testing your installation, running an unattended installation, installing the distributed analysis package, and troubleshooting.

Installing the Distributed Analysis package

The Distributed Analysis components are available as a separate Klocwork installation package (for example, on Linux, the package is `kw-dist-build-installer.10.x.x.xx.linux.sh`).

Installing on Unix

To install the complete Klocwork Distributed Analysis package on Unix:

1. Download the Klocwork Distributed Analysis installation package for your operating system to a temporary directory.
2. Ensure that the downloaded `.sh` file is executable. Use the `chmod` command to set the appropriate permissions. Enter:

```
chmod 755 <executable-name>
```

Note: *Install Klocwork software as a non-root user.*

3. Run the executable with the options and arguments you want.

```
<kw-dist-analysis-installer> -a -i <install_directory>
```

where:

`<kw-dist-analysis-installer>` is the name of the installation executable

`-a` indicates that you accept the license agreement

`<install_directory>` is the absolute path to the location in which you want to install the Distributed Analysis package

Installing on Windows

On Windows, you can use the installation wizard or perform an unattended installation.

To install the Klocwork Distributed Analysis package on Windows, you must have administrator permissions for the machine you want to install on.

Installing Klocwork with the installation wizard

To install the Klocwork Insight Distributed Analysis package or its components on a local machine:

1. Download the Klocwork Distributed Analysis package for Windows to a temporary directory.
2. Run the installation executable.
 - The graphical user interface initializes and prepares.
 - The Welcome screen of the wizard appears.
3. Click **Next**.
 - The License Agreement screen appears.
4. Review the license agreement, and, if you agree, click "I accept the terms of the license agreement".

5. Click *Next*.

The "Destination Directory" screen appears.

The default destination directory is the local drive with the most available space. For example:

D:\Klocwork\Distributed Analysis 10.1\

6. Click *Next* to accept the default folder or click *Change...* to install Klocwork in a different location.

If you click **Change...**, the Change Current Destination Folder screen appears. Browse to the folder where you want to install Klocwork.

Important: Avoid installing the package in the Program Files directory on Windows Vista, Windows Server 2008 and Windows 7 machines. Windows User Access Control (UAC) restricts writing to the Program Files directory.

7. Click *OK*.

8. Click *Next*.

The Setup Type screen appears.

By default, the Complete button is selected.

9. To install the entire Klocwork Distributed Analysis package on one machine, leave the *Complete* button selected and go to step 11.

To select one component to install on this machine, click *Custom* and click **Next**.

The Custom Setup screen appears, showing two choices.

Note: In the Windows installation wizard, the term "feature" means "component".

If there is a component you do not want to install on this machine, click the icon of the component and click **This feature will not be available**. Any components you do *not* disable will be installed. Click off **Klocwork Distributed Analysis Server** or **Klocwork Distributed Analysis Agent**, depending on which component you do *not* wish to install.

Important: Ensure that you choose a location with enough disk space. See [System requirements](#). To see how much disk space is available on the machine, click **Space**.

10. Click *Next*.

The Ready to Install the Program screen appears.

11. To review or change any of your installation settings, click *Back*. To continue the installation with the settings you have, click *Install*.

A progress bar appears while Klocwork installs.

The Setup Wizard Completed screen appears.

12. Click *Finish*.

Running an unattended installation on Windows

To run an unattended Windows installation of the Distributed Analysis package, enter the following command:

```
<kw-dist-build-installer> /S/v"/qn [ADDLOCAL=<component_code>]  
INSTALLDIR=<install_directory> /lv* <log_file>"
```

where:

» <kw-dist-build-installer> is the name of the Windows Distributed Analysis installation executable

- » ADDLOCAL=<component_code> is optional and allows you to install only the Server or the Agent component of the package
- » <component_code> is either DistributedAnalysisServer or DistributedAnalysisAgent
- » <install_directory> is the absolute path to the directory in which you want to install
- » /lv* <log_file> allows you to log installation errors to file (recommended). The directory you specify must already exist. Use the absolute path to the log file.

Note: Surround any value that contains spaces with escaped quotation marks (`\`).

