

Kofax Kapow

Installation Guide

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Introduction

This guide helps you install Kofax Kapow in a development environment. For installation in a production environment see the Administration Guide. This guide covers both [interactive](#) and ["silent"](#) installation of Kofax Kapow on Windows, as well as normal and "headless" installation on [Linux](#).

Before installing Kapow, you must decide whether to install the 32-bit or the 64-bit version. The key issues to consider are:

- Your operating system may only support one of the versions. 64-bit Windows supports both. On Linux only 64-bit version is supported.
- The 64-bit version is mainly useful on servers where you want to run RoboServer that uses significant RAM. (You will need to configure the allowed amount of RAM after installation, as described in the "Changing the RAM Allocation" section in the *Administrator's Guide*).

This guide describes:

- How to install Kapow, either interactively or "silently" (without user interaction).
- How to enter license information so that you can start Kapow.
- How to configure Kapow.
- How to set up Kapow server applications to start automatically when the computer restarts.
- How to upgrade from earlier versions.

Getting Help for Kofax Products

Kofax regularly updates the Kofax Support site with the latest information about Kofax products.

To access some resources, you must have a valid Support Agreement with an authorized Kofax Reseller/ Partner or with Kofax directly.

Use the tools that Kofax provides for researching and identifying issues. For example, use the Kofax Support site to search for answers about messages, keywords, and product issues. To access the Kofax Support page, go to www.kofax.com/support.

The Kofax Support page provides:

- Product information and release news
Click a product family, select a product, and select a version number.
- Downloadable product documentation
Click a product family, select a product, and click **Documentation**.
- Access to product knowledge bases
Click **Knowledge Base**.
- Access to the Kofax Customer Portal (for eligible customers)

Click **Account Management** and log in.

To optimize your use of the portal, go to the Kofax Customer Portal login page and click the link to open the *Guide to the Kofax Support Portal*. This guide describes how to access the support site, what to do before contacting the support team, how to open a new case or view an open case, and what information to collect before opening a case.

- Access to support tools

Click **Tools** and select the tool to use.

- Information about the support commitment for Kofax products

Click **Support Details** and select **Kofax Support Commitment**.

Use these tools to find answers to questions that you have, to learn about new functionality, and to research possible solutions to current issues.

Chapter 1

System Requirements

The tables below provide system specification for different platforms. The requirements may depend on the application, so these should only be taken as guidelines and not as absolute numbers. The recommendations for servers are for one server. The number of servers used for a given application (the size of a cluster) is a completely different matter and should be estimated using methods described elsewhere.

IDE requirements:

	Minimum	Recommended
Windows	Intel Core Duo 1.8 GHz CPU (or AMD equivalent), 4GB RAM, 1GB free disk space for installation and 5GB free disk space for operation	Intel Core Duo 2.66 GHz CPU (or AMD equivalent), 8GB RAM, 1GB free disk space for installation and 5GB free disk space for operation
Linux (64-bit)	Intel Core Duo 1.8 GHz CPU (or AMD equivalent), 4GB RAM, 1GB free disk space for installation and 5GB free disk space for operation	Intel Core Duo 2.66 GHz CPU (or AMD equivalent), 8GB RAM, 1GB free disk space for installation and 5GB free disk space for operation

Server requirements:

	Minimum	Recommended
Windows (32-bit)	Intel Xeon L5520 CPU (or equivalent AMD Opteron), 2GB RAM, 500MB free disk space for installation and 5GB free disk space for operation	Intel Xeon X5680/X5677 CPU (or equivalent AMD Opteron), 8GB RAM, 500MB free disk space for installation and 5GB free disk space for operation
Windows (64-bit)	Intel Xeon L5520 CPU (or equivalent AMD Opteron), 4GB RAM, 500MB free disk space for installation and 5GB free disk space for operation	Intel Xeon X5680/X5677 CPU (or equivalent AMD Opteron), 8GB RAM, 500MB free disk space for installation and 5GB free disk space for operation
Linux (64-bit)	Intel Xeon L5520 CPU (or equivalent AMD Opteron), 4GB RAM, 500MB free disk space for installation and 5GB free disk space for operation	Intel Xeon X5680/X5677 CPU (or equivalent AMD Opteron), 8GB RAM, 500MB free disk space for installation and 5GB free disk space for operation

Real-time data: If you have a solution where users are waiting for results in real-time, CPU speed is normally the bottleneck, and you should buy the fastest CPU available for your hardware platform.

