Licensing Microsoft SQL Server 2016

Volume Licensing

OVERVIEW

SQL Server 2016 is a secure, scalable database platform that has everything built in, from advanced analytics to unparalleled in-memory performance.

















The principal editions of SQL Server 2016 are:

- ▶ Enterprise Edition
- ▶ Standard Edition

Notes on other editions

- A Parallel Data Warehouse appliance is licensed with Enterprise Core licenses
- Developer edition is functionally equivalent to Enterprise edition and may be downloaded free of charge by members of the Dev Essentials program: https://www.visualstudio.com/products/visual-studio-dev-essentials-vs

SQL SERVER 2016 LICENSING MODELS

Enterprise Edition: Core licensing only



► Standard Edition: Core or Server/CAL licensing



Enterprise edition licensed Server/CAL

- ▶ Limited to running in the physical environment on servers with 20 cores or less
- 4 virtual machines allowed per Server license with a maximum of 20 cores used across the VMs
- Only available for customers renewing SA on an eligible Server/CAL licensed edition



Core Licensing

Standard and Enterprise Editions are available through the Core licensing model. Rules for calculating required licenses:

- Count the number of cores in the server
- Buy that number of Core licenses, as long as a minimum of 4 licenses are acquired per processor
- Core licenses are sold in multiples of 2
- No CALs are required for internal or external users



Server/CAL Licensing

Purchase a SQL Server license for each server, and then purchase Client Access Licenses (CALs) for either users or devices:









the user and allows that user to use multiple

For both types of CAL, the users or devices are licensed to access ANY SQL Server on the network. The SQL CALs can also be used against any SQL Server regardless of platform or edition.

Note that even if a user accesses SQL indirectly through another server (for example when using a Line of Business application), a CAL is still required. This is often known as multiplexing.

External Users may be licensed with User or Device CALs or via Core licenses.



Licensing Microsoft SQL Server 2016 - continued

DOWN-EDITION RIGHTS

Can choose to deploy:

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Customers licensed for:	Software Edition	Software Version
SQL Server 2016 Standard	Standard Workgroup Small Business	2016 or earlier 2008 R2 or earlier 2008 R2 or earlier
SQL Server 2016 Enterprise	Standard Enterprise Business Intelligence Workgroup Small Business Datacenter	2016 or earlier 2016 or earlier 2014 or earlier 2008 R2 or earlier 2008 R2 or earlier 2008 R2 or earlier

SOFTWARE ASSURANCE UPGRADE RIGHTS

Existing Licenses with SA on June 1, 2016	Upgrade Rights	
SQL Server 2014 Standard Core	SQL Server 2016 Standard Core	
SQL Server 2014 Enterprise Core	SQL Server 2016 Enterprise Core	
SQL Server 2014 Standard Server	SQL Server 2016 Standard Server	
SQL Server 2014 Business Intelligence Server	SQL Server 2016 Enterprise Server	
SQL Server 2014 Enterprise Server	SQL Server 2016 Enterprise Server	

STEP-UPS

- ▶ SA benefit: Lower edition license must be covered with SA
- Available Step-ups: Standard Core to Enterprise Core
- Cannot step-up between licensing models

LICENSING SQL 2016 IN VIRTUAL ENVIRONMENTS

Server/CAL Editions

Assign a SQL Server 2016 Server license to each virtual machine running SQL Server 2016

Core Editions

License the virtual processors used by the virtual machines, with a minimum of 4 Core licenses per virtual machine





licenses with SA



SQL 2016 Enterprise Core Virtualization Rights

Licensing all the physical cores gives rights to a virtual machine per Core license

Unlimited Virtualization License all the physical cores with Enterprise Edition Core licenses with Software Assurance

PREMIUM ASSURANCE

- Premium Assurance is an Add-on purchase for customers with active Software Assurance that allows them to add six years of product support for SQL Server 2008 and newer versions
- It is available in the Enterprise Agreement, Enterprise Subscription Agreement, Server and Cloud Enrollment, and Enrollment for Education Solutions. Premium Assurance must be purchased for all SQL Server licenses with active SA in these agreements
- Premium Assurance must be purchased for a product before it goes out of Extended Support. For example, to receive support for SQL Server 2008 Premium Assurance must be purchased before June 30, 2019

FAIL-OVER LICENSING

Each active server licensed with SA coverage allows the installation of a single passive server used for fail-over support, as long as the passive server has the same or fewer cores than the active server.





If organizations have used SQL Server 2016 licenses with SA to license workloads in the cloud, then they may fail-over to another instance in the cloud. On-premises workloads may not fail-over to the cloud using this benefit.



LICENSING SQL COMPONENTS

SQL Server includes services such as Microsoft® SQL Server® Reporting Services and Microsoft® SQL Server® Analysis Services which are key to the Microsoft Business Intelligence solution.

When SQL Server runs with all of its components in one server, only one license is required.

However, if the database is running in one server, Analysis Services on a second, and Reporting Services on a third, then three licenses are required.





LICENSE MOBILITY

All SQL Server 2016 licenses purchased with Software Assurance have License Mobility rights.

- License Mobility across Server Farms allows licenses to be moved between servers within a server farm as often as required, supporting a virtualized environment where virtual machines frequently move between physical servers
- License Mobility through Software Assurance allows an organization to license SQL Server 2016 in virtual machines on third party shared servers or Azure. Licenses are assigned to these virtual machines following the usual virtualization licensing rules (see left)

Further Microsoft Licensing handouts and exams: <u>GetLicensingReady.com</u>

