

# SQL Server: Scaling SQL Server 2012 and 2014: Part 2

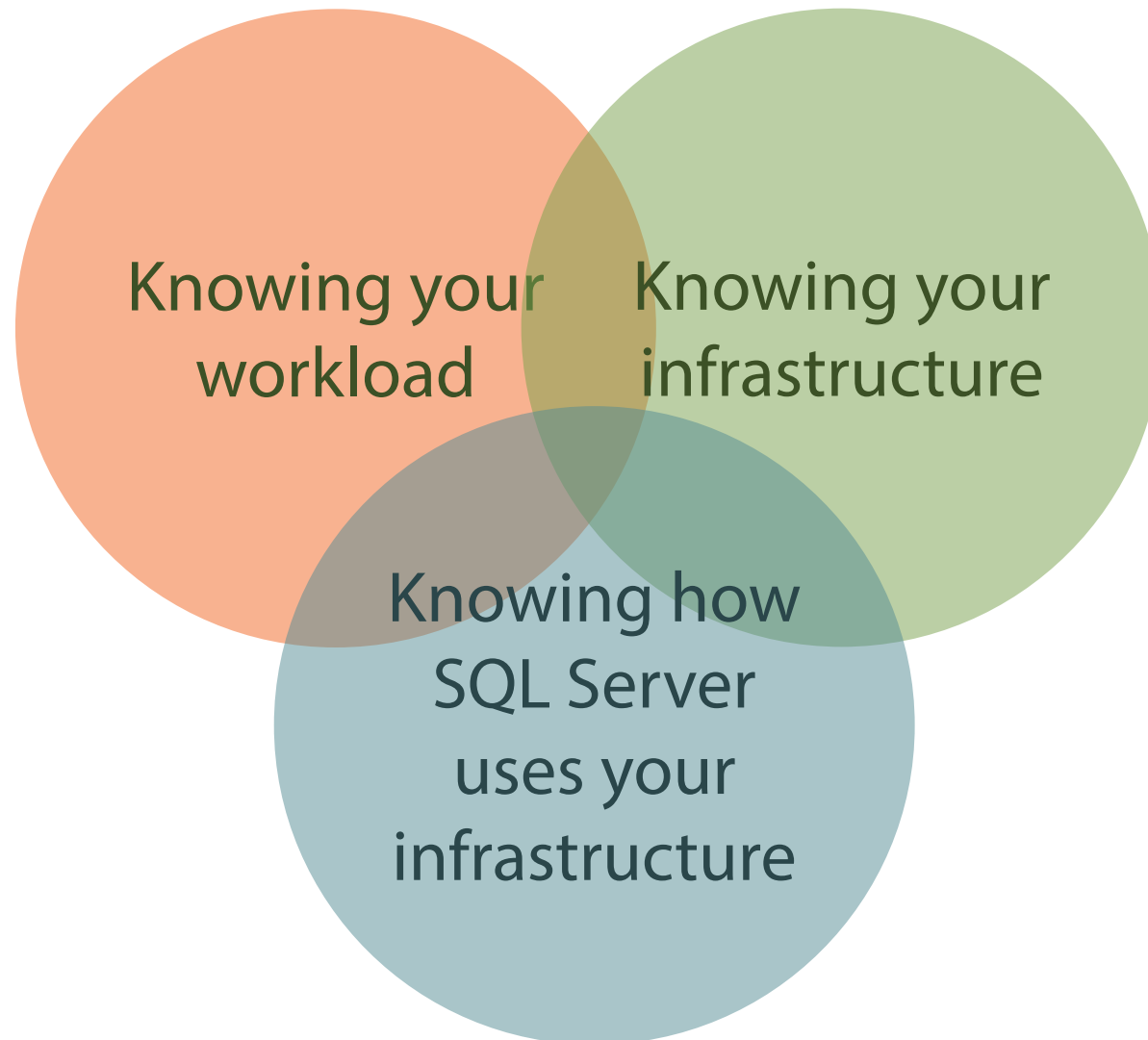
## Introduction



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# Instance-Level Scalability in SQL Server



# What This Course Covers

## Course objective

Build on knowledge from part 1

## Details

More considerations around instance performance  
OS and instance-level configuration settings  
Hardware and storage considerations  
More troubleshooting techniques  
Course expects basic knowledge of database server terminology  
Applies to all editions of SQL Server 2005 onward but most relevant for SQL Server 2012 and 2014

# What This Course Covers

## Course objective

Build on the knowledge from part 1

Factors that can influence performance

## Details

Database server hardware and storage infrastructure

Incorrect OS, instance-level, and database-level configuration settings

Incorrect hardware and storage configuration

Needing to scale up or scale out

# What This Course Covers

## Course objective

Build on the knowledge from part 1  
Factors that can influence performance  
Points to bear in mind

## Details

Truly scalable database servers don't happen by accident  
Several configuration settings are extremely important for performance and scalability  
Very important to consider database server as a system with several different layers that can affect scalability

# What We're NOT Going to Cover



This is not a course on query tuning

This is not a course on how to write or re-write client or middle-tier applications to get better performance

This is not a course on indexing or statistics

This is not a course on application development

This is not a course on how to detect application-level performance issues

# Course Order



Please try to watch these courses in order:

1) *SQL Server: SQL Server 2012: Installation and Configuration*

- Covers how to properly install/configure SQL Server 2012, also applicable to SQL Server 2014

2) *SQL Server: Scaling SQL Server 2012–Part 1*

- Covers application-level performance issues and how to detect performance bottlenecks

3) This course: *SQL Server: Scaling SQL Server 2012 and 2014–Part 2*

- Covers database and instance configuration issues, storage and hardware issues and scaling techniques

# Course Focus and Structure



Module 2: Database Configuration Settings

Module 3: Instance Configuration Settings

Module 4: Storage Subsystem Issues

Module 5: Hardware Issues

Module 6: Scaling Up SQL Server

Module 7: Scaling Out SQL Server

Module 8: New Scalability Features in SQL Server 2014

Consider watching all components of this course – in order



# What This Module Covered



Instance-level performance tuning in SQL Server

What the course does and doesn't cover

Course structure