|  |
| --- |
| SQL Server 2005 Books Online |
|  |
| How to: Install SQL Server 2005 from the Command Prompt | [ms-help://MS.SQLCC.v9/MS.SQLSVR.v9.en/instsql9/html/df40c888-691c-4962-a420-78a57852364d.htm - FeedbackSend Feedback](ms-help://MS.SQLCC.v9/MS.SQLSVR.v9.en/instsql9/html/df40c888-691c-4962-a420-78a57852364d.htm#Feedback) |
|  | [seeAlsoSectionSee Also](#seeAlsoSection) |

|  |
| --- |
| Collapse AllExpand All Language Filter: AllLanguage Filter: MultipleLanguage Filter: Visual BasicLanguage Filter: C#Language Filter: C++Language Filter: J#Language Filter: JScript |

|  |
| --- |
| [Upgrading SQL Server Components](8c69df2a-02e7-4665-a3ee-4f038f50b4ac.htm) > [Upgrading SQL Server Components How-to Topics](a9804842-3822-4b2f-874e-4bd9d5ce56db.htm) > [Upgrading the Database Engine How-to Topics](2055865c-f25e-4113-b7e4-2b8ba426335b.htm) > |

Visual Basic(Declaration)   
C#  
C++  
J#  
JScript

Before you run Setup for SQL Server 2005, review [Preparing to Install SQL Server 2005](c4f5f64a-7d2d-492d-947e-68a192f23193.htm). If you are installing a failover cluster, also review Before Installing Failover Clustering.

|  |
| --- |
| **Note:** |
| For local installations, you must run Setup as an administrator. If you install SQL Server from a remote share, you must use a domain account that has read and execute permissions on the remote share. For failover cluster installations, you must be a local administrator with permissions to logon as a service, and to act as part of the operating system on all nodes of the virtual server. |

Use the following sample scripts to install, update, or remove SQL Server 2005 components from the command prompt. The scripts provide command prompt syntax to install SQL Server 2005 in typical user scenarios. Test and modify samples to meet the needs of your organization.

Sample scripts are divided into the following categories:

* [Installation scripts](#installationscripts)
* [Maintenance scripts](#maintenancescripts)
* [Uninstall scripts](#uninstallscripts)

For detailed information about specific parameters for installing from command prompt, see [Parameters](#parameters).

Installation Scripts

Test and modify the following installation scripts to meet the needs of your organization.

To install a new, stand-alone instance of SQL Server 2005 from the command prompt

1. Insert the SQL Server 2005 installation media into the disk drive.
2. For instance-aware components - the Database Engine, SQL Server Agent, Analysis Services, and Reporting Services - use the following syntax:

|  |  |
| --- | --- |
|  | **Copy Code** |
| Start /wait *<DVD Drive>*\setup.exe /qb INSTANCENAME=*<InstanceName>* ADDLOCAL=SQL\_Engine,SQL\_Replication SAPWD=*<StrongPassword>* | |

|  |
| --- |
| **Important:** |
| Always use strong passwords. |

For the default instance, specify "MSSQLSERVER" for *<InstanceName>*. For a named instance, specify the instance name. For instance naming guidelines, see [Instance Name](5bf822fc-6dec-4806-a153-e200af28e9a5.htm).

To install a new, clustered instance of SQL Server 2005 from the command prompt

1. Insert the SQL Server 2005 installation media into the disk drive.
2. For a new failover cluster, use the following syntax:

|  |  |
| --- | --- |
|  | **Copy Code** |
| Start /wait *<DVD Drive>*\setup.exe /qn VS=*<VSName>* INSTALLVS=SQL\_Engine INSTANCENAME=*<InstanceName>* ADDLOCAL=SQL\_Engine,Client\_Components ADDNODE=*<NodeName1,NodeName2>* GROUP=*<Diskgroup>* IP=<IP,Networkname> ADMINPASSWORD=*<StrongPassword>* SAPWD=*<StrongPassord>* INSTALLSQLDIR=*<InstallationPath>* INSTALLSQLDATADIR=*<ShareDrivePath>* SQLACCOUNT=*<domain\user>* SQLPASSWORD=*<DomainUserPassword>* AGTACCOUNT=*<domain\user>* AGTPASSWORD=*<DomainUserPassword>* | |

|  |
| --- |
| **Important:** |
| Always use strong passwords. |

The /qn switch suppresses all Setup dialog boxes and error messages. If the /qn switch is specified, all Setup messages, including error messages, are written to Setup log files. For more information about log files, see [How to: View SQL Server 2005 Setup Log Files](9d77af64-9084-4375-908a-d90f99535062.htm).