Dedicated hardware: For best performance, we recommend that you always run RoboServer on dedicated hardware. That means that you should not run database servers and other services on the same hardware as your RoboServer.

Supported Platforms

This is the list of supported platforms. Kofax Kapow was tested on the listed versions. To determine if Kapow works on a version that is not listed, contact Kofax for more information.

IDE Platforms	
Windows	Windows Server 2008 R2, Windows Server 2012, Windows Server 2012 R2, Windows Server 2016, Windows 7, Windows 8.1, Windows 10
Linux (64-bit)	CentOS/Red Hat Enterprise Linux 6.x and 7.x Ubuntu 14.04 LTS with <code>libqt5webkit5</code> library

Server Platforms	
Windows	Windows Server 2008 R2, Windows Server 2012, Windows Server 2012 R2, Windows Server 2016
Linux (64-bit)	CentOS-7, Red Hat Enterprise Linux 6.x and 7.x, Debian 8.2

Important The minimal Linux installation must include the following packages to be able to run Robots created with default browser engine.

- `libX11.so.6`
- `libGL.so.1`
- `libXext.so.6`

To use the Device Automation feature, install the `libxslt1.1` package. Device Automation does not work if RoboServers are hosted on computers running RedHat 7.x based Linux.

To use cross-platform authentication (Negotiate and NTLM protocols), your Linux installation must include Generic Security Service API (GSS-API) libraries:

- `libgssapi_krb5.so.2`
- `libgssapi.so.4`
- `libgssapi.so.2`
- `libgssapi.so.1`

Use the `yum install` or `sudo apt-get` command to install necessary libraries on a Linux platform.

You must also install fonts on a headless Linux server for the webkit robots to work.

- [Instructions for installing fonts for CentOS / RedHat](#)
- [Instructions for installing fonts for Ubuntu](#)

Device Automation Platforms	
Windows	Windows Vista, Windows 7, Windows 8.1, Windows 10 (64-bit), Windows Server 2008, Windows Server 2012, Windows Server 2016

Note

Databases	
Oracle*	Version 12c Requires Unicode and case sensitivity. For case-sensitive comparison, ensure that <code>NLS_COMP</code> is set to <code>BINARY</code> .
IBM DB2	9.7
Microsoft SQL Server	Version 2008 and 2008 R2, 2012, 2014
Sybase*	Adaptive Server Enterprise 15.5 using the jConnect for JDBC 3.0 version 6.05 driver
MySQL*	Version 5.5-5.7

Note Microsoft SQL Server with Windows Authentication cannot be used as a logging (logdb) database.

You can use PostgreSQL database only for storing your data. PostgreSQL cannot be used as a Management Console system, logging, or audit database.

APIs	
Java	Java 8 including J2EE servers such as Oracle WebLogic 11, IBM WebSphere, and JBOSS
JMX	Java 1.6
.NET	C#, .NET Version 4.0

Note For correct display of data in the Kofax Insight Dashboard, make sure Java correctly sets the time according to your time zone on RoboServers and computers running Management Consoles. See the *Timezone Data Versions in the JRE Software* on the Oracle web site for the latest updates in time zones. If necessary, use the *Timezone Updater Tool* to update the time zone information.

Management Console Portals	
Tomcat	Version 7.0.56 or later. Minimum Java version 1.8 with the latest update.

Other Supported Technologies	
Supported browsers for Management Console and KappZone/Kapplets	Internet Explorer version 9, 10, and 11; Chrome version 58 and later; Firefox version 54 and later; Safari version 10.

Other Supported Technologies	
Supported JMS message brokers	Apache ActiveMQ 5.11, 5.12, 5.13, 5.14; Red Hat JBoss A-MQ 6.2.1.

* Be aware that loss of data may occur when storing data in Oracle, Sybase or MySQL. On Oracle, an empty string is converted to null. On Sybase, an empty string is converted to " " (a single space). On MySQL, millisecond precision is lost when storing dates. For details, see the ObjectKey Caveats section in the Storing Data in Databases topic in the Kapow help.

