



SQL Server Assessment

SQL Server Detail Report - FITGEN/DB02



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Prepared for: Client Company

Prepared by: Your IT Company

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1 - About this Report

This report details the settings and health of the SQL Server as a whole. It looks at settings, configuration, performance, and backup. Information and detailed breakdown of databases can be found in the Database Detail report.

2 - System Information

Machine Name	DB02
OS Version	Windows Server 2019 Standard
SQL Server Name	DB02
SQL Server Version	14.0.2037.2
Product Level	

3 - Cluster Information

This instance was not identified to be part of a cluster

4 - Hardware Information

Processor	Intel(R) Xeon(R) CPU E5-2690 0 @ 2.90GHz
Logical CPUs	8
Physical CPUs	4
Physical Memory (MB)	12287
SQL Server Start Time	17-Sep-2023

5 - Server Information

SETTING NAME	VALUE	VALUE IN USE	DESCRIPTION
Access Check Cache Bucket Count	0	0	Default hash bucket count for the access check result security cache
Access Check Cache Quota	0	0	Default quota for the access check result security cache
Ad Hoc Distributed Queries	0	0	Enable or disable Ad Hoc Distributed Queries
Affinity I/O Mask	0	0	affinity I/O mask
Affinity Mask	0	0	affinity mask
Affinity64 I/O Mask	0	0	affinity64 I/O mask
Affinity64 Mask	0	0	affinity64 mask
Agent Xps	1	1	Enable or disable Agent XPs
Allow Updates	0	0	Allow updates to system tables
Awe Enabled	0	0	AWE enabled in the server
Backup Compression Default	0	0	Enable compression of backups by default
Blocked Process Threshold (S)	0	0	Blocked process reporting threshold
C2 Audit Mode	0	0	c2 audit mode
Clr Enabled	0	0	CLR user code execution enabled in the server
Cost Threshold For Parallelism	5	5	cost threshold for parallelism
Cross Db Ownership Chaining	0	0	Allow cross db ownership chaining
Cursor Threshold	-1	-1	cursor threshold
Database Mail Xps	1	1	Enable or disable Database Mail XPs
Default Full-Text Language	1033	1033	default full-text language
Default Language	0	0	default language
Default Trace Enabled	1	1	Enable or disable the default trace
Disallow Results From Triggers	0	0	Disallow returning results from triggers
Filestream Access Level	0	0	Sets the FILESTREAM access level

SETTING NAME	VALUE	VALUE IN USE	DESCRIPTION
Fill Factor (%)	0	0	Default fill factor percentage
Ft Crawl Bandwidth (Max)	100	100	Max number of full-text crawl buffers
Ft Crawl Bandwidth (Min)	0	0	Number of reserved full-text crawl buffers
Ft Notify Bandwidth (Max)	100	100	Max number of full-text notifications buffers
Ft Notify Bandwidth (Min)	0	0	Number of reserved full-text notifications buffers
Index Create Memory (KB)	0	0	Memory for index create sorts (kBytes)
In-Doubt Xact Resolution	0	0	Recovery policy for DTC transactions with unknown outcome
Lightweight Pooling	0	0	User mode scheduler uses lightweight pooling
Locks	0	0	Number of locks for all users
Max Degree Of Parallelism	0	0	maximum degree of parallelism
Max Full-Text Crawl Range	4	4	Maximum crawl ranges allowed in full-text indexing
Max Server Memory (MB)	2147483647	2147483647	Maximum size of server memory (MB)
Max Text Repl Size (B)	65536	65536	Maximum size of a text field in replication.
Max Worker Threads	0	0	Maximum worker threads
Media Retention	0	0	Tape retention period in days
Min Memory Per Query (KB)	1024	1024	minimum memory per query (kBytes)
Min Server Memory (MB)	0	16	Minimum size of server memory (MB)
Nested Triggers	1	1	Allow triggers to be invoked within triggers
Network Packet Size (B)	4096	4096	Network packet size
Ole Automation Procedures	0	0	Enable or disable Ole Automation Procedures
Open Objects	0	0	Number of open database objects
Optimize For Ad Hoc Workloads	0	0	When this option is set, plan cache size is further reduced for single-use adhoc OLTP workload.

