



WHITE PAPER

E-commerce Hardware Requirements

TRIMIT version: **25.2**

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Table of Contents

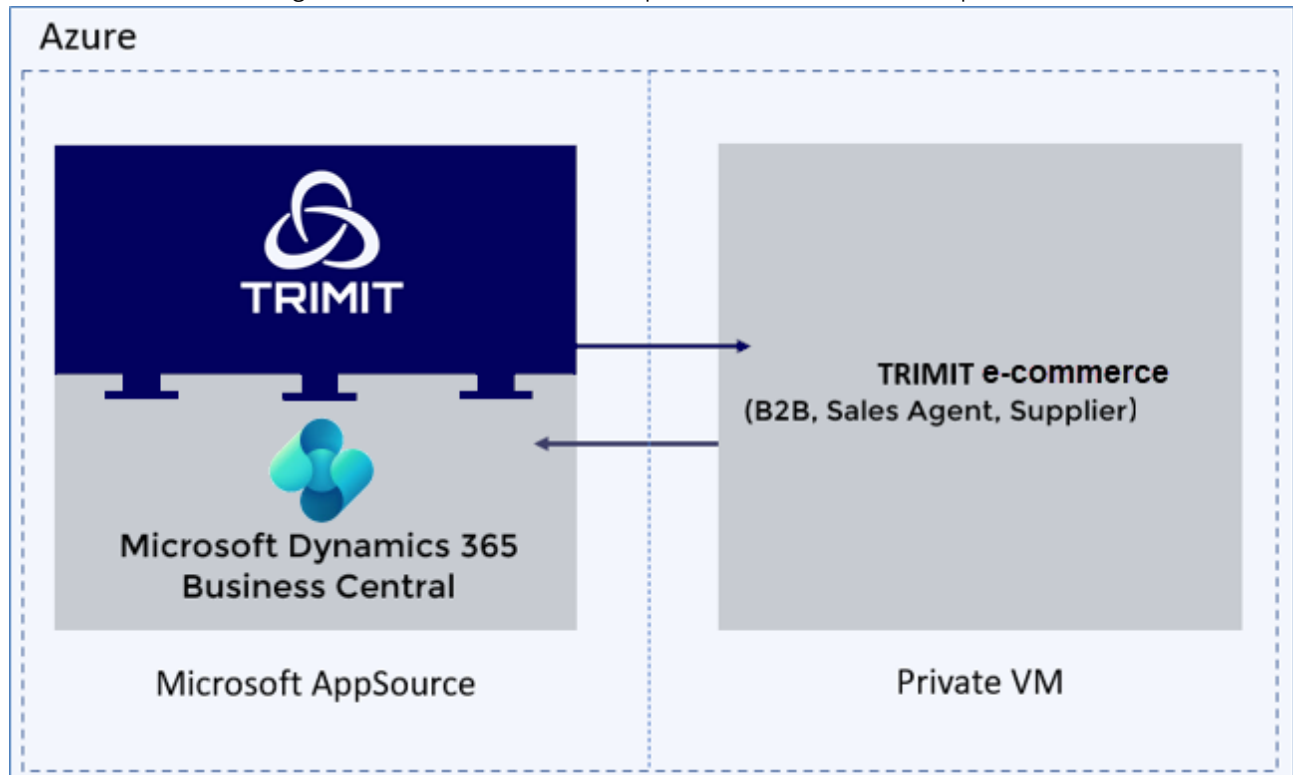
- E-commerce Hardware Requirements1
- General recommendations 3
- Requirements for TRIMIT e-commerce in connection to cloud Business Central..... 4
 - Web Server4
 - SQL Server.....4
- Requirements for TRIMIT e-commerce 4
 - Web Server5
 - SQL Server5
 - Service Tier Server5
- Requirements for TRIMIT Business Central 6
 - SQL Server6
 - Service Tier Server6
 - Service Tier Server (BC server, development).....6

General recommendations

- ➔ In hosted environments, make sure that the specifications are dedicated and not shared. (Sharing will dramatically reduce performance)
- ➔ For all recommendations it is assumed to use the latest generation of hardware.
- ➔ It is commonly recommended that CPUs are between 1-2 years and not older than 3.
- ➔ In some cases, placing e-commerce database and e-commerce website on the same server is a good idea as this can lead to a better communication speed. Data should not pass through any kind of firewall or DMZ zone. But this is not a requirement.
- ➔ It is recommended to have as high CPU frequency as possible
- ➔ It is better to have low core but high frequency CPUs.
- ➔ Also, be aware of Marketing efforts. i.e. an ad on Facebook, can create thousands of hits within short time. It is recommended to scale up for those events.
- ➔ Sending emails requires access to SMTP-server that supports basic authentication.
- ➔ During restart of SQL server, make sure that Web server and Service Tier servers are also restarted, but only after the SQL server is up and running again and is ready for connection.

