

5 STEPS FOR REDUCING DATACENTER AND CLOUD FOOTPRINTS



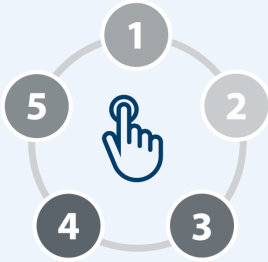
VROOM PERFORMANCE HELPS IT ORGANIZATIONS BY

- BOOSTING SYSTEM PERFORMANCE,
- MAXIMIZING CUSTOMER SATISFACTION,
- AND IMPROVING SERVICE DELIVERY.

THESE ARE 5 STEPS TO
SUCCESSFULLY REDUCE YOUR
CLOUD AND DATACENTER FOOTPRINTS



5 Steps For Improving Database Performance



Information Technology solutions are a critical element of customer satisfaction and business strategy. Improving performance improves customer experience and lowers costs. Potential customers form their impression based the speed, quality, and reliability of services delivered. Data shows that up to 88% of poor application performance issues can be attributed to the database.

Here are 5 steps that deliver higher performing systems that require less cloud or datacenter resources .

Establish Baselines

1

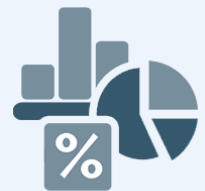
Performance tuning is the improvement of system performance. In order to measure improvement you must understand and record the current performance of your systems. A common mistake is using too short a time interval to collect this data. A longer period of time ensures that the accuracy of baselines are not impacted by any anomalies. Typically we recommend an interval no shorter than 2 weeks.



Choose Key Metrics

2

After you have established your performance baselines you need to select your primary key performance metrics. A common mistake when improving performance is to start with too many metrics. Focus on one or two initially that are obvious from your baseline data. The most common metrics that we use are Database Logical Reads and CPU time. The volume of deadlocks and blocked processes will decrease as database queries become more efficient.



3

Apply the 80/20 Rule

A stylized icon representing the 80/20 rule, with the number 80 above a horizontal line and the number 20 below it.

Enterprise class systems are complex by nature. The key to successfully tuning these systems is focusing your efforts on the most impactful queries identified in your baseline data. Using the 80/20 rule (or Pareto Principle) will transform reactive performance tuning efforts into strategic methodologies. The goals of performance tuning effort is sustainable performance improvement. As a result troubleshooting a current issue should be classified as performance tuning.

4

Focus on the Top Consumers

A stylized icon representing the top 10 rule, with the number 10 above a pedestal.

Applying Pareto analysis to your baseline data will highlight the highest resource consuming queries. Focus on the 5 or 10 queries that have the most impact on your key performance metrics. Evaluate the execution plans, whether SQL is using seeks or scans. If SQL Server is suggesting adding any indexes, evaluate the impact of index maintenance before including too many columns. Remember optimizing top consumers will result in improvements to any queries previously impacted by them.

5

Use the Incremental Change Model



As you optimize the top resource consuming queries you will need to recalibrate your baselines. Continue by repeating the 5 steps, making improvements to the worst performing queries in your database. These improvements will incrementally build upon the positive results already achieved. As you go through multiple iterations, change to different key performance metric as appropriate.

[For more information on performance tuning check out our community](#)

Vroom Performance helps customers identify and solve the true root causes of poor system performance in MS SQL bases systems. Our Products and Services help customers maximize performance from their IT assets.

What our customers are saying



VPS has really helped us optimize our system integrations to minimize the impact on performance

Nancy

Application Support and Development



VPS allowed me focus on my job and not constantly chase performance and stability problems."

Ron

Software Specialist

Our solution



simplify IT



Our core expertise



IT performance



regulatory compliance



database development



service management



database management



capacity management



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