[Introduction](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=0&mode=live" \t "psplayer)

[Introduction](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=0&mode=live)

[This is Glenn Berry with SQLskills. com](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=0&mode=live&start=0) [and I'm recording this course for](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=0&mode=live&start=3.5) [Pluralsight. This is SQL Server 2014 DMV](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=0&mode=live&start=6.5" \t "psplayer) [Diagnostic Queries - Part 1 and this is](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=0&mode=live&start=9.25) [the introduction. So what are we going to](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=0&mode=live&start=12.25) [cover in this course? Well, database](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=0&mode=live&start=15.823529411764707) [performance issues are immediately](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=0&mode=live&start=18.647058823529402) [noticeable. They can quickly affect](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=0&mode=live&start=20.529411764705866) [multiple applications or your entire](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=0&mode=live&start=22.599999999999994) [organization. People tend to notice](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=0&mode=live&start=24.599999999999987) [database performance issues very quickly](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=0&mode=live&start=26.647058823529406) [and you can't just reboot the database](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=0&mode=live&start=28.705882352941163) [server and hope that that fix the problem,](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=0&mode=live&start=31.588235294117624) [even though that's what a lot of people do](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=0&mode=live&start=33.27272727272726) [when they first run into a performance](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=0&mode=live&start=34.90909090909088)[problem, and you may not know it, but DBA](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=0&mode=live&start=36.4375) [actually stands for Default Blame](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=0&mode=live&start=40.375) [Acceptor. I can't tell you how many times](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=0&mode=live&start=42.5625) [I've heard, what's wrong with the](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=0&mode=live&start=44.75) [database, why is the database server so](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=0&mode=live&start=46.25) [slow whenever there's any kind of a](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=0&mode=live&start=48) [problem with the application and the](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=0&mode=live&start=50.578947368421076) [database or the database server is](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=0&mode=live&start=52.78947368421057) [typically guilty until proven innocent](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=0&mode=live&start=55) [and, as a DBA, you need the tools and](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=0&mode=live&start=57.222222222222214) [knowledge to help quickly determine the](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=0&mode=live&start=61.2222222222222) [actual problem, if there is one, because](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=0&mode=live&start=63.55555555555556) [maybe there's nothing wrong with the](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=0&mode=live&start=65.49999999999997) [database or the database server, but until](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=0&mode=live&start=67.1666666666666) [you've got the right kind of tools to](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=0&mode=live&start=69.05263157894734) [investigate and prove that, you're going](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=0&mode=live&start=71.15789473684202) [to be at the mercy of everybody who blames](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=0&mode=live&start=72.73684210526304) [the database whenever there's any kind of](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=0&mode=live&start=75.66666666666663) [performance issue, and using the DMV](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=0&mode=live&start=77.99999999999993) [queries in this course will help you come](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=0&mode=live&start=82) [to that conclusion and be able to prove it.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=0&mode=live&start=90)

[How can you Find Performance Problems?](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=1&mode=live)

[So how can you find performance problems](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=1&mode=live&start=2.2272334) [with SQL server, especially in an](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=1&mode=live&start=4.560566733333333) [emergency situation? Well one good place](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=1&mode=live&start=6.5605667333333315) [to start is Windows Task Manager. Windows](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=1&mode=live&start=8.490391294736842) [Task Manager was improved quite a bit in](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=1&mode=live&start=10.700917610526316) [Windows Server 2012 and newer. It's got a](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=1&mode=live&start=13.2272334) [lot more useful information, but even](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=1&mode=live&start=15.580174576470593)[older versions have information about how](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=1&mode=live&start=17.344880458823532) [hard your processors are working and how](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=1&mode=live&start=19.227233399999996) [much memory you're using and whether or](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=1&mode=live&start=21.56056673333332) [not the processor utilization is being](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=1&mode=live&start=23.893900066666646) [done by SQL server or not, so that's a](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=1&mode=live&start=25.616122288888892) [good place to start. The next place you](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=1&mode=live&start=28.1161222888889) [might want to go is Windows Resource](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=1&mode=live&start=30.17961435238095)[Monitor, which you can get to very easily](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=1&mode=live&start=31.84628101904761) [off of Task Manager, and that gives you a](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=1&mode=live&start=33.751042923809536) [little bit more detailed information about](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=1&mode=live&start=36.43775971578949) [what Windows is doing, as far as on your](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=1&mode=live&start=38.332496557894764) [machine, what's going on health wise.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=1&mode=live&start=41.17460182105264) [Next, you might want to use Windows](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=1&mode=live&start=43.069338663157914) [Performance Monitor and use one of the](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=1&mode=live&start=45.2798649789474)[many hundreds of different performance](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=1&mode=live&start=47.42723339999999) [counters. Some of them are OS related and](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=1&mode=live&start=48.92723339999998) [some of them are SQL server related that](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=1&mode=live&start=51.327233399999955) [you can use to monitor performance over](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=1&mode=live&start=53.89390006666668) [time and that's a good idea. Next, you](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=1&mode=live&start=56.22723340000003) [might want to try SQL Server Management](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=1&mode=live&start=58.93311575294118) [Studio- Activity Monitor, which is](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=1&mode=live&start=61.403703988235286)[built-in to Management Studio.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=1&mode=live&start=63.16840987058822) [Unfortunately, this tool is not as useful](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=1&mode=live&start=64.5272334) [as it might seem, and I don't see that](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=1&mode=live&start=66.62723339999998) [many people using it in the field, but it](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=1&mode=live&start=69.32723339999995)[is a good free tool that you have](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=1&mode=live&start=71.8272334) [available. Next, you should always take a](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=1&mode=live&start=73.96056673333332) [look at the SQL Server error log. There's](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=1&mode=live&start=75.65580482857145) [a lot of good information in there that](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=1&mode=live&start=77.56056673333337) [can help you pinpoint performance issues.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=1&mode=live&start=79.61184878461539) [Then you have SQL Server Profiler. Now SQL](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=1&mode=live&start=81.91954109230771) [Server profiler was actually deprecated in](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=1&mode=live&start=84.96407550526315) [SQL Server 2012, but it still works, and](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=1&mode=live&start=87.1746018210526) [it won't be removed from the product](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=1&mode=live&start=90.1219702421052) [probably for several more versions of SQL](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=1&mode=live&start=92.56056673333332) [Server. Then you have Extended Events.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=1&mode=live&start=94.89390006666662) [Extended Events requires SQL Server 2008](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=1&mode=live&start=97.33249655789473) [or newer and it's a little bit hard to](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=1&mode=live&start=99.8588123473684) [work with unless you use some of my](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=1&mode=live&start=103.56056673333333) [colleague, Jonathan Kehayias' queries and](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=1&mode=live&start=106.22723339999996) [scripts to use Extended Events in those](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=1&mode=live&start=107.8939000666666) [earlier versions of SQL Server. Now if you](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=1&mode=live&start=110.1272334) [have SQL Server 2012 or newer, you have an](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=1&mode=live&start=112.52723339999997) [Extended Events GUI in Management Studio,](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=1&mode=live&start=115.2272334) [which makes it much easier to work with.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=1&mode=live&start=117.37009054285717) [Then finally, you've got my favorite, DMV](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=1&mode=live&start=120.2272334) [and DMO queries. DMV stands for Dynamic](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=1&mode=live&start=123.3383445111111) [Management View and DMO stands for Dynamic](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=1&mode=live&start=126.4494556222222) [Management Object and that's what this](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=1&mode=live&start=128.9772334) [course is going to be going into quite a](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=1&mode=live&start=130.4772334) [bit of detail about how to use these queries to find performance problems.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=1&mode=live&start=132.7272334)

[DMV Queries to the Rescue!](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=2&mode=live)

[Fortunately, if you have a new enough](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=2&mode=live&start=1.9790223) [version of SQL Server, you have DMV](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=2&mode=live&start=3.7290223) [queries that will come to your rescue when](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=2&mode=live&start=5.4790223000000005) [you're trying to find performance](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=2&mode=live&start=7.534577855555555) [problems. These were a new feature that](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=2&mode=live&start=8.923466744444447) [was added in SQL Server 2005 and there](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=2&mode=live&start=10.867911188888897) [have been improvements and additions to](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=2&mode=live&start=13.452706510526315) [these DMV queries in each new major](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=2&mode=live&start=15.663232826315788) [version of SQL Server. Now DMV/DMO queries](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=2&mode=live&start=18.24218019473684) [expose a wealth of useful information,](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=2&mode=live&start=21.4790223) [things like details about your hardware,](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=2&mode=live&start=24.4790223) [missing index information, top wait stats,](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=2&mode=live&start=27.36791118888889) [what your most expensive queries are, I](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=2&mode=live&start=29.701244522222225) [can go on and on, and you'll see them as I](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=2&mode=live&start=32.42346674444445) [go through the rest of this course. Now](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=2&mode=live&start=35.97902229999999) [most DMV/DMO queries are very lightweight](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=2&mode=live&start=38.4790223) [and very easy to use. They do require VIEW](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=2&mode=live&start=41.4790223) [SERVER STATE permission, so you're going](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=2&mode=live&start=44.9790223) [to have to have that to run most of these](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=2&mode=live&start=46.4790223) [queries, and the information from these](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=2&mode=live&start=48.9790223) [queries is not persisted between restarts](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=2&mode=live&start=50.97902230000001) [of SQL Server or of the entire server](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=2&mode=live&start=52.979022300000025) [itself, and objects if that's an issue for](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=2&mode=live&start=55.779022299999994) [you, you can write useful metrics to a](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=2&mode=live&start=58.97902229999998) [user database if you want, so you have](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=2&mode=live&start=62.17902229999997)[some history and trending information over](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=2&mode=live&start=64.4790223) [time, and that's really a useful thing to](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=2&mode=live&start=65.9790223) [do. You can use something like my](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=2&mode=live&start=67.9790223) [ServerMonitor database as a starting point](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=2&mode=live&start=70.6040223" \t "psplayer) [for collecting some instance-level metrics](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=2&mode=live&start=72.8540223) [and you can go to this URL right there to](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=2&mode=live&start=74.64568896666665) [download the script to create the](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=2&mode=live&start=77.97902229999994) [ServerMonitor database and an agent job to](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=2&mode=live&start=79.9790223" \t "psplayer) [collect some basic metrics every minute by default.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=2&mode=live&start=86.9790223)

[DMV Diagnostic Query History](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=3&mode=live)

[What is the history and background behind](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=3&mode=live&start=1.6040779) [my DMV diagnostic queries? Well the first](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=3&mode=live&start=4.785896081818182) [public version became available in April](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=3&mode=live&start=7.604077899999999) [of 2009. The place I was working at the](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=3&mode=live&start=9.604077900000002) [time, I just got tired, to be honest, of](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=3&mode=live&start=12.604077900000007) [always having to defend database and the](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=3&mode=live&start=15.604077900000004) [database server whenever there's any kind](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=3&mode=live&start=17.937411233333332) [of a problem with our website, people](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=3&mode=live&start=19.8540779) [always assumed that it was a problem with](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=3&mode=live&start=21.6040779) [the database server, so that spurred me to](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=3&mode=live&start=23.6040779) [put together this query set that I've been](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=3&mode=live&start=25.867235794736835) [enhancing since then, and I have separate](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=3&mode=live&start=28.393551584210506) [versions for each major version of SQL](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=3&mode=live&start=30.6040779) [Server, so there's one for SQL Server](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=3&mode=live&start=33.754077900000006) [2005, one for SQL Server 2008, and a](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=3&mode=live&start=36.904077900000026) [separate one for SQL Server 2008 R2, and](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=3&mode=live&start=40.27074456666667) [then one for SQL Server 2012, and then](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=3&mode=live&start=42.93741123333336) [finally, one for SQL Server 2014, and it's](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=3&mode=live&start=45.60407790000004) [really important that you download and use](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=3&mode=live&start=48.368783782352935) [the appropriate version of these queries.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=3&mode=live&start=50.839372017647044) [It should match your version of SQL Server](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=3&mode=live&start=52.9040779) [and I actually have a check query at the](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=3&mode=live&start=55.304077899999974) [beginning of the query set to try to](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=3&mode=live&start=58.00407789999995) [confirm that you're running the correct](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=3&mode=live&start=60.604077900000014) [version of SQL Server to match the version](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=3&mode=live&start=62.60407790000003)[of the DMV Diagnostic Queries script. Now](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=3&mode=live&start=65.27074456666669) [I put out monthly updates and improvements](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=3&mode=live&start=67.93741123333331) [for each of these versions and you can](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=3&mode=live&start=70.65963345555551) [find them from these two URLs. One's for](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=3&mode=live&start=73.46122075714287) [my personal blog and the other one's for](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=3&mode=live&start=75.7469350428572) [the SQLSkills blog that I have, and also,](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=3&mode=live&start=78.03264932857154) [I tweet about them when I publish a new](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=3&mode=live&start=80.43016485652171) [version, so you might want to follow me on twitter, my handle is @glennalanberry.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=3&mode=live&start=83.1692952913043)

[Why use DMV Diagnostic Queries?](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=4&mode=live)

[Why should you use my DMV Diagnostic](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=4&mode=live&start=1.5573002) [Queries? Well, they're relatively quick](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=4&mode=live&start=5.0573002) [and easy to use. It doesn't require any](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=4&mode=live&start=7.5573002) [special configuration or knowledge to run](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=4&mode=live&start=10.890633533333336) [these queries. Now it does take some](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=4&mode=live&start=12.89063353333334) [knowledge to properly interpret the](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=4&mode=live&start=14.873089673684213) [results and that's what you're going to](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=4&mode=live&start=16.188879147368425) [learn in this course. Most DMB queries are](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=4&mode=live&start=18.030984410526322) [very lightweight, they don't put any](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=4&mode=live&start=20.8073002) [stress on the system. I'll point out some](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=4&mode=live&start=23.0573002) [known exceptions though, as ones you want](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=4&mode=live&start=25.5573002) [to might be a little bit more careful](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=4&mode=live&start=27.3073002) [with. They provide a lot of very valuable](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=4&mode=live&start=29.3073002) [information about your system. It gives](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=4&mode=live&start=32.10275474545455) [you instance and database configuration](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=4&mode=live&start=34.48037712307692) [information and then instance-level](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=4&mode=live&start=36.78806943076922) [performance information, and then finally,](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=4&mode=live&start=38.63422327692306) [database-level performance information.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=4&mode=live&start=40.55730020000001) [All of this is going to help you get](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=4&mode=live&start=41.557300200000014) [closer to the root cause of many problems](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=4&mode=live&start=44.557300200000036) [with SQL Server and this is much better](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=4&mode=live&start=46.94618908888889) [than just guessing about performance](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=4&mode=live&start=49.16841131111112) [issues. It's going to give you a lot of](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=4&mode=live&start=50.5573002) [good information and evidence that you can](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=4&mode=live&start=52.905126286956516) [use to get to the root of these performance problems.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=4&mode=live&start=54.73121324347825)

[Diagnostic and Corrective Process](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=5&mode=live)

