Metric alerts

SQL Diagnostic Manager offers numerous alerts to successfully monitor and warn you about your SQL Server instances and availability groups. Proper configuration is key to making sure you receive alerts only on those metrics that actually fall outside the typical performance of your environment. SQL Diagnostic Manager includes the following metric alerts for your use:

The alerts are listed by default as Rank and categories. The default Ranks are classified as follows:

- Rank 10 = Service High
- Rank 20 = Resource High
- Rank 30 = Database High
- Rank 40 = Process High
- Rank 50 = Service Low
- Rank 60 = Resource Low
- Rank 70 = Database Low
- Rank 80 = Process Low
- Rank 90 =Other

Category: Amazon RDS

Metric	Rank
CPU Credit balance High	100
CPU Credit balance Low	100
CPU Credit Usage	100
Disk Queue Depth	100
Read Latency High	100
Read Latency Low	100
Read Throughput	100
Swap Usage	100
Write Latency High	100
Write Latency Low	100
Write Throughput	100

Category: Azure DB

Metric	Rank
Average Data IO Percent High	100
Average Data IO Percent Low	100
Average Log Write Percent High	100
Average Log Write Percent Low	100
Database Average Memory Usage Percent High	100
Database Average Memory Usage Percent Low	100
In-Memory Storage Usage Percent High	100
In-Memory Storage Usage Percent Low	100
Max Session Percent High	100
Max Session Percent Low	100

Max Worker Percent High	100
Max Worker Percent Low	100
Service Tier Changes	100

Category: Backup

Metric	Rank
Days since last backup	40

Category: Databases

Metric	Rank
Availability Group Estimated Data Loss (Seconds)	20
Availability Group Estimated Recovery time (Seconds)	20
Availability Group Log Send Queue Size (KB)	20
Availability Group Preferred Replica	10
Availability Group Redo Queue Size (KB)	20
Availability Group Redo Rate (KB/sec)	20
Availability Group Role Change	10
Availability Group Synchronization Health	20
Availability Group Synchronization Performance (Seconds)	20
Data File Autogrow	70
Database Full (Percent)	30
Database Full (Size)	30
Database Read/Write Error Occurred	30
Database Status	30
Filegroup Space Full (Percent)	30
Filegroup Space Full (Size)	30
Index Row Hits (Percent)	70
Log File Autogrow	70
Log Full (Percent)	30
Log Full (Size)	30
Longest Running Version Store Transaction (Minutes)	30
Mirror Commit Overhead (Milliseconds)	30
Mirrored Server Role Change	30
Mirroring Oldest Unsent Transactions	30
Mirroring Preferred Configuration	30
Mirroring Status	30
Mirroring Unrestored Log (KB)	30

Mirroring Unsent Log (KB)	30
Mirroring Witness Connection	30
Session Tempdb Space Usage (MB)	80
Table Fragmentation (Percent)	70
Tempdb Contention (ms)	20
Version Store Generation Ratio	30
Version Store Size (MB)	30

Category: Logs

Metric	Rank
SQL Server Agent Log	40
SQL Server Error Log	40

Category: Operational

Metric	Rank
CLR Enabled	90
OLE Automation Disabled	90
OS Metrics Collection Status	90
SQL Server Agent XPs Disabled	50
SQL Server Data Used (Percent)	30
SQL Server Log Used (Percent)	30
SQLdm Repository Grooming Timed Out	90
WMI Service Unavailable	50

Category: Queries

Metric	Rank
Query Monitor Events (Counts)	80

Category: Resources

Metric	Rank
Average Disk Milliseconds Per Read	20
Average Disk Milliseconds Per Transfer	20
Average Disk Milliseconds Per Write	20
Disk Reads Per Second	60
Disk Transfers Per Second	60
Disk Writes Per Second	60
OS Average Disk Queue Length (Count)	20

OS Average Disk Queue Length Per Disk (Count)	60
OS Disk Free Space (Size)	20
OS Disk Full (Percent)	20
OS Disk Time (Percent)	60
OS Disk Time Per Disk (Percent)	60
OS Memory Usage (Percent)	20
OS Paging (Per Second)	60
OS Privileged Time (Percent)	60
OS Processor Queue Length (Count)	20
OS Processor Time (Percent)	20
OS User Time (Percent)	60
Page Life Expectancy	60
Procedure Cache Hit Ratio	20
SQL Server CPU Usage (Percent)	20
SQL Server Memory Usage (Percent)	20

Category: Services

Metric	Rank
Cluster Active Node	10
Cluster Failover	10
Distribution Latency (Seconds)	40
DTC Status	10
Full-Text Search Status	50
Last Full-Text Catalog Update (Hours)	50
Latent replication transaction (Count)	40
SQL Server Active Directory Helper Service Status	50
SQL Server Agent Job Completion	80
SQL Server Agent Job Failure	40
SQL Server Agent Long Running Job (Minutes)	80
SQL Server Agent Long Running Job (Percent)	80
SQL Server Agent Status	10
SQL Server Browser Service Status	50
SQL Server Status	10
Unsubscribed Transactions (Count)	40
Unsubscribed Transactions (Seconds)	80

Category: Sessions

Metric	Rank
Blocked Sessions	40
Blocked Sessions Wait Time (Seconds)	40
Client Computers (Count)	60
Deadlock	80
Oldest Open Transaction (Minutes)	40
Session CPU Time (Seconds)	80
SQL Server Response Time (Milliseconds)	40
User Connections (Percent)	20

Category: Virtualization

Metric	Rank
Host CPU Usage (Percent)	20
Host Memory Swap Detected	20
Host Memory Usage (Percent)	20
Host Power State	20
VM CPU Ready Wait Time (ms)	20
VM CPU Usage (Percent)	20
VM Host Server Change	20
VM Memory Swap Delay Detected	20
VM Memory Usage (Percent)	20
VM Power State	20
VM Reclaimed/Ballooned Memory (KB)	20
VM Resource Configuration Change	20
VM Resource Limits Detected	20

SQL Diagnostic Manager for SQL Server performance monitoring, alerting, and diagnostics for SQL Server.

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