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Kyana Connect Manual Edge Onboarding

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we're on it.

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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). The following section explains how to install the software on the standard native environment (Linux).

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 Standard: Configuration requirements for Linux operating systems

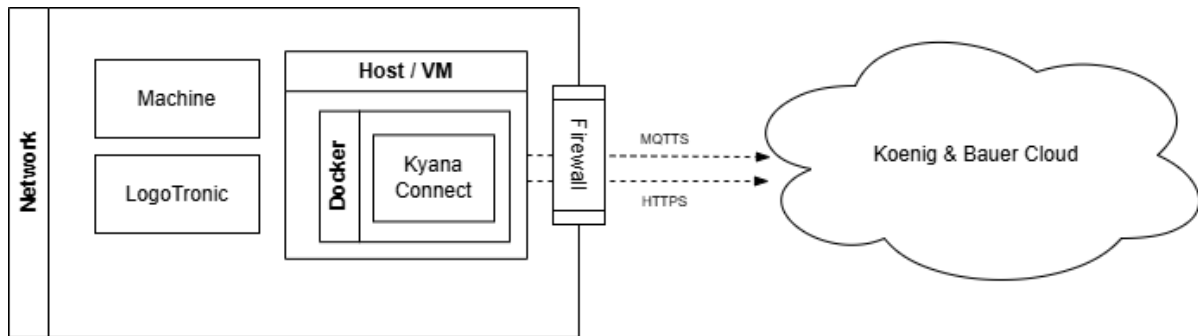
- Ubuntu Server 24.04 LTS and onwards
- 2 GHz Processor or better
- 16 GB RAM of Memory (1 GB for ubuntu, 2 GB for C-Iota container and docker host)
- 16 GB minimum of disk space of 16 GB (2 GB for docker images, 2.5 GB for Ubuntu OS, 2 GB for C-Iota configurations and log files, remaining for data buffer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

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2.2 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.



2.3 List of Network Resources

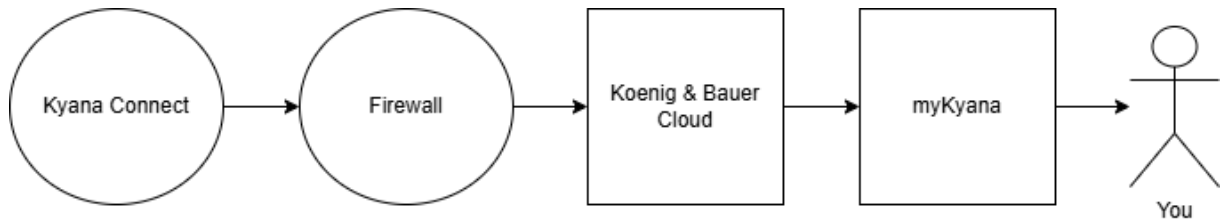
The network configuration for connecting Kyana Connect to a machine, LogoTronic or RotaJET and the Koenig & Bauer Cloud. Please note that the outgoing connections to Koenig & Bauer Cloud are mandatory. The network-internal connections depend on the machines that are connected, therefore if you only would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

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2.4 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 will be sent to you via email from your Koenig & Bauer contact within the appointment. Please schedule an appointment for screensharing:

https://calendar.google.com/calendar/appointments/schedules/AcZssZ3Ym0sMYPF2rfuIbZliffHzAw2B3VH11WIm63bKYXs-Dd0gJcT9u_XSLijZjhQgmV5hQyk_Y

Please do not install Kyana Connect on the LogoTronic Server.

3.1 Standard: First time installation for Linux

```
ubuntu@ubuntu: ~  
ubuntu@ubuntu:~$ cd / && sudo curl -X 'GET' 'https://mykyana.koenig-bauer.com/kyana-connect/userprofile/api/SubTenant/edgeinstallationscript/e7230644-4037-4ef7-bf91-6f3a74394aacad320229-907b-4830-86b4-97990d905439/linux?agentIdentifier=&version=51080988-16a4-11ef-84e7-42010a310001' -H 'accept: text/plain' -o edgeinstall.sh && sudo sh ./edgeinstall.sh
```

The image shows a terminal window with a black background and white text. The prompt is 'ubuntu@ubuntu: ~'. The command entered is: `cd / && sudo curl -X 'GET' 'https://mykyana.koenig-bauer.com/kyana-connect/userprofile/api/SubTenant/edgeinstallationscript/e7230644-4037-4ef7-bf91-6f3a74394aacad320229-907b-4830-86b4-97990d905439/linux?agentIdentifier=&version=51080988-16a4-11ef-84e7-42010a310001' -H 'accept: text/plain' -o edgeinstall.sh && sudo sh ./edgeinstall.sh`. A green cursor is visible at the end of the command.

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- 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.

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

If the following steps do not resolve the issue, our technical support team will be happy to assist you.

In this case, please send the log files you have collected (see section 5.5) along with a brief description of the error to:

mykyana-support@koenig-bauer.com

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

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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 Standard: 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.

In addition to the standard native installation on Linux, there is also the option of running the system on Windows. You can find specific instructions for this at the following link:

https://digitalisation.koenig-bauer.com/wp-content/uploads/2026/06/2026-06_Kyana-Connect_Edge-Onboarding_Manual_EN_Windows.pdf