Chapter 2

Install Kapow

This chapter describes how to install Kofax Kapow on a single computer in a developer setup. See the Administration Guide for installation and deployment in a production environment.

For the Windows platform, Kofax Kapow has four installers that install different parts of the software:

- Kapow Design Studio installer: Installs Design Studio and documentation (including SQL scripts for database tables), but does not install RoboServer, Management Console or API. Use this installer if you have a central Management Console/License Server and need a separate copy of Design Studio.
- Kapow RoboServer installer: Installs RoboServer only and does not install Management Console, Design Studio, documentation, or API. This installer is useful, if you need to set up dedicated RoboServer machines.
- Configurable full Kapow installer: Installs all the components, or you can select which ones to install.
- Kapow Device Automation installer: Installs Automation Device Agent to automate remote devices.

The three limited installers can be run using the silent installation process. If you run a silent installation of the full installer, you get the typical install. See [Silent Installation on Windows](#) for details.

For Linux, Kapow provides a full installer as well as RPM and DEB packages for installing RoboServer as a service. See [Install on Linux](#) for details.

Upgrading from Earlier Versions

In the interest of stability, different versions of Kofax Kapow may be installed side by side on the same computer without interfering with each other (except that they must be configured to use different port numbers for the Management Console if run simultaneously). This means that you can install a newer version and get acquainted with it while still doing your daily work with the older version.

You can copy important data such as uploaded robots, execution schedules and so on from one version of Management Console to another by making a backup of the old installation and "restoring" it into the new one. Making a backup varies in different versions of Kofax Kapow, so check help or User's Guide to learn how to create a backup.

Install on Windows

The full Kapow installer provides the following installation options. Optional items are listed with an asterisk.

- Design Studio: Installs Design Studio and its required components
- RoboServer: Installs RoboServer
 - Embedded Management Console: Installs components needed to run an embedded Management Console on the RoboServer

- Management Console: Creates the WAR file for manual installation of the Management Console
- Documentation: Installs documentation (including the SQL script files)
- API*: Installs necessary API components

The following files install separate Kapow components.

If you are installing Design Studio only, download and save the `Kapow_DesignStudio_10.2.0.1_x32.msi` or `Kapow_DesignStudio_10.2.0.1_x64.msi` file to your hard disk. After the download is completed, run the file to start the installation and follow the installer prompts.

To install a RoboServer, download and save the `Kapow_RoboServer_10.2.0.1_x32.msi` or `Kapow_RoboServer_10.2.0.1_x64.msi` file to your hard disk. After the download is completed, run the file to start the installation and follow the installer prompts.

To install the Device Automation Service, download and save the `Kapow_DeviceAutomation_10.2.0.1_x32.msi`. After the download is completed, run the file on the computer you want to automate and follow the installer prompts. For more information, see [Install the Device Automation Service](#).

As another option, you can use the [silent installation](#) to automate the installation process.

Note You need administrator rights to install Kapow on Windows.

Install the Device Automation Service

To install the Device Automation Service, download and save the `Kapow_DeviceAutomation_10.2.0.1_x32.msi` file to your hard disk. After the download is completed, run the file on the computer you want to automate to start the installation. The Device Automation service is installed in autostart mode. Note that you do not need to install the Device Automation Service to automate terminals.

Install Components for Device Automation Service

Device Automation Service is designed to automate any work process involving computer applications on Windows systems. The following components and configuration steps are required for the Device Automation Service to access applications on Windows.

Make sure that the latest Windows operating system updates are installed. For Windows 7, 8, and 8.1, the KB2999226 update is required. If this update is not installed on your system, download it from the Microsoft website and install according to the provided instructions.

To work with Java applications, check the following.

- Install the latest Oracle Java 32-bit (JRE or JDK) that installs the Java Access Bridge 32-bit dlls. The Java applications started by the robots can run in a 64-bit JVM, but the 64-bit installer does not include the 32-bit dlls. If your corporate policy does not allow upgrading the Oracle Java, manually install the files needed for Java Access Bridge support as follows.

