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# Web Services and Applications Deployment Guide

Initialize Microsoft SQL Server

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# Initialize Microsoft SQL Server

This article describes the initialization steps for Microsoft SQL Server (MS SQL) and the hardware requirements for different deployment setups.

## Important

Microsoft SQL Server is only required if Web Services and Applications stores persistent data such as:

- Custom Contacts
- Custom Settings

The initialization step for MS SQL Server involves creating a database name. Use the following script to create the database name:

```
CREATE DATABASE [gws_gws]
```

This script creates database name for any deployment environment such as development setup, single-node or two-node data centers.

## Important

For MS SQL Server, database schema creation is not a mandatory step.

Review the following tables to understand the hardware requirements of MS SQL server for different environments.

## Development environment

Requirements	Description
MS SQL version	2019 Developer edition
AOAG Required	Optional
Nodes	Minimum 1 Nodes
Memory	At least 4 GB per Node and should be increased as database size increases to ensure optimal performance.
Processor	2 cores

Requirements	Description
Hard Disk / Storage Disk	10 GB
Networking	Localhost or internal network access.
Persistence	Database backup mechanism for data persistence.

## Single data center

Requirements	Description
MS SQL version	2019 Enterprise edition (with latest CU / Service Pack)
FailOver Cluster	Windows Server Failover Clustering (WSFC)
AOAG Required	Enabled
Nodes	Minimum 2 Nodes
Memory	At least 8 GB per Node and should be increased as database size increases to ensure optimal performance.
Processor	minimum 2 cores per node
Hard Disk / Storage Disk	4 drives (Data, Log, Backup, TempDB), 100GB per drive
Networking	Optimized network configuration for intra-data center communication.
Persistence	Always On Availability Groups or similar technology for synchronous or asynchronous replication between data centers.

## Two data centers

Requirements	Description
MS SQL version	2019 Enterprise edition (with latest CU / Service Pack)
FailOver Cluster	Windows Server Failover Clustering (WSFC)
AOAG Required	Enabled
Nodes	Minimum 4 Nodes
Memory	At least 16 GB per Node and should be increased as database size increases to ensure optimal performance.
Processor	Minimum 2 cores per node
Hard Disk / Storage Disk	4 drives(Data, Log, Backup, TempDB), 150 GB per drive
Networking	High-speed, low-latency connections between data

Requirements	Description
	centers
Persistence	Always On Availability Groups or similar technology for synchronous or asynchronous replication between data centers.