SETTING NAME	VALUE	VALUE IN USE	DESCRIPTION
PH Timeout (S)	60	60	DB connection timeout for full-text protocol handler (s)
Precompute Rank	0	0	Use precomputed rank for full-text query
Priority Boost	0	0	Priority boost
Query Governor Cost Limit	0	0	Maximum estimated cost allowed by query governor
Query Wait (S)	-1	-1	maximum time to wait for query memory (s)
Recovery Interval (Min)	0	0	Maximum recovery interval in minutes
Remote Access	1	1	Allow remote access
Remote Admin Connections	0	0	Dedicated Admin Connections are allowed from remote clients
Remote Login Timeout (S)	20	20	remote login timeout
Remote Proc Trans	0	0	Create DTC transaction for remote procedures
Remote Query Timeout (S)	600	600	remote query timeout
Replication Xps	0	0	Enable or disable Replication XPs
Scan For Startup Procs	0	0	scan for startup stored procedures
Server Trigger Recursion	1	1	Allow recursion for server level triggers
Set Working Set Size	0	0	set working set size
Show Advanced Options	1	1	show advanced options
SMO And DMO Xps	1	1	Enable or disable SMO and DMO XPs
SQL Mail Xps	0	0	Enable or disable SQL Mail XPs
Transform Noise Words	0	0	Transform noise words for full-text query
Two Digit Year Cutoff	2049	2049	two digit year cutoff
User Connections	0	0	Number of user connections allowed
User Options	0	0	user options
Xp_Cmdshell	0	0	Enable or disable command shell

6 - Databases

DATABASE NAME	STATUS	RECOVERY MODEL	FILE	FILE TYPE	FILE SIZE(MB)
BCSSDev	ONLINE	SIMPLE	F:\BCSSDev.mdf	ROWS	2
			F:\BCSSDev_log.ldf	LOG	1
FIT3	ONLINE	SIMPLE	F:\FIT3.mdf	ROWS	7150
			F:\FIT3_1.ldf	LOG	14376
BCSS	ONLINE	SIMPLE	F:\BCSS.mdf	ROWS	5028
			F:\BCSS_1.ldf	LOG	21614
ReportServer	ONLINE	FULL	F:\Program Files\Microsoft SQL Server\MSSQL10_50.MSSQLSERVER\MSSQL\DATA\ReportServer.mdf	ROWS	3
			F:\Program Files\Microsoft SQL Server\MSSQL10_50.MSSQLSERVER\MSSQL\DATA\ReportServer_log.LDF	LOG	6
ReportServerTempDB	ONLINE	SIMPLE	F:\Program Files\Microsoft SQL Server\MSSQL10_50.MSSQLSERVER\MSSQL\DATA\ReportServerTempDB.mdf	ROWS	2
			F:\Program Files\Microsoft SQL Server\MSSQL10_50.MSSQLSERVER\MSSQL\DATA\ReportServerTempDB_log.LDF	LOG	0
selfservice	ONLINE	FULL	F:\selfservice.mdf	ROWS	13
			F:\selfservice_log.ldf	LOG	132
tempdb	ONLINE	SIMPLE	F:\Program Files\Microsoft SQL Server\MSSQL10_50.MSSQLSERVER\MSSQL\DATA\tempdb.mdf	ROWS	8
			F:\Program Files\Microsoft SQL Server\MSSQL10_50.MSSQLSERVER\MSSQL\DATA\templog.ldf	LOG	0

Your IT Company
<http://youritcompany.com>
678-555-1212
support@youritcompany.com



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Scan Date:
10-Oct-2023

7 - Input/Output

Read

DATABASE	IO STALLED READS(MS)	NUMBER OF READS	AVERAGE READ STALL(MS)
BCSSDev	2124	73	28.7
FIT3	11785813	456010	25.8
BCSS	8784278	430964	20.4
ReportServer	5240	141	36.9
ReportServerTempDB	2826	81	34.5
selfservice	18651	487	38.2
tempdb	355341	75802	4.7

Write

DATABASE	IO STALLED WRITES(MS)	NUMBER OF WRITES	AVERAGE WRITES STALL(MS)
BCSSDev	591	32	17.9
FIT3	2781836	157095	17.7
BCSS	300619376	12903069	23.3
ReportServer	701	36	18.9
ReportServerTempDB	532	36	14.4
selfservice	6501	309	21.0
tempdb	2422199	73344	33.0

Total

DATABASE	TOTAL IO STALLS(MS)	NUMBER OF STALLS	AVERAGE IO STALL(MS)
BCSSDev	2715	105	25.6
FIT3	14567649	613105	23.8
BCSS	309403654	13334033	23.2

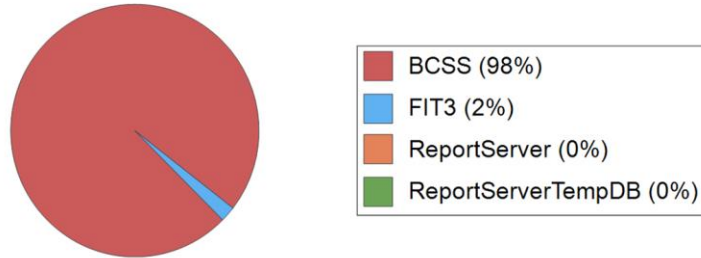
DATABASE	TOTAL IO STALLS(MS)	NUMBER OF STALLS	AVERAGE IO STALL(MS)
ReportServer	5941	177	33.4
ReportServerTempDB	3358	117	28.5
selfservice	25152	796	31.6
tempdb	2777540	149146	18.6