[What is the high level diagnostic and](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=5&mode=live&start=2.3016558) [corrective process that I like to use when](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=5&mode=live&start=4.0516558) [I'm working with SQL Server problems? Well](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=5&mode=live&start=6.0516558) [first, I like to assess the overall health](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=5&mode=live&start=8.079433577777777) [of the entire database server from the](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=5&mode=live&start=11.190544688888892) [hardware, through the OS, and in SQL](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=5&mode=live&start=13.912766911111117) [Server itself. Then I will assess the](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=5&mode=live&start=16.7016558) [health of the SQL Server instance, and](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=5&mode=live&start=19.50165579999999) [remember, you might have more than one](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=5&mode=live&start=22.3016558) [instance on a particular machine. Then I](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=5&mode=live&start=24.0516558) [want to assess the health of the most](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=5&mode=live&start=25.968322466666663)[important database or databases and then I](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=5&mode=live&start=28.63498913333332) [want to determine the biggest performance](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=5&mode=live&start=30.968322466666645) [issues that we're seeing right now, and](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=5&mode=live&start=32.90165579999999) [then try to find the root cause of that](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=5&mode=live&start=35.00165579999997) [issue, if possible, and then apply some](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=5&mode=live&start=37.70165579999995) [corrective action to try to improve that](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=5&mode=live&start=40.14376106315791) [issue, and then repeat the process as](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=5&mode=live&start=42.72270843157899) [needed until the performance is](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=5&mode=live&start=45.3016558) [acceptable. If you go through these steps,](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=5&mode=live&start=46.96832246666668) [it gives you a good way to try to get to](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=5&mode=live&start=49.30165580000003) [the root cause of the problem without just](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=5&mode=live&start=52.90165579999999) [flailing around and guessing, so again,](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=5&mode=live&start=55.30165579999997) [this is the process that I like to use for](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=5&mode=live&start=57.10165579999995) [dealing with SQL Server performance problems.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=5&mode=live&start=64.30165579999999)

[Instance-Level Configuration Queries](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=6&mode=live)

[This course is going to cover](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=6&mode=live&start=1.7271003) [Instance-Level Configuration Queries. This](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=6&mode=live&start=4.393766966666668) [is a set of initial queries to collect](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=6&mode=live&start=6.1021003) [hardware and instance configuration](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=6&mode=live&start=9.1021003)[information about your instance. These can](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=6&mode=live&start=10.6021003) [be run in the context of any database on](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=6&mode=live&start=12.4771003) [the instance, so it doesn't matter if](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=6&mode=live&start=14.7271003) [you're connected to master or one of the](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=6&mode=live&start=16.4771003) [other databases on the instance, they're](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=6&mode=live&start=19.3521003) [not database specific. A very high](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=6&mode=live&start=21.6021003) [percentage of SQL Server instances that I](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=6&mode=live&start=24.0396003) [have seen have instance-level](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=6&mode=live&start=27.1021003) [configuration issues because they weren't](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=6&mode=live&start=28.8521003) [installed properly or configured properly](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=6&mode=live&start=31.06043363333333) [afterwards. Most instance-level](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=6&mode=live&start=33.28265585555555)[configuration issues are actually very](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=6&mode=live&start=34.527100299999994) [easy to correct and my Pluralsight course,](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=6&mode=live&start=36.52710029999999) [SQL Server 2012: Installation and](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=6&mode=live&start=39.32710029999998) [Configuration, covers many of the best](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=6&mode=live&start=41.37415912352942) [practices that you want to use for](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=6&mode=live&start=43.84474735882355) [instance-level configuration. You can find it at this URL.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=6&mode=live&start=46.7271003)

[Summary](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=7&mode=live)

[What have we covered in this introductory](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=7&mode=live&start=2.2733337) [module? Well DMV and DMO queries can help](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=7&mode=live&start=4.9955559222222226) [you detect many configuration performance](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=7&mode=live&start=8.106667033333336) [issues. They can help you get to the root](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=7&mode=live&start=9.940000366666668) [cause of your problem much more quickly](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=7&mode=live&start=12.940000366666673) [than many other methods. They are very](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=7&mode=live&start=15.2733337) [easy to use compared to other diagnostic](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=7&mode=live&start=17.483860015789467) [methods, at least in my opinion. There's](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=7&mode=live&start=19.69438633157893) [no special configuration or setup required](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=7&mode=live&start=22.0968631117647) [to run these queries, you just need VIEW](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=7&mode=live&start=24.56745134705881) [SERVER STATE permission. The DMV and DMO](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=7&mode=live&start=27.861568994117622) [information is not persisted between](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=7&mode=live&start=30.743921935294107) [restarts unless you decide to capture it](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=7&mode=live&start=32.80274546470587) [and write it to a user database so you can look at it long-term.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=7&mode=live&start=36.2733337)

[Course Structure](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=8&mode=live)

[What is the overall course structure for](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=8&mode=live&start=1.6168226) [the rest of this course? Well, Module 1](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=8&mode=live&start=3.4589278631578946) [that we've just gone through was the](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=8&mode=live&start=5.5641910210526335) [introduction, then you're going to have](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=8&mode=live&start=7.816822600000001) [Module 2, which is Instance-Level](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=8&mode=live&start=10.216822600000002) [Configuration Queries Part 1, and then](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=8&mode=live&start=12.216822600000004) [Module 3 will be Instance-Level](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=8&mode=live&start=15.1168226) [Configuration Queries Part 2. The SQL](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=8&mode=live&start=17.6168226) [Server 2014: DMV Diagnostic Queries - Part](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=8&mode=live&start=20.322704952941173) [2 course is going to cover instance-level](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=8&mode=live&start=22.793293188235282) [performance queries and then the SQL](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=8&mode=live&start=25.26388142352939) [Server 2014 DMV Diagnostic Queries - Part](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=8&mode=live&start=27.839044822222213) [3 course will cover the database-level performance queries.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m1-introduction&clip=8&mode=live&start=30.950155933333313)

[Instance-Level Configuration Queries Part 1](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=0&mode=live)

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Instance-Level](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=0&mode=live&start=6.3999999999999995) [Configuration Queries are a set of initial](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=0&mode=live&start=8.5) [queries to collect hardware and](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=0&mode=live&start=12) [instance-level configuration information.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=0&mode=live&start=14.5) [These can be run in the context of any](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=0&mode=live&start=15.555555555555557) [database on the instance, so it doesn't](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=0&mode=live&start=18.055555555555564) [matter what database you're connected to,](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=0&mode=live&start=20) [they're not database specific. A very high](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=0&mode=live&start=22.39999999999999) [percentage of SQL Server instances that](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=0&mode=live&start=25.05882352941176) [I've run across in my career have](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=0&mode=live&start=27.176470588235283) [instance-level configuration issues and](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=0&mode=live&start=29.64705882352939) [most of these instance-level configuration](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=0&mode=live&start=31.071428571428573) [issues are very easy to correct. Quite](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=0&mode=live&start=32.857142857142854)[often you don't even have to restart SQL](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=0&mode=live&start=35.35294117647059) [Server for the change to go into effect.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=0&mode=live&start=38.17647058823528) [Now my Pluralsight course, SQL Server](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=0&mode=live&start=41) [2012: Installation and Configuration,](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=0&mode=live&start=43.571428571428584) [covers the best practice installation](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=0&mode=live&start=45.285714285714306) [configuration settings that you should use](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=0&mode=live&start=47.35294117647059) [for a new installation of SQL Server, and](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=0&mode=live&start=49.47058823529411) [most of those settings are going to be the](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=0&mode=live&start=52.294117647058805) [exact same for SQL Server 2014. That URL you can find that at is right here.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=0&mode=live&start=55.69230769230771)

[Getting the Product Version](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=1&mode=live)

[Getting the product version from SQL](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=1&mode=live&start=1.4) [Server. This query actually just uses a](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=1&mode=live&start=3.8705882352941168) [T-SQL function, @@Version, and the MSDN](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=1&mode=live&start=6.752941176470589) [link for that is right at that URL. Now](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=1&mode=live&start=9.200000000000001) [it's very important to know the exact](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=1&mode=live&start=12.800000000000004) [version, addition, and build information](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=1&mode=live&start=15.600000000000007) [for a SQL Server instance. This is going](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=1&mode=live&start=17.347368421052625) [to give you the major SQL Server version,](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=1&mode=live&start=19.873684210526296) [whether it's SQL Server 2005 or SQL Server](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=1&mode=live&start=22.4) [2014 or any version in between. It's also](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=1&mode=live&start=25.25714285714286) [going to give you the SQL Server Edition](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=1&mode=live&start=27.9) [and you want to know if it's Standard](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=1&mode=live&start=29.9) [Edition or Enterprise Edition or some](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=1&mode=live&start=31.9) [other edition, like Business Intelligence](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=1&mode=live&start=33.65) [Edition, because that's going to have an](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=1&mode=live&start=35.2125) [effect on what product features are](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=1&mode=live&start=37.4) [available in a particular edition. Many](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=1&mode=live&start=40.12727272727272) [interesting and valuable product features](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=1&mode=live&start=42.7125) [are only available on the Enterprise](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=1&mode=live&start=44.275) [Edition, so you really want to know if you](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=1&mode=live&start=46.15) [have Enterprise Edition or not, and there](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=1&mode=live&start=48.78888888888889) [are also different license limits between](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=1&mode=live&start=50.73333333333334) [Standard Edition and Enterprise Edition.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=1&mode=live&start=52.4) [Now you also want to know the SQL Server](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=1&mode=live&start=54.5875) [build number. That's going to tell you the](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=1&mode=live&start=58.525) [release branch that you're on for a](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=1&mode=live&start=60.9) [particular version of SQL Server, so you](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=1&mode=live&start=62.65) [might be on the original RTM, our Release](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=1&mode=live&start=64.4) [to Manufacturing Branch, or you might be](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=1&mode=live&start=66.79999999999998) [on a later service pack, like Service Pack](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=1&mode=live&start=68.89999999999996) [1 or Service Pack 2, and then within each](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=1&mode=live&start=71.44999999999999) [branch you can be on a particular](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=1&mode=live&start=74.59999999999994) [Cumulative Update level, so you could be](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=1&mode=live&start=77.0499999999999) [on RTM CU5 or SP1 CU8, and that's going to](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=1&mode=live&start=79.85454545454544) [tell you some information about how well](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=1&mode=live&start=83.94545454545451) [maintained that that server has been over](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=1&mode=live&start=86.7) [the years, and whether or not perhaps some](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=1&mode=live&start=88.79999999999998) [of the issues that are being reported](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=1&mode=live&start=91.19999999999996) [about this server are for things that have](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=1&mode=live&start=93.3) [been fixed in a subsequent hotfix in a](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=1&mode=live&start=95.69999999999997) [later build than they're running. Now](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=1&mode=live&start=98.09999999999995) [you're finally going to get some Windows](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=1&mode=live&start=100.275) [version information from this query, so](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=1&mode=live&start=102.9) [that's going to tell you whether or not](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=1&mode=live&start=104.92631578947368) [you're running on, for example, Windows](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=1&mode=live&start=107.03157894736836) [Server 2008 or Windows Server 2012, and](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=1&mode=live&start=108.61052631578937) [that's useful information to know when](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=1&mode=live&start=110.9) [you're first gathering some information about this instance.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=1&mode=live&start=113.15)

[Demo: Getting the Product Version](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=2&mode=live)

[In this demonstration I'm going to](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=2&mode=live&start=2.258) [demonstrate Query 1, getting the product](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=2&mode=live&start=3.591333333333334) [version, but before I jump right into that](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=2&mode=live&start=4.924666666666668) [I just want to introduce this entire query](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=2&mode=live&start=7.019904761904762) [set. This is the April 2014 version of the](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=2&mode=live&start=10.067523809523813) [SQL Server 2014 diagnostic information](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=2&mode=live&start=13.496095238095245) [queries. Now by the time you watch this,](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=2&mode=live&start=15.258000000000001) [there'll probably be a newer version of](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=2&mode=live&start=17.924666666666663) [this script, but we're going to use this](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=2&mode=live&start=20.258) [version of script for this course. The](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=2&mode=live&start=22.543714285714277) [first query that I actually run before we](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=2&mode=live&start=24.576181818181816)[run QueryRun is this one that goes and](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=2&mode=live&start=27.121636363636348) [checks to see if you have the correct](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=2&mode=live&start=29.66709090909088) [version of SQL Server for this script, and](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=2&mode=live&start=32.11514285714286) [when you run this you should see the](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=2&mode=live&start=34.400857142857134) [message you see right there, that you have](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=2&mode=live&start=36.68657142857141) [the correct major of SQL Server,](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=2&mode=live&start=38.83694736842106) [otherwise, you don't have the right](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=2&mode=live&start=40.41589473684211) [version of this for your instance of SQL](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=2&mode=live&start=41.99484210526317) [Server. Now QueryRun is right here. It's a](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=2&mode=live&start=45.48876923076922) [SELECT @@SERVERNAME and @@VERSION, so when](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=2&mode=live&start=48.924666666666674) [we run that this shows us the name of my](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=2&mode=live&start=50.92466666666669) [server and then here's all the version](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=2&mode=live&start=54.258000000000045) [information from @@VERSION, and this tells](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=2&mode=live&start=56.94221052631578) [us that we're on SQL Server 2014 and then](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=2&mode=live&start=59.468526315789454)[here's the build number and it's 64 bit](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=2&mode=live&start=63.258) [and the release date of that build and](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=2&mode=live&start=65.43981818181815) [then right here is where you see that it](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=2&mode=live&start=67.62163636363628) [shows Enterprise Edition. If I scroll](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=2&mode=live&start=70.15799999999999) [further to the right you would see what](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=2&mode=live&start=71.95799999999997) [version of the operating system, it's on.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=2&mode=live&start=74.35799999999995) [This tells me that I'm on the exact RTM](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=2&mode=live&start=76.7316842105263) [version that was actually released on](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=2&mode=live&start=80.04747368421047) [April 1, 2014 and now as SQL Server 2014](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=2&mode=live&start=82.258) [has been out in the wild for a longer](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=2&mode=live&start=85.53072727272723) [period there'll be newer builds available,](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=2&mode=live&start=88.80345454545447) [so that's what I always look at when I run](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=2&mode=live&start=90.80345454545453) [this query, is how old is the build that](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=2&mode=live&start=93.53072727272719) [the person is on, and also whether it's](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=2&mode=live&start=95.98527272727259) [Enterprise Edition or Standard Edition, and whether it's 64 bit or not.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=2&mode=live&start=103.258)

[When Was SQL Server Installed?](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=3&mode=live)

[When was SQL Server installed? That's an](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=3&mode=live&start=2.259) [important bit of information you want to](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=3&mode=live&start=3.906058823529412) [collect when you're running these queries.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=3&mode=live&start=5.553117647058824) [Now this query is actually a security](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=3&mode=live&start=7.759) [catalog view, sys. server\_principals, and](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=3&mode=live&start=11.259) [the MSDN link for that is that URL.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=3&mode=live&start=13.759) [Knowing when SQL Server was installed is](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=3&mode=live&start=16.592333333333336) [very valuable information because it gives](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=3&mode=live&start=18.92566666666666) [you a sense for how old the server](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=3&mode=live&start=20.842333333333336) [hardware might be and also gives you an](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=3&mode=live&start=23.17566666666668) [idea of how old the SQL Server instance](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=3&mode=live&start=25.50900000000002) [is. In my experience, older instances that](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=3&mode=live&start=27.925666666666665) [have been around a longer period of time](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=3&mode=live&start=30.25899999999999) [usually have more problems than instances](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=3&mode=live&start=32.92566666666666) [that were installed a short time ago, but](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=3&mode=live&start=35.10110526315791) [just knowing that is a valuable piece of information.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=3&mode=live&start=38.04847368421057)

[Demo: When Was SQL Server Installed?](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=4&mode=live)

[For this demonstration I'm going to run](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=4&mode=live&start=1.727) [the When was SQL Server Installed Query,](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=4&mode=live&start=3.671444444444444) [query number 2, and it's going to give us](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=4&mode=live&start=5.615888888888888) [the SQL Server installation date. If I run](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=4&mode=live&start=8.090636363636364) [this it comes back with the name of the](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=4&mode=live&start=10.27245454545455) [server and then the date and time that SQL](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=4&mode=live&start=12.727) [Server was installed, and again, this is](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=4&mode=live&start=15.569105263157896)[important because it gives you an idea of](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=4&mode=live&start=17.77963157894736) [how old the hardware might be. If it was](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=4&mode=live&start=19.917476190476187) [installed several years ago, you know the](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=4&mode=live&start=22.060333333333322) [hardware is at least that old, and that](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=4&mode=live&start=23.727) [also lets you kind of know how old the](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=4&mode=live&start=25.908818181818187) [instance is, how long it's been running](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=4&mode=live&start=28.363363636363648) [SQL Server because, quite often, you'll](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=4&mode=live&start=30.432882352941174) [have more problems with an instance if](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=4&mode=live&start=32.5505294117647) [it's several years old, as compared to](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=4&mode=live&start=35.02111764705881) [something that was just installed very](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=4&mode=live&start=37.81033333333332) [recently. This is query number 2, checking the SQL Server installation date.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=4&mode=live&start=40.310333333333304)

