

View your SQL Server resources information

The Resources tab of the single instance dashboard contains several views such as [CPU](#), [Memory](#), [Disk](#), and [Server Waits](#). The Resources tab allows you to monitor the system resources on the computer hosting the SQL Server instance as well as what is used by SQL Server.

Resource bottlenecks are often the cause of SQL Server performance problems. These bottlenecks can result from poor database application design or point to other system processes using valuable resources needed by SQL Server.

CPU view

The **Resources > CPU** tab contains several charts and a Top sessions by active CPU widget (Click image to view full size):



Charts

Processor Time (%)

The Processor Time chart displays the percentage of CPU time used by all processes on the computer hosting the SQL Server instance.

Processor Queue Length


The Processor Queue Length chart displays the number of ready threads in the processor queue on the computer hosting the SQL Server instance.

CPU Usage (%)

The CPU Usage (%) chart displays the percentage of processing power in use on the computer that hosts the SQL Server instance over a period of time. You can select that information displays for the last 30 minutes, 1 hour, 4 hours, 8 hours, and 12 hours.

Top Sessions by Active CPU

TOP SESSIONS BY ACTIVE CPU			
Session ID	Host	Database	CPU Usage
85	QA-W2K8R2-DM66	master	63.00
86	QA-W2K8R2-DM66	master	15.00

This widget allows you to view the top sessions of a selected SQL Server instance per CPU usage (click image to view full size). You can configure this widget to display additional entries by clicking the gear icon or you can expand/contract by clicking .

Memory view

The **Resources > Memory** tab contains the following charts (Click image to view full size):



SQL Memory Usage (MB)

This chart displays the SQL memory usage (SQL Used) compared to what is allocated (SQL Allocated) and the total used (Total Used).

Memory Areas (MB)

This chart displays the memory usage of the Procedure Cache, Connections, Locks, and Database.

Page Life Expectancy (sec)

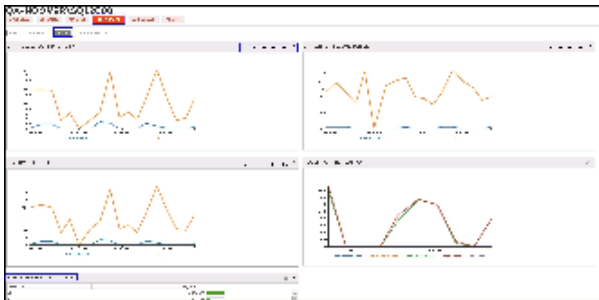
This chart provides the time in seconds that a page remains in the cache or buffer pool.

Cache Hit Ratios (%)

This chart displays the hit ratios of the Buffer and Procedure cache.

Disk view

The **Resources > Disk** tab contains several charts and the Top sessions by I/O activity widget (Click image to view full size):



Charts

Disk Reads/Second Per Disk

This chart displays the number of reads per disk per second during a sample interval. You can select intervals of 30 minutes, 1 hour, 4 hours, 8 hours, and 12 hours.

Disk Writes/Second Per Disk

This chart displays the number of writes per disk per second during a sample interval. You can select intervals of 30 minutes, 1 hour, 4 hours, 8 hours, and 12 hours.

Disk Transfers Per Second

This chart displays the number of disk transfers per second during a sample interval. You can select intervals of 30 minutes, 1 hour, 4 hours, 8 hours, and 12 hours.

SQL Server Physical I/O

This chart displays the number of read and write requests sent to the physical disk the SQL Server instance resides in. Read and write requests are classified in Checkpoint Writers, Read Ahead Reads, Page Writes, Lazy Writer Writes, and Page Reads.

Top Sessions by I/O Activity

