





# FORCE EDGE CONNECT Installation on Ubuntu with GUI

Version 240112

	Document: FORCE EDGE CONNECT - Installation on Ubuntu with GUI
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# 1 Requirements

(1) Before installing, ensure that the system meets the system requirements. Details can be found in the System Requirements document for FORCE EDGE CONNECT.

## 1.1 User rights for installation

It is mandatory to create a non-root user.

The rights must be assigned to the user to be able to correctly install the application.

#### User:

- Must be a non-root user (name doesn't matter)
- This user must have the right to run the docker + docker compose command
- User ID while installing must be the ID of the current user (number):
   *"id"* (command)
- Add the current user into the Docker group:
  - *"sudo usermod -aG docker \$USER"* (command)

# 2 Installing FORCE EDGE CONNECT on Ubuntu (with GUI)

## 2.1 User setup

- 1. Check the User ID of the login/created user.
  - Run:



- 2. Add this user to the Docker group so that you can run the docker command with this user.
  - Run:

sudo usermod -aG docker \$USER

Fl	forcam@ubuntu: ~	- <b>x</b>
forcam@ubuntu:~\$ sudo usermod [sudo] password for forcam: forcam@ubuntu:~\$	-aG docker \$USER	

3. Verify that user is part of the in Docker group.



Run sudo cat /etc/group forcam@ubuntu: ~ uuidd:x:114: tcpdump:x:115: avahi-autoipd:x:116: rtkit:x:117: netdev:x:119: lpadmin:x:120:forcam avahi:x:121: scanner:x:122:saned
saned:x:123: nm-openvpn:x:124: whoopsie:x:125: colord:x:126: geoclue:x:127: pulse:x:128: . pulse-access:x:129: gdm:x:130: sssd:x:131: lxd:x:132:forcam forcam:x:1000: sambashare:x:133:forcam systemd-coredump:x:999: docker:x:998:forcam forcam@ubuntu:~\$

- 4. Restart the system.
  - Run sudo reboot now
- 5. Check whether the current user has permissions to run Docker and Docker Compose.
  - Run:

docker	version

F	forcam@ubuntu: ~	Q		٥	×
Built: OS/Arch: Context: Experimental:	Thu Jan 19 17:36:25 2023 linux/amd64 default true				
Server: Docker Engi Engine:	ne - Community				
Version:	20.10.23				
API version:	1.41 (minimum version 1.12)				
Go version:	go1.18.10				
Git commit:	6051f14				
Built:	Thu Jan 19 17:34:14 2023				
OS/Arch:	linux/amd64				
Experimental:	false				
containerd:					
Version:	1.6.15				
GitCommit:	5b842e528e99d4d4c1686467debf2bd4b88ec	d86			
runc:					
Version:	1.1.4				
GitCommit:	v1.1.4-0-g5fd4c4d				
docker-init:					
Version:	0.19.0				
GitCommit:	de40ad0				
forcam@ubuntu:~\$					

#### – Run:

docker compose version





## 2.2 Installing the EDGE

- 1. Open the Force EDGE Installer folder and make the installer.sh file executable.
  - To do so, **right-click** on installer.sh and select **Properties**.

⟨ ⟩ Force EDGE	211221-H01	ForceEdge112	221-H01 <del>-</del>		Q ≣ ▼ ≡ -	• 🔇
🕚 Recent		[M+]		>_		
★ Starred	ForceEdge	HowToInsta	installer.	install	Open With Text Editor	Return
A	UI-install.	ll.md	bat		Open With Other Applicatio	n
分 Home	Jar				Cut	Ctrl+X
Desktop				_	Сору	Ctrl+C
					Move to	
Documents				_	Copy to	
Downloads					Move to the Rubbish Bin	Delete
<b>-</b>					Rename	F2
JJ MUSIC					Compress	
Pictures					Send to	
C Videor					Properties	Ctrl+I
💼 Rubbish Bin						
📶 Floppy Disk						
+ Other Locations						
					"installer.sh" selec	ted (2,4 kB)



- Go to the **Permissions** section and set the checkbox at **Allow executing file as program**.

<	> Force EDGE2	211221-H01 For	:eEdge11221-H01 🗖		Q 目	• =	-		8
3	Recent		installer.sh Prope	rties	8				
*	Starred	Basic	Permissions	Open \	With				
١	Home	Owner:	Me						
	Desktop	Access:	Read and write	•					
P	Documents	Crown							
₽	Downloads	Group.	user 👻						
Л	Music	Access:	Read-only	•					
<b>A</b> *	Pictures	Others	Read asky						
B	Videos	ALLESS.	Read-only						
Ē	Rubbish Bin	Execute:	Allow executing file	as program					
a	Floppy Disk	Security context:	unknown						
+	Other Locations								
					_				
					<i>"</i>	nstaller.sh"	selected	d (2,4	kB)



- 2. Run the EDGE installer.
  - Open the terminal by right-clicking inside of the folder and selecting Open in Terminal.

