KOENIG & BAUER

Kyana Connect Manual
Edge Onboarding

March 2026

we’re on it.

KOENIG & BAUER

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1 Introduction

This document is a step-by-step guide that provides an overview of the system requirements for hardware or a virtual machine (VM). Further it instructs you on how to prepare for the Kyana Connect software installation.

2 Kyana Connect configuration requirements

This section details the minimum recommended configuration to ensure optimum performance and experience of the Kyana Connect solution. Part of the solution is the C-IoTA Container which is the core software component running on Docker.

2.1 Configuration requirements for Linux operating systems

- Ubuntu Server 24.04 LTS and onwards
- 2 GHz Processor or better
- 16 GB RAM of Memory (1 GB for ubuntu, 2 GB for C-Iota container and docker host)
- 16 GB minimum of disk space of 16 GB (2 GB for docker images, 2.5 GB for Ubuntu OS, 2 GB for C-Iota configurations and log files, remaining for data buffer and SMB/FTP data files)
- Support for Docker (Docker will be installed with the onboarding script)

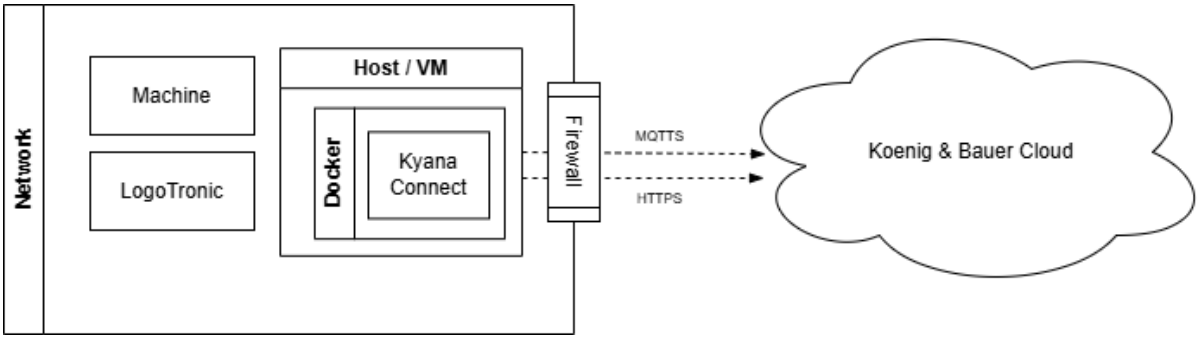
2.2 Configuration requirements for Windows operating systems

- Windows Versions: Windows 11, Windows 10 version 1903 or higher (x64 systems), Windows 10 version 2004 or higher (ARM64 systems), Windows Server 2022
- 2 GHz Processor with 2 Cores or better (ARM64, x64)
- 16 GB RAM of Memory (4 GB for Windows, 2 GB for C-IoTA container and docker host)
- 64 GB minimum disk space as specified by Microsoft for smooth functioning of windows system (2 GB for docker images, 2 GB for C-IoTA configurations and log files, remaining for data buffer and SMB/FTP data files)
- Support for WSL2 or Microsoft-Hyper-V and Containers
- Support for Docker (Docker will be installed with the onboarding script)
- Virtualisation needs to be activated (https://support.microsoft.com/en-us/windows/enable-virtualization-on-windows-c5578302-6e43-4b4b-a449-8ced115f58e1)

2.3 Network configuration

The network configuration for establishing the connectivity with Kyana Connect to a machine or to LogoTronic, it can be installed in a way that allows multiple machines to connect to an instance hosted on a dedicated virtual machine or server.

For the initial installation, Kyana Connect needs to be able to update and download various packages such as Containers or Docker. Therefore we recommend allowing outgoing requests in the firewall.



