SYSTEM REQUIREMENTS

carmenta

System Requirements for Carmenta Server 4.8

DEVELOPMENT ENVIRONMENT

Operating Systems:

- Windows 10 (64-bit)
- Windows 11

Software requirements:

- IIS 8.5 or later
- .NET Framework 4.7.2 or later
- .NET Core 3.1 or later
- Java Runtime 7 or later

Language requirements:

- .NET Standard API: .NET Standard 2.0 or later
- Java API: Java 8 or later
- C++ API: Visual Studio 2013 or later / GCC 4.8.1 or later

Hardware recommendations:

- CPU: Minimum dual-core CPU (quad-core CPU preferred)
- RAM: Minimum 4 GB RAM
- Disk space: At least 10 GB free disk space

DEPLOYMENT ENVIRONMENT

Operating Systems:

- Windows Server 2012 and 2012 R2
- Windows Server 2016
- Windows Server 2019

Software requirements:

- IIS 8.5 or later
- .NET Framework 4.7.2 or later
- .NET Core 3.1

Hardware requirements:

- CPU: At least one quad-core Xeon-class CPU, or other server-grade CPU. More CPUs and/or more CPU cores per CPU will result in more map server instances running in parallel.
- RAM: At least 4 GB or more. More RAM will allow more caching of geodata in map server instances, and a larger map tile memory cache.
- Disk space: Depends on the size of the geodata and the size of a map tile disk cache. Typically at least 100 GB free disk space is needed. Fast disks such as hardware RAID or similar will increase the server performance significantly.

Note: Due to its architecture with internal scaling by running multiple map server instances if possible, Carmenta Server will make use of available hardware in an efficient and optimal way, to ensure maximum performance.

On multi-core CPUs and/or multi-CPU systems, the CPU cores are typically used as follows:

- One CPU core is used for the IIS working process, Tile Store and other Windows processes
- The remaining CPU cores will allow multiple map server instances to run (typically the number of map server instances will equal the number of CPU cores minus one)

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