[Getting Useful Server Properties](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=5&mode=live)

[Getting Useful Server Properties. This](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=5&mode=live&start=1.528) [query is actually a T-SQL metadata](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=5&mode=live&start=4.385142857142856) [function called SERVERPROPERTY and this is](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=5&mode=live&start=7.813714285714283) [the MSDN link for it right there at that](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=5&mode=live&start=10.20981818181818) [URL. Now this is going to return some](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=5&mode=live&start=12.25527272727272) [useful property information about your SQL](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=5&mode=live&start=14.073454545454533) [Server instance because again, we're doing](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=5&mode=live&start=15.861333333333336)[instance-level queries at the beginning of](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=5&mode=live&start=17.86133333333333) [this query set. There's many different](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=5&mode=live&start=19.805777777777777) [properties that you can call with this](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=5&mode=live&start=21.47244444444445) [function by passing a different input](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=5&mode=live&start=23.4168888888889) [parameter. For example, you can get the](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=5&mode=live&start=25.60492307692308) [MachineName, your InstanceName, your](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=5&mode=live&start=29.37415384615386" \t "psplayer) [ComputerNamePhysicalNetBIOS name, the](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=5&mode=live&start=31.528" \t "psplayer)[edition of SQL Server, the ProductVersion,](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=5&mode=live&start=33.37415384615384) [the Collation, whether or not Integrated](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=5&mode=live&start=37.06646153846152) [Security is being used for authentication,](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=5&mode=live&start=40.278) [IsHadrEnabled, which has to do with always](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=5&mode=live&start=42.528" \t "psplayer) [on availability groups, and](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=5&mode=live&start=45.153) [IsXTPSupported, which has to do with](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=5&mode=live&start=47.328" \t "psplayer) [Hekaton. Now let's take a look at a demo of using this query.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=5&mode=live&start=50.92800000000001" \t "psplayer)

[Demo: Getting Useful Server Properties](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=6&mode=live)

[In this demonstration I'm going to show](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=6&mode=live&start=2.396) [you how to pull back the selected server](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=6&mode=live&start=3.951555555555556) [properties using the ServerProperty](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=6&mode=live&start=5.729333333333335) [function that's built-in to T-SQL on SQL](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=6&mode=live&start=6.784888888888889) [Server. When you run this query you can](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=6&mode=live&start=9.507111111111113) [pass in various different properties that](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=6&mode=live&start=12.618222222222228) [you're interested in returning and getting](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=6&mode=live&start=14.934461538461541) [the information from. When I run this it](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=6&mode=live&start=17.242153846153844) [comes back and it shows me things like the](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=6&mode=live&start=19.482956521739123) [name of the machine, the name of the](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=6&mode=live&start=21.439478260869542) [server, which might be different, and the](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=6&mode=live&start=23.178608695652137) [name of the instance, whether or not it's](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=6&mode=live&start=25.290736842105254) [clustered or not, the NetBIOS Name, the](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=6&mode=live&start=27.817052631578925) [edition of SQL Server, which is Enterprise](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=6&mode=live&start=30.17377777777778)[Edition for me, the ProductLevel, which is](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=6&mode=live&start=32.895999999999994) [RTM, the exact ProductVersion, which shows](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=6&mode=live&start=35.618222222222194) [you the build number, the ProcessID that](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=6&mode=live&start=38.04305882352942) [SQL Server is using, the Collation of the](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=6&mode=live&start=40.925411764705906) [instance, whether or not full text is](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=6&mode=live&start=44.06266666666667) [installed, whether or not I'm just only](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=6&mode=live&start=46.39600000000002) [using integrated security, whether or not](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=6&mode=live&start=48.72933333333337) [I was on availability groups are enabled,](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=6&mode=live&start=50.65915789473685) [and also the status of the manager for](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=6&mode=live&start=52.86968421052634) [that, and then finally, a new column for](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=6&mode=live&start=55.396) [SQL Server 2014, IsXTPSupported, and XTP](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=6&mode=live&start=58.951555555555544) [refers to Hekaton or In-Memory OLTP, which is the official name now.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=6&mode=live&start=61.6182222222222)

[Getting SQL Server Agent Job Information](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=7&mode=live)

[Getting SQL Server Agent Job Information.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=7&mode=live&start=1.316) [This query is going to return some](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=7&mode=live&start=3.4336470588235297) [information about your SQL Server Agent](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=7&mode=live&start=5.904235294117646) [Jobs for this instance from the msdb](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=7&mode=live&start=8.225090909090909) [system database. It's going to pull from](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=7&mode=live&start=11.406909090909094) [the sysjobs table and the syscategories](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=7&mode=live&start=14.399333333333331) [table. It's going to return some](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=7&mode=live&start=16.89933333333333) [high-level information about each SQL](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=7&mode=live&start=18.704888888888892) [Server Agent Job you have on this](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=7&mode=live&start=20.093777777777785) [instance, including the name, the](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=7&mode=live&start=22.038222222222235) [description, the job owner, the date the](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=7&mode=live&start=23.915999999999993) [job was created, whether or not the job is](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=7&mode=live&start=26.715999999999983) [enabled or not, and whether or not there's](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=7&mode=live&start=30.316) [an email operator for the job, and then](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=7&mode=live&start=32.715999999999994) [finally, the job category name. I'm a big](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=7&mode=live&start=35.11599999999997) [proponent of having each Agent Job in a](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=7&mode=live&start=37.45885714285714) [category and I like to create categories](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=7&mode=live&start=39.74457142857142) [on my instances so I can organize things](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=7&mode=live&start=41.74457142857141) [more closely. Now we'll take a look at how to run this query.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=7&mode=live&start=48.316)

[Demo: Getting SQL Server Agent Job Information](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=8&mode=live)

[In this demonstration I want to show you](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=8&mode=live&start=1.517) [how to pull back information about your](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=8&mode=live&start=3.517) [SQL Server Agent Jobs on your instance and](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=8&mode=live&start=5.2669999999999995) [what categories they're in. When I run](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=8&mode=live&start=7.471545454545455) [this query it returns back the name of](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=8&mode=live&start=9.698818181818183) [each job on the instance and you can see](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=8&mode=live&start=12.24427272727273) [I'm using the Ola Hallengren Maintenance](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=8&mode=live&start=15.095947368421053)[Solution script that creates a lot of SQL](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=8&mode=live&start=16.99068421052631) [Server Agent Jobs on my instance, so](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=8&mode=live&start=19.517) [that's what this job description set right](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=8&mode=live&start=21.72752631578946) [there, but also this shows you the job](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=8&mode=live&start=23.938052631578923) [description for every job on your](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=8&mode=live&start=26.267) [instance, and then the JobOwner, which](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=8&mode=live&start=27.767) [should be SA rather than an individual](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=8&mode=live&start=29.267) [login or user. It shows when the job was](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=8&mode=live&start=31.183666666666664) [created and whether or not it's enabled or](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=8&mode=live&start=34.183666666666674) [not and whether or not you've got a](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=8&mode=live&start=36.85033333333336) [notify\_email\_operator\_id associated with](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=8&mode=live&start=39.28170588235296" \t "psplayer) [the job, which you really should on a](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=8&mode=live&start=40.16405882352944) [production server, so that way you can](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=8&mode=live&start=42.517) [have a page or an email go out if the job](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=8&mode=live&start=44.96700000000001) [ever fails. Finally, it shows the](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=8&mode=live&start=48.81700000000003)[CategoryName for each job, and I like to](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=8&mode=live&start=50.71699999999999) [have category names for every single job,](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=8&mode=live&start=53.11699999999997) [and you can see this one that's created by](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=8&mode=live&start=55.21699999999995) [SQL Server shows uncategorized local,](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=8&mode=live&start=58.317000000000014) [which is bad, it should be set to](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=8&mode=live&start=60.06700000000002) [something differently, even if you have to](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=8&mode=live&start=62.80271428571429) [do it yourself, but all these other ones](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=8&mode=live&start=64.8027142857143) [are set to be database maintenance, and](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=8&mode=live&start=67.08842857142864) [this is a category I created called,](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=8&mode=live&start=69.18366666666665) [Instance Level Job. Again, knowing about](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=8&mode=live&start=71.51699999999995) [your Agent Jobs and what's in them and](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=8&mode=live&start=73.41699999999999)[what the description is, is very useful to](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=8&mode=live&start=75.81699999999996) [know when you're first looking at a new SQL Server instance.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=8&mode=live&start=78.21699999999994)

[Getting SQL Server Agent Alert Information](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=9&mode=live)

[Getting SQL Server Agent Alert](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=9&mode=live&start=1.694) [Information. SQL Server Agent Alerts are](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=9&mode=live&start=3.569) [different from SQL Server Agent Jobs. This](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=9&mode=live&start=5.819) [query returns information about your SQL](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=9&mode=live&start=8.635176470588235) [Server Agent alerts from the msdb system](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=9&mode=live&start=11.458705882352941) [database from the sysalerts table. SQL](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=9&mode=live&start=14.752823529411765) [Agent Alerts again, are not the same as](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=9&mode=live&start=17.40828571428571) [Agent Jobs. They are actually fired when](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=9&mode=live&start=20.836857142857127) [certain errors or events occur and they](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=9&mode=live&start=23.272947368421043) [normally go to your SQL Server error log,](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=9&mode=live&start=25.483473684210505) [but if you setup an alert you can actually](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=9&mode=live&start=27.979714285714284) [have the alert fire when that things](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=9&mode=live&start=30.551142857142846) [happens, when that error or that event](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=9&mode=live&start=32.55114285714284) [happens, and get an email or a page, which](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=9&mode=live&start=34.476608695652175) [is better than finding it in the error log](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=9&mode=live&start=36.82443478260869) [hours or days later. You can read more](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=9&mode=live&start=39.17226086956521) [about SQL Server Agent Alerts here where I](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=9&mode=live&start=41.52008695652172) [wrote a blog post at this URL and I also](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=9&mode=live&start=43.95486956521735) [have a script there that you can download](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=9&mode=live&start=46.944) [that will let you create a bunch of very](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=9&mode=live&start=48.944) [important Agent Alerts on your instance,](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=9&mode=live&start=51.194) [so it's a really pretty nice thing to take](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=9&mode=live&start=52.944) [a look at. Now this query returns](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=9&mode=live&start=55.7565) [high-level information about your Agent](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=9&mode=live&start=58.34105882352942) [Alerts, including the name of the alert,](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=9&mode=live&start=60.3998823529412) [the Message\_id and severity alert, whether](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=9&mode=live&start=63.28223529411768) [the alert is enabled, and whether it has a](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=9&mode=live&start=66.04694117647058) [notification operator, the delay between](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=9&mode=live&start=70.28223529411763) [notifications in seconds, and then the](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=9&mode=live&start=72.36066666666666) [number of times that that alert has](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=9&mode=live&start=74.36066666666663) [actually fired since the alert has been](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=9&mode=live&start=76.69399999999993) [around, and then the last time that the](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=9&mode=live&start=78.78490909090907) [alert fired in terms of the date and the](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=9&mode=live&start=80.9667272727272) [time. Next we'll take a look at how this](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=9&mode=live&start=83.4212727272726) [query runs and returns results back to you.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=9&mode=live&start=91.694)

[Demo: Getting SQL Server Agent Alert Information](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=10&mode=live)

[In this demonstration I want to show you](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=10&mode=live&start=1.428) [how to pull back information about your](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=10&mode=live&start=3.954315789473685) [SQL Server Agent Alerts. When I run this](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=10&mode=live&start=6.164842105263159) [query it returns the name of each alert on](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=10&mode=live&start=8.51890909090909) [my instance and then it shows me the](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=10&mode=live&start=10.973454545454551) [event\_source, which is SQL Server in this](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=10&mode=live&start=13.155272727272738" \t "psplayer) [case, and then it shows you either the](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=10&mode=live&start=15.428000000000004)[message\_id for certain --- alerts or the](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=10&mode=live&start=18.094666666666665) [severity of the error for other types of](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=10&mode=live&start=20.428) [alerts you can have, and then it shows you](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=10&mode=live&start=22.71371428571428) [whether or not this particular Agent Alert](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=10&mode=live&start=25.28514285714284) [is enabled and whether or not it has a](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=10&mode=live&start=27.261333333333337) [notification operator, which you should](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=10&mode=live&start=29.761333333333344) [have for Agent Alerts, and then the delay](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=10&mode=live&start=31.150222222222236)[between responses, and then the occurrence](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=10&mode=live&start=33.76133333333335) [count, that shows you how many times this](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=10&mode=live&start=35.76133333333336) [alert has fired since it's been created,](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=10&mode=live&start=38.533263157894744) [and then the last occurrence date and the](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=10&mode=live&start=41.11221052631582) [last occurrence time, and I've got a link](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=10&mode=live&start=44.05957894736848) [to a blog post that I wrote that explains](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=10&mode=live&start=46.973454545454565) [this in even more detail and there's a](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=10&mode=live&start=50.24618181818187) [link on that blog post that lets you](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=10&mode=live&start=52.95431578947368) [download a script that will automatically](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=10&mode=live&start=55.05957894736842) [create all these alerts for you and it](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=10&mode=live&start=56.63852631578948) [will pick up your Server Name as it does](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=10&mode=live&start=58.73234782608695) [it, and you really should run this script](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=10&mode=live&start=61.08017391304347) [on all of your instances, if you haven't](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=10&mode=live&start=63.16713043478259) [done this yourself, manually all ready.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=10&mode=live&start=66.1203076923077) [These alerts are really important](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=10&mode=live&start=68.428) [information to have and you want to find](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=10&mode=live&start=69.81688888888885) [out about these errors sooner rather than later.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=10&mode=live&start=72.03911111111103)

[Global Trace Flag Information](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=11&mode=live)

[Global Trace Flag Information. This query](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=11&mode=live&start=1.696) [is actually a DBCC command. It's](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=11&mode=live&start=4.423272727272727) [DBCCTRACESTATUS with a -1 inside of](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=11&mode=live&start=7.107764705882353) [parentheses, which just means it's going](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=11&mode=live&start=9.578352941176473) [to return only global trace flags as](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=11&mode=live&start=12.048941176470592) [opposed to local trace flags in your](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=11&mode=live&start=14.945999999999998) [current connection. The MSDN link for this](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=11&mode=live&start=17.86266666666667) [command is at that URL. Now knowing which](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=11&mode=live&start=20.44600000000001) [global trace flags are enabled is very](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=11&mode=live&start=23.24600000000002) [useful when you're looking at an instance.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=11&mode=live&start=25.696) [It helps you detect some third-party and](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=11&mode=live&start=27.8835)[other Microsoft applications that might be](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=11&mode=live&start=30.071) [running on the instance because they'll](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=11&mode=live&start=32.12457142857143) [set certain trace flags. It also helps you](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=11&mode=live&start=34.26742857142855) [determine whether or not the instance](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=11&mode=live&start=36.95915789473685) [might be operating in an unusual fashion](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=11&mode=live&start=38.85389473684212) [due to certain trace flags that are](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=11&mode=live&start=41.06442105263161) [running on the instance. Now the Books](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=11&mode=live&start=43.16658823529413) [Online Trace Flag Reference that documents](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=11&mode=live&start=45.22541176470591) [many, but not all trace flags, is at this](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=11&mode=live&start=47.096) [URL. Now there's two common trace flags](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=11&mode=live&start=50.695999999999984) [that are usually a good idea to enable on](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=11&mode=live&start=53.495999999999974) [all SQL Server instances, at least in my](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=11&mode=live&start=56.69600000000001) [opinion. The first one is trace flag 3226,](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=11&mode=live&start=59.3626666666667) [which suppresses the logging of successful](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=11&mode=live&start=62.8071111111111) [database backup messages to the SQL Server](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=11&mode=live&start=65.47377777777776) [error log. You'll still get a message for](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=11&mode=live&start=68.25155555555554) [unsuccessful backups, but you won't have](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=11&mode=live&start=70.47377777777771) [all those successful backup messages just](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=11&mode=live&start=72.14044444444434) [polluting your error log with less than](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=11&mode=live&start=74.446) [useful information, and then trace flag](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=11&mode=live&start=77.5085) [1118 just helps reduce allocation](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=11&mode=live&start=80.096) [contention in tempdp and it's a good idea](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=11&mode=live&start=82.09600000000003) [to have that turned on also, although it's](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=11&mode=live&start=85.29600000000008) [less of a problem with newer versions of](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=11&mode=live&start=89.696) [SQL Server compared to older versions of SQL Server.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=11&mode=live&start=97.696)