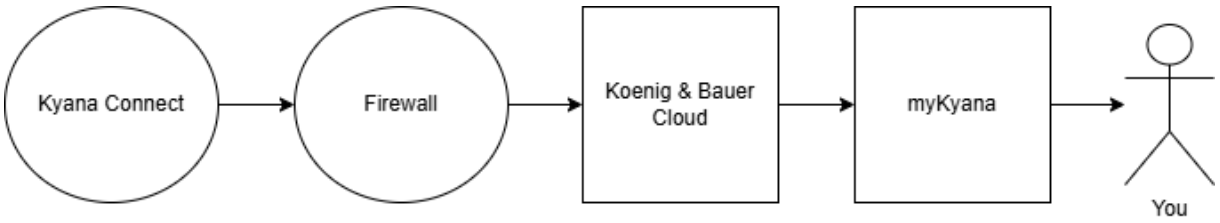
2.4 List of Network Resources

The network configuration for connecting Kyana Connect to a machine, LogoTronic or RotaJET and the Koenig & Bauer Cloud. Please note that the outgoing connections to Koenig & Bauer Cloud are mandatory. The network-internal connections depend on the machines that are connected, therefore if you only would like to connect for example your LogoTronic, you only need the configuration for the LogoTronic target.

Source	Target	Protocol	Port	URL / IP
Kyana Connect	Koenig & Bauer Cloud	HTTPS	443	mykyana.koenig-bauer.com
Kyana Connect	Koenig & Bauer Cloud	MQTTS	8883	kyana-connect.koenig-bauer.com
Kyana Connect	Koenig & Bauer Cloud	HTTPS	443	storage.googleapis.com
Kyana Connect	Koenig & Bauer Cloud	HTTPS	443	pubsub.googleapis.com
Kyana Connect	Koenig & Bauer Cloud	HTTPS	443	europe-west3-docker.pkg.dev
Kyana Connect	Koenig & Bauer Cloud	HTTPS	443	download.docker.com
Kyana Connect	Rapida (Log)	SMB	445	IP of the machine
Kyana Connect	LogoTronic (Production)	SMB	445	IP of the machine
Kyana Connect	RotaJET (Live)	TCP	1623	IP of the machine
Kyana Connect	RotaJET (Report)	FTP	21, 65000-65001	IP of the machine
Kyana Connect	CI-Flexo	OPC UA	4840	IP of the machine

2.5 Dataflow

Kyana Connect sends the data from within your network in a secure way to the Koenig & Bauer Cloud. For the access of the data, you can use the myKyana portal.