Java Access Bridge Installation on Windows 64-bit

1. Ensure JAWS 13 or later is installed on your system. Note that JAWS version 13.0.527 or later is required for Windows 7 64-bit. You can download this component from the Java SE Downloads page <http://www.oracle.com/technetwork/java/javase/downloads/index.html>.
2. Download Java Access Bridge 2.0.2 from the Java Access Bridge download page at the following URL:

<http://www.oracle.com/technetwork/java/javase/downloads/jab-2-0-2-download-354311.html>

3. Extract the Java Access Bridge to a folder in your drive and copy `WindowsAccessBridge-32.dll` to `[WINDOWSHOME]\SYSWOW64`. Where `WINDOWSHOME` is the directory where Microsoft Windows is installed, for example, `C:\WINDOWS`.

Java Access Bridge Installation on Windows 32-bit

1. Ensure JAWS 13 or later is installed on your system. You can download this component from the Java SE Downloads page <http://www.oracle.com/technetwork/java/javase/downloads/index.html>.
2. Download Java Access Bridge 2.0.2 from the Java Access Bridge download page at the following URL:
<http://www.oracle.com/technetwork/java/javase/downloads/jab-2-0-2-download-354311.html>
3. Extract the Java Access Bridge to a folder in your drive and copy `WindowsAccessBridge-32.dll` to `%WINDOWSHOME%\SYSTEM32`. Where `%WINDOWSHOME%` is the directory where Microsoft Windows is installed, for example, `C:\WINDOWS`.

Note For detailed Java Access Bridge installation instructions, see [Installing Java Access Bridge on the Oracle web site](#).

- Enable the Java Access Bridge by selecting the Enable Java Access Bridge option in the **Control Panel > Ease of Access Center > Use the computer without a display** or by running the following command prompt command in the `bin` directory of the Java JRE installation directory:
`jabs switch.exe /enable`.

Install on Linux

Kapow provides two installers:

- A tar.gz file containing all the components.
- Kapow RoboServer installer: Installs the `roboserver` service only.

Full Installation

The installation is performed by extracting the contents of the tar.gz file. In most Linux distributions, this can be done by right-clicking the file and selecting the appropriate extraction option. The file can also be extracted from the command line as follows:

```
$tar xzf Kapow_10.2.0.1_x64.tar.gz
```

Alternatively, to extract the file to a specific directory, use the following command:

```
$tar xzf Kapow_10.2.0.1_x64.tar.gz -C /destination_directory
```

When the file is extracted, proceed to enter license information as described in [Provide License Information](#).

Note You can install Kapow as an unprivileged user on Linux.

Running RoboServer Installer

The RoboServer only installers are created for the deb and rpm packages. The default installation folder for these packages is `/opt/Kapow/`.

Each of the RoboServer packages contains a RoboServer launcher that is used to run RoboServer as a Linux `/etc/init.d` service. This makes it automatically start on system boot.

The packages create a kapow user and group in the system used when running the roboserver `/etc/init.d` service. The configuration files (most importantly `roboserver.settings`) for the RoboServer service are located in the kapow users home directory (`/home/kapow/`) under the hidden directory `.Kapow/<version>`.

The `roboserver.settings` file can also be accessed through `/etc/opt/Kapow/RoboServer.conf`.

To see all available commands, just run RoboServer from `/etc/init.d` without any arguments.

By default, the RoboServer starts with an SSL port listening (the port number is defined in the `roboserver.settings` file). Keep in mind that this is a RoboServer only install; it is not possible for the service to be configured to start a Management Console, such as with the `-MC` parameter, which is done via the full installation of Kapow.

To run `roboserver` as a `init.d` service:

1. Install the RPM or DEB package.
2. Change the roboserver configuration (optional).
3. Run `#service RoboServer start`, or restart the machine to start the service automatically.

Silent Installation on Windows

A silent installer runs without user interaction. This is convenient if, for instance, you need to automate the installation process in a script.