The /qb switch allows the display of basic Setup dialog boxes. Error messages are also displayed.

Return to [top](#installationscripts).

Maintenance Scripts

Test and modify the following maintenance scripts to meet the needs of your organization.

To add components to an existing, stand-alone instance of SQL Server 2005 from the command prompt

1. Insert the SQL Server 2005 installation media into the disk drive.
2. To add Full-Text Search and remove Replication, use the following syntax:

|  |  |
| --- | --- |
|  | **Copy Code** |
| Start /wait *<DVD Drive>*\setup.exe /qb INSTANCENAME=*<InstanceName>* ADDLOCAL=SQL\_FullText REMOVE=SQL\_Replication | |

For the default instance, specify "MSSQLSERVER" for *<InstanceName>*. For a complete list of parameters, see [Parameters](#parameters) below.

To add components to an existing, SQL Server 2005 cluster from the command prompt

1. Insert the SQL Server 2005 installation media into the disk drive.
2. To add Analysis Services to an existing cluster, use the following syntax:

|  |  |
| --- | --- |
|  | **Copy Code** |
| start /wait setup.exe /qn VS=*<VSName>* INSTALLVS=Analysis\_Server INSTANCENAME=*<InstanceName>* ADDLOCAL=Analysis\_Server ADDNODE=*n*  GROUP=*<NotSQLDiskGroup>* IP=*<IP,Networkname>* ADMINPASSWORD=*<StrongPassword>* SAPWD=<*StrongPassword*> INSTALLSQLDIR=*<InstallationPath>* INSTALLSQLDATADIR=*<ShareDrivePath>* ASACCOUNT=*<domain\user>* ASPASSWORD=*<DomainUserPassword>* SQLBROWSERACCOUNT=*<domain\user>* SQLBROWSERPASSWORD=<*DomainUserPassword*> SQLREPORTING=1 | |

For a complete list of parameters, see [Parameters](#parameters) below.

To add nodes to an existing SQL Server 2005 cluster from the command prompt

1. Insert the SQL Server 2005 installation media into the disk drive.
2. Use the following syntax:

|  |  |
| --- | --- |
|  | **Copy Code** |
| start /wait setup.exe /qn VS=*<VSName>* INSTALLVS=SQL\_Engine INSTANCENAME=*<InstanceName>* ADMINPASSWORD=*<StrongPassword>* ADDNODE=*<NodeName>* | |

|  |
| --- |
| **Important:** |
| Always use strong passwords. |

For the default instance, specify "MSSQLSERVER" for *<InstanceName>*.

The /qn switch suppresses all Setup dialog boxes and error messages. If the /qn switch is specified, all Setup messages, including error messages, are written to Setup log files. For more information about log files, see [How to: View SQL Server 2005 Setup Log Files](9d77af64-9084-4375-908a-d90f99535062.htm).

The /qb switch allows the display of basic Setup dialog boxes. Error messages are also displayed.

To remove nodes from an existing SQL Server 2005 cluster from the command prompt

1. Insert the SQL Server 2005 installation media into the disk drive.
2. Use the following syntax:

|  |  |
| --- | --- |
|  | **Copy Code** |
| start /wait setup.exe /qn VS=*<VSName>* INSTALLVS=SQL\_Engine INSTANCENAME=*<InstanceName>* ADMINPASSWORD=*<StrongPassword>* REMOVENODE=*<NodeName>* | |

|  |
| --- |
| **Important:** |
| Always use strong passwords. |

For the default instance, specify "MSSQLSERVER" for *<InstanceName>*.

The /qn switch suppresses all Setup dialog boxes and error messages. If the /qn switch is specified, all Setup messages, including error messages, are written to Setup log files. For more information about log files, see [How to: View SQL Server 2005 Setup Log Files](9d77af64-9084-4375-908a-d90f99535062.htm).