Example:

```
kw-dist-build-installer.10.1.0.0.windows.exe /S /v"/qn
INSTALLDIR="C:\Klocwork\10.1.0.0\Distributed Analysis\" <br/>/lvx*
C:\Klocwork\dist_analysis.log"
```

Log files for Windows installation

An installation log file is saved to %USERPROFILE%\Local Settings\Temp whenever one of the Klocwork installation packages is started on Windows.

These log files are named Klocwork<release-number>-<package>.log. For example, the installation log file for the Klocwork 10.1 Server package is named Klocwork10.1-Server.log.

A logs directory is also created in the root Klocwork installation directory during installation on Windows. For the Server installer, for example, the log files in this directory store *kwservice* output when the servers are first started and the projects_root directory is initialized.

If you need to troubleshoot your installation, check these logs.

Unattended installation on Windows

To run an unattended installation of Klocwork Insight, enter the following command:

```
start /WAIT <installer.exe> /w /S [/L<langid>] /v"/qn INSTALLDIR=<install_directory>
/log <install_log> PROPERTY=VALUE PROPERTY1=VALUE1..."
```

where:

- » <installer.exe> is the name of the installation package you want to use, for example, kw-server-installer.10.1.0.0.windows.exe
- » /w parameter will cause the parent process to wait for the installation process. See the [InstallShield help library](#) for more information on this.

Note: The %errorlevel% system variable can be used to check for installation success.

- » /L<langid> allows you to change the default language for the installation package. By default, if your system locale is Japanese, the installation package will run in Japanese. Otherwise, it will run in English. To specify Japanese, use /L1041.
- » /v passes subsequent parameters directly to the MSI engine. The entire string after /v must be surrounded by quotation marks.
- » /qn runs the installer in unattended mode
- » <install_directory> is the absolute path to the directory in which you want to install Klocwork Insight. The default is the root directory of the local drive with the most available space. %LOCAL_DRIVE%\Klocwork\<package>, where <package> can be Server or one of the desktop packages. Note that if the chosen directory is not empty, you will not be able to continue with the installation.
- » PROPERTY=VALUE is any of the [Allowable PROPERTY=VALUE pairs for unattended installation](#)

Note: Surround any value that contains spaces with escaped quotation marks (`\`).

Example

```
start /WAIT kw-server-installer.10.1.0.0.windows.exe /w /S /v"/qn
INSTALLDIR="D:\Klocwork\Server 10.1\" /log C:\server.log"
```

Installing a desktop analysis tool

You can install the desktop analysis tools using unattended installation, however you must first download the desktop tools package from <http://developer.klocwork.com/support/downloads> (see **Desktop Tools Packages**) and unzip them into a folder on your local machine. The desktop tools package contains installation binaries for each of the desktop tools, organized by platform. For more information see, [Downloading and deploying the desktop analysis plug-ins](#).

Once unzipped and placed into a directory on your local computer, run the unattended installation from the command-line, specifying the file name of the installer for the desktop tool that you want to install. In the following example, the IntelliJ IDEA plug-in is installed into a custom directory.

Example

```
start /WAIT kw-insight-idea-installer.windows.exe /w /S /v"/qn
INSTALLDIR="C:\kw\idea_plugin\" /log C:\idea_install.log"
```

Installing specific components in unattended mode

To install one or more specific Klocwork Insight components (for example, to install the database server) in an unattended installation, include `ADDLOCAL=<component_arguments>` in your command line, where `<component_arguments>` is one or more arguments from the following tables. Multiple arguments must be separated by commas.

To install this Server component (feature)...	...enter the argument...
License Server	LicenseServer
Klocwork Server	KlocworkServer
Administration and analysis management tools	BuildTools

Allowable PROPERTY=VALUE pairs for unattended installation

Server package

PROPERTY=VALUE	Description
ADDLOCAL=<component_list>	Installs specific components only. See tables in previous section for allowable values for this property.
INSTALLDIR=<install_directory>	Install into the directory you specify. Default: current working directory. Note that if the chosen directory is not empty, you will not be able to continue with the installation.
PROJECTS_ROOT=<projects_root_directory>	Set up a <code>projects_root</code> directory in the directory you specify. The default is <code><Server_install>/projects_root</code> . Specify the complete path. Important: If you are upgrading, specify the old <code>projects_root</code> directory that you want to migrate.
LICENSE_HOST=<host_name>	Specify License Server host name. Default: localhost