[Demo: Global Trace Flag Information](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=12&mode=live)

[In this demonstration I want to show you](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=12&mode=live&start=2.03) [how to get information about all your](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=12&mode=live&start=4.029999999999999) [global trace flags that are running on](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=12&mode=live&start=5.779999999999999) [your instance. If you just run DBCCT](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=12&mode=live&start=7.63) [TRACESTATUS with a -1 like this, it'll](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=12&mode=live&start=9.730000000000004) [show you all your trace flags and whether](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=12&mode=live&start=11.830000000000009) [or not they're enabled or not, and whether](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=12&mode=live&start=14.363333333333335) [or not they're a global trace flag or just](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=12&mode=live&start=17.03) [a session of local trace flag. Again, this](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=12&mode=live&start=20.03) [is good information to know about your](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=12&mode=live&start=22.556315789473672) [instance, it'll help you identify when](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=12&mode=live&start=24.766842105263134) [certain applications are running, and](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=12&mode=live&start=26.78) [certain trace flags are going to cause](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=12&mode=live&start=28.655) [very different behavior with SQL Server,](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=12&mode=live&start=31.28) [so knowing what trace flags are running is](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=12&mode=live&start=33.74428571428572) [very important. Again, running trace flag](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=12&mode=live&start=37.17285714285717) [3226 is a really good idea, I think that](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=12&mode=live&start=39.22999999999999) [should be running on all instances of SQL](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=12&mode=live&start=41.929999999999964) [Server, and trace flag 1118 is also a good](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=12&mode=live&start=44.334347826086955) [idea and I have explained those, both of these, in here in the comments.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=12&mode=live&start=47.073478260869535)

[Getting Information About Windows](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=13&mode=live)

[Getting Information About Windows. This is](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=13&mode=live&start=2.161) [actually a DMV query that was added in SQL](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=13&mode=live&start=4.371526315789473) [Server 2008 R2 service pack 1 that returns](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=13&mode=live&start=7.687315789473682) [some high level information about Windows](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=13&mode=live&start=10.494333333333335) [that you're running SQL Server on, on this](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=13&mode=live&start=12.494333333333339) [particular instance. It's sys.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=13&mode=live&start=15.161) [dm\_os\_windows\_info, is the actual DMV](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=13&mode=live&start=16.911" \t "psplayer)[we're looking at here, and here's the MSDN](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=13&mode=live&start=19.0985) [link that gives you more information about](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=13&mode=live&start=22.572764705882353) [that. It returns the major operating](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=13&mode=live&start=25.455117647058813) [system version, the service pack, the](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=13&mode=live&start=27.925705882352922) [stock keeping unit or SKU, and then the](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=13&mode=live&start=30.4735) [language of your Windows installation.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=13&mode=live&start=33.9735) [Then we're going to look and see how we](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=13&mode=live&start=36.161)[actually run this query and what information it tells us next.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=13&mode=live&start=45.161)

[Demo: Getting Information About Windows](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=14&mode=live)

[In this demonstration I want to show you](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=14&mode=live&start=1.895) [how to pull back some basic information](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=14&mode=live&start=3.579210526315788) [about Windows that you're running this](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=14&mode=live&start=5.052894736842102) [instance of SQL Server on. When I run this](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=14&mode=live&start=6.836176470588235) [query it returns the windows\_release, the](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=14&mode=live&start=11.071470588235295) [windows\_service\_pack\_level, the](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=14&mode=live&start=13.895" \t "psplayer) [windows\_sku or stock keeping unit, and](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=14&mode=live&start=15.167727272727273" \t "psplayer) [then the os\_language\_version.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=14&mode=live&start=18.985909090909093) [Unfortunately, it's not always easy to](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=14&mode=live&start=20.895) [code all this information, so I've got](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=14&mode=live&start=22.894999999999992) [some information right here in the query](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=14&mode=live&start=25.228333333333318) [that helps you do that a little bit](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=14&mode=live&start=27.41673913043478) [easier. If you see 6. 1, for example, that](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=14&mode=live&start=29.503695652173906) [tells you that it's either Windows 7 or](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=14&mode=live&start=31.851521739130423) [Windows Server 2008 R2 and unfortunately,](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=14&mode=live&start=34.450555555555546) [it can't tell the difference between the](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=14&mode=live&start=36.78388888888886) [two. There was actually a bug in this DMV](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=14&mode=live&start=39.50611111111106) [that was recently fixed in SQL Server 2012](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=14&mode=live&start=43.167727272727255) [Service Pack 1 CU9 where if you don't have](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=14&mode=live&start=46.44045454545451) [at least that build or newer it would](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=14&mode=live&start=49.75214285714286) [return on the wrong information if you](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=14&mode=live&start=52.037857142857135) [were running on Windows 8. 1 or Windows](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=14&mode=live&start=54.03785714285713)[Server 2012 R2, so that probably won't](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=14&mode=live&start=56.485909090909104) [effect to too many people, I just wanted](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=14&mode=live&start=58.713181818181845) [you to make sure you were aware of that,](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=14&mode=live&start=61.258636363636406) [and then it's going to show you whether or](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=14&mode=live&start=63.645) [not the OS is on a service pack or not, in](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=14&mode=live&start=65.895) [that case I'm running Windows 7 with](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=14&mode=live&start=69.03785714285713) [Service Pack 1, and then the SKU, 4 is](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=14&mode=live&start=71.70452380952379)[Enterprise Edition, and 48 is Professional](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=14&mode=live&start=75.13309523809521) [Edition, so I'm running Windows 7](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=14&mode=live&start=77.22833333333331) [Enterprise Edition on my workstation right](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=14&mode=live&start=79.22833333333328) [here, and then os\_language\_version 1033 is](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=14&mode=live&start=81.22833333333325) [U. S. English. If you're running a](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=14&mode=live&start=83.77735294117646) [different language, you're going to have a](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=14&mode=live&start=87.07147058823527) [different number here for that, so again,](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=14&mode=live&start=90.26342105263157)[this is very useful information that helps](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=14&mode=live&start=92.8423684210526) [you understand, at a high level at least,](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=14&mode=live&start=95.42131578947362) [more about Windows that you're running SQL Server on.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=14&mode=live&start=100.895)

[SQL Server Services Information](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=15&mode=live)

[SQL Server Services Information. This is a](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=15&mode=live&start=1.563) [DMV query that was also added in SQL](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=15&mode=live&start=4.3629999999999995) [Server 2008 R2 SP1 that returns some](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=15&mode=live&start=7.563000000000002) [information about your SQL Server services](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=15&mode=live&start=10.420142857142858) [that are running on this instance. It's](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=15&mode=live&start=12.991571428571431) [pulling this information from sys.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=15&mode=live&start=16.0005) [dm\_server\_services and the MSDN link that](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=15&mode=live&start=18.188" \t "psplayer) [gives you more information about this DMV](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=15&mode=live&start=20.813) [is at that URL. Now I'm just going to give](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=15&mode=live&start=23.562999999999995) [you some information about the service](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=15&mode=live&start=26.896333333333317) [name, the process ID, the startup type](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=15&mode=live&start=28.89633333333331) [description, whether it's automatic or](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=15&mode=live&start=31.7505) [manual, for example, the current service](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=15&mode=live&start=33.938) [status, the last time that it started up,](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=15&mode=live&start=36.563) [and whether or not the service is](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=15&mode=live&start=38.96299999999998) [clustered, and what node the service is](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=15&mode=live&start=41.06299999999996) [running on. Next we'll take a look at how](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=15&mode=live&start=44.563) [to run this query and how to interpret the results.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=15&mode=live&start=53.563)

[Demo: SQL Server Services Information](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=16&mode=live)

[In this demonstration I'm going to show](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=16&mode=live&start=1.759) [you how to return some information about](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=16&mode=live&start=3.2326842105263145) [the SQL Server services that are running](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=16&mode=live&start=4.706368421052629) [on your instance. When I run this query](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=16&mode=live&start=6.425666666666666) [it's going to show me the name of each SQL](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=16&mode=live&start=9.092333333333334) [Server related service that's running on](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=16&mode=live&start=12.425666666666674) [the instance. It's going to show me the](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=16&mode=live&start=14.42566666666667)[process\_id, the startup\_type\_description,](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=16&mode=live&start=17.092333333333336) [which can be automatic or manual, and then](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=16&mode=live&start=18.134) [the current status, which is running for](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=16&mode=live&start=21.134) [both of these services, and then it shows](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=16&mode=live&start=23.759) [you a last\_startup\_time and that's really](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=16&mode=live&start=25.98122222222223) [important because I want to know, has this](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=16&mode=live&start=27.6478888888889) [instance been running for a few hours or a](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=16&mode=live&start=29.959000000000003) [few days or a couple of months? That has a](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=16&mode=live&start=32.659) [lot of effect on some of the queries](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=16&mode=live&start=35.509) [you'll see later on in this complete query](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=16&mode=live&start=37.509) [set. It also shows you what account the](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=16&mode=live&start=39.509) [service is using and whether or not the](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=16&mode=live&start=41.75899999999999) [service is clustered or not and the](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=16&mode=live&start=44.04471428571427) [current cluster\_nodename and then finally,](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=16&mode=live&start=46.170764705882355)[it shows you where that service is located](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=16&mode=live&start=48.22958823529413) [in your file system, which is more](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=16&mode=live&start=51.52370588235297) [important, typically, when you're running](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=16&mode=live&start=53.70017647058823) [a clustered instance as opposed to a stand](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=16&mode=live&start=54.87664705882352) [alone instance, so again, I want to know](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=16&mode=live&start=56.759) [this information. How I got the SQL Server](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=16&mode=live&start=59.15899999999998) [engine running and the SQL Server Agent](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=16&mode=live&start=61.558999999999955)[running and how they're running and when they were last started.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=16&mode=live&start=65.759)

[SQL Server NUMA Node Information](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=17&mode=live)

[SQL Server NUMA Node Information. This DMV](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=17&mode=live&start=2.286) [query gives you some basic information](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=17&mode=live&start=4.756588235294117) [about your NUMA nodes. NUMA stands for](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=17&mode=live&start=6.874235294117645) [non-uniform memory access. We're pulling](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=17&mode=live&start=9.786) [from sys. dm\_os\_nodes that gives](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=17&mode=live&start=12.286) [information and the MSDN link for that is](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=17&mode=live&start=14.786) [that URL. This is going to let you](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=17&mode=live&start=17.876909090909084)[determine how many NUMA nodes are visible](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=17&mode=live&start=20.422363636363617) [to the instance and this is useful for](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=17&mode=live&start=22.649636363636333) [both physical machines and virtual](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=17&mode=live&start=25.78600000000001) [machines. The physical machine that](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=17&mode=live&start=27.869333333333348) [doesn't have any virtualization involved,](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=17&mode=live&start=29.61933333333333) [typically, you're going to have one NUMA](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=17&mode=live&start=31.28599999999999) [node for each physical processor in the](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=17&mode=live&start=33.67488888888889) [machine, each socket, and with virtual](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=17&mode=live&start=36.39711111111109) [machines there's lots of different ways](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=17&mode=live&start=38.7304444444444) [that your NUMA nodes can be setup, so](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=17&mode=live&start=40.812315789473686) [running this query will help you figure](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=17&mode=live&start=42.917578947368426)[that out. It's going to let you see how](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=17&mode=live&start=44.75968421052632) [many schedulers are available per NUMA](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=17&mode=live&start=47.49652631578949) [node and how hard they're working, relatively speaking.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=17&mode=live&start=49.39126315789476)

[Demo: SQL Server NUMA Node Information](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=18&mode=live)

[In this demonstration I want to show you](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=18&mode=live&start=1.441) [how to get some NUMA node information](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=18&mode=live&start=3.5462631578947366) [about your hardware that you're running](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=18&mode=live&start=5.3883684210526335) [SQL Server on, whether it's physical](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=18&mode=live&start=7.264529411764706) [hardware or virtualized hardware, and I](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=18&mode=live&start=9.735117647058825) [run this query, it gives me back the](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=18&mode=live&start=12.205705882352945) [node\_id and then the node state](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=18&mode=live&start=14.941000000000004" \t "psplayer) [description, which is online in my case,](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=18&mode=live&start=16.741000000000007) [and the memory\_node\_id and the](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=18&mode=live&start=18.84100000000001) [processor\_group. Now, normally you're](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=18&mode=live&start=20.676294117647053" \t "psplayer) [going to get one row for each socket in](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=18&mode=live&start=22.32335294117646) [your server, unless it's a really old](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=18&mode=live&start=26.029235294117623) [server that's using SNP instead of NUMA.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=18&mode=live&start=29.21023076923078) [In my case, I'm just running on a](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=18&mode=live&start=32.441) [workstation with one processor, which is](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=18&mode=live&start=34.34576190476193)[why I only have one row here. Then,](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=18&mode=live&start=35.774333333333374) [continuing on at the columns, the](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=18&mode=live&start=37.91158823529412) [online\_scheduler\_count, I've got 8 logical](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=18&mode=live&start=40.735117647058814" \t "psplayer) [CPUs in my machine, so that's why I see](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=18&mode=live&start=43.088058823529394) [online\_scheduler\_count equals 8, and then](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=18&mode=live&start=46.97946153846155" \t "psplayer) [the active\_worker\_count and the](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=18&mode=live&start=48.902538461538484) [average\_load\_balance are a way of](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=18&mode=live&start=50.441" \t "psplayer) [measuring how hard each NUMA node is](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=18&mode=live&start=52.49982352941178) [working from a processor perspective and](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=18&mode=live&start=55.38217647058826) [then finally, the resource\_monitor\_state 1](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=18&mode=live&start=57.85276470588236) [means that a resource monitor is running](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=18&mode=live&start=59.91158823529413)[for this NUMA node. Again, this is useful](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=18&mode=live&start=62.79394117647062) [to know whether you're running on pure](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=18&mode=live&start=66.191) [physical hardware or virtualized hardware](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=18&mode=live&start=69.2535) [because the number of NUMA nodes that you](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=18&mode=live&start=71.441) [have can be different in those scenarios, especially virtualized hardware.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=18&mode=live&start=79.441)

[Getting Hardware Information](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=19&mode=live)

