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https://www.codabix.com/

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Installing Codabix

Codabix is available for the following operating systems and hardware configurations:

- Codabix for Windows (x64, Arm64)
- Codabix for Linux (x64, Arm64, Arm32)

Codabix for Windows

The current version of Codabix for Windows requires a 64-bit version (x64, Arm64) of **Windows 10 Version 1607 or Windows Server 2016**, or higher.

System Requirements

Supported Operating Systems

Codabix for Windows is supported on the following operating systems (architectures **x64** and **Arm64**):

Windows Version	Workstation Operating System	Server Operating System
10.0.14393	Windows 10 [IoT] Enterprise 2016 LTSB	Windows Server 2016 (Option "Server with Desktop Experience")
10.0.17763	Windows 10 [IoT] Enterprise LTSC 2019	Windows Server 2019 (Option "Server with Desktop Experience", or "Server Core" with Server Core App Compatibility FOD installed)
10.0.19044	Windows 10 [IoT] Enterprise LTSC 2021	
10.0.19045	Windows 10 Version 22H2 (2022 Update)	
10.0.20348		Windows Server 2022 (Option "Server with Desktop Experience", or "Server Core" with Server Core App Compatibility FOD installed)
10.0.22000	Windows 11 Version 21H2	
10.0.22621	Windows 11 Version 22H2 (2022 Update)	
10.0.22631	Windows 11 Version 23H2 (2023 Update)	
10.0.26100	Windows 11 Version 24H2 (2024 Update) Windows 11 [IoT] Enterprise LTSC 2024	Windows Server 2025 (Option "Server with Desktop Experience", or "Server Core" with Server Core App Compatibility FOD installed)

Hardware Requirements

Recommended: 64-bit Quad-Core CPU, 8 GB RAM

Back-end Database Requirements

By default, Codabix uses an **embedded database (SQLite)** which doesn't have any additional requirements.

However, if you plan on using MySQL, MariaDB, or Microsoft SQL Server as a back-end database, please make sure it is MySQL 8.0 or higher, MariaDB 10.3 or higher, or Microsoft SQL Server 2014 or higher.

We recommend running MySQL/MariaDB/MSSQL on the **same machine** as Codabix.

Codabix Setup and First Start

Codabix Setup

In order to install Codabix, download and run the Codabix installer (MSI file). You can select which Plugins are to be installed with Codabix.

CoDaBix® Compact Setup	– 🗆 X
Custom Setup Select the way you want features to be installed.	
Click the icons in the tree below to change the way	y features will be installed.
CoDaBix® Compact CoDaBix® Compact CoDaBix® Compact Com	The S7 Device Plugin allows you to connect to Siemens PLC Devices (S7, S5). This feature requires 6172KB on your hard drive.
Location: C:\Program Files (x86)\Traeger	CoDaBix Compact\ Browse
Perset Dick Lippes	Back Next Cancel

Install and Uninstall Plugins

If you want to change your Codabix installation at a later time (e.g. to remove or add plugins), simply start the Codabix Installer again (alternatively, you can also open the Windows Control Panel, click on "Programs and Features", select "Codabix" and click "Change"). You can then click "Change" in the installer to change the Codabix plugins to be installed or uninstalled.

Updating Codabix

When you have already installed Codabix and want to update to a newer version, you don't need to uninstall the older version. Simply run the Codabix Installer of the newer version, and it will automatically update Codabix.

Note: If you had installed Codabix as a service, you will need to reinstall the service in the Codabix Settings dialog after the update.

First Start



You can start Codabix by double-clicking the **Codabix** shortcut **CoDaBix® Compact** on the Desktop, or by running the following command on the command line (e.g. on Windows Server Core):

"%ProgramFiles%\Traeger\Codabix\codabix-ui.exe"

The first time you start Codabix, you will be asked to specify a **project directory** (best would be an empty folder) where Codabix will be allowed to store its data (settings, database, configuration, logfiles etc).

After you confirm the selection, the **Settings Dialog** (see next section) will appear. Click OK to apply the settings. Then, a dialog box will ask you to set an admin password. You will need this password later for the configuration.

