

Create. Learn. Guide.

datango

datango collaborator 3.2.7 Installation Manual

collaborator as standalone service on Windows



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Target group: Since the installation requires advanced knowledge of e.g. web servers or MSSQL databases, it should only be performed by experienced users (e.g. admins) or datango customer support. If you have any questions regarding the installation, please contact datango customer support support@datango.com.

1 Installation requirements

The following requirements must be met for collaborator to be installed as a standalone service.

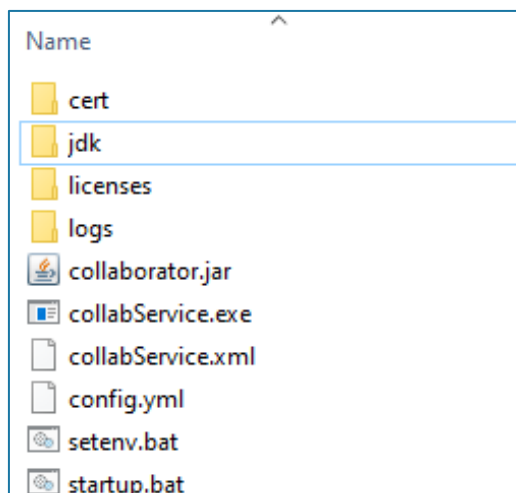
- You have Java 17 installed; either regular or as a standalone, unpacked version.
- You have access to an MSSQL Server 2016 database.
- You have a valid SSL certificate in PKCS12 format (PFX or P12 file).

2 Preparing installation directory

First, select a directory in which collaborator is to be installed. In the future, collaborator (e.g. C:\collaborator). will also be started from this directory. Therefore, choose a **permanent directory**.

Unpack the content of the installation package we delivered.

Now place the following additional files in the installation directory or the folders it contains:



1. your SSL certificate → into the *cert* folder
2. collaborator license supplied by us → into the *licenses* folder
3. *collaborator.jar* file supplied by us → into the installation directory (top level)
4. your Java installation folder (when using the standalone version) → into the installation directory (top level)

TIP We recommend storing all collaborator files in one place!

3 Configuration

3.1 Configuring service wrapper (for further collaborator versions)

If you do not have collaborator installed on your computer, no configuration of the service wrapper is usually required. Continue with configuration of the Java VM path (section 3.2).

If you have **other collaborator versions installed** on your computer, you must configure the service wrapper (*collabService.exe*) via the ***collabService.xml*** file. Both files are located in the installation directory (e.g. C:\collaborator).

Open the *collabService.xml* file with any text editor and make the following settings:

Parameter	Explanation	TO DO for several collaborator versions
id	alphanumeric value used internally by Windows to manage services	<p>Since the ID must be unique per service, you must assign an ID that does not match the ID of your already installed version. Otherwise, the installation cannot be completed because the service will be recognized as already existing.</p> <p>Example: <code><id>collab1</id></code> versus <code><id>collab2</id></code></p>
name	human readable name of the service; displayed in the Windows Service Manager (see example screen below)	<p>Since the name must be unique per service, you must assign a name that does not match the name of your already installed version. Otherwise, the installation cannot be completed because the service will be recognized as already existing. The name should be recognizable / legible.</p> <p>Example: <code><name>datango collaborator</name></code> versus <code><name>company xy collaborator</name></code></p>
description	Description of the service; displayed in the Windows Service Manager (see example screen below).	<p>The description should be recognizable / legible.</p> <p>Example: <code><description>Your central Learning Management System</description></code></p>

executable	File that is executed when the service is started	Do not change!
log	describes how <i>stdout</i> and <i>stderr</i> logs of the executable file are handled By default up to 3 files (each with up to 5MB) are created. If 3 files are created, overwriting is done according to the rotation principle.	Do not change! The configuration of the collaborator logs is done later via the <i>yaml</i> file (section 3.3).

The *name* and *description* parameters are displayed in the Windows Services Manager:

datango collaborator	Name	Beschreibung	Status	Starttyp	Anmel...
Den Dienst beenden	CaptureService_4db3e54f	Aktiviert optionale Bildschirm-Erfassungsfunktion...		Manuell	Lokales
Den Dienst neu starten	Clientlizenzdienst (ClipSVC)	Stellt dem Microsoft Store Infrastrukturunterstützu...		Manuell (Start dur...	Lokales
	CNG-Schlüsselisolation	Der CNG-Schlüsselisolationsdienst wird im LSA-Pr...	Wird ausgeführt	Manuell (Start dur...	Lokales
	COM+-Ereignissystem	Unterstützt den Systemereignis-Benachrichtigung...	Wird ausgeführt	Automatisch	Lokaler
Beschreibung: Your central Learning Management System	COM+-Systemanwendung	Verwaltet die Komponentenkonfiguration und -üb...		Manuell	Lokales
	Computerbrowser	Führt eine aktuelle Liste der Computer im Netzw...		Manuell (Start dur...	Lokales
	ConsentUX_4db3e54f	Ermöglicht die Nutzung von ConnectUX- und PC-...		Manuell	Lokales
	CoreMessaging	Manages communication between system compo...	Wird ausgeführt	Automatisch	Lokaler
	CredentialEnrollmentManagerUserSvc_4...	Anmeldeinformationen-Registrierungs-Manager		Manuell	Lokales
	datango collaborator	Your central Learning Management System	Wird ausgeführt	Automatisch	Lokales
	Dateiversionsverlauf-Dienst	Schützt Benutzerdateien vor einem versehentliche...		Manuell (Start dur...	Lokales
	Datenfreigabedienst	Dient als Datenbroker zwischen Anwendungen.	Wird ausgeführt	Manuell (Start dur...	Lokales
	Datennutzung	Nutzung von Netzwerkdaten, Datenlimit, Einschrä...	Wird ausgeführt	Automatisch	Lokaler

3.2 Configuring Java VM settings

Next, you must configure the Java VM path and any other parameters via the **setenv.bat** file. The file is located in the installation directory (e.g. C:\collaborator).

Open the *setenv.bat* file with any text editor and make the following settings:

Parameter	TO DO
JAVA_BIN	Enter the path to your <i>Java17-bin</i> folder. Both relative (from the <i>setenv.bat</i> file) and absolute paths can be used.
JAVA_MIN_HEAP	Specify how much memory collaborator is allowed to use. We recommend a range between 256MB and 2GB. Adjust the values according to your computer, number of users, Java memory, etc.
JAVA_MAX_HEAP	
JVM_ARGS	Add more Java VM start parameters if needed.

3.3 Configuring collaborator settings

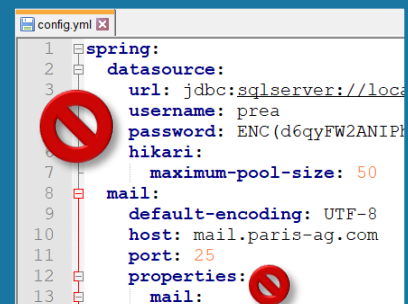
Finally, you need to configure collaborator via the **config.yml** file. The file is located in the installation directory.

Open the *config.yml* file with any text editor.



DO NOT change format!

To guarantee a smooth installation, you must not change the predefined indentations within the *config.yml* file. Furthermore, you should not add any additional parameters after setting descriptions such as properties:, mails:).



All the setting options that you can configure are explained below.

Settings for spring

```
spring:
  datasource:
    url: jdbc:sqlserver://localhost:1433;dat
    username: prea
    password: ENC(d6qyFW2ANIPIhSXoBujXowhbl+V
    hikari:
      maximum-pool-size: 50
  mail:
    default-encoding: UTF-8
    host: mail.paris-ag.com
    port: 25
    properties:
      mail:
        smtp:
          from: CollabDummy@datango.com
          auth: false
          starttls:
            enable: false
    protocol: smtp
    test-connection: false
```

datasource -> **url**

Enter the URL, port and database name of the MSSQL server.

e.g. jdbc:sqlserver://<dbServer>;databaseName=<collabDatabase>

datasource -> username

Enter a user for the database service. Upper or lower case is not important.

datasource -> password

Enter an encrypted password for the user. Use an external tool to encrypt the password. If using an external tool, enter the following commands in the Java console (Maven must be installed):

```
mvn jasypt:encrypt-value -Djasypt.encryptor.password=private-key -  
Djasypt.plugin.value=your-password
```

datasource -> hikari -> maximum-pool-size

If necessary, adjust the number of connections to the MSSQL server. The number may vary depending on the size of the company and the number of users expected at the same time. The minimum number should not be less than 10. The maximum number should not exceed the number of CPU cores.

mail -> default-encoding

Use default UTF-8 encoding. As a rule, no adjustment is required.

mail -> host

Enter the URL of the email server.

mail -> port

Use the default email port of 25. As a rule, no adjustment is required.

mail -> properties -> mail -> smtp -> from

Enter the email address of the sender. The user will receive all email notifications about e.g. content or course updates from the email address entered here.

mail -> properties -> mail -> smtp -> auth

With the default setting *false*, there is no authentication of the sender to the SMTP server. As a rule, no adjustment is required.

mail -> properties -> mail -> smtp -> starttls -> enable

With the default setting *enable*, the SMTP server requires a certificate. As a rule, no adjustment is required.

mail -> protocol

Use the default SMTP protocol. As a rule, no adjustment is required.

mail -> test-connection

With the default setting *false*, the system checks whether the email server is available when collaborator is started. As a rule, no adjustment is required.