[Getting hardware information from SQL](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=19&mode=live&start=1.709) [Server. This is a very handy DMV for](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=19&mode=live&start=3.287947368421053) [getting quite a bit of useful hardware](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=19&mode=live&start=5.814263157894738) [information, especially if you don't have](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=19&mode=live&start=8.120764705882353) [a physical access or RDP access to your](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=19&mode=live&start=10.591352941176472) [actual database server. It's pulling](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=19&mode=live&start=13.885470588235298) [information from sys. dm\_os\_sys\_info and](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=19&mode=live&start=15.875666666666667) [he MSDN link where you can read more about](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=19&mode=live&start=17.820111111111114) [that DMV is at that URL. Now this is going](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=19&mode=live&start=21.320111111111117) [to give you your CPU socket count and your](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=19&mode=live&start=24.98172727272727) [total number of logical processors.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=19&mode=live&start=28.25445454545454) [Unfortunately, it cannot tell the](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=19&mode=live&start=30.108999999999998) [difference between physical and logical](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=19&mode=live&start=32.108999999999995) [core, so you're going to find out your](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=19&mode=live&start=34.10899999999999) [total logical core count from this query.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=19&mode=live&start=36.7999090909091) [It also tells you how much physical RAM is](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=19&mode=live&start=38.70900000000001) [in the server and it tells you the last](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=19&mode=live&start=41.16354545454547) [SQL Server start time, which is really](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=19&mode=live&start=44.28794736842108) [important information to know for some of](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=19&mode=live&start=46.866894736842156) [the queries later on in this query set. It](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=19&mode=live&start=49.309) [also shows you the virtual machine type](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=19&mode=live&start=52.00899999999997) [description, but that can be deceiving](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=19&mode=live&start=54.10899999999995) [because it'll show a HYPERVISOR if you](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=19&mode=live&start=56.12076470588235) [have Hyper-Variable running on your](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=19&mode=live&start=58.59135294117646) [machine, even if your SQL Server instance](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=19&mode=live&start=60.356058823529395) [is not virtualized, so it's kind of](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=19&mode=live&start=62.9195263157895) [confusing, and the Books Online subject](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=19&mode=live&start=65.49847368421054) [about this is also a little confusing, so](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=19&mode=live&start=67.709) [just be aware that if you see HYPERVISOR](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=19&mode=live&start=70.37566666666663)[in this query it doesn't mean necessarily](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=19&mode=live&start=73.04233333333326) [that you're running inside of a VM, it](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=19&mode=live&start=75.40899999999999) [just means that a HYPERVISOR is running on your host that you're running on.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=19&mode=live&start=78.20899999999995)

[Demo: Getting Hardware Information](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=20&mode=live)

[In this demonstration I'm going to show](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=20&mode=live&start=1.492) [you how to get some useful hardware](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=20&mode=live&start=3.4364444444444437) [information from SQL Server. A lot of DBAs](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=20&mode=live&start=5.3808888888888875) [don't have the luxury of RDP access or](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=20&mode=live&start=7.7551578947368425) [physical access to their actual database](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=20&mode=live&start=10.281473684210527) [servers. This query will give you quite a](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=20&mode=live&start=12.17621052631579) [bit of good information just from a T-SQL](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=20&mode=live&start=14.6795) [query. When I run this query it tells me](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=20&mode=live&start=17.1795) [that I've got 8 logical CPUs and my](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=20&mode=live&start=20.158666666666658) [scheduler\_count is 8, and my Hyperthread](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=20&mode=live&start=22.825333333333315" \t "psplayer) [Ratio is 8 and unfortunately, between all](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=20&mode=live&start=24.844941176470588) [three of these you can't really tell](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=20&mode=live&start=27.315529411764697) [whether you're dealing with hyperthreading](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=20&mode=live&start=29.786117647058806) [or actual physical cores or some](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=20&mode=live&start=31.87661538461538) [combination of the two. It's a little bit](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=20&mode=live&start=34.64584615384614) [confusing there and then it tells me my](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=20&mode=live&start=37.53547826086956) [Physical CPU Count is 1, so I've got 1 CPU](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=20&mode=live&start=39.622434782608686) [socket in my machine. Next, I find out](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=20&mode=live&start=42.23113043478259) [that I've got 32 GB of RAM in my](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=20&mode=live&start=44.82533333333335) [workstation and it shows me how much of](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=20&mode=live&start=47.82533333333337) [that is committed right there and what my](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=20&mode=live&start=50.492) [committed target is, and then my Max CPU](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=20&mode=live&start=53.29200000000001) [Worker Count, and my processor affinity,](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=20&mode=live&start=56.09200000000002) [which is set to auto, and then finally, I](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=20&mode=live&start=58.09199999999999) [see my SQL Server start time for the](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=20&mode=live&start=60.791999999999966) [database engine was on April 18, so that's](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=20&mode=live&start=63.19199999999994) [useful to know, and know has SQL had been](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=20&mode=live&start=65.8253333333333) [running for just a few hours or a few days](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=20&mode=live&start=68.82533333333326) [or several months? That's really important](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=20&mode=live&start=72.01831578947368) [for some of the later queries in this](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=20&mode=live&start=73.59726315789469) [query set, and then Virtual Machine Type](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=20&mode=live&start=75.70252631578937) [is NONE for me, but where this can be](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=20&mode=live&start=77.692) [deceiving is sometimes it'll come back and](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=20&mode=live&start=80.39199999999997) [say HYPERVISOR and that does not](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=20&mode=live&start=82.492) [necessarily mean that you're running your](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=20&mode=live&start=84.49199999999998) [SQL Server instance inside of a VM, what](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=20&mode=live&start=86.49199999999995) [it actually means is that you've got a](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=20&mode=live&start=89.25390476190476) [HYPERVISOR running on the host, so you](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=20&mode=live&start=92.3015238095238) [could be running a non-virtualized](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=20&mode=live&start=94.96819047619046) [instance of SQL Server on a host that also](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=20&mode=live&start=96.76977777777778) [has a HYPERVISOR running, so don't be confused about that.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=20&mode=live&start=99.26977777777772)

[Getting the Server Model Number](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=21&mode=live)

[Getting the server, manufacturer, and](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=21&mode=live&start=2.093) [model number. This query uses the extended](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=21&mode=live&start=3.878714285714286) [store procedure, xp\_readerrorlog to look](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=21&mode=live&start=6.378714285714284) [for the manufacturer and model number of](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=21&mode=live&start=8.0305) [the server you're actually running SQL](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=21&mode=live&start=10.218) [Server on. It usually returns the model](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=21&mode=live&start=12.093) [number of the server along with the](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=21&mode=live&start=14.426333333333337)[manufacturer. This query might take a](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=21&mode=live&start=16.75966666666667) [little bit of time to run if your SQL](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=21&mode=live&start=18.229363636363633) [Server error log is really very large](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=21&mode=live&start=20.274818181818173) [because it takes longer to parse through a](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=21&mode=live&start=21.86572727272726) [large error log. Now the first parameter](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=21&mode=live&start=24.426333333333325) [in this query is the error log you](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=21&mode=live&start=26.75966666666665) [actually want to read from, so a value of](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=21&mode=live&start=29.365727272727273) [0 is the most recent error log, and that's](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=21&mode=live&start=31.820272727272734) [usually what you want to do for this](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=21&mode=live&start=34.27481818181819) [particular query. The second parameter is](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=21&mode=live&start=36.75966666666668) [the error log type, 1 is the SQL Server](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=21&mode=live&start=38.759666666666696) [error log, and 2 is the SQL Server Agent](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=21&mode=live&start=41.75966666666672) [error log. Now knowing the server](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=21&mode=live&start=44.49299999999998) [manufacturer and model number is very](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=21&mode=live&start=46.292999999999964) [useful because it helps you determine the](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=21&mode=live&start=48.093) [age and capabilities of the server in](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=21&mode=live&start=50.192999999999984) [terms of how many sockets it has, how much](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=21&mode=live&start=52.292999999999964) [memory it can hold, how many PCI-E slots](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=21&mode=live&start=55.006043478260864) [it has, etc., so once you know that, then](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=21&mode=live&start=57.44082608695649) [you can go look on the internet and find](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=21&mode=live&start=60.17995652173907) [out the exact specifications for that](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=21&mode=live&start=63.09300000000002) [particular brand and model of server, which is very useful.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=21&mode=live&start=65.093)

[Demo: Getting the Server Model Number](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=22&mode=live)

[In this demonstration I'm going to show](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=22&mode=live&start=1.32) [you how to get the system, manufacturer,](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=22&mode=live&start=3.1621052631578945) [and model number by running](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=22&mode=live&start=5.0042105263157906) [xp\_readerrorlog. When I run this with a](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=22&mode=live&start=6.32" \t "psplayer) [parameter of 0, that's the most recent](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=22&mode=live&start=8.653333333333332) [error log, and then 1 means I want the SQL](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=22&mode=live&start=10.98666666666667) [Server error log as opposed to the SQL](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=22&mode=live&start=14.320000000000002) [Server Agent error log. When I run this it](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=22&mode=live&start=16.986666666666668) [comes back and shows me the date of the](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=22&mode=live&start=19.519999999999992) [error log and then over here it shows me](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=22&mode=live&start=21.67999999999998) [the text and since my workstation, I](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=22&mode=live&start=23.839999999999964) [actually built it from parts, it's a write](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=22&mode=live&start=25.820000000000004) [box system, I'm not getting back a](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=22&mode=live&start=28.22000000000001) [manufacturer and model number, but \_\_\_any](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=22&mode=live&start=30.32) [actual system that came from a regular](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=22&mode=live&start=32.65333333333333) [vendor like Dell or HP, for example, it'll](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=22&mode=live&start=35.37555555555553) [show you the manufacturer and the model](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=22&mode=live&start=38.32000000000001) [number of your server, which again, is](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=22&mode=live&start=40.65333333333336) [useful information because then you can](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=22&mode=live&start=42.98666666666671) [figure out how many sockets it has, and](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=22&mode=live&start=44.89894736842106) [what its memory capacity is, and how many](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=22&mode=live&start=47.42526315789476) [PCI-E slots it has, for example. Again,](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=22&mode=live&start=49.92869565217391) [you want to know that as a DBA and if you](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=22&mode=live&start=52.05913043478258) [don't have RDP access, this is one way of figuring that out.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=22&mode=live&start=55.40695652173907)

[Getting the Processor Description](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=23&mode=live)

[Getting the Processor Description. This](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=23&mode=live&start=1.577) [query actually uses xp\_instance\_regread to](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=23&mode=live&start=4.269307692307692) [get the processor description from the](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=23&mode=live&start=6.961615384615383) [Windows registry. This is actually sort of](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=23&mode=live&start=9.459352941176473) [a cumbersome way to get this information,](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=23&mode=live&start=11.518176470588243) [it's sort of a hack in my opinion. It](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=23&mode=live&start=13.577) [would be much better if sys.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=23&mode=live&start=17.00557142857143) [dm\_os\_sys\_info had this info, and I](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=23&mode=live&start=19.291285714285706" \t "psplayer) [actually wrote a connect item to try to](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=23&mode=live&start=21.577) [get Microsoft to add that, but they chose](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=23&mode=live&start=23.577) [not to do that. Anyways, this usually](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=23&mode=live&start=25.577) [gives you the manufacturer and model](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=23&mode=live&start=27.74366666666667) [number of your processor along with the](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=23&mode=live&start=30.077000000000005) [rated base clock speed. It does not tell](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=23&mode=live&start=32.79922222222222) [you the current clock speed of your](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=23&mode=live&start=35.37699999999998)[processor, and you cannot use this to](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=23&mode=live&start=37.47699999999996) [determine whether power management is in](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=23&mode=live&start=39.577) [effect or not, but at least now after you](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=23&mode=live&start=41.15594736842105) [run this query, you'll know the exact](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=23&mode=live&start=43.524368421052635) [model number and the rated base clock](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=23&mode=live&start=45.682263157894745) [speed of your processor, which is still very useful information to know.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=23&mode=live&start=48.26121052631582)

[Demo: Getting the Processor Description](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=24&mode=live)

[In this demonstration I want to show to](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=24&mode=live&start=1.778) [you how to run xp\_instance\_regread to get](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=24&mode=live&start=4.444666666666667) [the processor description from the Windows](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=24&mode=live&start=6.777999999999999) [registry. When you run this query it comes](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=24&mode=live&start=9.013294117647058) [back and says ProcessorNameString and then](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=24&mode=live&start=12.307411764705884) [data, and that shows me, in my case, I've](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=24&mode=live&start=14.778) [got an intel core i73770K, which has a](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=24&mode=live&start=18.459818181818186) [rated base clock speed of 3. 5 GHz. Again,](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=24&mode=live&start=21.732545454545466) [this is not going to tell me the current](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=24&mode=live&start=24.995391304347827) [clock speed that it's running at, so I](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=24&mode=live&start=27.73452173913044) [can't tell whether or not power management](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=24&mode=live&start=30.169304347826095) [is in effect or if turbo boost is enabled,](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=24&mode=live&start=32.20657142857142) [you really need to do some things to check](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=24&mode=live&start=34.777999999999984) [that, such as running CPUZ, but at least I](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=24&mode=live&start=37.37799999999999) [know what my current processor is, which](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=24&mode=live&start=40.07799999999997) [is really valuable for performance and](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=24&mode=live&start=42.17799999999995) [scalability reasons, and also for](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=24&mode=live&start=46.778) [licensing reasons with SQL Server 2012 and newer.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=24&mode=live&start=51.778)

[Summary and What is Next](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=25&mode=live)

[What have we covered in this module? DMV](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=25&mode=live&start=1.952) [and DMO queries can help you detect most](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=25&mode=live&start=4.89936842105263) [configuration issues with SQL Server. They](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=25&mode=live&start=7.84673684210526) [can help you find instance-level settings](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=25&mode=live&start=10.105846153846155) [that may be incorrect. They can also help](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=25&mode=live&start=12.413538461538465) [you determine what kind of hardware you're](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=25&mode=live&start=15.00463157894737) [using, how old it is, what its](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=25&mode=live&start=16.846736842105265)[capabilities are, and things of that](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=25&mode=live&start=18.688842105263163) [nature, so again, these instance-level](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=25&mode=live&start=21.1395) [configuration queries are very useful when](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=25&mode=live&start=23.327) [you're looking at an unfamiliar server to](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=25&mode=live&start=25.952) [see what kind of hardware you have and how](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=25&mode=live&start=28.285333333333327) [it's configured. What is next? The next](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=25&mode=live&start=31.285333333333316) [module's going to cover Instance-Level](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=25&mode=live&start=33.896444444444434)[Configuration Queries Part 2 and it's](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=25&mode=live&start=35.84088888888886) [going to go into more detail about some of](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=25&mode=live&start=38.17422222222218) [the other parts of your configuration,](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=25&mode=live&start=40.702) [such as the SQL Server error log](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=25&mode=live&start=42.202) [properties, the cluster properties, the](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=25&mode=live&start=43.952) [current cluster node, the AlwaysOn](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=25&mode=live&start=46.6443076923077) [availability group cluster information,](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=25&mode=live&start=49.3366153846154) [your instance configuration information,](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=25&mode=live&start=51.49046153846154) [which is really important, your Buffer](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=25&mode=live&start=53.6443076923077) [Pool Extension information, whether or not](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=25&mode=live&start=56.87507692307694) [it's configured and where the BPE file](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=25&mode=live&start=59.59905882352942)[lives, your BPE usage information, your](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=25&mode=live&start=62.4814117647059) [TCP listener states, your memory dump](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=25&mode=live&start=64.952) [information, and then your database](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=25&mode=live&start=67.952) [filenames and paths and your volume information.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m2-instance-config1&clip=25&mode=live&start=70.452)

[Instance-Level Configuration Queries Part 2](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=0&mode=live)

[Introduction](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=0&mode=live)

