Server requirements for using CM-Connect - PACS Connection

CM-Connect allows users to exchange data, mainly DICOM studies, automatically from the PACS to Collective Minds Platform, through the use of channels. The technical requirements for one channel can vary from one operating system to another.

General Requirements - Those that apply to every system are as follows:
- Minimal Virtual server with minimally 4 vCPU, 16 GB RAM, 500 GB disk (for consortium like projects, we recommend at least 1 TB of disk).
- Internet access on port 80 and 443
- Incoming traffic from PACS open on ports 4242-4251

Linux Requirements (Recommended OS) - Those that apply to Linux distributions are as follows:
- LSB compliant 64-bit Linux distribution (For instance: Ubuntu Server 22.04 or greater)

The CM-Connect is native to Linux and functions through use of Docker containers that can be managed by an Orchestrator or platform for containers if it is already in use (e.g. Suse Rancher, Openshift, ..).If not CM-Connect ships such orchestrators.

Windows Requirements - Those that apply to Windows OS are as follows:
- Windows 10 or greater
- If the server is a VM, then nested virtualization is necessary
- WSL2 or Hyper-V enabled
- Docker installed with Docker engine v20.10 or greater. As a guide, see the requirements for Docker Desktop to run linux containers on Windows using WSL: https://docs.docker.com/desktop/install/windows-install/

Please note that Docker has ended support for Windows Server versions of Windows OS (i.e . Windows Server 2019, 2022, etc.) and that nftables are not currently supported by Docker.

Mac Requirements - Those that apply to Mac Os are as follows:
- MacOS 13 (Ventura) or greater
- Docker installed with Docker engine v20.10 or greater. As a guide, see the requirements for Docker Desktop to run on Mac: https://docs.docker.com/desktop/setup/install/mac-install/#system-requirements

It is recommended to install antivirus and monitoring agents on the server as long as these do not block the above mentioned requirements and allow for the complete installation procedure

Date: 2025-02-05
Version 2.0