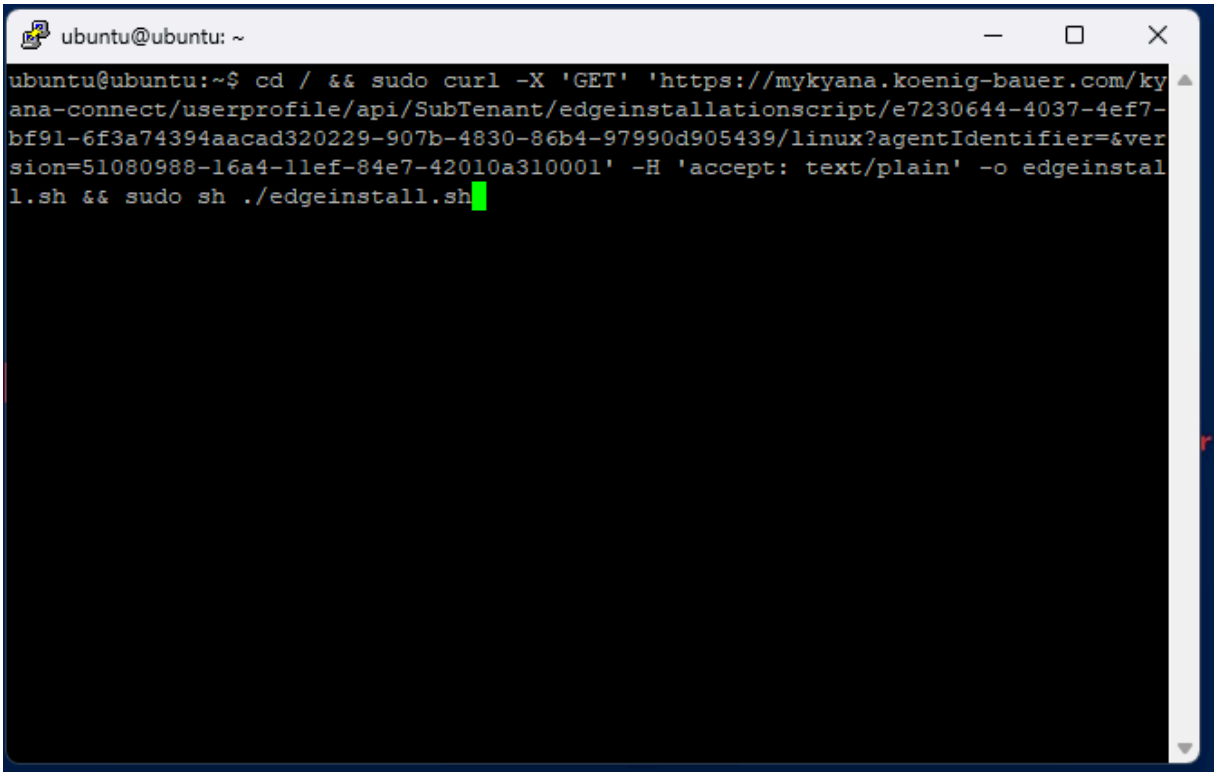


3 Installation of the Edge software

An onboarding installation script (dependent on operating system: Windows or Linux) will be sent to you via email from your Koenig & Bauer contact within the appointment. Please schedule an appointment for screensharing: https://calendar.app.google/Ms1EiNiwmc2z5qZW8

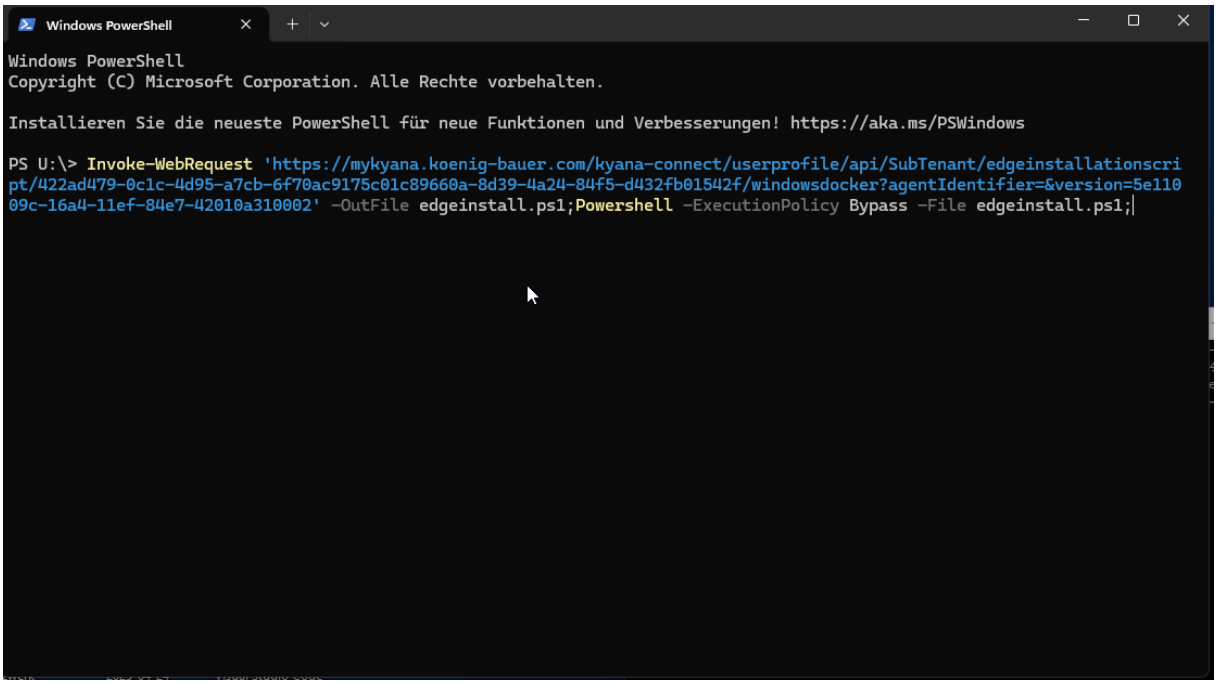
Please do not install Kyana Connect on the LogoTronic Server.

3.1 First time installation for Linux



- Insert the script received from Koenig & Bauer and run it. All further steps will be carried out automatically by the script. The script is executed as root.
- The installation procedure installs docker and the Kyana Connect containers
- Please contact your Koenig & Bauer representative so that your Kyana Connect can be authorised immediately.