Using Full Installer

To perform a silent installation of Kofax Kapow, run the following command with administrative rights:

```
msiexec /qn /i Kapow_10.2.0.1.msi
```

This installs the program to the default location. To specify another location, use a command as follows:

```
msiexec /qn /i Kapow_10.2.0.1.msi INSTALLDIR="dir"
```

where `"dir"` is the location where you want to install. For example:

```
msiexec /qn /i Kapow_10.2.0.1.msi INSTALLDIR="C:\Kapow 10.2.0.1 x64\"
```

To specify a file to log the installation process, use the following parameter:

```
msiexec /qn /i Kapow_10.2.0.1.msi /l msilog.txt
```

After installation, proceed to enter license information as described in [Provide License Information](#).

Using Limited Installers

The following are examples of using different installers in silent mode.

```
msiexec /qn /i Kapow_DesignStudio_10.2.0.1.msi
```

```
msiexec /qn /i Kapow_RoboServer_10.2.0.1.msi
```

```
msiexec /qb /i Kapow_DeviceAutomation_10.2.0.1_x32.msi
```

Important Folders in Kapow

We recommend that you become familiar with the folders and files described in this section.

Installation Folder

The installation folder is the folder where Kofax Kapow is installed. On Windows, the installation folder defaults to:

```
C:\Program Files\Kofax Kapow 10.2.0.1
```

On Linux it will be a directory named Kapow_10.2.0.1 in the directory where you extracted the archive.

The installation folder contains the following important folders:

bin

Contains all executable programs for Kofax Kapow.

API

Contains files and documentation related to the Kofax Kapow Integration APIs.

lib/jdbc

Contains the installed JDBC database drivers. These drivers are always available in Kofax Kapow applications. Normally, you should manage JDBC drivers as described in the Database Drivers topic in the Management Console section of the online help.

Project Folder

The project folder contains your library of robots and types, as described in the Design Studio topic of the online help. Configure the location of the project folder with the Settings application as described in the Working with Projects and Libraries topic of the Design Studio help. On Windows, the default location is similar to the following, depending on your Windows version:

```
C:\Documents and Settings\ username\My Documents\My Robots\10.2.0.1
```

```
C:\Users\ username\Documents\My Robots\10.2.0.1
```

On Linux the default location of the project directory is:

```
~/Kapow/10.2.0.1
```

The project directory must contain a single subdirectory named Library.

Application Data Folder

The application data folder contains files that are private to the Kofax Kapow but which differ for different users of the same computer. On Windows, the application data folder is (depending on your Windows version):

```
C:\Documents and Settings\ username\Local Settings\Application Data\Kapow\10.2.0.1
```

```
C:\Users\ username\AppData\Local\Kapow\10.2.0.1
```

On Linux the application data folder is:

```
~/ .Kapow/10.2.0.1
```

To change the location of the application data folder, you can edit the `common.conf` file in the installation `\bin` folder. You should add these two lines:

```
wrapper.java.additional.10=-Dkapow.applicationDataFolder="Folder containing  
Configuration folder"
```

```
wrapper.java.additional.10.stripquotes=TRUE
```

Make sure that the user running Kofax Kapow has read and write access to the folder.

Under normal circumstances, you should never modify or delete files or folders within this folder directly; the GUI tools should be used instead. The application data folder contains the following important folders:

Certificates

Contains the HTTPS certificates known by Kofax Kapow. See the "Certificates" section in the *Administrator's Guide* for more information.

Configuration

Contains configuration files, which are maintained as described in the section [Configuring Kofax Kapow](#).

Data

Contains the embedded Derby database used by the Management Console (except when installed as a web application in a Tomcat web server). See "Management Console on Tomcat" chapter in the *Administrator's Guide*.

DemoDatabase

Contains the Development Database used in the Management Console Beginner Tutorial, and which you can also use in "toy projects" during your introduction to Kofax Kapow.

Logs

Contains log files.

Chapter 3

Provide License Information

The first step after basic installation is to enter license information. The Management Console in Kapow can work in two different ways. In a development environment you enter the development license information in Design Studio. In the enterprise mode a shared Management Console is used as a license server. This chapter provides information about the development environment license. See Administrator's Guide for using the Management Console as a license server in the enterprise environment.

Note that it is not necessary to enter license information in RoboServers, as they automatically receive the necessary license information from Management Console.

To use the Device Automation feature, obtain a separate license for this feature from Kofax.