Note: A dialog of the Windows Firewall may appear asking to allow access to Codabix. This is caused by the OPC UA Server Plugin, which creates an OPC UA Server at port 4840 by default. If you click on "Allow access", other machines in the network may access this OPC Server.

💣 Windows Sec	urity Alert		×
💮 Windo	ows Firewal	l has blocked some features of this app	
Windows Firewall h networks.	nas blocked som	e features of CoDaBix® Compact on all public and private	
	<u>N</u> ame:	CoDaBix® Compact	
	Publisher:	Traeger Industry Components GmbH	
	Pat <u>h</u> :	C:\program files (x86)\traeger\codabix compact\codabix- compact.exe	
Allow CoDaBix® C	ompact to comm	unicate on these networks:	
Private netv	vorks, such as m	iy home or work network	
Public network because the	orks, such as the se networks off	ose in airports and coffee shops (not recommended ten have little or no security)	
What are the risks	of allowing an a	pp through a firewall?	
		Sellow access Cance	el

After you have set the passwort and Codabix has started, the **Web Configuration** login screen appears. You can now log in with the username **admin** and your previously set password.

						#a @ 🛓	. 2 0
		Nodes				🛒 a	dmin
Nodes	C 💭 D 👔 🔷 🖋	44 co 🖰 🚹 🖞	8				
Administration		Name	Display Name	Actual Value	Value Type	Description	
Lusers	* 🛑 Devices	Devices	Devices			Contains nodes for registered d	levices.
	S7 TCP-IP Device	Plugins	Plugins			Contains nodes for plugins.	
Add User Groups	S7 UA Bax Device	Interfaces	Interfaces			Contains nodes for interfaces.	
Interfaces	V OPC-UA Client Device	Exchange	Exchange			Contains nodes for exchange pl	lugins.
	 ▶ ŷ SQL Exchange ♥ Nodes ▶ ☐ Demo-Nodes 						
(i) About		4					
db .			N				1-4 of

Codabix Project Settings

Codabix provides a number of settings which you can configure for the selected project. To edit the settings, click on the gear toolbar item at the top right (^(a)) which opens the Codabix

set	tings dialog.				
×	Edit CoDaBix Se	ttings	×		
F	Project Directory:	C:\Users\Use	r\Codabix-Data Change		
~	Basic Settings				
	Project Name		My Sample Project		
	File Access Secu	rity	Normal (2 additional permissions)		
	Log Level		Info		
	Log File Retentio	on Days	30		
	Update DB Mode	e	Normal		
	Back-end Databa	ase Mode	Embedded (SQLite)		
~	Web Server Set	ttings			
	Web Server Mod	le	HTTP.sys (Windows only)		
	Local HTTP Port		8181		
	HTTP(S) Binding	Is	http://*:80/, https://+:443/		
	Serve Static Web	Files	True		
	Custom HTTP R	edirect URL			
>	MySQL/MariaD	B/MSSQL Set	tings		
Pro All	oject Name ows to specify a n	name for this p	roject, which will then be displayed in the UI.		
	Reset Admin Pas	sword	Reset Password Key Load Settings Save Settings		
	Clear History Va	alues			
(Service Manag	ement			
	Service Status:	Service is not	installed.		
	💡 Install & Sta	art Service	Start Stop Uninstall Service		
			OK Cancel		

