SYSTEM REQUIREMENTS

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System Requirements for Carmenta Server Core 2020.0

DEVELOPMENT ENVIRONMENT

Operating Systems:
- Windows 10 (64-bit)
- CentOS 7.5
- Red Hat Enterprise Linux 7 and 8
- SUSE Linux Enterprise 11 or later
- Ubuntu 20.04 LTS

Software requirements:
- .NET Core 3.1
- Docker Desktop Community or Enterprise

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

DEPLOYMENT ENVIRONMENT

Operating Systems:
- Windows Server 2019
- CentOS 7.5
- Ubuntu 20.04 LTS

Cloud environments:
- Amazon Elastic Container Service (ECS)
- Azure Container Instances (ACI)
- Azure Kubernetes Service (AKS)
- Azure Web App for Containers

HARDWARE RECOMMENDATIONS

Generally speaking, the hardware requirements for Carmenta Server Core are flexible and largely determined by the number of map services being published and their characteristics (type of geodata, rendering and caching requirements etc.).

Due to its architecture with internal scaling up of multiple map server instances if possible, Carmenta Server Core will make use of all hardware that is allocated to it, to ensure maximum performance.

The minimum recommended hardware configuration for a Carmenta Server Core container is:

- Number of CPUs: 2
  Note: 3 CPUs or more will allow multiple map server instances in the container (normally the number of map server instances will equal the number of CPUs minus one)

- RAM: 2 GB
  Note: More RAM will allow more caching of geodata, and a larger map tile memory cache (if applicable). Some map services may require a certain amount of RAM to be loaded and published.

- Disk space: Depends on the size of the geodata and the size of a map tile disk cache (if applicable). Note: The disk space may be allocated internally in the container, or on a mounted external volume.

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