

IQRF® Software pro brány

Linuxová zařízení



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- IQRF Gateway **daemon** v2.3.9
- IQRF Gateway **webapp** v2.4.2
- IQRF Gateway **controller** v1.3.2
- IQRF Gateway **uploader** v1.0.2
- IQRF Gateway **setter** v1.0.0

- IQRF Gateway **OS** (Yocto Linux) v1.4.2

Distribuce: Debian / Ubuntu

<https://repos.iqrf.org>

Please select your distribution

Debian

Raspberry Pi OS

Ubuntu

Please select your version

10 Buster

11 Bullseye

Please select your distribution

Debian

Raspberry Pi OS

Ubuntu

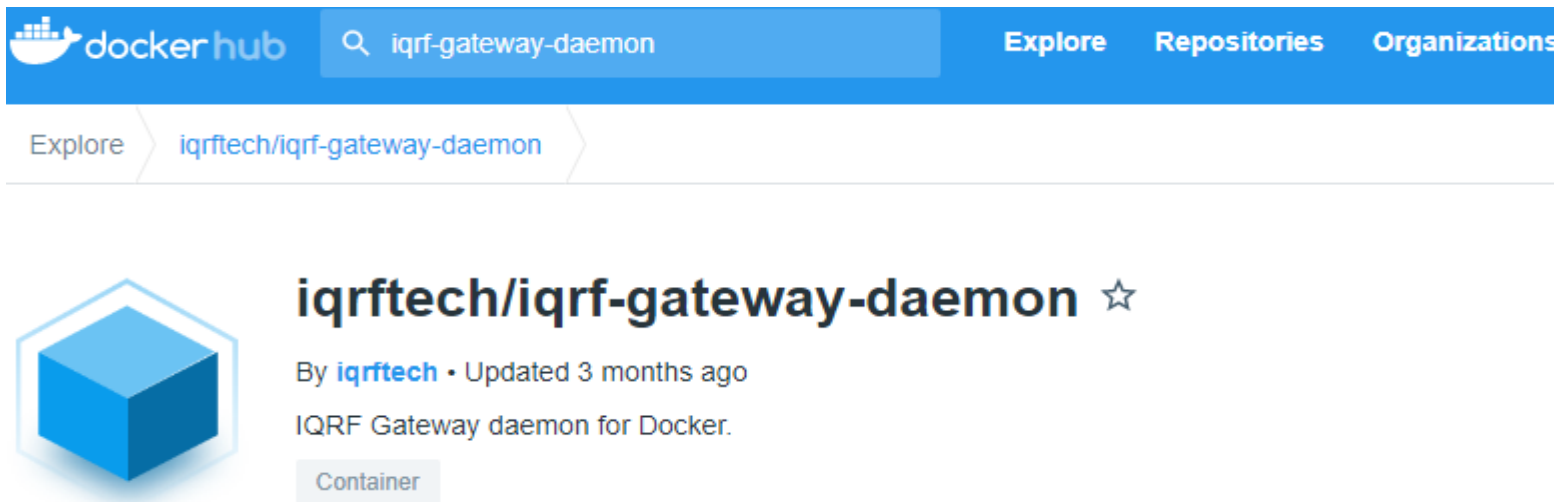
Please select your version

18.04 Bionic Beaver

20.04 Focal Fossa

Docker: IQRF Tech repository

<https://hub.docker.com>



The screenshot shows the Docker Hub interface. At the top is a blue navigation bar with the Docker Hub logo, a search bar containing 'iqrf-gateway-daemon', and links for 'Explore', 'Repositories', and 'Organizations'. Below the navigation bar, a breadcrumb trail shows 'Explore' followed by 'iqrfttech/iqrf-gateway-daemon'. The main content area displays the repository 'iqrfttech/iqrf-gateway-daemon' with a star icon. To the left of the repository name is a blue 3D cube icon. Below the repository name, it says 'By iqrfttech • Updated 3 months ago' and 'IQRF Gateway daemon for Docker.' A grey button labeled 'Container' is positioned below the description.