Basic Settings

Setting Name	Description
Project Directory	The project directory specifies the folder where Codabix stores the project settings (all of the following settings), the back-end database (if <i>Back-end</i> <i>Database Mode</i> is set to "Embedded (SQLite)"), log files and configuration files for the plugins. It can be retrieved using the environment variable %CodabixProjectDir%, e.g. in Scripts. It contains the following folders: • log: Contains the Codabix runtime log files and log files from the Entity Model. • plugins: Contains configuration files for plugins. • webfiles: In this folder, you can place static files that should be accessible through the embedded Codabix web server for URLs starting with /webfiles/, if the setting <i>Serve Static Web Files</i> is enabled. • dashboard: Similar to webfiles, but for URLs starting with /dashboard/ in order to override the embedded Dashboard and use your own one. • userdata: You can place custom files in this folder (e.g. for use by Scripts). This folder is guaranteed to not be used differently in future Codabix versions. When creating a backup , the contents of these subfolders will be included in the backup.
Project Name	Allows you to specify a name for the current project, which will be displayed in the Codabix application's title bar and used for the default backup file name.
Access Security	 Within Codabix, the project logic can access files on your system by creating File Nodes (and then accessing them using the HTTP Access URL or using an OPC UA Client), or by creating a Script that uses the io.file and io.directory namespaces, or using plugins such as XML Exchange. To prevent a user that has the Codabix admin password (or is able to create Scripts or File Nodes in Codabix) from accessing arbitrary files on the system (especially when running as a service), you can allow or deny access to specific paths. Furthermore, you can define alternative access credentials to be used when accessing the path (which is done by impersonation), or additionally add the path as a network resource. By default, level Normal is set wich permits the folders plugins, log, userdata, webfiles, dashboard within the project directory for read/write access. You can define additional directory/file paths to which read or write access should be allowed.
Log Level	Specifies the detail level of logging which Codabix shall use when writing logfiles. Only those log entries are written that have at least a severity of this level. 'Off' means no logfiles are created.

Setting Name	Description
Back-end Database Mode	 Specifies which back-end database to use. By default, Codabix uses an embedded database (SQLite) which doesn't need any configuration. The embedded database will be stored in the files codabixdb.db and codabixhistorydb.db in the specified project directory. However, for better performance you can also use MySQL 8.0 or higher, MariaDB 10.3 or higher, or Microsoft SQL Server 2014 or higher (with SQL Server Authentication) as a back-end database. If you select "MySQL/MariaDB" or "Microsoft SQL Server", you will need to fill in the settings grouped under the "MySQL/MariaDB/MSSQL Settings" category. When creating a backup, the contents of the back-end database will be included in the backup. You can also migrate the current back-end database from SQLite to MySQL/MariaDB/MSSQL (or MySQL/MariaDB/MSSQL to SQLite) by creating a backup, switching the Database Mode and then restoring the backup.
Web Comer	from SQLite to MySQL/MariaDB/MSSQL (or MySQL/MariaDB/MSSQL to SQLite) by creating a backup, switching the Database Mode and then restoring the backup.

Web Server Settings

Setting Name	Description
	Specifies the mode of the embedded web server that Codabix uses in order to provide the Codabix Web Configuration, the Dashboards app, the REST/SignalR Interface, registered Script HTTP Handlers and optionally user-provided static files.
Web Server Mode	Kestrel is built on socket APIs and is used by default as it generally provides the best performance. When using HTTPS, SSL certificates need to be provided as PFX (PKCS #12) files ($.pfx$, $.p12$) and will be stored in the Codabix Settings file (encrypted with the project's password key).
	The Windows HTTP Server API (HTTP.sys) is supported on Windows, and allows to share ports with other IIS web sites. When using HTTPS, SSL certificates need to be placed in the Windows Certificate Store (see below). In order to use remote bindings, Codabix will need to be installed as a service.
	Specifies the TCP port on which the embedded web server listens for local (loopback) connections. By default, Codabix uses the port 8181 . Optionally, this port can also be used as remote HTTP Binding.
Local HTT Port	Note: When you use Windows HTTP Server API as Web Server Mode and you want to use ports ≤ 1024 (e.g. port 80), or you want to access the Codabix Web Configuration, the Dashboards app, or the REST/SignalR Interface from other machines on the network (and you have enabled the option "Use the Local Port as remote HTTP Binding" for this in the "HTTP(S) Bindings" options), you need to install Codabix as a service (see below). Otherwise, only ports > 1024 are allowed and only the local machine can access Codabix via HTTP.