Force EDGE	.211221-H01	ForceEdge11	221-H01 <del>-</del>	Q		- 0	8
🕚 Recent		M+		>_			
★ Starred	ForceEdge	HowToInsta	installer.	installer.sh			
습 Home	jar	u.mo	Dat				
Desktop							
🗊 Documents				New Folder	Shift+Ctrl+N		
Downloads				Paste			
♫ Music			-	Select All	Ctrl+A		
Pictures				Open in Termina	]		
🖯 Videos							
💼 Rubbish Bin							
🖬 Floppy Disk							
+ Other Locations							

### - Run:

./installer.sh





- 3. Configure the EDGE installer.
  - Accept the licence agreement (1) and click **Next (2)** to continue.

	IzPack - Installation of EdgeInstaller — 🗆	8
Licensin Step	g Agreements o 1 of 10	
FORCAM FORCE	Please read the following license agreement carefully: 1. Anwendungsbereich. Dieser Endnutzerlizenzvertrag gilt zwischen dem Auftraggeber (im Folgenden "Endnutzer") und der FORCAM GmbH (im Folgenden "FORCAM"). Der Endnutzerlizenzvertrag wird der zwischen dem Endnutzer und FORCAM geschlossenen Einzelvereinbarung und den geltenden Allgemeinen Geschäftsbedingungen ("AGB") beigefügt und unterliegt grundsätzlich deren sowie den nachfolgend aufgeführten Bestimmungen. Sofern nicht ausdrücklich anders angegeben, gelten in diesem Endnutzerlizenzvertrag die Definitionen aus der Einzelvereinbarung und den FORCAM AGB. Soweit ein Widerspruch zwischen diesem Endnutzerlizenzvertrag und den AGB, den besonderen Geschäftsbedingungen für die Überlassung von FORCAM Software und der Einzelvereinbarung besteht, geht dieser Endnutzerlizenzvertrag den jeweils widersprechenden Bestimmungen	
	<ul> <li>I accept the terms of this license agreement.</li> </ul>	
-	I do not accept the terms of this license agreement.	
(Made with	1zPack - http://izpack.org/)	Quit

- Select the directory in which the FORCE EDGE Configuration is to be installed (1) and continue with Next (2).

IzPack - Installation of EdgeInstaller			8
Target Path Step 2 of 10			
Select the installation path: /home/forcam/EdgeInstaller	B	rows	e
(Made with IzPack - http://izpack.org/)	▶ <u>N</u> ext	<mark>8</mark> Q	uit



Enter the **User ID (1)**, select the desired installation option **(2)** (in this example, all applications and SSL Certificates are installed) and click **Next (3)**.

(i) For a complete application, at least one EDGE Configuration must be installed. EDGE Configuration and EDGE Node do not have to be installed on the same system.



- If necessary, set the IP addresses of the Docker containers and continue with **Next**.

	IzPack - Installation of EdgeInstaller – 🗆 😣
User Data Step 4 of 10	
E	Edge Docker Network Setting
FORCAM FORCE	Docker network (10.10.1.1) 10 . 1
(Made with IzPack - htt	tp://izpack.org/)



- Enter a secure **API Key (1)**, confirm the ports and continue with **Next (2)**.
  - (i) The API Key is needed to connect the EDGE Node with the EDGE Configuration. Therefore, it should be stored safely for future use.

Edge Se	ettings
APIKey	secret
ForceEdgeQueue (Active MQ) management port	8161
ForceEdgeQueue (Active MQ) connection port	61616
ForceEdgeQueue (Active MQ) MQTT port	1883
Configuration License Id	
Machine Repo License Id	
	Edge Solution API Key 1 ForceEdgeQueue (Active MQ) management port ForceEdgeQueue (Active MQ) connection port ForceEdgeQueue (Active MQ) MQTT port Configuration License Id Machine Repo License Id

- Enter path for the certificates.

	IzPa	ack - Installation of EdgeInstaller	- 🗆 😣
User Data Step 6	of 10		
E	Edge SSL Cert	ifications Upload	
	Edge Configuration	/home/forcam/Downloads/EdgePmTest1/config.crt	Browse
۳ñ	Edge Node	/home/forcam/Downloads/EdgePmTest1/node.crt	Browse
	Machine Repository	ne/forcam/Downloads/EdgePmTest1/machine-repo.crt	Br <u>o</u> wse
Forcan			
(Made with Izi	Pack - http://izpack.org/)	Servious A	ext 🛛 Quit



- Click **Next** to continue with the installation.



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Click **Next** after the installation step is complete.



- Click **Next** after the installation step is complete.



Click on **Done** to complete the installation.

Iz	Pack - Installation of EdgeInstaller			$\otimes$
Installation Finished Step 10 of 10				
(Made with IzPack - http://izpack.org/)	Installation has completed successfully.          Cenerate an automatic installation script			
		C	Do	ne

## **3** Accessing the EDGE Configuration

- 1. To access the EDGE Configuration, enter https://{hostName}:60066 in the browser.
  - (i) The **{hostName}** is the IP address or domain name of the server on which the EDGE Configuration is installed (e.g., https://**10.48.116.64**:60066).
- After the initial installation, log in with the default user: Email: test@mail.com Password: Force2020&k
  - () For security reasons, the default user data should be changed, and the new account information should be kept secure.

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← → C ▲ Nicht sicher   10.48.116.64:50056/login	💁 🔍 😥 🖈 🔲 🛓 (Altusiseren )
	εσαε connέξτ
	-
	Login
	Eral*
	Passed*
	Login