[Instance-Level Configuration Queries Part](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=0&mode=live&start=0) [2. Instance-level configuration queries](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=0&mode=live&start=4) [are a set to initial queries to collect](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=0&mode=live&start=6.2857142857142865) [hardware and instance configuration](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=0&mode=live&start=9.714285714285717) [information. These can be run in the](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=0&mode=live&start=11.277777777777779) [context of any database on your instance,](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=0&mode=live&start=13.222222222222229) [so it doesn't matter what database you're](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=0&mode=live&start=15.166666666666679) [connected to when you run these queries,](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=0&mode=live&start=17.599999999999994) [they're not database specific. A very high](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=0&mode=live&start=20.399999999999984) [percentage of SQL Server instances that I](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=0&mode=live&start=22.882352941176467) [have ever looked at have instance-level](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=0&mode=live&start=24.941176470588225) [configuration issues and most of these are](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=0&mode=live&start=26.70588235294116) [pretty easy to correct. Sometimes you](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=0&mode=live&start=28.800000000000004) [don't even have to restart SQL Server for](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=0&mode=live&start=30.60000000000001) [the change to go into effect. Now, my](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=0&mode=live&start=33) [Pluralsight course, SQL Server 2012:](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=0&mode=live&start=36.5" \t "psplayer) [Installation and Configuration, covers](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=0&mode=live&start=38.6875) [best practices for instance-level](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=0&mode=live&start=41)[configuration and you can look at it by going to this URL.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=0&mode=live&start=45)

[SQL Server Failover Cluster Log Properties](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=1&mode=live)

[SQL Server Failover Cluster Log](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=1&mode=live&start=1.914) [Properties. This DMV was also added in SQL](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=1&mode=live&start=4.561058823529412) [Server 2008 R2 SP1. It's sys.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=1&mode=live&start=8.79635294117647)[dm\_os\_server\_diagnostics\_log\_configurations](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=1&mode=live&start=12.14476923076923) [and the MSDN link for this is at that URL.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=1&mode=live&start=12.760153846153845) [Now this is going to show you the location](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=1&mode=live&start=18.914) [of your failover cluster diagnostic log.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=1&mode=live&start=21.91399999999999) [It's also going to show you where you're](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=1&mode=live&start=23.914) [other SQL Server error and diagnostic logs](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=1&mode=live&start=25.914) [are located, such as the actual SQL Server](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=1&mode=live&start=27.664) [error log, the SQL Server Agent error log,](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=1&mode=live&start=30.08066666666667) [your default trace files, and your system](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=1&mode=live&start=33.19177777777777) [extended event log files. Next, we'll take](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=1&mode=live&start=35.914) [a look at what this query looks like when](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=1&mode=live&start=37.823090909090915) [you run it and how you interpret the results.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=1&mode=live&start=40.277636363636375)

[Demo: SQL Server Failover Cluster Log Properties](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=2&mode=live)

[In this demonstration I'm going to show](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=2&mode=live&start=2.048) [you how to figure out where the SQL Server](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=2&mode=live&start=3.6035555555555563) [failover cluster diagnostic log is located](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=2&mode=live&start=5.603555555555557) [and when I run this query it's going to](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=2&mode=live&start=7.502545454545453) [show me the fact that the log is enabled](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=2&mode=live&start=10.775272727272723) [and its path is right here, and then the](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=2&mode=live&start=14.048) [max\_size is 100 MB and then it's going to](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=2&mode=live&start=17.96104347826087" \t "psplayer) [keep 10 log files before it starts to](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=2&mode=live&start=21.87408695652174) [recycle and overwrite the older log files.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=2&mode=live&start=24.995368421052625) [Even though this is meant to find the](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=2&mode=live&start=27.205894736842087) [failover cluster diagnostic log it still](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=2&mode=live&start=29.732210526315757)[shows you where your log path is, so your](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=2&mode=live&start=32.047999999999995) [other diagnostic and log files are going](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=2&mode=live&start=35.64799999999998) [to be located there, like your SQL Server](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=2&mode=live&start=38.363789473684214) [error log, your SQL Server Agent error](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=2&mode=live&start=40.89010526315791) [log, your default trace files, and your](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=2&mode=live&start=43.1006315789474) [system extended event log files will all](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=2&mode=live&start=45.19085714285714) [be in the same directory, so this is still](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=2&mode=live&start=47.19085714285713) [a useful query even if you're not using traditional failover clustering.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=2&mode=live&start=49.762285714285696)

[OS Cluster Properties](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=3&mode=live)

[OBJECTS Cluster Properties. This DMV is an](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=3&mode=live&start=1.916) [operating system related view. It's sys.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=3&mode=live&start=5.097818181818181) [dm\_os\_cluster\_properties and the MSDN link](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=3&mode=live&start=7.992923076923077" \t "psplayer) [you can find at that URL. Now if you are](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=3&mode=live&start=10.685230769230769) [not running SQL Server in a cluster, in a](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=3&mode=live&start=14.916) [traditional failover cluster, you're not](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=3&mode=live&start=17.166) [going to get any data back from this](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=3&mode=live&start=18.416) [query, so your typical stand-alone](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=3&mode=live&start=21.126526315789473) [instance of SQL Server will return no data](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=3&mode=live&start=22.968631578947367) [from this query, but if you are running](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=3&mode=live&start=25.916) [clustered it's going to let you see what](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=3&mode=live&start=27.734181818181813) [kind of logging is in place for the](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=3&mode=live&start=29.552363636363626) [cluster and the location of the dump files](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=3&mode=live&start=31.582666666666665) [from the SQLDumper utility, and I also let](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=3&mode=live&start=34.24933333333335) [you see the cluster failure condition](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=3&mode=live&start=36.91600000000003) [level setting, which can be very useful](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=3&mode=live&start=39.041) [information if you are running clustered.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=3&mode=live&start=41.666) [After this we're going to take a look at](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=3&mode=live&start=43.916) [what this query looks like when you actually run it.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=3&mode=live&start=52.916)

[Demo: OS Cluster Properties](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=4&mode=live)

[In this demonstration I want to show you](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=4&mode=live&start=2.317) [how to get some information about your OS](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=4&mode=live&start=4.317) [cluster, if your database server is in a](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=4&mode=live&start=6.317) [cluster, which my server on my workstation](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=4&mode=live&start=8.589727272727274) [is not in a cluster, but when you run this](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=4&mode=live&start=10.817000000000002) [you're going to get some information about](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=4&mode=live&start=13.998818181818185) [the logging and where the dumper](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=4&mode=live&start=16.211736842105264)[information's going to go, and what kind](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=4&mode=live&start=18.106473684210517) [of FailureConditionLevel and what kind of](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=4&mode=live&start=20.317) [HealthCheckTimeout you have setup on your Windows failover cluster.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=4&mode=live&start=26.317" \t "psplayer)

[Cluster Node Properties](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=5&mode=live)

[Cluster Node Properties. This is another](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=5&mode=live&start=2.246) [Windows clustering related query. This DMV](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=5&mode=live&start=5.246) [returns one row for each node in your](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=5&mode=live&start=8.01523076923077) [Windows failover cluster. We're looking at](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=5&mode=live&start=11.09215384615385) [sys. dm\_os\_cluster\_nodes and the MSDN link](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=5&mode=live&start=13.5585) [for that is found at that URL. Now no data](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=5&mode=live&start=16.1835) [is going to be returned from this on a](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=5&mode=live&start=19.898173913043472) [stand-alone instance of SQL Server, but if](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=5&mode=live&start=21.85469565217389) [you do have a failover cluster you're](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=5&mode=live&start=23.376434782608662) [going to get NodeName, the status, the](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=5&mode=live&start=25.746) [status\_description, and whether or not](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=5&mode=live&start=29.246" \t "psplayer) [that node is the current owner of the](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=5&mode=live&start=31.746) [cluster resources or not. Next, we're](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=5&mode=live&start=34.245999999999995) [going to take a look at what this query](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=5&mode=live&start=35.9602857142857) [looks like when you actually run it and how do you interpret the actual results.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=5&mode=live&start=39.246)

[Demo: Cluster Node Properties](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=6&mode=live)

[In this demonstration I'm going to show](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=6&mode=live&start=1.618) [you how to pull some information about the](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=6&mode=live&start=3.4601052631578946) [nodes in your Windows failover cluster.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=6&mode=live&start=5.565368421052633) [Now if you are not running cluster, this](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=6&mode=live&start=7.1894285714285715) [is not going to return any results, so](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=6&mode=live&start=9.475142857142862) [when I run this on my workstation it comes](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=6&mode=live&start=11.760857142857153) [back with no result, but if I was running](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=6&mode=live&start=14.33228571428572) [in a clustered instance, I would get each](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=6&mode=live&start=16.90371428571429) [one of my NodeNames and then the](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=6&mode=live&start=19.218) [status\_description for each node and](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=6&mode=live&start=21.318000000000005" \t "psplayer) [whether or not that node was the current](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=6&mode=live&start=22.81800000000001) [owner of the cluster resources and this is](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=6&mode=live&start=25.173555555555556) [really useful, especially when we're](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=6&mode=live&start=27.395777777777784) [getting ready to patch either Windows or](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=6&mode=live&start=28.784666666666677) [SQL Server, you want to know this](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=6&mode=live&start=31.28466666666667) [information. Plus, when you're looking at](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=6&mode=live&start=34.201333333333324) [a brand new instance that is clustered](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=6&mode=live&start=36.11799999999999) [it's nice to know the NodeNames and who's](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=6&mode=live&start=38.21799999999997) [the current owner when you actually look at it.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=6&mode=live&start=40.618)

[Failover Cluster Node with AlwaysOn AG](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=7&mode=live)

[Failover cluster node with AlwaysOn](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=7&mode=live&start=1.552) [availability group info. This is the last](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=7&mode=live&start=3.610823529411764) [of the cluster related queries in this](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=7&mode=live&start=6.493176470588237) [query set and this DMV returns data if you](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=7&mode=live&start=9.251999999999999) [have a Windows Server Failover Cluster](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=7&mode=live&start=12.401999999999996) [node with an instance of SQL Server that](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=7&mode=live&start=14.501999999999994) [has AlwaysOn availability groups and if it](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=7&mode=live&start=17.427) [currently has a quorum. If all those](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=7&mode=live&start=20.052) [things are true, you'll get some data back](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=7&mode=live&start=22.385333333333335) [from this query, and we're looking at sys.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=7&mode=live&start=24.607555555555564) [dm\_hadr\_cluster and the MSDN link for that](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=7&mode=live&start=26.951999999999998" \t "psplayer) [is right there, so you can read more about](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=7&mode=live&start=29.75199999999999) [this specific DMV. Now you're going to get](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=7&mode=live&start=33.351999999999975) [some high level information about the](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=7&mode=live&start=36.02258823529413) [cluster and the quorum, including the](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=7&mode=live&start=37.787294117647086) [cluster\_name, the quorum\_type and quorum](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=7&mode=live&start=39.552" \t "psplayer) [description, and then the quorum\_state and](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=7&mode=live&start=42.76628571428573) [quorum state description. Next, we're](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=7&mode=live&start=46.623428571428605) [going to look at what happens when you run](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=7&mode=live&start=48.91563636363636) [this query and what results you get back and how you interpret them.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=7&mode=live&start=50.55199999999998)

[Demo: Failover Cluster Node with AlwaysOn AG](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=8&mode=live)

[In this demonstration I'm going to show](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=8&mode=live&start=1.546) [you how to run query 16, which gives you](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=8&mode=live&start=3.645999999999999) [some information about your Windows](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=8&mode=live&start=6.345999999999997) [cluster and your AlwaysOn availability](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=8&mode=live&start=7.962666666666667) [group if it has a quorum. When I run this](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=8&mode=live&start=10.045999999999998) [query I get no results on my instance](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=8&mode=live&start=13.688857142857145) [because I don't have clustering setup on](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=8&mode=live&start=15.974571428571437) [my workstation and I don't have AlwaysOn](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=8&mode=live&start=17.97457142857143) [availability groups setup either, but if I](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=8&mode=live&start=20.124947368421044) [did I'd get the cluster\_name and the](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=8&mode=live&start=22.335473684210505) [quorum type description, and the quorum](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=8&mode=live&start=24.546) [state description, so again, this helps](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=8&mode=live&start=26.66364705882352) [you figure out how you're AlwaysOn](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=8&mode=live&start=28.781294117647043) [availability group quorum is setup, and](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=8&mode=live&start=30.861789473684208) [whether or not you have a quorum or not, which is useful information.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=8&mode=live&start=32.75652631578947)

[Instance Configuration Values](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=9&mode=live)

[Instance Configuration Values. This query](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=9&mode=live&start=2.073) [returns information from a server-wide](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=9&mode=live&start=4.765307692307692) [configuration catalog view. It's sys.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=9&mode=live&start=7.457615384615384) [configurations and the MSDN link for that](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=9&mode=live&start=9.930142857142858) [is right at that URL. Now this gives you a](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=9&mode=live&start=12.93014285714286) [lot of very useful information about your](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=9&mode=live&start=17.072999999999997) [instance-level configuration settings.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=9&mode=live&start=19.872999999999987) [Things like whether or not backup](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=9&mode=live&start=21.073) [compression default is enabled, whether](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=9&mode=live&start=23.072999999999993) [the CLR is enabled, what your cost](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=9&mode=live&start=24.739666666666654) [threshold for parallelism is, whether or](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=9&mode=live&start=27.073) [not you have lightweight pooling enabled,](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=9&mode=live&start=29.072999999999993) [which is not a good idea in most cases,](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=9&mode=live&start=31.072999999999986) [what your max degree of parallelism is,](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=9&mode=live&start=34.07300000000001) [what your max server memory in MBs is set](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=9&mode=live&start=36.40633333333336) [at, whether or not optimize for ad hoc](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=9&mode=live&start=39.40633333333338) [workloads is enabled, and whether or not](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=9&mode=live&start=41.78728571428571) [priority boost is enabled, which is not a](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=9&mode=live&start=43.7872857142857) [good idea in most cases. Next, we'll take](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=9&mode=live&start=46.073) [a look at what happens when you run this](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=9&mode=live&start=48.25481818181819) [query and what things you want to take a](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=9&mode=live&start=50.70936363636365) [look at when you're interpreting the results.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=9&mode=live&start=56.073)

[Demo: Instance Configuration Values](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=10&mode=live)

