

# Host CPU Usage (Percent) alert

The Host CPU Usage (Percent) alert indicates an unusually high amount of CPU usage by the VMWare or Hyper-V host server hosting the virtual machine on which the monitored SQL Server instance resides. The percentage of host server processor usage is listed under the control. A high host server percentage could indicate a large number of active client sessions. This alert is enabled by default and is available only on instances hosted on virtual machines enabled for VM monitoring.

## Reduce your host CPU usage

Consistently high host server processor usage could indicate the need to:

- Reduce the number of SQL re-compilations as they are CPU intensive. There are many reasons that an object such as a stored procedure is recompiled and you can remove most of these reasons by careful coding.
- Make sure that all T-SQL statements (whether in a stored procedure, trigger or ad hoc statement) that reference objects fully qualify the object referenced.

For example: `SELECT * FROM Northwind.dbo Employees` is a fully-qualified object reference whereas `SELECT * FROM Employees` is a poorly-qualified object. You can reuse the execution plans of fully-qualified objects "as is," whereas plans where you either cannot reuse the not fully-qualified objects or, if they are reused, then they are subject to a highly restrictive `COMPILE` lock while SQL Server determines if all of the objects referenced in the T-SQL code have the same owners as the execution plan currently in cache. Both of these situations consume a significant amount of CPU time.

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