The /qb switch allows display of basic Setup dialog boxes. Error messages are also displayed.

|  |
| --- |
| **Caution:** |
| If Microsoft SQL Server 2000 and SQL Server 2005 are installed side-by-side in a clustered environment, Microsoft SQL Native Client should not be uninstalled if you uninstall SQL Server 2005. The SQL Server Resource DLL from SQL Server 2005 always uses SQL Native Client to connect to SQL Server. When SQL Server 2005 is installed, the SQL Server Cluster Resource DLL is upgraded. When SQL Server 2005 is uninstalled, the SQL Server Resource DLL is not replaced with the version required by SQL Server 2000. Leaving SQL Native Client on cluster nodes allows the SQL Server Resource DLL to continue to connect to instances of SQL Server 2000. |

REINSTALLMODE is used to repair installed SQL Server 2005 components. For additional information about use of REINSTALLMODE, see the **Error! Hyperlink reference not valid.** and **Error! Hyperlink reference not valid.** sections below.

To rebuild system databases for a default instance of SQL Server 2005 from the command prompt

1. Insert the SQL Server 2005 installation media into the disk drive.
2. Use the following syntax:

|  |  |
| --- | --- |
|  | **Copy Code** |
| start /wait setup.exe /qn INSTANCENAME=*<InstanceName>* REINSTALL=SQL\_Engine REBUILDDATABASE=1 SAPWD=*<NewStrongPassword>* | |

|  |
| --- |
| **Important:** |
| Always use strong passwords. |

For the default instance, specify "MSSQLSERVER" for *<InstanceName>*.

**Important** The **resource** database (**mssqlsystemresource**) is restored from SQL Server 2005 distribution media. When you rebuild the **resource** database from distribution media, all Service Packs and QFE updates are lost, and therefore must be reapplied. Before you proceed, see **Error! Hyperlink reference not valid.** for more information.

The /qn switch suppresses all Setup dialog boxes and error messages. If the /qn switch is specified, all Setup messages, including error messages, are written to Setup log files. For more information about log files, see [How to: View SQL Server 2005 Setup Log Files](9d77af64-9084-4375-908a-d90f99535062.htm).

The /qb switch allows display of basic Setup dialog boxes. Error messages are also displayed.

To rebuild system databases for a clustered instance of SQL Server 2005 from the command prompt

1. Insert the SQL Server 2005 installation media into the disk drive.
2. Use the following syntax:

|  |  |
| --- | --- |
|  | **Copy Code** |
| start /wait setup.exe /qn VS=*<VSName>* INSTANCENAME=*<InstanceName>* REINSTALL=SQL\_Engine REBUILDDATABASE=1 ADMINPASSWORD=*<StrongPassword>* SAPWD=*<NewStrongPassword>* SQLACCOUNT=*<domain\user>* SQLPASSWORD=*<DomainUserPassword>* AGTACCOUNT=*<domain\user>* AGTPASSWORD=*<DomainUserPassword>* | |

|  |
| --- |
| **Important:** |
| Always use strong passwords. |

For the default instance, specify "MSSQLSERVER" for *<InstanceName>*.

**Important** The **resource** database (**mssqlsystemresource**) is restored from SQL Server 2005 distribution media. When you rebuild the **resource** database from distribution media, all Service Packs and QFE updates are lost, and therefore must be reapplied. Before you proceed, see the section below on **Error! Hyperlink reference not valid.** for more information.

The /qn switch suppresses all Setup dialog boxes and error messages. If the /qn switch is specified, all Setup messages, including error messages, are written to Setup log files. For more information about log files, see [How to: View SQL Server 2005 Setup Log Files](9d77af64-9084-4375-908a-d90f99535062.htm).

The /qb switch allows display of basic Setup dialog boxes. Error messages are also displayed.

To rebuild system databases and specify a new system collation

1. Insert the SQL Server 2005 installation media into the disk drive.
2. Run the following command from the command prompt:

|  |  |
| --- | --- |
|  | **Copy Code** |
| start /wait *<DVD Drive>*\setup.exe /qn INSTANCENAME=MSSQLSERVER REINSTALL=SQL\_Engine REBUILDDATABASE=1 SAPWD=*<NewStrongPassword>* SQLCOLLATION=*<NewSystemCollation>* | |

For INSTANCENAME, use **MSSQLSERVER** for a default instance. For a named instance, specify the instance name.