Database I/O

DATABASE	TOTAL I/O(MS)	I/O PERCENT
BCSSDev	105	0
FIT3	613105	4.35
BCSS	13334033	94.58
ReportServer	177	0
ReportServerTempDB	117	0
selfservice	796	0.01
tempdb	149146	1.06

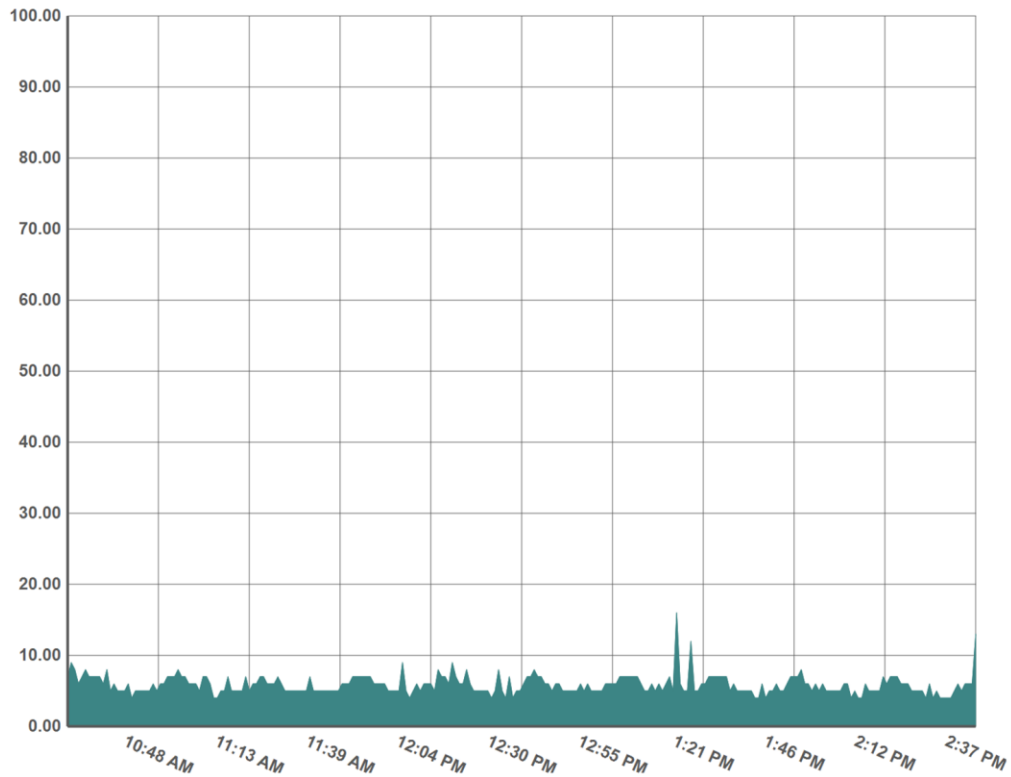
8 - CPU

CPU Usage by Database



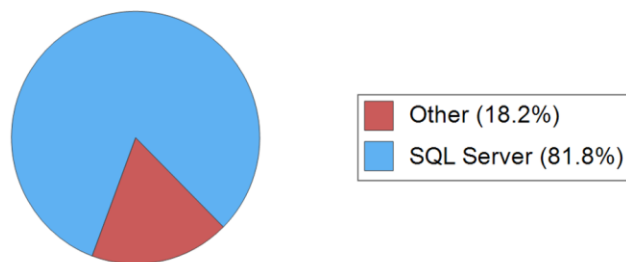
DATABASE NAME	CPU TIME(MS)	CPU TIME PERCENTAGE
FIT3	8632378364	2.18
BCSS	387930639133	97.82
ReportServer	976	0.00
ReportServerTempDB	976	0.00

CPU Utilization History (Last 4 Hours)



9 - Physical Memory

SQL Server Memory Usage (%)



Physical Memory (MB)	12287
Available Memory (MB)	1052

Total Page File (MB)	24573
Available Page File (MB)	13220
System Cache	84496
System Memory State	Available physical memory is high
SQL Server Memory Usage (MB)	10048
SQL Server Memory Utilization	100
Available Commit Limit (KB)	13538152