[In this demonstration I'm going to show](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=10&mode=live&start=2.074) [you how to take a look at the](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=10&mode=live&start=3.547684210526314) [instance-level configuration values for](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=10&mode=live&start=5.231894736842102) [your server by running a query that hits](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=10&mode=live&start=6.074) [sys. configurations. When I run this query](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=10&mode=live&start=8.873999999999997) [it comes back with 70 rows with SQL Server](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=10&mode=live&start=11.323999999999995) [2014 and there's quite a few different](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=10&mode=live&start=14.407333333333336) [things to look at here, but some of the](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=10&mode=live&start=16.74066666666667) [most important ones, in my opinion, are](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=10&mode=live&start=19.74066666666666) [our backup compression default, that](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=10&mode=live&start=21.838705882352937) [should be enabled in most cases unless](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=10&mode=live&start=23.30929411764705) [you're under sustained CPU pressure. Then](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=10&mode=live&start=25.42694117647059) [you want to look at whether or not cost](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=10&mode=live&start=27.54458823529411) [threshold for parallelism has been changed](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=10&mode=live&start=30.721058823529393) [from the default. Quite often with a lot](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=10&mode=live&start=32.65294736842105) [of workloads you might want to raise that](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=10&mode=live&start=35.17926315789475) [to a higher value than the value of 5 that](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=10&mode=live&start=37.60031578947368) [you see here, which is the default. Next,](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=10&mode=live&start=40.23189473684211) [you want to know whether or not the CLR,](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=10&mode=live&start=42.3865) [the Common Language Runtime is enabled.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=10&mode=live&start=45.199) [That should only be enabled if it is](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=10&mode=live&start=47.074) [actually needed. Then you want to see if](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=10&mode=live&start=49.17926315789474) [lightweight pooling is enabled, and really](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=10&mode=live&start=51.28452631578948) [that should be set to 0 in most cases. It](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=10&mode=live&start=53.124) [causes lots of issues for certain things](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=10&mode=live&start=56.62400000000002) [like XML, so you don't want to have that](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=10&mode=live&start=59.074) [turned on unless you really have done some](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=10&mode=live&start=61.52854545454546) [testing and it shows that it helps](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=10&mode=live&start=63.710363636363645) [performance, which it doesn't in most](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=10&mode=live&start=65.55019047619048)[cases. Next, you want to take a look at](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=10&mode=live&start=66.97876190476192) [see what your max degree of parallelism is](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=10&mode=live&start=69.12161904761909) [set to, so by default that's going to be](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=10&mode=live&start=71.29139130434781) [set to 0, but you may want to change that](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=10&mode=live&start=74.03052173913039) [based on what kind of hardware and what](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=10&mode=live&start=77.074) [kind of a workload you have on your](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=10&mode=live&start=79.4269411764706) [server. Next, you want to look at your max](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=10&mode=live&start=81.77988235294121)[server memory in MB and that should be set](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=10&mode=live&start=84.74066666666663) [to an appropriate, non-default value based](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=10&mode=live&start=87.74066666666658) [on how much memory you have in your server](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=10&mode=live&start=89.67399999999999) [and what SQL Server components you have](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=10&mode=live&start=92.37399999999997) [installed and running on the server, and](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=10&mode=live&start=94.47399999999995) [also what else might be running on the](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=10&mode=live&start=96.54458823529413) [server besides SQL Server. Then you want](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=10&mode=live&start=98.89752941176474) [to look at optimize for ad hoc workloads](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=10&mode=live&start=100.97399999999999) [and that's something that was added in SQL](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=10&mode=live&start=103.37399999999997) [Server 2008 and, in my opinion, that](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=10&mode=live&start=105.77399999999994) [should be turned on in all cases. What it](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=10&mode=live&start=107.92015384615384) [does is it only lets SQL Server cash a](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=10&mode=live&start=110.74066666666666) [stub of the query plan in the plan cache](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=10&mode=live&start=113.74066666666661) [the very first time that it's run, so it](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=10&mode=live&start=116.74066666666657) [has the potential to reduce the amount of](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=10&mode=live&start=119.50257142857146) [memory that's used by ad hoc and prepared](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=10&mode=live&start=121.78828571428579) [plans in the plan cache, and then finally,](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=10&mode=live&start=124.074) [I like to take a look at priority boost.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=10&mode=live&start=126.89752941176475) [That's something that a lot of novice sys](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=10&mode=live&start=130.074) [administrators and DBAs will turn on](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=10&mode=live&start=132.60031578947377) [because they think it helps performance,](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=10&mode=live&start=134.49505263157909) [but it really doesn't in most cases, and](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=10&mode=live&start=136.4269411764706) [it has the potential to destabilize the](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=10&mode=live&start=139.25047058823523) [operating system by starving it of](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=10&mode=live&start=141.7210588235293) [resources, so you don't want to have that](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=10&mode=live&start=143.91610526315796) [set to 1 in most cases. Again, his is a](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=10&mode=live&start=146.86347368421067) [really useful query that you can see a lot](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=10&mode=live&start=150.3371578947369) [of your instance-level configuration settings in one easy query.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=10&mode=live&start=153.17926315789487)

[Buffer Pool Extension Properties](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=11&mode=live)

[Buffer Pool Extension Properties. This DMV](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=11&mode=live&start=1.808) [was added in SQL Server 2014 to support a](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=11&mode=live&start=3.9256470588235297) [new feature. It was added in SQL Server](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=11&mode=live&start=7.1021176470588205) [2014. We're looking at sys.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=11&mode=live&start=11.008) [dm\_os\_buffer\_pool\_extension\_configuration](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=11&mode=live&start=13.674666666666665" \t "psplayer) [to get this information and the MSDN link](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=11&mode=live&start=14.207999999999998) [is found at this URL. Now this is going to](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=11&mode=live&start=17.308000000000003)[return information about the buffer pool](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=11&mode=live&start=20.30800000000001) [extension configuration. In case you're](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=11&mode=live&start=22.21976470588235) [wondering, buffer pool extension is a new](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=11&mode=live&start=24.27858823529411) [feature that lets you set aside some](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=11&mode=live&start=27.16094117647057) [space, preferably on one of your flash](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=11&mode=live&start=29.95085714285714) [storage drives, that can be used to extend](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=11&mode=live&start=32.617523809523796) [the size of your buffer pool, so it makes](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=11&mode=live&start=35.66514285714283) [it look like you have more memory than you](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=11&mode=live&start=38.236571428571445) [actually do, and this is very helpful for](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=11&mode=live&start=40.37942857142861) [OLTP workloads. It's not designed to help](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=11&mode=live&start=42.97466666666667) [data warehouse workloads. It's going to](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=11&mode=live&start=47.05800000000002) [give you the path to that file that you](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=11&mode=live&start=49.62618181818182) [set aside somewhere on your file system](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=11&mode=live&start=52.08072727272728) [and it's going to give you the state and](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=11&mode=live&start=53.989818181818194) [state\_description of the BPE feature. It's](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=11&mode=live&start=56.44436363636364" \t "psplayer) [also going to show you the current size of](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=11&mode=live&start=58.099666666666664) [the BPE file and that has to be at least](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=11&mode=live&start=60.72466666666664) [as large as the amount that you've set max](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=11&mode=live&start=63.641333333333286) [server memory to on your instance or else](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=11&mode=live&start=66.65010526315788) [it won't let you create it. Next, we're](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=11&mode=live&start=69.59747368421048) [going to take a look at what you do when](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=11&mode=live&start=73.808) [you run this query and how you interpret the results.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=11&mode=live&start=83.808)

[Demo: Buffer Pool Extension Properties](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=12&mode=live)

[In this demonstration we're going to take](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=12&mode=live&start=2) [a look at the buffer pool extension](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=12&mode=live&start=3.3611111111111125) [configuration on my instance of SQL Server](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=12&mode=live&start=4.722222222222225) [on my workstation. When I run this query](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=12&mode=live&start=6.690863636363637) [it shows me that I do have BPE enabled and](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=12&mode=live&start=9.866499999999997) [it's showing me that I've got a fall on my](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=12&mode=live&start=13.836045454545443) [L Drive in the SSD cache directory and it](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=12&mode=live&start=16.858) [tells me the current size in KBs and then](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=12&mode=live&start=19.48300000000001) [more usefully, the current size in GBs.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=12&mode=live&start=22.14604347826087) [One they need to be aware of is again,](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=12&mode=live&start=24.27647826086957) [this file has to be at least as large as](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=12&mode=live&start=27.015608695652183) [the current size of your buffer pool, so](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=12&mode=live&start=30.41481818181818) [you're max server memory setting has to be](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=12&mode=live&start=33.3239090909091) [at least as large as that, and BPE was](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=12&mode=live&start=36.233) [added in SQL Server 2014 and it's](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=12&mode=live&start=39.66157142857141) [available in both Standard Edition, where](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=12&mode=live&start=42.32823809523807) [it's going to be very useful, and in](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=12&mode=live&start=44.50572727272727) [Enterprise Edition. One thing I want to](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=12&mode=live&start=46.68754545454546) [point out about this is that you can](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=12&mode=live&start=48.483) [create a BPE file anywhere you want to on](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=12&mode=live&start=50.483) [the file system, so it doesn't have to be](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=12&mode=live&start=52.733) [on a flash drive, even though it really](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=12&mode=live&start=55.703588235294106) [should be. Microsoft doesn't check the](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=12&mode=live&start=58.5271176470588) [performance characteristics of the drive](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=12&mode=live&start=60.34411111111111) [that you decide to create it on, so make](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=12&mode=live&start=61.733000000000004) [sure you're careful about that, and don't](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=12&mode=live&start=64.233) [assume just because you see a BPE file](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=12&mode=live&start=66.5663333333333) [that that means that this L Drive is](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=12&mode=live&start=69.23299999999993) [flash-based storage. It could be that](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=12&mode=live&start=71.86457894736841) [whoever did this didn't know what they](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=12&mode=live&start=73.75931578947365) [were doing and they just created it on any](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=12&mode=live&start=75.96984210526308) [set of drives that they had available, so](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=12&mode=live&start=78.73299999999999) [again, this lets you see your BPE](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=12&mode=live&start=81.13299999999997) [configuration, and there's a lot of other](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=12&mode=live&start=83.233) [performance counters and extended events](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=12&mode=live&start=85.5663333333333) [that you can look at to find out a lot](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=12&mode=live&start=87.23299999999995) [more information about how BPE is performing on your instance.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=12&mode=live&start=93.233)

[Buffer Pool Extension Usage](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=13&mode=live)

[Buffer Pool Extension Usage. This is a DMV](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=13&mode=live&start=1.824) [query that returns information about the](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=13&mode=live&start=5.379555555555557) [data pages by database in the SQL Server](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=13&mode=live&start=8.046222222222225) [buffer pool that are cached in the BPE](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=13&mode=live&start=11.000470588235297) [file, so we're looking at sys.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=13&mode=live&start=13.353411764705891) [dm\_os\_buffer\_descriptors for files that](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=13&mode=live&start=15.297684210526315" \t "psplayer) [are stored in the BPE file on your file](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=13&mode=live&start=17.192421052631577) [system, and the MSDN link for that is](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=13&mode=live&start=21.455578947368412) [right at that URL. This is going to give](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=13&mode=live&start=24.737043478260873) [you buffer usage by database from the BPE](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=13&mode=live&start=27.476173913043485) [file, so it's going to help you figure](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=13&mode=live&start=29.91095652173914) [out, are you actually using that BPE file](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=13&mode=live&start=32.25257142857143) [and which databases and how much space are](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=13&mode=live&start=34.538285714285706) [they using in the BPE file. It's going to](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=13&mode=live&start=36.824) [show you the database name, the page](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=13&mode=live&start=39.82400000000002) [count, and then the buffer size in MB for](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=13&mode=live&start=42.15733333333337) [that entire database in the BPE file and](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=13&mode=live&start=45.53828571428572) [then the average read time in microseconds](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=13&mode=live&start=48.966857142857165) [from that BPE file for that database.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=13&mode=live&start=51.96685714285718) [Next, we'll take a look at what it looks](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=13&mode=live&start=54.187636363636365) [like when you run this query and how you can interpret the results.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=13&mode=live&start=56.642181818181825)

[Demo: Buffer Pool Extension Usage](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=14&mode=live)

[In this demonstration we're going to take](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=14&mode=live&start=1.667) [a look at query 19, which is BPE usage.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=14&mode=live&start=3.8545) [When I run this query it comes back with](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=14&mode=live&start=6.667) [no results because I have not hit my](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=14&mode=live&start=9.121545454545457) [instance hard enough to get BPE usage, but](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=14&mode=live&start=11.303363636363644) [it's looking at sys.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=14&mode=live&start=13.90229411764706) [dm\_os\_buffer\_descriptors and that actually](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=14&mode=live&start=15.549352941176473" \t "psplayer) [added a new column in SQL Server 2014](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=14&mode=live&start=17.196411764705882) [called is \_ in\_ buffer pool extension, so](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=14&mode=live&start=20.48518181818182) [if that's set to 1, then you can go](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=14&mode=live&start=23.757909090909102) [through and sum up all the pages that are](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=14&mode=live&start=27.439727272727293) [being used by that database that are](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=14&mode=live&start=30.666999999999994) [coming from the BPE read only cache, which](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=14&mode=live&start=33.00033333333333) [lives in that BPE file somewhere on your](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=14&mode=live&start=35.667) [file system. What you'd want to look at is](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=14&mode=live&start=38.21245454545456) [the name of the database and a total page](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=14&mode=live&start=41.076090909090944) [count and then the buffer size in MBs that](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=14&mode=live&start=43.710478260869564) [are coming from that BPE file, and you can](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=14&mode=live&start=46.05830434782608) [also take a look at the average read time](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=14&mode=live&start=48.4061304347826) [in microseconds from the BPE file, and](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=14&mode=live&start=50.95271428571428) [again, this is going to be rolled up by a](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=14&mode=live&start=52.95271428571427) [database, so if you are getting any](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=14&mode=live&start=55.884391304347815)[benefit from your BPE file, then you would see it when you run this query.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=14&mode=live&start=58.01482608695649)

[TCP Listener States](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=15&mode=live)

[TCP Listener States. This is a DMV that](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=15&mode=live&start=1.699) [was added in SQL Server 2012 that returns](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=15&mode=live&start=4.646368421052631) [dynamic state information for each TCP](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=15&mode=live&start=7.593736842105261) [listener. It's sys. dm\_tcp\_listener\_states](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=15&mode=live&start=10.287235294117647) [and the MSDN link for that is at this URL.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=15&mode=live&start=12.404882352941176) [This is going to give you some information](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=15&mode=live&start=17.699) [about the ip\_address for each TCP](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=15&mode=live&start=20.36566666666666)[listener, whether the listener is using IP](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=15&mode=live&start=22.36566666666665) [version 4 or IP version 6, what TCP port](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=15&mode=live&start=24.78990909090909) [the listener is using, and then the](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=15&mode=live&start=28.06263636363636) [current state of the listener, and the](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=15&mode=live&start=30.608090909090905) [startup time of the listener. This](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=15&mode=live&start=32.81011111111111) [information can be very helpful for](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=15&mode=live&start=34.476777777777784) [network and connectivity troubleshooting,](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=15&mode=live&start=36.143444444444455) [so next we'll take a look at what this](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=15&mode=live&start=37.22531578947368) [query looks like and the results that it returns.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=15&mode=live&start=39.593736842105265)

[Demo: TCP Listener States](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=16&mode=live)

[In this demonstration I want to show you](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=16&mode=live&start=1.699) [how to get some information about your TCP](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=16&mode=live&start=3.699) [listeners that SQL Server are using. When](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=16&mode=live&start=5.699) [I run this query it comes back and shows](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=16&mode=live&start=7.556142857142857) [me the listener\_id for each new listener,](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=16&mode=live&start=10.127571428571434) [and then the ip\_address, and it's only](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=16&mode=live&start=12.12757142857144) [going to show the ip\_addresses for IPv4](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=16&mode=live&start=14.36566666666667)[listeners and that's what this column is](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=16&mode=live&start=16.699) [saying, this is IPv4 and this is IPv6, and](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=16&mode=live&start=19.133782608695654) [then what port it's using, so it's 1433 or](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=16&mode=live&start=23.046826086956525) [1434 in my case, what kind of a listener](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=16&mode=live&start=26.959869565217396) [it is, it's just the straight TSQL](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=16&mode=live&start=30.014789473684214) [listener, as opposed to something like](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=16&mode=live&start=31.85689473684211) [mirroring, and then whether or not that](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=16&mode=live&start=33.43584210526316) [listener is online and when it started.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=16&mode=live&start=35.54515384615384) [Again, the reason you want to run this](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=16&mode=live&start=37.699) [query and why it's helpful is it helps you](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=16&mode=live&start=39.51718181818181) [make sure that you're not having network](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=16&mode=live&start=41.56263636363635) [and connectivity issues and what ports](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=16&mode=live&start=43.22531578947368) [need to be open in your firewall, so it's a very helpful troubleshooting query.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=16&mode=live&start=44.80426315789474)

[Memory Dump Information](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=17&mode=live)