**Important** The **resource** database (**mssqlsystemresource**) is restored from SQL Server 2005 distribution media. When you rebuild the **resource** database from distribution media, all Service Packs and QFE updates are lost, and therefore must be reapplied. Before you proceed, see the section below on **Error! Hyperlink reference not valid.** for more information.

The /qn switch suppresses all Setup dialog boxes and error messages. If the /qn switch is specified, all Setup messages, including error messages, are written to Setup log files. For more information about log files, see [How to: View SQL Server 2005 Setup Log Files](9d77af64-9084-4375-908a-d90f99535062.htm).

The /qb switch allows display of basic Setup dialog boxes. Error messages are also displayed.

To repair all files, rebuild the registry, and replace all SQL Server shortcuts from the command prompt

1. Insert the SQL Server 2005 installation media into the disk drive.
2. Run the following command from the command prompt:

|  |  |
| --- | --- |
|  | **Copy Code** |
| start /wait *<DVD Drive>*\setup.exe /qb INSTANCENAME=MSSQLSERVER REINSTALL=ALL REBUILDDATABASE=1 REINSTALLMODE=omus SAPWD=*<NewStrongPassword>* | |

For INSTANCENAME, use MSSQLSERVER for a default instance. For a named instance, specify the instance name.

**Important** The **resource** database (**mssqlsystemresource**) is restored from SQL Server 2005 distribution media. When you rebuild the **resource** database from distribution media, all Service Packs and QFE updates are lost, and therefore must be reapplied. Before you proceed, see the section below on **Error! Hyperlink reference not valid.** for more information.

To repair SQL Server Management Studio shortcuts from the command prompt

1. Insert the SQL Server 2005 installation media into the disk drive.
2. Run the following command from the command prompt:

|  |  |
| --- | --- |
|  | **Copy Code** |
| start /wait *<DVD Drive>*\setup.exe /qb REINSTALL=SQL\_WorkBench REINSTALLMODE=S | |

For INSTANCENAME, use **MSSQLSERVER** for a default instance. For a named instance, specify the instance name.

To repair Full-Text Search Engine registry keys from the command prompt

1. Insert the SQL Server 2005 installation media into the disk drive.
2. Run the following command from the command prompt:

|  |  |
| --- | --- |
|  | **Copy Code** |
| start /wait *<DVD Drive>*\setup.exe /qb REINSTALL=SQL\_FullText INSTANCENAME=MSSQLSERVER REINSTALLMODE=M | |

For INSTANCENAME, use **MSSQLSERVER** for a default instance. For a named instance, specify the instance name.

Return to [top](#installationscripts).

Uninstall Scripts

Test and modify the following removal scripts to meet the needs of your organization.

To remove a default, stand-alone installation of SQL Server 2005 from the command prompt

* Side-by-side installations of SQL Server 2005, SQL Server 2000, and/or SQL Server 7.0, where any of the versions is uninstalled.
* Side-by-side installations of SQL Server 2000 with SQL Server 2005, where SQL Server 2000 is installed after SQL Server 2005.

To remove a default clustered instance of SQL Server 2005 from the command prompt

1. Uninstall SQL Server using the following syntax:

|  |  |
| --- | --- |
|  | **Copy Code** |
| start /wait setup.exe /qn VS=*<VSName>* INSTANCENAME=*<InstanceName>* REMOVE=SQL\_Engine ADMINPASSWORD=*<StrongPassword>* | |

For the default instance, specify "MSSQLSERVER" for *<InstanceName>*.

The /qn switch suppresses all Setup dialog boxes and error messages. If the /qn switch is specified, all Setup messages, including error messages, are written to Setup log files. For more information about log files, see [How to: View SQL Server 2005 Setup Log Files](9d77af64-9084-4375-908a-d90f99535062.htm).

The /qb switch allows display of basic Setup dialog boxes. Error messages are also displayed.

