

# System requirements

System requirements, software prerequisites, and other recommendations are described in a separate document "[System Requirements](#)" (but probably not as elaborate as in that document)

## On-premise installation

Component	Minimum	Suggested
CPU cores	4	16
RAM	8GB	16GB
Disk	250GB HDD	500GB SSD
Cache disk	100GB HDD	1TB HDD
Network interface	100MBps	1Gigabit

SQL Server can also be installed in a separate machine. The requirements for the computer hosting only SQL Server are the following:

Component	Minimum	Suggested
CPU cores	4	8
RAM	8GB	16GB
Disk	250GB HDD	500GB SSD
Network interface	100MBps	1Gigabit

## Additional comments regarding SQLServer

SQL Server Express can be used but poses two limitations which have to be taken into account:

1. The maximum database size cannot exceed 10GB.
2. Only one CPU core is used to execute queries.

## Installation on an AWS Virtual Machine

When installing PMA.core on AWS, it is highly recommended to use RDS to host SQL Server instead of installing it on the VM that PMA.core will be installed.

Component	Minimum	Suggested
PMA.core VM size	t3.large	t3.xlarge
SQL Server RDS VM size	t3.medium	t3.large
Cache disk	100GB EBS	1TB EBS

Additionally, slides can be stored either on local disks attached to the VM or in S3 buckets.

## Installation on an Azure Virtual Machine

When installing PMA.core on Azure, it is highly recommended to use the Azure SQL Server service to

host SQL Server instead of installing it on the VM that PMA.core will be installed.

Component	Minimum	Suggested
PMA.core VM size	D2as v5	D4as v5
Azure SQL Server RDS VM size	A2m v2	A4 v2
Cache disk	100GB standard HDD	1TB standard HDD

Additionally, slides can be stored either on local disks attached to the VM or in Azure Blob Storage. When possible, it is recommended to prefer [Azure Data Lake Storage Gen2](#) over plain Azure Blob Storage, as this type of service performs directory management operations, such as moving and renaming slides and directories, a lot faster.

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