Setting Name	Description
HTTP(S) Bindings	You can enable HTTP and HTTPS bindings, containing the hostname, port and the SSL certificate (for HTTPS), for remote connections. This allows you to connect to Codabix from remote machines, optionally over an authenticated and encrypted TLS connection .
	Note: To use a SSL certificate for Windows HTTP Server API Web Server Mode, it must be stored in the Personal or Web Hosting Certificate Store of the <i>Local Computer</i> account in Windows and you must have a <i>private key</i> for the certificate. Intermediate certificates (also called CA Cert) must be stored in the Intermediate Certificate Authorities Store.
	To manage certificates in Windows, you can use MMC by running certlm.msc and then opening the <i>Personal</i> folder (or <i>Web Hosting</i> , resp.) for your certificate and the <i>Intermediate Certificate Authorities</i> folder for your intermediate certificates or you can use PowerShell by switching to the path Cert:\LocalMachine\My (or Cert:\LocalMachine\WebHosting) for your certificate and Cert:\LocalMachine\CA for your intermediate certificates.
Serve Static Web Files	If enabled, the embedded web server will serve static files placed in the webfiles folder of the project directory for URLs starting with /webfiles/. This allows you in combination with the Script HTTP Handler feature to develop Web Apps served by Codabix (e.g for visualization).
Custom HTTP Redirect URL	If not specified, requests for the root path (/) will be redirected to the Codabix Web Configuration. Alternatively, you can specify a custom redirect URL. This is useful if you want users to directly get to your custom Web App served by the embedded web server, when entering the Codabix address in their browser.
MySOI /Mari	aDB/MSSOL Settings

(applies only if Back-end Database Mode is "MySQL/MariaDB" or "Microsoft SQL Server")

Setting Name	Description
Hostname	Specifies the hostname of the MySQL/MariaDB/MSSQL server. When using MSSQL and the port is empty, this will be interpreted as data soure (e.g. <computername>\<instancename>). Otherwise, this is the hostname for TCP connections.</instancename></computername>
Port	Specifies the TCP port of the MySQL/MariaDB/MSSQL server. Can be empty to use the default port (for MySQL/MariaDB) or to use the hostname as data source (for MSSQL).
Database Name	Specifies the database name which Codabix shall use on the MySQL/MariaDB/MSSQL server. If the specified database does not exist, Codabix will automatically create the database and the necessary tables when applying the project settings.
User Name	Specifies the username which Codabix shall use to connect to the MySQL/MariaDB/MSSQL Server.
Password	Specifies the password for the username.
la stallin a Cade	

Installing Codabix as a Service

You can install Codabix as a service. This allows you to run Codabix automatically and permanently in the background (like on a Server) without having to explicitely start the Codabix application.

After opening the Codabix settings dialog by clicking on the gear toolbar item at the top right (

🕸), it will show the section "Service Management" that allows you to install, start	, stop and
uninstall Codabix as a service:	
Service Management	
Service Status: Service is not installed.	
Install + Start Service Start Stop Uninstall Service	

You can install and start Codabix as a service by clicking the **"Install + Start Service"** button. This will show an UAC dialog (because installing a service requires administrator rights).

User Account Control	×
Do you want to allow th changes to your device?	is app to make
CoDaBix® Compact	:
Verified publisher: Traeger Gmb File origin: Hard drive on this co	H Industry Components mputer
Show more details	
Yes	No

To uninstall the service, click the "Uninstall Service" button.

Note: When you change a setting like the project directory or the HTTP port while Codabix is running as a service, the service needs to be restarted (or reinstalled) to apply the new settings. This is indicated by the following dialog that lets you restart/reinstall the service:



Note: The service is configured to automatically restart after a failure. This ensures Codabix can restart in a clean, defined state after a serious error has occured.

License Management

Machine Code

When you order a Codabix license, you will need to provide the machine code for the machine where Codabix is running.

To get the machine code, in the Codabix application click on the key symbol (**) to open the license dialog. Then, click on the button "Copy Machine Code" to copy the local machine code into the clipboard.

