FORCE EDGE CONNECT

Installation on Ubuntu without GUI

Version 240112

Document: FORCE EDGE CONNECT - Installation on Ubuntu without GUI

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Content

1   Requirements

ⓘ 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 (without GUI)

2.1 Download and unzip the FORCE EDGE installer

1. Open the Ubuntu VM, go to the desired directory and download the installer.

   – Run:
   ```
   wget <URL of Installationfile> -O edge_installer.zip
   ```

   Example:
   ```
   wget https://thisIsAExampleLink.com/ -O edge_installer.zip
   ```

   ```
   forcam@ffedgevm:~$ wget https://forcam-my.sharepoint.com/:u:/p/
   /EcvoAI7an5JHrtKPytqjfHEB-jlflRvL32ihNi7V3jpD2A?download=1 -O edge_installer.zip
   --2022-05-23 11:25:06--  https://forcam-my.sharepoint.com/:u:/p/
   /EcvoAI7an5JHrtKPytqjfHEB-jlflRvL32ihNi7V3jpD2A?download=1
   Resolving forcam-my.sharepoint.com (forcam-my.sharepoint.com)... 13.107.138.9, 1
   3.107.136.9
   Connecting to forcam-my.sharepoint.com (forcam-my.sharepoint.com)|13.107.138.9|:
   443... connected.
   HTTP request sent, awaiting response... 302 Found
   Location: /personal/            _forcam_com/Documents/EDGE/Installer/ForceE
   dgeInstaller-220516.zip?ga=1 [following]
   --2022-05-23 11:25:06--  https://forcam-my.sharepoint.com/personal/
        _forcam_com/Documents/EDGE/Installer/ForceEdgeInstaller-220516.zip?ga=1
   Reusing existing connection to forcam-my.sharepoint.com:443.
   HTTP request sent, awaiting response... 200 OK
   Length: 3723488140 (3,5G) [application/x-zip-compressed]
   Saving to: 'edge_installer.zip'

   edge_installer.zip  100%[===================>]   3,47G  93,4MB/s    in 38s

   2022-05-23 11:25:45 (94,1 MB/s) - 'edge_installer.zip' saved [3723488140/3723488
   140]

   forcam@ffedgevm:~$
   ```

   ⓘ For SharePoint links, remove everything behind the last "?" and ad "download=1"

2. Unzip the EDGE installer.

   – Run:
   ```
   unzip <name of the installer>
   ```

   Example:
   ```
   unzip edge_installer.zip
   ```

   ```
   forcam@ffedgevm:~$ unzip edge_installer.zip
   Archive:  edge_installer.zip
     inflating: ForceEdgeInstaller-220516/installer.sh
     inflating: ForceEdgeInstaller-220516/installer.bat
     inflating: ForceEdgeInstaller-220516/HowToInstall.md
     inflating: ForceEdgeInstaller-220516/ForceEdge-install.jar
   forcam@ffedgevm:~$
   ```

2.2 User setup

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

   Example:
   ```
   forcam@forcam:~$ id
   uid=1000(forcam) gid=1000(forcam) groups=1000(forcam),4(adm),24(cdrom),27(sudo),30(dip),46(plugdev),116(lxd)
   forcam@forcam:~$
   ```

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
   ```

   Example:
   ```
   forcam@forcam:~$ sudo usermod -aG docker $USER
   forcam@forcam:~$
   ```

3. Verify that user is part of the Docker group.
   - Run:
   ```
   sudo cat /etc/group
   ```

   Example:
   ```
   messagebus:x:106:
   input:x:107:
   kvm:x:108:
   render:x:109:
   syslog:x:110:
   tss:x:111:
   uuidd:x:112:
   tcpdump:x:113:
   ssh:x:114:
   landscape:x:115:
   lxd:x:116:forcam
   systemd-coredump:x:999:
   forcam:x:1000:
   docker:x:998:forcam
   forcam@forcam:~$
   ```

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
   ```

   Example:
   ```
   forcam@forcam:~$ docker version
   Client: Docker Engine - Community
    Version:           20.10.23
    API version:       1.41
    Go version:        go1.18.10
    Git commit:        7155243
    Built:             Thu Jan 19 17:36:25 2023
    OS/Arch:           linux/amd64
    Context:           default
    Experimental:      true

   Server: Docker Engine - Community
    Engine:
     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:        5b842e528e99d4d4c1686467debf2bd4b88ecd86
    runc:
     Version:          1.1.4
     GitCommit:        v1.1.4-0-g5fd4c4d
    docker-init:
     Version:          0.19.0
     GitCommit:        de40ad0
   forcam@forcam:~$
   ```

   – Run:
   ```
   docker compose version
   ```

   Example:
   ```
   forcam@forcam:~$ docker compose version
   Docker Compose version v2.15.1
   forcam@forcam:~$
   ```

2.3   Installing the EDGE

1. Open the EDGE installer folder and make the installer.sh file executable.
   – Run:
   ```
   sudo chmod +x installer.sh
   ```

2. Start the installer.
   Run:
   ```
   ./installer.sh
   ```

3. Accept license agreement by entering 1.
   – Run:
   ```
   1
   ```

4. Select the directory in which EDGE CONNECT is to be installed and confirm with ENTER.
   – Example:

5. Confirm with O and continue with 1.
   – Run:

   O

   – Run:

   1

   – Example:

```
Target Path

Select the installation path:  [/home/forcam/EdgeInstaller]

---------------------------------------------------------------
Message

The target directory will be created:
/home/forcam/EdgeInstaller
---------------------------------------------------------------
Enter O for OK, C to Cancel:
o

Press 1 to continue, 2 to quit, 3 to redisplay
1
```

6. Enter User ID and confirm with ENTER.
    –   Example:

```
User Data

Install/Update Configuration

User ID [1000]
```

7. Choose which parts of the EDGE you want to install by pressing 1 or 0 and confirm with enter, then continue with 1.
ⓘ 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.

    –   Enter the required number and confirm with ENTER for each application.
        To install the application run:
        1
        To NOT install the application run:
        0
        Confirm each application with enter

    –   To Continue after the selection run:
        1

    –   Example :

```
   [x] Install/Update Edge Configuration
Enter 1 to select, 0 to deselect:

   [x] Install/Update Edge Node
Enter 1 to select, 0 to deselect:

   [x] Install/Update Machine Repository
Enter 1 to select, 0 to deselect:

   [ ] Install/Update SSL Certificates
Enter 1 to select, 0 to deselect:
1
```

8. Enter path for the certificates.

9. Confirm Docker network settings with ENTER, then continue with 1.

    – Press ENTER

    – Run:
      1

    – Example:

10. Select API Key and confirm with ENTER.

ⓘ The secret key should be safely stored for future use. It is needed to connect the EDGE Node to the EDGE Configuration.

    – Press ENTER.

    – Example:

11. Confirm Ports with enter and continue with 1.

    – Press ENTER.

    – Run:
      1

- Example:

```
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 []

Press 1 to continue, 2 to quit, 3 to redisplay
1
```

12. Installation is starting.

```
Installation

====================
Installation started
Framework: 11.0.5 (Ubuntu)
Platform: ubuntu_linux,version=5.4.0-137-generic,arch=x64,symbolicName=null,javaVersion=11.0.17
[ Starting to unpack ]
[ Processing package:  (1/8) ]
```

13. After the installation is finished, the EDGE Configuration can be used.

3 Accessing the EDGE Configuration

1. To access the EDGE Configuration, enter https://{**hostName**}:60066 in the browser.

   ⓘ 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).

2. 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.