carmenta

# System Requirements for Carmenta Server Core 2019.0

## CARMENTA SERVER CORE FOR WINDOWS

**Development Environment**

Operating Systems:
- Windows 10, version 1809

Software requirements:
- Java Runtime 7 or later
- Docker Desktop Community or Enterprise

Language requirements:
- .NET Core API:    .NET Core 2.0 or later
- Java API:            Java 7 or later
- C++ API:            MSVC 10 (2010) or later

**Deployment Environment**

Operating Systems:
- Windows Server, version 1803 and 1809
- Windows Server 2019

Cloud environments:
- Amazon Elastic Container Service (ECS)
- Azure Container Instances (ACI)

## CARMENTA SERVER CORE FOR LINUX

**Development Environment**

Operating Systems:
- CentOS 7.5
- Red Hat Enterprise Linux 6 or later
- SUSE Linux Enterprise 11 or later
- Ubuntu 18.04 LTS or later

Software requirements:
- Java Runtime 7 or later
- Docker Desktop Community or Enterprise

Language requirements:
- .NET Core API:    .NET Core 2.0 or later
- Java API:            Java 7 or later
- C++ API:            GCC 4.3.4 or later

**Deployment Environment**

Operating Systems:
- CentOS 7.5
- Ubuntu 18.04 LTS or later

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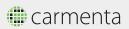- Number of CPUs: 2
  Note: 3 CPUs or more will allow multiple map server instances in the container (normally the number of map server instances will equal the number of CPUs minus one)

- 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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