Requirements for TRIMIT e-commerce in connection to cloud Business Central

The following are the minimum requirements for an installation, where the Business Central part is in the Microsoft Cloud. Scaling of webserver resources depends on the load on the portal solutions.



Web Server

- Virtual Machine (4 core 32Gb RAM).
- Same region as the BC Cloud.

SQL Server

- Virtual Machine (4 core 32Gb RAM).
- Same region as the BC Cloud.

It is highly recommended that both Web and SQL servers are on the same cluster. We also recommend adding a separate Premium SSD disk for data. The disk must be sized according to load. Please note that these are minimum requirements. The load on the e-commerce may require additional resource depending on actual load.

Requirements for TRIMIT e-commerce

The requirements are made from the experience of numerous installations and should be considered as a minimum requirement for any installation. Scaling of webserver resources depends on the load on the portal solutions.

Web Server

Minimum requirement:

- ➔ CPU – 4 cores
- ➔ RAM – min. 24 GB
- ➔ Storage – 60 GB for OS and separate disc system for data
- ➔ OS – Windows Server 2022 Standard Edition or newer

We recommend that the web server is placed in DMZ zone.

Port 80 and 443 should be opened from the outside towards the webserver.

Port 8047 and 8147 should be opened from the server towards all service tier servers.

SQL Server

If the webserver is placed in the DMZ then it is recommended that the SQL server for TRIMIT e-commerce is also placed in the DMZ. If the webserver is not placed in the DMZ then BC SQL server can be used instead.

Minimum requirement:

- ➔ CPU – min. 4 cores
- ➔ RAM – min. 12 GB
- ➔ Storage – SSD is highly recommended, alternatively many fast discs (SAS 15k)
- ➔ OS – Windows Server 2022 Standard Edition or newer
- ➔ SQL Server – SQL Server 2025

Recommendation for disk configuration (if not SSD):

- ➔ RAID1 for OS
- ➔ RAID1 or 10 for TempDB database
- ➔ RAID1 for production database logfiles
- ➔ RAID10 for production database datafiles

Service Tier Server

The Service Tier server handles the application layer for the webserver which should access TRIMIT.

Minimum requirement:

- ➔ CPU – 4 cores
- ➔ RAM – 28 GB (No Dynamic Allocated Memory)
- ➔ Storage – min. 60 GB
- ➔ OS – Windows Server 2022 Standard Edition or newer

This server should not reside in DMZ.

If there is an antivirus installed on the server, then it is required to confirm that it does not shut the .NET compiler down when the webserver sends request towards NAV web services.

Furthermore, the following folder should be excluded in the antivirus software:

C:\ProgramData\Microsoft\Microsoft Dynamics NAV

Requirements for TRIMIT Business Central

SQL Server

Scaling of the SQL server resources depends on complexity of the solution and the number of users.

Minimum requirement:

- ➔ CPU – min 4-6 cores
- ➔ RAM – min 24 GB
- ➔ Storage - SSD is highly recommended, alternatively many fast discs (SAS 15k)
- ➔ OS – Windows Server 2022 Standard Edition or newer
- ➔ SQL Server – SQL Server 2022 Standard Edition or newer

Recommendation for disk configuration (if not SSD)

- ➔ RAID1 for OS
- ➔ RAID1 or 10 for TempDB database
- ➔ RAID1 for production database logfile
- ➔ RAID10 for production database datafiles

Service Tier Server

The Service Tier server handles the application layer for all clients, who must have access to TRIMIT. There should be created one Service Tier Server per 25 users.

Minimum requirement:

- ➔ CPU – 4 cores
- ➔ RAM – 28 GB
- ➔ Storage – min. 60 GB
- ➔ OS – Windows Server 2022 Standard Edition or newer

There should be opened the following ports in the firewall on the server: 7045, 7046, 7047, 7048.

Service Tier Server (BC server, development)

The server for development and Sandbox with test platform during new version upgrades

- ➔ CPU – 4 cores
- ➔ RAM – 32 GB
- ➔ Storage – min. 60 GB
- ➔ OS – Windows Server 2022 Standard Edition or newer