PROPERTY=VALUE	Description
LICENSE_PORT=<port_number>	Specify License Server port number. Default: 27000
MYSQL_HOST=<host_name>	Specify Database Server host name. Default: localhost
MYSQL_PORT=<port_number>	Specify Database Server port number. Default: 3306
KWSERVER_HOST=<host_name>	Specify Klocwork Server host name. Default: localhost
KWSERVER_PORT=<port_number>	Specify Klocwork Server port number. Default: 8080
USE_SSL=1	To use a secure Klocwork Server connection , set this value to 1. Default: 0

Note: The Server Installer also supports the ALLUSERS property. For details, see [this MSDN article](#).

Desktop plugins

Name	Description
ADDLOCAL=<component_arguments>	Installs specific components only. See tables in previous section for allowable values for this property.
CREATE_SHORTCUTS=""	Suppress creation of desktop shortcuts. Default: 1 (create shortcuts)
IDEAINSTALLDIR= <directory>	The directory where IntelliJ IDEA is installed
INSTALLDIR=<directory>	Install into the directory you specify. Default: current working directory. Note that if the chosen directory is not empty, you will not be able to continue with the installation.
LICENSE_HOST=<host_name>	Use License Server running at <host_name>
LICENSE_PORT=<port_number>	Use License Server running at <port_number>
KWSERVER_HOST=<host_name>	Use Klocwork Server running at <host_name>
KWSERVER_PORT=<port_number>	Use Klocwork Server running at <port_number>
USE_SSL=1	To use a secure Klocwork Server connection , set this value to 1. Default: 0

Testing your installation

To test your Klocwork installation, you can either use the sample project 'demosthenes', or create and analyze your own sample project.

Log in to Klocwork Review

After starting the Klocwork servers, Klocwork Review is accessible from a browser using the URL of the Klocwork server machine and the Klocwork server port chosen during the install (for example localhost:8080). By default, the person who installed Klocwork Insight is set as the Klocwork administrator, and is given the Projects Root Administrator role. Initially, the Basic Authentication access control method is used, so no password is needed to log in. For example, if the user account used during the installation was 'jsmith', to log in to Review with the administrator role, use the credentials:

```
username: jsmith
password: <empty>
```

For more details on security and authentication methods, see [Security and permissions](#)

Using demosthenes

In `<Klocwork_install>\samples`, you can find the Demosthenes sample project (a sample C/C++ project).

This directory contains a sample project and a readme file that shows you how to set up some sample analyses you can use to explore or demonstrate Klocwork.

Note: *To successfully build a sample project on Unix you should have GNU make, GCC and bash.*

Create and analyze a sample project

To test your Server package installation, you can create and analyze a sample project and then view the results of your analysis in Klocwork Review:

- » [C/C++ integration build analysis - Cheat sheet](#)
- » [Java integration build analysis - Cheat sheet](#)
- » [C-sharp integration build analysis - Cheat sheet](#)

Troubleshooting your installation

Need a hand with your installation? Did you have trouble installing the product? This section describes basic installation issues and provides troubleshooting information.

Repairing a Windows installation of Klocwork Insight

If files in the Klocwork installation were accidentally damaged or deleted, you can repair the installation.

You may discover that your Klocwork installation is damaged, for example, if you are attempting to uninstall Klocwork and see the error message "Fatal error: Cannot uninstall".

If this occurs, click **OK** in the error message dialog to cancel the uninstallation, perform the following repair procedure, and then run the uninstallation procedure again.

To repair a Klocwork installation on Windows:

- 1.** In the Start menu, click **Control Panel > Add or Remove Programs** .
The Add or Remove Programs dialog appears.
- 2.** Select the Klocwork package you want to repair, and select **Click here for support information**.
The Support Info dialog for the selected Klocwork package appears.
- 3.** Click **Repair**.
The installation is restored to a clean state.

Unable to start the Database Server because the path to the socket file is too long

If the path to the socket file (including separators and the name of the socket file) is greater than 107 characters, you will be unable to start the Klocwork Database Server. The database log will indicate that this is the problem.

The socket file is located in the following directory:

`<projects_root>/locks`

To remedy this situation, move your projects to another `projects_root` with a path length of less than 68-72 characters, depending on the length of the Database Server port number (which can be 1 to 5 characters).

