iqxWEB Next - Server Environment Requirements

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This document outlines the minimum and recommended server specifications required for a successful deployment of the iqxWEB application stack. Adhering to the recommended specifications is crucial for ensuring optimal performance, stability, and scalability in a production environment.

System Specifications

The following tables detail the resource requirements. The **Minimum** configuration is suitable for testing or light production use with a limited number of concurrent users. The **Recommended** configuration is designed to provide a robust and responsive experience for a moderate user load.

Table 1: Linux Server Requirements

Specification	Minimum Configuration	Recommended Configuration
CPU	2 vCPUs	4 vCPUs
RAM	4 GB	8 GB
Storage	40 GB	40 GB

Table 2: Windows Server Requirements

Specification	Minimum Configuration	Recommended Configuration
CPU	2 vCPUs	4 vCPUs
RAM	8 GB	16 GB
Storage	60 GB	60 GB

Operating System Requirements

Linux Distributions

A modern, 64-bit server distribution is required. We recommend any of the following Long-Term Support (LTS) versions:

- Ubuntu Server
- Debian
- Red Hat Enterprise Linux (RHEL) family (e.g., RHEL, Rocky Linux, AlmaLinux)
- SUSE Linux Enterprise Server

Windows Server

- Windows Server 2025 or later is required.
- **Hardware-assisted virtualization** (e.g., Intel VT-x or AMD-V) must be enabled in the BIOS/UEFI.
- The **Windows Subsystem for Linux (WSL) 2** feature must be installed and enabled, as the application runs within Linux containers.

Prerequisites & Network Configuration

Please ensure the following requirements are met prior to the scheduled installation date.

- **Public Accessibility:** The server must be accessible from the internet on a static public IP address. Alternatively, a professionally configured reverse proxy can be used to forward traffic to the server.
- **Firewall Rules:**
  - Inbound traffic must be permitted on TCP ports `80` (HTTP) and `443` (HTTPS).
  - Outbound traffic must be permitted from the web server to the IQXHub (Bridge Server) host over its designated port (typically TCP `54000`).
- **SSL/TLS Certificate:** A valid SSL/TLS certificate and its corresponding private key for the application's domain name must be provided to the installation team before deployment can begin.
- **SSH Access (Linux):** For security purposes, we strongly recommend that server access be configured using SSH key-pair authentication and that password-based authentication is disabled.

Client Responsibilities

The client is responsible for the ongoing maintenance and security of the server environment. This includes, but is not limited to:

- Performing regular operating system updates and security patching.
- Implementing and managing a robust data backup and disaster recovery strategy.
- Monitoring server performance, resource utilisation, and log files.

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