Settings for jasypt

Jasypt (Java Simplified Encryption) is a Java library that can be used to encrypt property sources in spring boot applications.

```
jasypt:  
  encryptor:  
    password: 5784n0w7bty549z08m6t7n
```

encryptor -> **password:**

Use the preset password. As a rule, no adjustment is required.

Settings for logging

```
logging:  
  file:  
    path: ./logs  
    name: ${logging.file.path}/collaborator.log  
  logback:  
    rollingpolicy:  
      max-file-size: 10MB  
      max-history: 31
```

file -> **path**

With the predefined path, the log files are stored in the *logs* folder of your installation directory (section 2). If the log files are to be stored in a different location, adjust the path accordingly. Both relative and absolute paths can be used. However, we recommend storing all collaborator files in one location (default).

file -> **name**

With the predefined path and name, the log files are stored in the logs folder of your installation directory (section 2).

logback -> rollingpolicy -> **max-file-size**

Use the preset file size in MB. As a rule, no adjustment is required.

logback -> rollingpolicy -> **max-history**

System log files are stored for 31 days by default. Adjust the number of days as needed.

Settings for collaborator

```

collaborator:
  storage:
    path: C:\Content\32718
  license:
    path: ./licenses
  admin:
    user: admin
    password: ENC(g+zekNVHct2d3V3LYxE31cjGEd/EYaU7xq+7nCY4wsbOVzXnn8yGyUV5JWmu7AzO)
  scheduler:
    aggregated-object-changes: '0 0 * * * ?' # every day every hour
    assignment-checker: '0 0 * * * ?' # every day every hour
    course-content-changes: '0 0 * * * ?' # every day every hour
    email-logs-cleaner: '0 0 12 * * ?' # every day at 12pm
    new-and-updated-feedbacks: '0 0 * * * ?' # every day every hour
    open-pending-courses: '0 0 * * * ?' # every day every hour
    task-close-to-target-date: '0 0 * * * ?' # every day every hour
    unchanged-content:
      first: '0 0 15 26 4 ?' # 26th of April at 3pm
      second: '0 0 21 26 4 ?' # 26th of April at 9pm
    unstarted-pending-courses: '0 0 * * * ?' # every day every hour
    workarea-orphans: '0 0 * * * ?' # every day every hour

```

storage -> **path**

Enter the path to the location of the content and resource files. Both relative and absolute paths can be used.

licence -> **path**

If you have stored the licenses supplied by us in the licenses folder (section 2), you can use the predefined path. If you have stored the licenses in a different location, adjust the path accordingly. Both relative and absolute paths can be used. However, we recommend storing all collaborator files in one location (default). The licenses are loaded automatically at startup.

licence -> default -> admin -> **user**

Enter an admin user.

licence -> default -> admin -> **password**

Enter an encrypted admin password. Use an external tool to encrypt the password. If using an external tool, enter the following commands in the Java console (Maven must be installed):

```

mvn jasypt:encrypt-value -Djasypt.encryptor.password=private-key -
Djasypt.plugin.value=your-password

```

The “**scheduler checks**” listed below are performed automatically by collaborator. Changes should only be made by experienced users (e.g. administrators) or datango customer support.

scheduler -> **aggregated-object-changes**

With the default setting, collaborator checks every day once an hour to see whether any changes have been made to the content. All changes are sent as a collective email after the check.

scheduler -> **assignment-checker**

With the default setting, collaborator checks every day once an hour whether learners have been assigned courses. All course assignments are sent as a collective email after the check.

scheduler -> **course-content-changes**

With the default setting, collaborator checks every day once an hour whether changes have been made to courses, e.g. changed expiration date, new content. All changes are sent as a collective e-mail after the check.

scheduler -> **email-logs-cleaner**

With the default setting, all email log files are deleted every day at 12pm.

scheduler -> **license-reloader**

With the default setting, the licenses are checked for up-to-dateness every night at 1:15am. Do **not** set the value to 0, otherwise there will no longer be a required check.

scheduler -> **new-and-updated-feedbacks**

With the default setting, collaborator checks once an hour each day whether content or courses have been evaluated or feedback has been updated. All changes are sent as a collective email to the course owner after the check.