1. Uninstall SQL Native Client, using the following syntax:

|  |  |
| --- | --- |
|  | **Copy Code** |
| Start /wait *<DVD Drive>*\msiexec /qb /X *<DVD Drive>*\setup\sqlncli.msi | |

If SQL Server Setup fails to uninstall the cluster node, use the following steps:

1. Use the Registry Editor utility, regedit.exe, locate the registry key HLKM\Software\Microsoft\Microsoft SQL Server\*<instid>*\Setup, where *<instid>* is the specific SQL Server instance being uninstalled; for example, MSSQL.1 for the first instance and MSSQL.2 for the second instance.

|  |
| --- |
| **Caution:** |
| Incorrectly editing the registry can cause serious problems that may require you to reinstall your operating system. Microsoft cannot guarantee that problems resulting from editing the registry incorrectly can be resolved. Before editing the registry, back up any valuable data. For information about how to back up, restore, and edit the registry, see this [Microsoft Knowledge Base article](http://support.microsoft.com/kb/3199). |

1. In this key, set **SqlCluster=2**.
2. Repeat the previous 2 steps to update the **SqlCluster** key on all nodes in the cluster.
3. Move the shared disk to the computer that is currently being uninstalled and, on that node, use **Add or Remove Programs** to remove SQL Server 2005.
4. Move the shared disk to the next node, and use **Add or Remove Programs** to remove SQL Server 2005.
5. Repeat this move-and-uninstall process for each remaining node.

|  |
| --- |
| **Caution:** |
| If SQL Server 2005 is running along with previous SQL Server versions, Enterprise Manager or other programs that depend on SQL-DMO, the previous versions may be disabled. This may occur in the following situations: |

* Side-by-side installations of SQL Server 2005, SQL Server 2000, and/or SQL Server 7.0, where any of the versions is uninstalled.
* Side-by-side installations of SQL Server 2000 with SQL Server 2005, where SQL Server 2000 is installed after SQL Server 2005.

To run a command prompt installation of SQL Server 2005 using an .ini file

1. Run Setup.exe from the command prompt, providing the following parameters:



|  |  |
| --- | --- |
|  | **Copy Code** |
| Setup.EXE /settings C:/set.ini /qn | |

where the Setup.exe command is followed by the **/settings** switch that specifies the name of an .ini file containing settings for setup parameters, followed by the /qn switch to suppress the Setup user interface.

If the /qn switch is specified, all Setup messages, including error messages, are written to Setup log files. For more information about parameters for an .ini file, refer to the content that follows this section. For more information about Setup log file locations, see [How to: View SQL Server 2005 Setup Log Files](9d77af64-9084-4375-908a-d90f99535062.htm).

Return to [top](#installationscripts).

Parameters

You can use the parameters listed in the table below to develop command prompt installation scripts.

|  |  |  |
| --- | --- | --- |
| [[Options]](#options) | [[PIDKEY]](#pidkey) | [[INSTALLSQLDIR]](#installsqldir) |
| [[INSTALLSQLSHAREDDIR]](#installsqlshareddir) | [[INSTALLDATADIR]](#installdatadir) | [[INSTALLASDATADIR]](#installasdatadir) |
| [[ADDLOCAL]](#addlocal) | [[REMOVE]](#remove) | [[INSTANCENAME]](#upgrade) |
| [[UPGRADE]](#upgrade) | [[SAVESYSDB]](#savesysdb) | [[USESYSDB]](#usesysdb) |
| [[SQLACCOUNT], [SQLPASSWORD], [AGTACCOUNT], [AGTPASSWORD], [ASACCOUNT], [ASPASSWORD], [RSACCOUNT], and [RSPASSWORD]](#sqlaccount1) | [[AUTOSTART]](#autostart) | [[SECURITYMODE] and [SAPWD]](#securitymode) |
| [[SQLCOLLATION] and [ASCOLLATION]](#sqlcollation) | [[REBUILDDATABASE]](#rebuilddatabase) | [[REINSTALLMODE]](#reinstallmode) |
| [[RSCONFIGURATION]](#rsconfiguration) | [[SAMPLEDATABASESERVER]](#sampledatabaseserver) | [[DISABLENETWORKPROTOCOLS]](#disablenetworkprotocols) |
| [[ERRORREPORTING]](#errorreporting) |  |  |

For detailed information about each parameter, see the parameter descriptions below.

To install from a command prompt on a cluster, see [Parameters Required for Cluster Installation](#clusterparameters).

Return to [top](#installationscripts).

[Options]

The **[Options]** line is REQUIRED when using a settings (.ini) file. This is information for the **Registration Information** dialog box.