This product will (expire in 28 day(s).		
Registration is rec	quired for continued	l use of the applicati	on.
License Code:			
1			
			~
	IDCA		

Codabix for Linux

System Requirements

Supported Operating Systems

Codabix for Linux is supported on the following Linux distributions:

- Debian 11 (Bullseye) or higher (x64, Arm64, Arm32)
 - $\,\circ\,$ including derivates such as Raspberry Pi OS (for Raspberry Pi)
- Ubuntu 20.04 or higher (x64, Arm64)
- Fedora 37 or higher (x64)
- OpenSUSE Leap 15.0 or higher (x64)

Hardware Requirements

- Raspberry Pi:
 - Codabix for Linux (Arm64) can run on a Raspberry Pi 4 or newer (with a 64-bit OS,

- with at least 2 GB RAM).
- Codabix for Linux (Arm32) can run on a Raspberry Pi 3 or newer.
- For optimal performance, we recommend running Codabix (Arm64) on a Raspberry Pi 4 (or newer) with 4 GB or 8 GB RAM, using an 64-bit OS.
- Other machines:
 - Recommended: 64-bit Quad-Core CPU (x64/Arm64), 8 GB RAM, 64-Bit OS and Codabix

Back-end Database Requirements

By default, Codabix uses an **embedded database (SQLite)** which doesn't have any additional requirements.

However, if you plan on using MySQL, MariaDB, or Microsoft SQL Server as a back-end database, please make sure it is MySQL 8.0 or higher, MariaDB 10.3 or higher, or Microsoft SQL Server 2014 or higher.

Unsupported Features

Some features are currently not available in Codabix for Linux. This includes:

- Windows-only plugins like Melsec QJ Device Plugin, H1 Device Plugin, AKLAN Device Plugin
- Accessing OPC Classic (COM) Servers using the OPC UA Client Device Plugin
- User authentication via Active Directory
- Impersonation for files with different credentials (or establishing SMB network connections), e.g. for File Nodes or when using the CSV Exchange Plugin
- GUI window (you can open the Codabix Web Configuration in a browser, but administrative tasks like setting the Project Directory, installing the service etc. need to be done in the Codabix Shell console application)

Installing Codabix and First Start

Installing Codabix for Linux

To install Codabix for Linux, download the .setup file and execute the following command to make the file executable:

```
chmod +x codabix-<platform>-<release-date>-<release-version>.setup
```

Start the setup by typing:

```
sudo ./codabix-<platform>-<release-date>-<release-version>.setup
```

The setup will guide you through the installation.

Older installations of Codabix will not be removed to enable a later roll-back. The database backup that is needed for such a roll-back can be created during the setup.

First Start

To start the console-based Codabix Shell, run the following command:

codabix

• Codabix should now be starting and ask for a project directory:



- Enter the full path where you want to store the Codabix project directory (usually a folder in your home directory) (see Codabix Project Settings). Then, press enter two times to apply the settings and restart Codabix.
- Codabix will now ask to reset the Admin password; please enter a new password here:

My Sample Project - CoDaBix Shell	• • •
File Edit View Search Terminal Help	
Select an option (or leave blank to apply the current settings): Settings applied!	
CoDaBix Engine starting (Project Directory: ' /home/user/My Sample Proj l/Remote HTTP Port: ' 8181 ')	ect', Loca
Initializing back-end database Please do not turn off your comp Initializing back-end database Please do not turn off your comp Loading nodes	uter. uter.
Starting plugins Starting plugin 'CoDaBix Socket Device Plugin' Starting plugin 'CoDaBix RFC-1006 Device Plugin' Starting plugin 'CoDaBix I²C Device Plugin'	
Starting plugin 'CoDaBix Modbus Device Plugin' Starting plugin 'CoDaBix S7 Device Plugin' Starting plugin 'CoDaBix SQL Exchange Plugin' Starting plugin 'CoDaBix OPC UA Client Device Plugin'	
Starting plugin 'CoDaBix Extension XML Plugin' Starting plugin 'CoDaBix Extension AutoSubscribe Plugin' Starting plugin 'CoDaBix OPC UA Server Interface Plugin'	
Starting plugin 'CoDabix CSV File Server' Starting plugin 'CoDaBix File Import Plugin' Starting plugin 'CoDaBix Database Plugin' CoDaBix Engine started.	
CoDaBix Shell (My Sample Project) - Reset Admin Password	
Please enter the new Admin password for the CoDaBix Web Configuration blank to cancel).	(or leave
Username: admin Password:	
Now you can open http://localhost.8181/config/in a browser on yo	ur machine

 Now, you can open http://localhost:8181/config/ in a browser on your machine (if your Linux distribution was installed with GUI) to open the Codabix Web Configuration, or you can use http://<IP-address>:8181/config/ in a browser from another machine to access it over the network.