3.2 First time installation for Windows



- Run the installation file with administrator privileges and wait 10-15 minutes for the installation to complete.
- The installation procedure installs docker and the Kyana Connect containers.
- All further steps will be carried out automatically by the script.
- Please contact your Koenig & Bauer representative so that your Kyana Connect can be authorised immediately.

4 Updates & Maintenance

For ensuring the highest standards of service, Kyana Connect is built to operate on your systems and fully under your control. For the installation of Kyana Connect, you provide a virtual machine (VM) with docker installed on. Kyana Connect will then be installed and connect to the machines and Koenig & Bauer Cloud. Therefore, the network configurations are also needed to be in place.

Koenig & Bauer takes care of the updates of Kyana Connect. Information about updates will be published through the myKyana portal. Updates and patches to the underlying infrastructure are under

your control and responsibility. As there may arise questions about compatibility, feel free to get in contact.

5 Troubleshooting

5.1 Firewall

The following commands are used to test basic network reachability and specific TCP port accessibility. The HOSTNAME can be a URL/IP of a machine, LogoTronic or part of the Koenig & Bauer Cloud. If one Command fails a Firewall issue can be indicated and the URL/IP needs to be released.

OS	Command	Description
Linux	ping <HOSTNAME>	This Command checks with ICMP if the IP layer is reachable
Linux	nc -z -w 3 "<HOSTNAME>" "<PORT>"	This Command checks if the Port is reachable via TCP
Linux	telnet <HOSTNAME> <PORT>	This Command checks if the Port is reachable via TCP
Windows	ping <HOSTNAME>	This Command checks with ICMP if the IP layer is reachable
Windows	Test-NetConnection -ComputerName <HOSTNAME> -Port <PORT>	This Powershell Command checks if the Port is reachable via TCP
Windows	telnet <HOSTNAME> <PORT>	This Command checks if the Port is reachable via TCP

5.2 SSL/TLS Inspection

The firewall intercepts the original server's certificate and presents the client with a new, dynamically generated certificate. Kyana Connect accepts only very specific certificates. This means the blocked resource needs to be released as an exception.

5.3 Time Synchronization

It is mandatory for the application to run in sync with the current timestamp. Please ensure that the Services for time synchronization are operational.

5.4 Readiness-Script

The Readiness-Script is a great help to identify virtualisation or TCP errors. Please use the provided Download-Link to run the Readiness-Script.

5.5 Windows Log-Files

Please, run the following commands to collect the Log-Files if the previous steps lead to no success:

```shell
## Get System, Application and Security Logs Event Viewer
Remove-Item -Path "C:\temp" -Recurse -Force -ErrorAction SilentlyContinue
mkdir "C:\temp"
wevtutil epl System "C:\temp\SystemLog.evtx"
wevtutil epl Application "C:\temp\ApplicationLog.evtx"
wevtutil epl Security "C:\temp\SecurityLog.evtx"
Compress-Archive -Path "C:\temp\SystemLog.evtx" ,
"C:\temp\ApplicationLog.evtx", "C:\temp\SecurityLog.evtx" -DestinationPath
"C:\temp\system_logs.zip"
## Get EdgeInstallation Logs (C:\EdgeInstallationScript)
Copy-Item -Path "C:\EdgeInstallationScript" -Destination
"C:\Temp\EdgeInstallationScript" -Recurse -Force -PassThru | Get-ChildItem
-Recurse | Where-Object { $_.Extension -eq ".log" } | Compress-Archive
-DestinationPath "C:\temp\EdgeInstallationLogs.zip" -Force
## Get Ciota Logs (C:\ciota\logs)
Copy-Item -Path "C:\ciota\logs" -Destination "C:\temp\ciota_logs" -Recurse
-Force -PassThru | Get-ChildItem | Compress-Archive -DestinationPath
"C:\temp\ciota_logs_backup.zip" -Force
Copy above C:\temp\system_logs.zip, C:\temp\EdgeInstallationLogs.zip and
C:\temp\ciota_logs_backup.zip  to your local system
```

5.6 Linux Log-Files

Please, run the following commands to collect the Log-Files if the previous steps lead to no success:

```shell
cd ~
sudo tar -czf var_log.tar.gz /var/log/
sudo tar -czf home_ciota.tar.gz /home/ciota
```

You can then download the files e.g. using SCP/WinSCP and send us the files per mail or provide access through a shared folder.