**Default**: If these parameters are not specified, the default user name and company name values for the server are used.

|  |
| --- |
| **Note:** |
| If names contain spaces, surround the names with quotes. |

|  |  |
| --- | --- |
|  | **Copy Code** |
| USERNAME=  COMPANYNAME= | |

[PIDKEY]

For the SQL Server 2005 milestones, the PIDKEY command is not required, because the parameter for the MSI file is preset. However, the final released version of the SQL Server 2005 requires the PIDKEY parameter.

**Usage**: PIDKEY=ABCDE12345FGHIJ67890KLMNO.

|  |
| --- |
| **Note:** |
| This is not an actual key value. |

**Notes**

* PIDKEY cannot be used for SQL Server Express installations.
* Do not include "**-**" in the PIDKEY.

|  |  |
| --- | --- |
|  | **Copy Code** |
| PIDKEY= | |

[INSTALLSQLDIR]

This is information for the **Feature Selection** dialog box. To use the default paths, do not specify this parameter.

|  |
| --- |
| **Note:** |
| If there is a space in a specified path, surround the path with quotes, and end every path with a trailing backslash (\). |

**Usage**: INSTALLSQLDIR specifies the location for the instance specific binary files. The default location is: \Program Files\Microsoft SQL Server\.

|  |
| --- |
| **Important:** |
| INSTALLSQLDIR is REQUIRED for clustered installations and must point to a local drive for which the drive letter exists on all nodes in the cluster definition. |

|  |  |
| --- | --- |
|  | **Copy Code** |
| INSTALLSQLDIR= | |

For more information about installation directories, see [File Locations for Default and Named Instances of SQL Server 2005](463c570e-9f75-4653-b3b8-4d61753b0013.htm).

[INSTALLSQLSHAREDDIR]

The INSTALLSQLSHAREDDIR parameter specifies a custom location for Integration Services, Notification Services, and Workstation components. In the example: Setup.exe <options> INSTALLSQLSHAREDDIR="**<InstallDir>**", the installation paths are:

* <InstallDir>\90\DTS
* <InstallDir>\90\Notification
* <InstallDir>\90\Tools

|  |  |
| --- | --- |
|  | **Copy Code** |
| INSTALLSQLSHAREDDIR= | |

For more information about installation directories, see [File Locations for Default and Named Instances of SQL Server 2005](463c570e-9f75-4653-b3b8-4d61753b0013.htm).

[INSTALLDATADIR]

INSTALLSQLDATADIR specifies the location for the SQL Server data files. The default location is the under the INSTALLSQLDIR location.

|  |
| --- |
| **Important:** |
| INSTALLSQLDATADIR is REQUIRED for clustered installations and must point to a shared drive which is a member of the cluster group specified for installation. |

|  |  |
| --- | --- |
|  | **Copy Code** |
| INSTALLSQLDATADIR= | |

For more information about installation directories, see [File Locations for Default and Named Instances of SQL Server 2005](463c570e-9f75-4653-b3b8-4d61753b0013.htm).

[INSTALLASDATADIR]

**Usage**: INSTALLASDATADIR specifies the location for the Analysis Services Data Files. The default location is: INSTALLSQLDIR\Data\.

|  |
| --- |
| **Note:** |
| Do not use this parameter with a SQL Server Express installation. |

If Analysis Services is already installed on the computer, this parameter is ignored.

|  |  |
| --- | --- |
|  | **Copy Code** |
| INSTALLASDATADIR= | |

For more information about installation directories, see [File Locations for Default and Named Instances of SQL Server 2005](463c570e-9f75-4653-b3b8-4d61753b0013.htm).

[ADDLOCAL]

**Usage**: ADDLOCAL specifies which components to install. If ADDLOCAL is not specified, Setup fails.

To install all components specify 'ADDLOCAL=**All**' on the command line.

