

## 2.3. System Requirements



**\*\*Note:\*\*** The following pages contain the system requirements for the WebPQ software. Please note that these requirements may not always reflect the current state of the software version. With software updates, it may happen that the present description is no longer accurate in some points. In this case, please contact us directly or use the current version of the system requirements, which you can find on our website [[www.a-eberle.de](http://www.a-eberle.de)](<http://www.a-eberle.de>).

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### 2.3.1. Supported Operating Systems & Browsers

- Windows 10 64-bit
- Windows 11
- Windows Server 2016
- Windows Server 2019
- Windows Server 2022
- WebPQ: Chrome, Firefox, Microsoft Edge, Safari

### 2.3.2. Supported Database Systems

- PostgreSQL 14.\*
- MySQL V5.X (version is part of the license key, see price list) – no updates from A. Eberle GmbH anymore
- MariaDB V5.X (version is part of the license key, see price list) – no updates from A. Eberle GmbH anymore
- MS-SQL (Version 2022)\*\*

\*PostgreSQL is supported from WinPQ > 6.2. \*\*Individual order process and license key are necessary! Consultation required.

#### 2.3.2.1.1. Special Database Settings

- MySQL For WebPQ, the following additional settings in the `my.ini` are necessary:

```
[mysqld]
datadir="C:\Program Files (x86)\WinPQ\MySQL\Data" port=3306 max_allowed_packet=32M max_user_connections=200
max_heap_table_size=128000000 tmp_table_size=128000000
```

### 2.3.3. Minimum System Requirements

- **CPU:** 4 cores
- **RAM:** 8 GB memory
- **Storage:** two partitions - 20 GB for WebPQ installation and an additional 1 GB per year per connected measuring device (using standard profiles)
- **Network:** Ethernet adapter for communication with TCP/IP PQ devices
- **Display:** Remote desktop connection or monitor with at least 1280 x 1024 pixel resolution
- **Browser:** Chrome, Firefox, Microsoft Edge, Safari
- **SMTP Mail Server:** acces to a mailserver from the application for alerting, notifications, and user management

### 2.3.4. Recommended System Configuration

- **Hardware:** Server designed for 24/7 operation / Virtual server system (more cost-effective!)
- **CPU:** CPU with 6 or more cores
- **RAM:** 8 GB or more memory
- **Storage:** two partitions - 20 GB for WebPQ installation and an additional 1 GB per year per connected measuring device (using standard profiles) with redundancy and automatic backup
- **Disk:** Solid-state disk for the database on a second partition
- **Network:** Ethernet adapter with high data throughput for communication with TCP/IP devices
- **Display:** Remote desktop connection or monitor with high resolution (e.g., 1920 x 1200 pixels)
- **Browser:** Chrome, Firefox, Microsoft Edge, Safari
- **SMTP Mail Server:** acces to a mailserver from the application for alerting, notifications, and user management

### 2.3.5. Recommended Tools

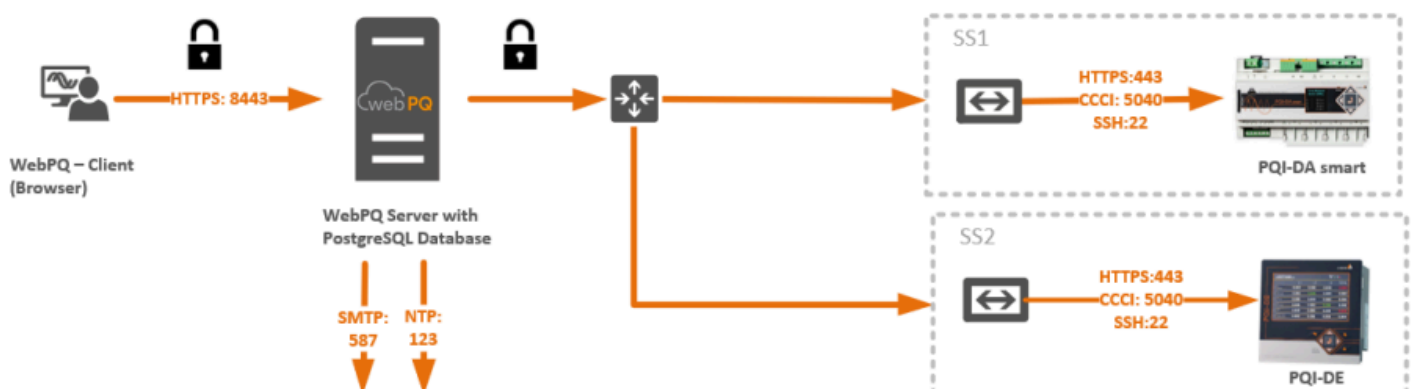
- PDF reader
- Installed browser: Chrome, Firefox, Microsoft Edge, Safari
- Database tools such as [DBeaver](#) (universal for all supported databases) or PG Admin for PostgreSQL

### 2.3.6. Recommended Certificates

- for the WebPQ WebServer: SSL certificate for secure communication in PEM format - see [Informationen about SSL-Certificates](#)

### 2.3.7. Typical System Configuration / System Diagram / Terminology

#### System Overview – Example #1



- **WebPQ Server**

Virtual machine or PC where WebPQ runs as a service along with the database (PostgreSQL).

- **WebPQ Client**

Host where the actual analysis of measurement data and management of measuring devices takes place via a browser. This host is often found in the office network.

- **SMTP Server**

Mail server necessary for alerting and functions such as password reset, system messages, and automated alerting.

- **NTP Server**

NTP server for synchronizing devices and the WebPQ server.



It is also possible to install the database on another server!

**Note**

### Typical Data Volumes in Communication

Connecting a measuring device to the WebPQ database generates approximately 20 MB per week in the standard configuration. Since the reading process is continuous, data transmission requires a minimum speed of only 200 kbit/s.