License Keys

There are three different kinds of license key:

Production key

Permits production use of the Kapow system.

Non-Production key

Permits use of the Kapow system for non-production use like test and staging.

Developer Seat key

A special kind of non-production key that allows you to run all the Kapow programs on your own computer as part of the same installation. There are, however, some performance limitations, as this it intended to be used only for development or as a trial installation.

A license key (no matter which kind) also describes which Kapow features you have, and how many KCUs you have bought. A Developer Seat key always contains 1 KCU, while the two other kinds may contain more.

If you have both a Production key and a Non-Production key, you may install them into the same Kapow system (that is, in the same Management Console). You may also choose to set up one system for each key. In both cases, you need to set up at least two different clusters (either on the single system or one cluster on each of the two systems), configured as Production and Non-Production, respectively. The KCUs in your licenses can then be assigned to these clusters.

Do not use one key in more than one Management Console.

Kapow Compute Units

Kapow licensing now uses capacity based pricing based on Kapow Compute Units (KCU) instead of CPU core based pricing used in earlier versions. This pricing model is completely independent of the chosen hardware configuration.

What are KCUs?

A KCU is a Kapow Compute Unit and is defined as a unit of measure for how many operations (or steps) a Kapow RoboServer can perform in one second (and it is unrelated to underlying server capacity).

A step is the smallest unit of action which can be performed within a RoboServer. Examples of steps are, loading a web page, writing a data record to a database, or performing a transformation on a data element.

One KCU represents a total of 5000 KCU points per second. The number of Kapow steps that make up one (1) KCU depends on the type of Kapow steps involved, as each step consumes a different amount of the KCU. The steps are divided into groups the most important groups are listed here:

1. Steps that both do I/O and execute JavaScript, 10000 KCU points, for example, 2 page loads per second with 4 KCUs
2. Steps that do either I/O or execute JavaScript (but not both), 1000 KCU points, for example, 20 Call REST Web Service Steps per second with 4 KCUs
3. Extraction and transformation steps 1 KCU point, for example, 40,000 extract or assign steps per second with 4 KCUs

The complete list is available in Design Studio by clicking **Help > Show KCU Information**.

You should have enough CPU power and sufficiently low response time from the source server.

Note We have empirically measured the average page load time on a powerful CPU over the 23000 most visited web sites to 6.7 seconds

The total number of KCUs a robot uses can be seen in the Design Studio Debugger Summary information after running the robot.

Deploying and Assigning KCUs

With KCUs we can deliver the needed computing capacity independent of the target hardware environment and physical CPUs. This allows the flexibility of choosing, cloud-based or on-premise, virtualized or physical CPU environments without the need to control the number of allocated CPUs.

The available KCUs are assigned to the RoboServer Clusters in the Management Console and automatically distributed between the RoboServers available within the Cluster.

Enter License in Design Studio

If Design Studio is not already started, do as follows:

Windows

Use the **Design Studio** item in the Start menu.

To start the Design Studio from the command line, run the following command in the bin subfolder of the installation folder.

```
DesignStudio
```

Linux

Start Design Studio from the command line by launching the `DesignStudio` program in the bin directory under the installation directory (see [Important Folders in Kapow](#)) as follows:

```
$/DesignStudio
```

On the next screen, enter your license information.

You have three choices, depending on what information you have been provided from Kofax Kapow and/or your system administrator:

License Server

If your administrator provided you with the URL to a central license server (Management Console) that administers the license for all Design Studio users, select License Server and enter the URL and credentials for that server. The license server must be running and have available Design Studio seats in order for you to use Design Studio. See the Administrator's Guide for using the Management Console as a license server.

Developer License

The developer license is a combined license key for both Management Console and Design Studio. You can either enter the license key in your local (embedded) Management Console, or use the dialog box in Design Studio. Whenever you start Design Studio, the Management Console will automatically start as well.

Trial License

For the trial license you only need to fill the name, email and company. You do not enter a license key. Design Studio starts without contacting the Management Console and with limited capabilities. This license is intended for short-time use for trial/demonstration purposes.

Normally, Design Studio displays the **Enter License Information** dialog box only the first time it is started. It will, however, display this dialog box again if the license server cannot be contacted because it has been moved, is not running, or is unavailable for another reason.