scheduler -> **open-pending-courses**

With the default setting, collaborator checks every day once an hour whether courses are pending. Notifications for this are sent as a collective email after the check (at or before the start of the course, depending on the setting).

scheduler -> **task-close-to-target-date**

With the default setting, collaborator checks every day once an hour whether tasks with a target date are due for completion. Notifications about deadlines are sent as a collective email after the check.

scheduler -> unchanged-content -> **first**

With the default setting, collaborator checks on April 26 at 3pm. whether ...

scheduler -> unchanged-content -> **second**

With the default setting, collaborator checks on April 26 at 9pm. whether ...

scheduler -> **unstarted-pending-courses**

With the default setting, collaborator checks every day once an hour whether running courses have not yet been started. Notifications for this are sent as a collective email after the check.

scheduler -> **workarea-orphans**

With the default setting, collaborator checks every day once an hour whether content can no longer be assigned to a parent folder and has been created as orphaned content. Notifications for this are sent as a collective email after the check.

Settings for server

```
server:  
  ssl:  
    key-store-type: PKCS12  
    key-store: ./cert/ber-col-005.pfx  
    key-store-password: prea  
  port: 443  
  servlet:  
    context-path: /collaborator
```

ssl -> **key-store-type**

Use the PKCS12 format (PFX or P12 file).

ssl -> **key-store**

If you have stored your SSL certificate in the *cert* folder (section 2), you can use the predefined path. If you have stored the SSL certificate in a different location, adjust the path accordingly. Both relative and absolute paths can be used. However, we recommend storing all collaborator files in one location (default).

ssl -> **password**

Enter an encrypted password for the SSL certificate. Use an external tool to encrypt the password. If using an external tool, enter the following commands in the Java console (Maven must be installed):

```
mvn jasypt:encrypt-value -Djasypt.encryptor.password=private-key -  
Djasypt.plugin.value=your-password
```

port

Use the default port for HTTPS connections of 443. As a rule, no adjustment is required.

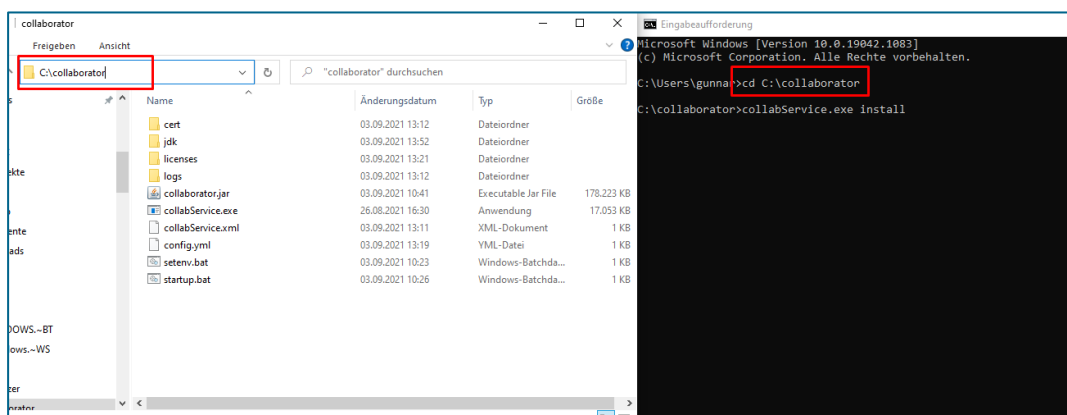
servlet -> **context-path**

Adjust the context path if necessary.

4 Installation

We recommend that during the installation you are in the directory where the `collabService.exe` file is located. Press the Windows and R keys simultaneously, type `cmd` and click OK to open the command prompt. Enter the following installation command: `collabService.exe install`

After the entered command is executed, the new service appears in the Windows Services Manager. All service configurations can be done from here. Starting and stopping the service also works as usual.



Uninstalling collaborator can also be done from the command prompt. Enter the following uninstall command: `collabService.exe uninstall`

5 Starting collaborator



If the service is to be started with a specific Windows **user account**, specify this before starting. This can be important, for example, to retrieve the domain information for the license from the system.

To start collaborator, you only need to start the Windows service via the Windows Service Manager. The startup process can be followed in the log files.

6 Update



Create a **backup** of your current environment and all relevant data (database and content) before performing an update.

When a new collaborator version is deployed by us, simply stop the service via the Windows Service Manager. To do this, press the Windows and R keys simultaneously, type `services.msc` and click OK to open the Windows Service Manager. Replace the `collaborator.jar` file and restart the service. The same applies if a configuration needs to be adjusted.