For help moving a `projects_root`, see [Moving or creating additional projects_root directories](#).

Unable to start Klocwork Servers following Windows installation

If you see one of the following messages after installing the Klocwork Server package on Windows:

- » Error 1920. Service Klocwork 10.1 Server (Klocwork 10.1 Server) failed to start. Verify that you have sufficient privileges to start system services.
- » Service Klocwork 10.1 License Server failed to start. See installation log for more details.

An earlier version of the Klocwork Server and/or Klocwork License Server may be running on the port that you specified during installation of Insight 10.1. It is not possible to run two versions of a server on the same port.

You need to set a different port number for the 10.1 Klocwork Server and/or 10.1 Klocwork License Server with [kwservice set-service-property](#), and then [start the servers](#).

Database connection error

Important: Due to MySQL limitations, the `projects_root` directory should not be located on NFS. It has a special file locking implementation which is not fully supported by MySQL. See also the [warning in the MySQL documentation](#).

If you see the following error:

Error occurred while connecting to database: Database connection to <database> refused: Communications link failure due to underlying exception

Check the host name in the error message. If the host name is not a fully qualified host name that includes the domain (for example, `server1.klocwork.com`), you need to set the fully qualified domain name for the Database Server.

To do this:

1. Stop the Database Server:

```
kwservice --projects-root <projects_root> stop database
```

2. Run the following command:

```
kwservice --projects-root <projects_root> set-service-property database host <fully-qualified-host-name>
```

For example:

```
kwservice --projects-root C:\Klocwork\projects_root set-service-property database host server1.klocwork.com
```

3. Start the Database Server:

```
kwservice --projects-root <projects_root> start database
```

Package Load Failure occurs in Visual Studio after I install patch

You can either:

- » uninstall the patch and install the last full version of the Visual Studio plug-in installer, or
- » from the `<VS_user_install>\inforceVSNET` directory, run the following command:

```
regsvr32 IfPkgVS2005.dll
```

What to communicate to the team

Your team of developers, managers, build engineers(s) and administrator(s) need to know the following:

- » the URL of the Klocwork Server, so that managers and developers can access Klocwork Review and Klocwork Cahoots, and install their own desktop analysis plug-ins
- » that the URL of the Klocwork Server with "/documentation" added to it will give them all of the Klocwork online documentation
- » the location of the [projects_root directory](#) (Klocwork administrators only)
- » the host and port of the License Server
- » who has permission to start and stop the Klocwork Servers, under what user ID, and, for Windows, whether the servers must be managed as Windows Services

If anyone else needs to access the database, for example, to do backups, and you have locked the database with a password, give the person the password. See [Setting a password for the Klocwork database](#) for more information.

» Uninstalling Klocwork Insight

Before you uninstall

If you will be modifying or uninstalling a Server package or connected desktop installation, you must stop the Klocwork Servers first. See [Stopping the Klocwork Servers](#).

If you are uninstalling the Server package, in addition to stopping the servers, you should also make a backup copy of your `projects_root` directory and any configuration files you modified, such as `kwfilter.conf`). For Unix and Windows, compiler configuration files are located in `<server_install>/config`; for Mac they are located at `/Library/Frameworks/KlocworkServer.framework/<version>/config`. For more information about backing up data, see [Backing up Klocwork data](#).

While the Windows version of the Klocwork Server package won't uninstall the `projects_root` directory or configuration files, it's a good idea to make a backup of these directories to be on the safe side, particularly if you're uninstalling a version previous to 7.7. For Unix systems, there is no automated uninstall, so make sure you back up your `projects_root` and any other data files you want to keep and store them outside your Server installation directory. Then you can delete the Server installation directory.

See also [Repairing a Windows installation of Klocwork Insight](#).

Viewing installed components or modifying your installation on Windows

Use the procedure below if you want to remove one or more Klocwork components, or if you need to check what components are currently installed. For example, if you need to uninstall Klocwork before installing a new version, you should check what components are currently installed before uninstalling, so that you can install the same components for the new version.

To view installed components or partially uninstall Klocwork:

1. In the Start menu, go to **Control Panel > Add or Remove Programs**.

Windows 7: From the Control Panel window, under *Programs*, select **Uninstall a program**.