Chapter 4

Kapow Initial Configuration

After installing Kofax Kapow, configure the installation to suit your needs. Some configuration is done using the Settings application as described in the "RoboServer Configuration" section of the *Administrator's Guide*.

Other configuration tasks, relevant mostly for administrators of the Kofax Kapow system, are done via Management Console, more specifically via the Servers tab, the Projects tab and the Options tab. It is especially important to set up the necessary RoboServers and clusters on the Servers tab. Refer to the *Administrator's Guide* and the Management Console section in the Kapow help for information on Kapow configuration.

Chapter 5

Upgrade Kapow

In the interest of stability, different versions of Kofax Kapow may be installed side by side on the same computer without interfering with each other. This means that you can install a newer version and get acquainted with it while still doing your daily work with the older version. While doing so, you will probably want to open the older version's default robot project in the newer Design Studio. If you save a robot with the newer version, you will not be able to open it with the older version of Design Studio.

Important If you use the API in your Kapow environment, the Java and .NET files must be updated when upgrading Kapow. The new API files are located in the API folder of your Kapow installation folder, such as `C:\Program Files\Kofax Kapow 10.2.0.1 x64\API`.

Below we will list the most important differences between Kofax Kapow versions that you should take into account when upgrading.

Upgrade a RoboServer Service Installation

Read the [Upgrade a RoboServer Service Installation](#) topic if you are upgrading to a newer version of a RoboServer service.

10.2

Version 10.2 of Kapow is backward compatible with 10.1. Your current robots should run in Kapow version 10.2.

10.1

Version 10.1 of Kapow is backward compatible with 10.0. Your current robots should run in Kapow version 10.1. See Changes in Behavior in Kapow Release Notes.

9.7

Version 9.7 of Kapow is backward compatible with 9.6. Your current robots should run in Kapow version 9.7.

9.6

Read [Upgrade from Version 9.3-9.5](#) topic if you are upgrading to Kapow version 9.6.

Upgrade a RoboServer Service Installation

This section provides details about how to upgrade a RoboServer service.

Perform the following steps to upgrade your Linux installation of Kapow.

1. Stop the roboserver manually and wait for robots to finish executing (optional).
2. Update the packages.

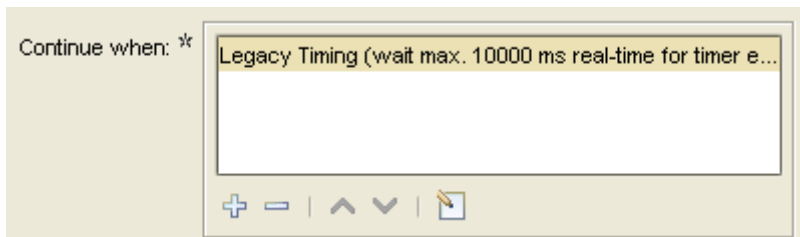
3. Change the configuration in the new `roboserver.settings` file (optional).
4. Restart the computer or use `RoboServerService start` command to restart the roboserver.

Note the following when upgrading Kapow on Linux:

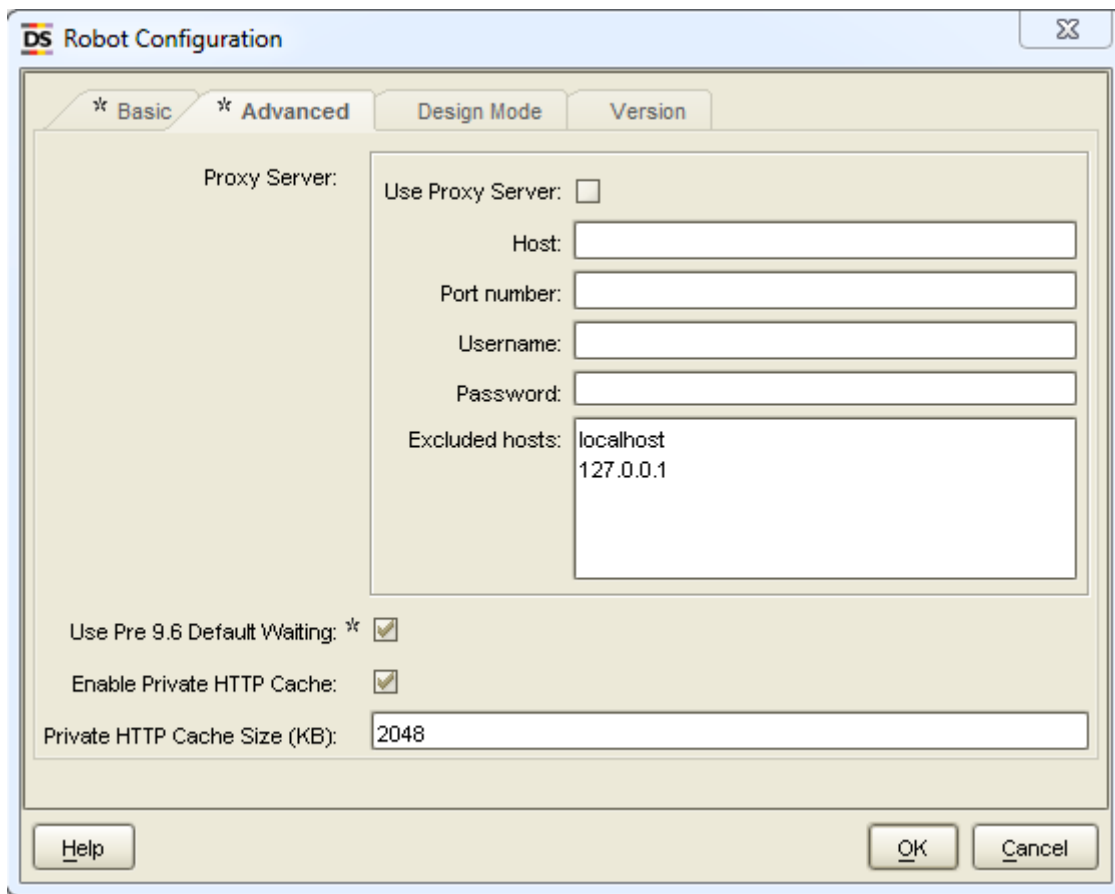
- Upgrading a package replaces all the files in the `/opt/Kapow/` directory.
- When you start the upgrade procedure, the `init.d` service is stopped and replaced with a new version. The service is stopped immediately without waiting for robots to finish executing. If you do not want to interrupt the execution of the robots, stop the roboserver manually before upgrading.
- A new `roboserver.settings` file is created for the new service. The new file is created in `/home/kapow/.Kapow/<release_version>/Configuration/` similarly to the old one. That means a new directory is created for the new release so that the old configuration file remains intact in the folder with the older release name. The link to the configuration file in `/etc/opt/Kapow/RoboServer.conf` points to the settings file in the last installed release.
- The configuration from the old `roboserver.settings` file is not transferred to the new one, this must be done manually.

Upgrade from Version 9.3-9.5

When a robot from one of the previous versions (9.3, 9.4, 9.5) is opened, a legacy wait criteria is added to the robot using the "Max. Wait for Timer Events" and "Wait Real-Time for Timer Events" ensuring the same behavior as in 9.5. This cannot be edited, but it can be removed and replaced with new criteria to improve performance if possible.



To switch to the new default settings when updating an existing robot to 9.6, go to the **File > Configure Robot** dialog box, click the **Advanced** tab and clear the **Use Pre 9.6 Default Waiting** check box.



Customers Upgrading From 9.2

Kapow version 10.2 is fully backward compatible with 9.2 and your current robots will run with the Classic Browser Engine as in 9.2, there is no need to migrate existing working robots to the new Default browser. We recommend building new robots using the Default browser, but in case the web site does not render in the Default browser, we recommend switching to Classic. This will particularly be the case for legacy web applications designed specifically for old versions of Internet Explorer.

Note that the Default browser is using Chrome as the browser to emulate, while the Classic browser emulates Internet Explorer. This can cause Classic and Default to render pages differently and return a different Document Object Model (DOM), so when migrating from a Classic to a Default robot, the tag-finders may be different and require modification.