[Memory Dump Information. SQL Server will](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=17&mode=live&start=1.688) [generate a memory dump on certain kinds of](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=17&mode=live&start=4.088) [errors. It's usually not a complete crash](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=17&mode=live&start=7.288000000000003) [of the SQL server instance, but it's not a](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=17&mode=live&start=9.688000000000002) [good thing that has happened, so it'll](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=17&mode=live&start=12.688000000000008) [generate a memory dump and you can run](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=17&mode=live&start=14.960727272727274) [this DMV query to see whether you've had](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=17&mode=live&start=17.14254545454546) [any memory dumps or not and where they're](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=17&mode=live&start=19.324363636363646) [located. It's looking at sys.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=17&mode=live&start=22.021333333333327) [dm\_server\_memory\_dumps and the MSDN link](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=17&mode=live&start=24.24355555555554" \t "psplayer) [for this is at that URL. I'm just going to](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=17&mode=live&start=26.465777777777756) [give you some information about again, the](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=17&mode=live&start=30.438000000000006) [path and the filename of each dump file,](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=17&mode=live&start=32.88800000000001) [and then the creation date and time for](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=17&mode=live&start=35.688) [the dump file and then the size of the](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=17&mode=live&start=37.59276190476193) [dump file in MBs. This queries not going](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=17&mode=live&start=39.735619047619096) [to return any information if no memory](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=17&mode=live&start=41.95115789473685) [dumps have occurred, which is a good](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=17&mode=live&start=44.16168421052634) [thing. You don't want to see anything in](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=17&mode=live&start=46.372210526315826) [here, and if you do, this is something you](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=17&mode=live&start=47.96072727272726) [could send the memory dump to Microsoft](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=17&mode=live&start=49.59709090909088) [support and they can crack that open and](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=17&mode=live&start=51.688) [hopefully find out what caused that dump to occur.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=17&mode=live&start=59.688)

[Demo: Memory Dump Information](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=18&mode=live)

[In this demonstration I want to show you](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=18&mode=live&start=1.874) [how to query and find out whether you've](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=18&mode=live&start=3.397809523809525) [had any SQL Server memory dumps since your](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=18&mode=live&start=4.921619047619051) [instance has been installed. If you run](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=18&mode=live&start=6.773999999999999) [this query, if you have not had any memory](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=18&mode=live&start=8.874) [dumps, you're not going to get any results](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=18&mode=live&start=11.574000000000007) [here, but if you have you'll see the](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=18&mode=live&start=13.874000000000006)[filename, the path, and the filename of](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=18&mode=live&start=16.159714285714298) [the memory dump and when it was created,](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=18&mode=live&start=18.159714285714283) [and then how large it is, and hopefully](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=18&mode=live&start=20.44542857142856) [you won't find any results when you run](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=18&mode=live&start=22.73114285714284) [this on your instance, but if you do you](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=18&mode=live&start=24.874) [could forward this memory dump file to](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=18&mode=live&start=27.124) [Microsoft Support and they can look at it](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=18&mode=live&start=28.874) [and quite often tell you what the problem](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=18&mode=live&start=30.692181818181812) [was, and in a lot of cases you get memory](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=18&mode=live&start=32.51036363636363) [dumps because you have an older build of](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=18&mode=live&start=35.207333333333345) [SQL Server, and issues that have been](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=18&mode=live&start=37.87400000000003) [fixed in later builds will prevent that](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=18&mode=live&start=40.20733333333338) [memory dump from occurring in the future in a lot of cases.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=18&mode=live&start=45.874)

[Database Filenames and Paths](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=19&mode=live)

[Database Filenames and Paths. This is a](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=19&mode=live&start=1.531) [databases and files catalog view requiring](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=19&mode=live&start=5.236882352941176) [sys. master\_files and the MSDN link for](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=19&mode=live&start=8.41335294117647) [that is at this URL. This is going to give](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=19&mode=live&start=11.38814285714286) [you information about each database file](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=19&mode=live&start=14.245285714285725) [on your instance. It's going to let you](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=19&mode=live&start=15.959571428571444) [know how many user database files are on](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=19&mode=live&start=18.109947368421054) [the instance and where they're located](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=19&mode=live&start=20.215210526315794) [across your file system. It's going to let](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=19&mode=live&start=21.831) [you know how many tempdb files you have on](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=19&mode=live&start=24.231000000000005) [the instance and where they're located and](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=19&mode=live&start=26.93100000000001) [that's very useful information. It's also](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=19&mode=live&start=28.84678947368421) [going to give you the size and the auto](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=19&mode=live&start=30.425736842105266) [growth settings for each database file.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=19&mode=live&start=32.89942105263158) [This is going to help you understand how](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=19&mode=live&start=35.109947368421075) [your I/O workload is spread across your](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=19&mode=live&start=38.05731578947373) [I/Object subsystem, so if you have all](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=19&mode=live&start=40.38814285714285) [your log files on one drive and all your](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=19&mode=live&start=42.388142857142846) [data files on another drive or whatever](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=19&mode=live&start=44.95957142857141) [the case may be, you're going to see that](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=19&mode=live&start=46.781) [very quickly and easily with this query.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=19&mode=live&start=49.031) [Next, we'll take a look at how you run](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=19&mode=live&start=51.531) [this query and how do you interpret the results.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=19&mode=live&start=60.531)

[Demo: Database Filenames and Paths](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=20&mode=live)

[For this demonstration we're going to take](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=20&mode=live&start=1.389) [a look at the filenames and paths for all](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=20&mode=live&start=3.4889999999999994) [the user databases and tempdb on this](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=20&mode=live&start=6.188999999999998) [instance. When I run this query it comes](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=20&mode=live&start=8.738999999999999) [back with the database name of each](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=20&mode=live&start=12.338999999999993) [database file that's across the instance](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=20&mode=live&start=15.488999999999988) [and then it shows you the file\_id, so](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=20&mode=live&start=17.589000000000002) [file\_id 1 is the primary data file and](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=20&mode=live&start=19.989000000000008" \t "psplayer) [file\_id 2 is the log file for each](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=20&mode=live&start=22.389" \t "psplayer) [database and if you have additional data](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=20&mode=live&start=24.91531578947367) [files that'll have different file\_ids](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=20&mode=live&start=27.125842105263132) [here. Then you see the logical name for](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=20&mode=live&start=28.689) [each one of these database files and then](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=20&mode=live&start=31.089000000000006) [you see the physical\_name. That shows you](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=20&mode=live&start=33.489) [where exactly it's located in the file](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=20&mode=live&start=35.65215789473685)[system and what the file name is and then](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=20&mode=live&start=37.86268421052634) [type description, ROWS is going to be data](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=20&mode=live&start=40.649869565217394) [files, and LOG is a log file, then it](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=20&mode=live&start=42.73682608695652) [shows you that each one of these is](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=20&mode=live&start=45.084652173913035) [online, and then we show](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=20&mode=live&start=47.53185714285714) [is\_percent\_growth, and you want this to be](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=20&mode=live&start=49.43661904761904" \t "psplayer) [0 for all of your database files, so you](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=20&mode=live&start=52.1032857142857) [can see this database it's log file has](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=20&mode=live&start=55.43900000000001) [is\_percent\_growth turned on, which is not](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=20&mode=live&start=58.23900000000002" \t "psplayer) [a good thing, and it's set to 10% growth,](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=20&mode=live&start=60.33900000000003) [which is the default when you create a new](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=20&mode=live&start=63.298090909090924)[database in SQL server using the GUI, and](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=20&mode=live&start=66.16172727272726) [you can also see the same problem down](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=20&mode=live&start=68.689) [here for the tempdb data file and the](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=20&mode=live&start=71.08899999999997) [tempdb log file. Then you can see the](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=20&mode=live&start=73.48899999999995" \t "psplayer) [growth, both in KB and in MB, and if it's](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=20&mode=live&start=75.98899999999996) [set to percent growth, then it shows you a](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=20&mode=live&start=79.1889999999999) [0 for this column right there, and then](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=20&mode=live&start=82.06899999999983) [finally, it shows you the total size in](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=20&mode=live&start=84.38900000000004) [MBs for each one of the database files.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=20&mode=live&start=86.67471428571437) [Again, what you want to look at here,](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=20&mode=live&start=88.91531578947367) [typically, depending on your work load,](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=20&mode=live&start=91.02057894736835)[you might want to have your data files](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=20&mode=live&start=92.59952631578936) [segregated from your log files and you](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=20&mode=live&start=94.88899999999998) [want to understand, Is everything on the](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=20&mode=live&start=96.98899999999996) [C: drive? You know, maybe somebody just](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=20&mode=live&start=99.08899999999994) [created something with all of the](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=20&mode=live&start=101.23515384615384) [defaults. Is tempdb on dedicated drives?](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=20&mode=live&start=103.08130769230767) [Is there only one TempDB data file or are](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=20&mode=live&start=105.23110526315787) [there multiple TempDB data files? Are they](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=20&mode=live&start=108.54689473684205) [all the same size? That's really](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=20&mode=live&start=110.94455555555554) [important. Have you had multiple data](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=20&mode=live&start=112.61122222222217) [files through your user databases? Then](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=20&mode=live&start=114.2778888888888) [finally, as I said before, do you have](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=20&mode=live&start=116.21252941176469) [is\_percent\_growth enabled for any of your](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=20&mode=live&start=119.50664705882348" \t "psplayer) [files because that's not a good thing to](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=20&mode=live&start=121.97723529411756) [have enabled. This is a really easy query](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=20&mode=live&start=124.139) [that gives you all this information about all your user databases and tempdb.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=20&mode=live&start=126.139)

[Volume Information](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=21&mode=live)

[Volume Information. This query uses a](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=21&mode=live&start=1.457) [dynamic management function called sys.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=21&mode=live&start=5.0569999999999995) [dm\_os\_volume\_stats and you can read about](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=21&mode=live&start=8.056999999999999" \t "psplayer) [at this MSDN link. This query returns](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=21&mode=live&start=11.299105263157895) [information for each logical drive or](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=21&mode=live&start=14.246473684210523) [mount point that has any SQL Server](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=21&mode=live&start=16.772789473684206) [database files, so if you have other](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=21&mode=live&start=19.246473684210528) [drives or mount points that don't have SQL](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=21&mode=live&start=21.088578947368426) [Server database files, it won't show up in](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=21&mode=live&start=23.193842105263165) [this query. It's going to give you the](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=21&mode=live&start=25.456999999999994) [drive letter and the file system type for](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=21&mode=live&start=27.74271428571427)[that drive volume. It's going to give you](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=21&mode=live&start=30.123666666666665) [a logical volume name, if there is one.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=21&mode=live&start=32.79033333333333) [It's also going to give you the total size](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=21&mode=live&start=35.457) [of the volume in GBs and then the](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=21&mode=live&start=37.41352173913045) [available size of the volume in GBs. Why](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=21&mode=live&start=39.152652173913076) [this is important is you want to](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=21&mode=live&start=41.193842105263165) [understand again, how your files are](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=21&mode=live&start=43.77278947368424) [distributed across your file system and](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=21&mode=live&start=45.983315789473735) [how big the volumes are, and how much free](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=21&mode=live&start=48.09336363636364) [space you have because as you get lower on](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=21&mode=live&start=50.95700000000002) [free space, especially with magnetic](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=21&mode=live&start=53.8206363636364) [drives, your performance is going to go](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=21&mode=live&start=55.51582352941176) [downhill, and even with solid state drives](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=21&mode=live&start=57.98641176470587) [you're going to see a performance impact](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=21&mode=live&start=60.457) [as the drives get closer to being full.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=21&mode=live&start=63.25699999999999) [We'll take a look at how you run this](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=21&mode=live&start=66.457) [query and how you interpret the results next.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=21&mode=live&start=75.457)

[Demo: Volume Information](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=22&mode=live)

[For this demonstration we're going to take](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=22&mode=live&start=2.258) [a look at the query that gives us volume](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=22&mode=live&start=3.2579999999999996) [info for all the LUNS that have database](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=22&mode=live&start=4.5437142857142865) [files on the current instance. If you have](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=22&mode=live&start=6.205368421052632) [any LUNS that don't have database files,](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=22&mode=live&start=8.731684210526316) [they won't show up when you run this](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=22&mode=live&start=10.94221052631579) [query. When I run this query it comes back](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=22&mode=live&start=13.388434782608698)[and gives me the drive letter or the](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=22&mode=live&start=16.12756521739131) [volume\_mount\_point information, then it](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=22&mode=live&start=18.66976470588235" \t "psplayer) [shows me the file\_system\_type, MTFS in](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=22&mode=live&start=20.316823529411757) [this case, and then we get the](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=22&mode=live&start=22.787411764705865) [logical\_volume\_name, which may or may not](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=22&mode=live&start=25.642615384615382" \t "psplayer) [have a value on some systems. Then you're](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=22&mode=live&start=27.950307692307682) [going to see the total size of the volume](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=22&mode=live&start=30.803454545454546) [in GBs and then the available size in GBs](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=22&mode=live&start=33.258) [and the percentage of space free. Again,](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=22&mode=live&start=35.71254545454546) [why this is important, especially with](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=22&mode=live&start=38.02270588235294) [magnetic drives, you don't want to have](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=22&mode=live&start=40.14035294117646) [your volumes being close to being full](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=22&mode=live&start=42.573789473684215) [because then the performance is going to](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=22&mode=live&start=44.7843157894737) [go downhill the closer it gets to being](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=22&mode=live&start=46.99484210526319) [filled because you don't get the benefit](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=22&mode=live&start=49.591333333333345) [of short stroking like you do when the ---](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=22&mode=live&start=51.924666666666695) [volume actually is nearly empty. Then you](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=22&mode=live&start=54.92466666666672) [get a similar effect with solid state](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=22&mode=live&start=57.25800000000002) [drives for a different reason because](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=22&mode=live&start=59.59133333333337) [garbage collection is more of an impact](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=22&mode=live&start=61.59133333333334) [and it hurts performance and your](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=22&mode=live&start=63.92466666666669) [performance will be more inconsistent with](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=22&mode=live&start=65.92466666666667) [solid state drives as they get closer to](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=22&mode=live&start=68.09133333333334) [being full. Again, this is an important](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=22&mode=live&start=71.42466666666671) [query that's easy to run and gives you](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=22&mode=live&start=73.83694736842102) [this information from within TSQL, which is pretty handy.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=22&mode=live&start=76.36326315789466)

[Course Summary](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=23&mode=live)

[What have we covered in this course? These](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=23&mode=live&start=1.989) [diagnostic queries can help you detect](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=23&mode=live&start=4.8125294117647055) [most configuration issues with your SQL](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=23&mode=live&start=6.930176470588233) [Server instance. They can help you find](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=23&mode=live&start=8.989) [instance-level settings that may be](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=23&mode=live&start=11.322333333333338) [incorrect and, as I've said, virtually](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=23&mode=live&start=12.989000000000008) [every instance I've ever looked at with](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=23&mode=live&start=14.822333333333336) [these queries, I've found issues that](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=23&mode=live&start=16.766777777777786) [needed to be corrected. They also expose](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=23&mode=live&start=18.433444444444458) [information about the operating system and](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=23&mode=live&start=21.047823529411758) [the SQL Server version and edition and](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=23&mode=live&start=23.518411764705867)[build that is installed, which is really](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=23&mode=live&start=26.252157894736843) [important to know. It can help you](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=23&mode=live&start=28.09426315789474) [determine what type of hardware you're](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=23&mode=live&start=29.936368421052638) [using, how old it is, and what its](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=23&mode=live&start=31.655666666666665)[capabilities are. They also show you your](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=23&mode=live&start=34.32233333333335) [database files and how they're distributed](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=23&mode=live&start=36.655666666666676) [across your file system. They show you how](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=23&mode=live&start=38.65566666666669) [large and how full your drive volumes are.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=23&mode=live&start=41.655666666666654) [After you've looked at this, make sure to](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=23&mode=live&start=44.989) [watch the other DMV courses for more](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=23&mode=live&start=47.515315789473696) [queries in this complete query set and](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=23&mode=live&start=49.72584210526318)[once again, thank you very much for](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=23&mode=live&start=53.989) [watching this course, I really appreciate it.](https://app.pluralsight.com/player?course=sql-server-2014-dmv-diagnostic-queries-part1&author=glenn-berry&name=sql-server-2014-dmv-diagnostic-queries-part1-m3-instance-config2&clip=23&mode=live&start=60.989)