- builders, daemon, webapp-frontend, webapp-backend

Docker: více koordinátorů na jednom zařízení

<https://gitlab.iqrf.org/open-source/iqrf-gateway-docker>

Example script for 2 coordinator connected via USB CDC

```
for i in {0..1}; do
    git clone https://gitlab.iqrf.org/open-source/iqrf-gateway-docker.git "iqrf-gateway-${i}"
    cd "iqrf-gateway-${i}"
    sed -i "s/\\"80:80\\"/\\"${((8080 + ${i}))}:80\\"/g" docker-compose.yml
    sed -i "s/\\"443:443\\"/\\"${((8443 + ${i}))}:443\\"/g" docker-compose.yml
    sed -i "s/\\"1338:1338\\"/\\"${((1338 + ${i}))}:1338\\"/g" docker-compose.yml
    sed -i "s/\\"1438:1438\\"/\\"${((1438 + ${i}))}:1438\\"/g" docker-compose.yml
    sed -i "s/\\"55000:55000\\udp\\"/\\"${((55000 + ${i}))}:55000\\udp\\"/g" docker-compose.yml
    sed -i "s/\\"55300:55300\\udp\\"/\\"${((55300 + ${i}))}:55300\\udp\\"/g" docker-compose.yml
    sed -i "s/\\"1883:1883\\"/\\"${((1883 + ${i}))}:1883\\"/g" docker-compose.yml
    sed -i "s/\\"\\dev\\spidev0\\0:\\dev\\spidev0\\0\\"/\\"\\dev\\ttyACM${((0 + ${i}))}\\dev\\ttyACM${((0 + ${i}))}\\\\"/g" docker-compose.yml
    perl -i -p0e "s/\\"libraryName\\": \\"IqrfCdc\\",\\n {12}\\\"enabled\\": false/\\"libraryName\\": \\"IqrfCdc\\",\\n {12}\\\"enabled\\": true/" docker-compose.yml
    perl -i -p0e "s/\\"libraryName\\": \\"IqrfSpi\\",\\n {12}\\\"enabled\\": true/\\"libraryName\\": \\"IqrfSpi\\",\\n {12}\\\"enabled\\": false/" docker-compose.yml
    sed -i "s/\\"\\dev\\ttyACM0\\dev\\ttyACM${((0 + ${i}))}\\dev\\ttyACM${((0 + ${i}))}\\\\"/g" daemon/config/iqrf__IqrfCdc.json
    docker-compose up -d
    cd ..
done
```

■ IQRF Gateway daemon v2.3.9

▫ IQMESH komponenty

- Auto Network
- TR konfigurace
- Backup & Restore
- OTA

▫ Syslog komponenta

■ IQRF Gateway webapp v2.4.2

□ Backend

- REST API <http://apidocs.iqrf.org/iqrf-gateway-webapp-api/#/>

□ Frontend

- IQMESH Network manager
- IQRF Standard manager
- IP manager
 - Ethernet, Wi-Fi, GSM, VPN
- Maintenance
 - Backup & Restore
 - Pixla/Mender/Monit

IQUBE: Linuxový systém

<https://docs.iqrf.org/iqube>

- **Armbian** (Debian)
 - SD karta **RW**; Logy v paměti, rotace na SD
 - **GPIO watchdog** (HW revize s podporou W)
 - Aktualizace SW: **DEB balíčky**
- **Yocto** (Custom)
 - SD karta **RO** + overlay; Logy v paměti, rotace na SD
 - **GPIO watchdog** (HW revize s podporou W)
 - Aktualizace SW: **MENDER artefakty**
 - Rozdílové aktualizace pro LTE brány
 - Development verze: DEB balíčky



IQUBE: systémové nástroje

- Management:



- VPN:



- OTA:



- Monitoring:



MICRORISC
ENABLING FUTURE INNOVATION

Thank you



logimic



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