2. Scroll to and click the Server or desktop plug-in you want information on.
3. To find information about patches, make sure the *Show updates* checkbox is selected at the top of the Add or Remove Programs panel.

Windows 7: Click **View installed updates** in the upper right.

The installed patches will be displayed under the Klocwork installation package entry.

4. Click **Change**.

Windows 7: Right-click the Klocwork installation package and select **Change**.


The Welcome screen for the Modification wizard appears.

5. Click **Next**.

The Program Maintenance panel appears.

6. Select *Modify* and click **Next**.

7. The Custom Setup screen appears. Click through it to see what components (features) are installed.

Note: This symbol indicates a component that is installed: 

8. If you are simply viewing installed components:
9. Record which components are installed.
10. Click **Cancel**.
11. Click **Yes** when asked if you are sure.

12. Click Finish.

13. If you want to uninstall certain components, or install components you did not previously install:

14. For the components you want to uninstall, click *This feature will not be available*.

For the components you want to install, click *This feature, and all subfeatures, will be installed on local hard drive*.

15. Click Next.

The Ready to Modify the Program screen appears.

16. Click Install.

The features you selected will be modified.

17. Click Finish.

Uninstalling Klocwork from a Windows machine

To remove a Klocwork software package:

1. From the **Start** menu, click **All Programs > Klocwork Insight 10.1**.
2. Select the uninstaller for the component that you want to uninstall.

Uninstalling in unattended mode on Windows

To run uninstallation in unattended mode from a Windows machine, enter the following command:

```
<installer.exe> /S /v"/qn REMOVE=ALL"
```

where<installer.exe> is the package you want to uninstall

An uninstallation log file will be saved to %USERPROFILE%\Local Settings\Temp. The log file is named Klocwork<release-number>-<package>.log. For example, the uninstallation log file for the Klocwork 10.1 Server package is named Klocwork10.1-Server.log.

Uninstalling on Unix

Viewing installed components on a Unix machine

If you are upgrading to a new version of Klocwork, check what components are currently installed before uninstalling, so that you can install the same components from the new version.

To list installed components (features), run the following command:

```
kwupdate [option ...] --list
```

See [kwupdate](#) for the full list of options.

To uninstall on Unix, simply delete the Server package and/or desktop plug-in package installation directory.

Uninstalling on Mac

To uninstall, delete the following directories:

/Applications/Klocwork Server 10.1

/Applications/Klocwork User 10.1

/Library/Frameworks/Klocwork*.framework

/usr/local/kw

Uninstalling the plug-in from Eclipse and IntelliJ IDEA

Eclipse

To uninstall the Klocwork plug-in from Eclipse:

Eclipse 3.4	Eclipse 3.5 and 3.6
<ol style="list-style-type: none">1. From the Help menu, choose Help > Software Updates > Manage Configuration.2. The Product Configuration dialog appears.3. Expand the items in the navigation pane until you see the Klocwork feature.4. Right-click the Klocwork feature and choose Uninstall, and click Yes to confirm that you want to disable this feature.	<ol style="list-style-type: none">1. From the Help menu, choose Help > About Eclipse.2. Click Installation Details.3. Select the Klocwork plug-in from the list and click Uninstall.

When you're prompted to restart Eclipse, click **Yes**.

Once Eclipse restarts, the Klocwork buttons and menu items are no longer present. If you haven't uninstalled the Klocwork desktop analysis plug-in for Eclipse, your Klocwork projects remain in their storage location.

IntelliJ IDEA

1. Go to **File > Settings**.
2. Under IDE Settings, click **Plugins**.
3. Right-click **Klocwork for Java in IntelliJ IDEA** and select **Uninstall**.
4. Close IntelliJ IDEA.
5. Restart IntelliJ IDEA to confirm the removal by ensuring that the Klocwork button has been removed.

Note: You must restart IntelliJ IDEA after uninstallation, before you install a new version of Insight.



Toll-free: 1.866.556.2967

Direct: 1.613.836.8899

sales@klocwork.com

support@klocwork.com

In the United States:

15 New England Executive Park, Burlington, MA 01803

In Canada:

30 Edgewater Street, Suite 114, Ottawa, ON K2L 1V8

www.klocwork.com



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