10 - Wait Types

SIGNAL WAITS (CPU) PERCENTAGE

17.80

RESOURCE WAITS PERCENTAGE

82.20

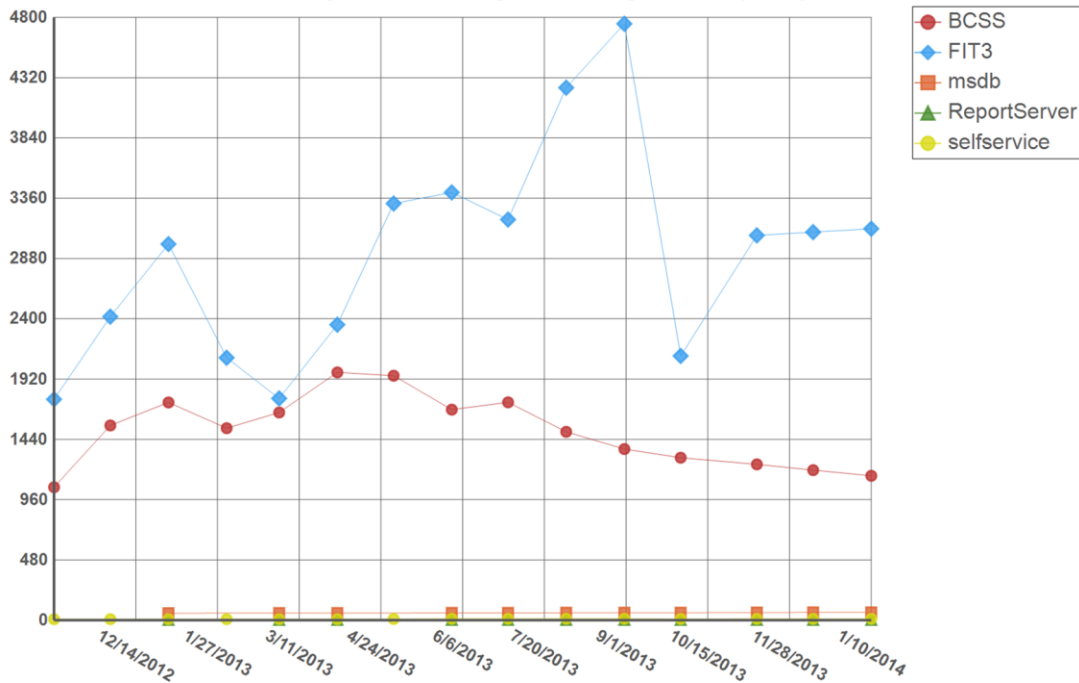
WAIT TYPE	WAIT TIME (SECONDS)	WAIT TIME PERCENTAGE
WRITELOG	699610.07	78.79
PREEMPTIVE_OS_AUTHENTICATIONOPS	50087.44	5.64
SOS_SCHEDULER_YIELD	37885.56	4.27
PREEMPTIVE_OS_CRYPTACQUIRECONTEXT	19435.20	2.19
LCK_M_IX	12908.47	1.45
PREEMPTIVE_OS_AUTHORIZATIONOPS	10265.50	1.16
PREEMPTIVE_OS_DELETESECURITYCONTEXT	8570.35	0.97
CXPACKET	7941.60	0.89
PREEMPTIVE_OS_CRYPTIMPORTKEY	7829.73	0.88
ASYNC_IO_COMPLETION	7447.63	0.84
BACKUPBUFFER	6571.58	0.74
BACKUIO	6078.49	0.68
LCK_M_IS	3352.11	0.38
ASYNC_conn_IO	2195.75	0.25

11 - Tasks

Average Tasks Count	3
Average Runnable Task Count	0
Average Pending Disk I/O Count	0

12 - Backup

Top 5 Monthly Backup Size (MB)



Most Recent Backups

The table below shows when the latest recorded backup occurred using SQL Server. Backup dates over 30 days from the time of the scan are highlighted in red. Please note that some databases may not need to be backed up regularly. This table only shows the last recorded time in SQL Server and does not account for external backup mechanisms.

DATABASE	FINISH DATE	BACKUP SIZE (MB)	COMPRESSED BACKUP SIZE (MB)	COMPRESSION RATIO
BCSSDev	10-Oct-2023	1	1	1.00
FIT3	10-Oct-2023	3522	3522	1.00
BCSS	10-Oct-2023	1432	1432	1.00
ReportServer	10-Oct-2023	3	3	1.00
ReportServerTempD	10-Oct-2023	1	1	1.00



DATABASE	FINISH DATE	BACKUP SIZE (MB)	COMPRESSED BACKUP SIZE (MB)	COMPRESSION RATIO
B				
selfservice	10-Oct-2023	11	11	1.00
master	10-Oct-2023	2	2	1.00
msdb	10-Oct-2023	60	60	1.00
model	10-Oct-2023	1	1	1.00



13 - Logins

LOGIN NAME	SESSION COUNT
sa	844
NT AUTHORITY\SYSTEM	2
	1