Run Codabix as a Service

Install Codabix as a Service

To install Codabix as a service, start the Codabix Shell by executing the following command:

codabix

• Choose the option 6 from the command line menu to invoke the Service Management:



• By choosing option **1** in the Service Management you can now install and start Codabix as a Service:



• After successfully starting the service you will see the status **Service is running** on the command line:

④ CoDaBix [®] Compact (Shell)	-		×
Select an option (or leave blank to cancel): 1			
CoDaBix Engine stopping CoDaBix Engine stopped.			
Preparing to install service Installing service Created symlink /etc/systemd/system/multi-user.targe .service → /etc/systemd/system/codabix.service. Starting service	et.wan	ts/coda	bix
CoDaBix Compact (Shell) - Main Menu CoDaBix Engine Status: Service is running.			
Options: 1) Edit Settings 2) Reset Admin Password 3) Create Backup 4) Restore Backup 5) License Management 6) Service Management			
8) Open OS Shell 9) Exit >			

- Now you can close the Codabix Shell with **9** and the service will keep running in background.
- From now on the service will be automatically started in case of a reboot of the operating system.

Status of the Codabix Service

To retrieve the current status of the Codabix Service (*Running*, *Stopped*) start the Codabix Shell:

codabix

The current status of the service will now be displayed:



(Re-)start, stop and uninstall the Codabix Service

In order to (re-)start, stop, or uninstall the Codabix Service open the Codabix Shell:

codabix

- Call the Service Management via option 6
- Now choose the requested funcion:

🕑 CoDaBix® Compact (Shell)	_	×
CoDaBix Engine Status: Service is running.		~
Ontions		
) Edit Settings		
2) Reset Admin Password		
3) Create Backup		
4) Restore Backup		
5) License Management		
5) Service Management		
3) Open OS Shell		
) Exit		
6		
CoDaBix Compact (Shell) - Service Management		
Current Service Status: Service is running.		
l) Install + Start Service		
2) (Re-)Start Service		
3) Stop Service		
4) Uninstall Service		
Calert an option (on leave blank to cancel):		
serect an option (or leave brank to cancer):		~

License Management

Machine Code

When you order a Codabix license, you will need to provide the machine code for the machine where Codabix is running.

To get the machine code, execute the following command on the command line (bash):

codabix --machinecode

This will output the local machine code to the terminal, for example:

```
$ codabix --machinecode
U7f3lqK5bG04fIVUNX5yhWgNlG6PnSKbvHuY6Ml610gAAgAA9+w50G0p0AFgKyfQPVjB09
rId87pLs29nC+CHQ==
```

Alternatively, you can display the machine code in the Codabix Shell application, by entering license in the main menu to open the license management. The local machine code will be displayed at the top:

chine Code:		
circle Code:	UTI S CQKSDC041 I VONXSYNWGN CCO	
CoDaBix: Th	is product will run for 180 m	more minute(s).
	es produce area run run 100 m	
Plugin Lic	enses:	
) CoDaBix CS	V File Server:	This product will run for 180 more minute(s).
) CoDaBix Da	tabase Plugin:	This product will run for 180 more minute(s).
) CoDaBix Fi	le Import Plugin:	This product will run for 180 more minute(s).
) CoDaBix I ²	C Device Plugin:	This product will run for 180 more minute(s).
) CoDaBix Mo	dbus Device Plugin:	This product will run for 180 more minute(s).
) CoDaBix OP	C UA Client Device Plugin:	This product will run for 180 more minute(s).
) CoDaBix OP	C UA Server Interface Plugin:	This product will run for 180 more minute(s).
) CoDaBix RF	C-1006 Device Plugin:	This product will run for 180 more minute(s).
) CoDaBix S7	Device Plugin:	This product will run for 180 more minute(s).
) CoDaBix So	cket Device Plugin:	This product will run for 180 more minute(s).
A	Euchanna Dluniau	This sectors will see for 100 mere signification

From: https://www.codabix.com/ - **CoDaBix**®

Permanent link: https://www.codabix.com/en/install

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