

# OpenLM Application Manager optimal configuration

This document refers to OpenLM Application Manager 1.9 as well as OpenLM Application Manager 2.\*.

## Our recommendations

- VM network controller should be available for each network card.
- For compilers that perform multiple checkout/checkin in a second, we recommend a hardware. specification 25%-50% higher than that specified in the table at the end of this document.

For instance:-



- VM Administrators should make sure that the hosting server is capable of accommodating the required resources.
- When seeing low performance in DB queries, please check disk queue.
- We strongly recommend placing the DB in the same Data Center as OpenLM Server.
- See recommendations for MS SQL Server below.
- For MySQL we provide a sample configuration file for Windows (my.ini) & Linux (my.cnf) that should be revised by your DBA.
- In case of big databases (from 25GB and up) and big loads each DB should have 3 files and 3 VM disk controllers for: db file, log file and tmp file.

## Best practices for using MySQL

1. Use the latest 5.7/8 MySQL release.
2. In order to utilize the system's resources MySQL requires its configuration file (my.cnf/my.ini) to be set with the correct values. Otherwise MySQL will not take advantage of

its hosting machine's resources. We recommend some settings – please see our suggestions for configuration files archived in .zip format according to your system size:

[4GB\\_2Cores\\_Windows](#)

[8GB\\_4Cores\\_Windows](#)

[16GB\\_8Cores\\_Linux](#)

[16GB\\_8Cores\\_Windows](#)

[24GB\\_8Cores\\_Windows](#)

## Best practices for using MS SQL Server

1. Customers need to apply a maintenance plan consisting of:

- a) Periodic Statistics Update
- b) Periodic Rebuild or Reorganization of Indexes

DBAs need to apply company maintenance policy also for OpenLM DB. In the case where such does not exist, a public package can be applied (Here is one).

2. Recommended memory allocation to MSSQL Server running (almost) exclusively on a windows machine should not exceed 80% of total machine memory.

3. OpenLM database should have `is_read_committed_snapshot_on` parameter set.

To check if it is set:

```
SELECT is_read_committed_snapshot_on FROM sys.databases  
WHERE name= 'YourDatabase'
```

To set:

```
DECLARE @sqlCommand varchar(1000)  
DECLARE @db_name varchar(50)  
SET @db_name = 'YourDatabase'  
  
SET @sqlCommand = 'ALTER DATABASE ' + @db_name + ' SET  
ALLOW_SNAPSHOT_ISOLATION ON '
```



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3000	Internal	10	4 Cores	4GB	1Gbit	Fast HD	-	-	-	-
10000	External	75	8 Cores	12GB	10Gbit	Fast HD	8 Cores	16GB	10Gbit	Fast HD
15000	External	75	8 Cores	16GB	10Gbit	Fast HD	8 Cores	16GB	10Gbit	Fast HD