ADDLOCAL Rules:

* Features are case sensitive.
* To use ADDLOCAL, provide a comma-delimited list with no spaces between the features to install. For example, to install everything except Analysis Services and Reporting Services components, the list would be as follows:
* ADDLOCAL=SQL\_Engine,SQL\_Data\_Files,SQL\_FullText,Notification\_Services,NS\_Engine,NS\_Client,SQL\_DTS,Client\_Components,Connectivity,SQL\_Tools90,SQL\_Profiler90,SDK,SQL\_Documentation,SQL\_BooksOnline,SQL\_SQLServerBooksOnline,SQL\_SQLServerMobileBooksOnline,SQL\_Samples,SQL\_AdventureWorksSamples,SQL\_AdventureWorksDWSamples,SQL\_AnalysisServiceSamples,SQL\_Samples
* Selecting a parent feature only installs the parent feature, not the parent and the child. Installing the child feature automatically installs the parent and the child features. Removing the parent feature removes both the parent and the child feature.
* You can also use ADDLOCAL to add components in maintenance mode. For example, after performing the installation shown above, you could add Analysis Services by specifying the following:
* ADDLOCAL=Analysis\_Server,AnalysisDataFiles,AnalysisSharedTools,Client\_Components,Connectivity

The following table shows parent/child feature relationships and their ADDLOCAL requirements for X86, IA64, and X64 installations of SQL Server 2005 Enterprise Edition, Developer Edition, Evaluation Edition, and Standard Edition.

|  |  |  |
| --- | --- | --- |
| **SQL Server 2005 feature** | **Parent feature name** | **Child feature name** |
| SQL Server Database Services | SQL\_Engine |  |
| SQL Server data files |  | SQL\_Data\_Files |
| Replication |  | SQL\_Replication |
| Full-Text Search Engine |  | SQL\_FullText |
|  |  |  |
| Analysis Services | Analysis\_Server |  |
| Analysis Services data files |  | AnalysisDataFiles |
|  |  |  |
| Reporting Services | RS\_Server |  |
| Report Manager |  | RS\_Web\_Interface |
|  |  |  |
| Notification Services | Notification\_Services |  |
| Notification Services engine components |  | NS\_Engine |
| Notification Services client components |  | NS\_Client |
| Notification Services rules components |  | NS\_Rules |
|  |  |  |
| Integration Services |  | SQL\_DTS |
|  |  |  |
| Client Components | Client\_Components |  |
| Connectivity Components |  | Connectivity |
| Management Tools |  | SQL\_Tools90 |
| SQL Server Profiler 1 |  | SQL\_Profiler90 |
| Business Intelligence Development Studio |  | SQL\_WarehouseDevWorkbench |
| Software Development Kit |  | SDK |
| SQLXML Client Features |  | SQLXML |
| Legacy components: Data Transformation Services 2000 Runtime and DMO |  | Tools\_Legacy |
| Documentation and Samples |  | SQL\_Documentation |
| Documentation |  | SQL\_BooksOnline |
| SQL Server Books Online |  | SQL\_SQLServerBooksOnline |
| SQL Server 2005 Mobile Edition Books Online |  | SQL\_SQLServerMobileBooksOnline |
| Sample databases |  | SQL\_DatabaseSamples |
| AdventureWorks sample OLTP |  | SQL\_AdventureWorksSamples |
| AdventureWorks sample data warehouse |  | SQL\_AdventureWorksDWSamples |
| AdventureWorks sample OLAP |  | SQL\_AdventureWorksASSamples |
| Samples |  | SQL\_Samples |

1 This is for command prompt installation only. The Installation Wizard installs SQL Server Profiler with Management Tools.

|  |  |
| --- | --- |
|  | **Copy Code** |
| ADDLOCAL= | |

The following table shows parent/child feature relationships and their ADDLOCAL requirements for X86, IA64, and X64 installations of SQL Server 2005 Workgroup Edition.

|  |  |  |
| --- | --- | --- |
| **SQL Server 2005 Workgroup feature** | **Parent feature name** | **Child feature name** |
| SQL Server Database Services | SQL\_Engine |  |
| SQL Server data files |  | SQL\_Data\_Files |
| Replication |  | SQL\_Replication |
| Full-Text Search Engine |  | SQL\_FullText |
|  |  |  |
| Integration Services |  | SQL\_DTS |
|  |  |  |
| Client Components | Client\_Components |  |
| Connectivity Components |  | Connectivity |
| Management Tools |  | SQL\_Tools90 |
| Software Development Kit |  | SDK |
| SQLXML Client Features |  | SQLXML |
| Legacy components: Data Transformation Services 2000 Runtime and DMO |  | Tools\_Legacy |
| Documentation and Samples |  | SQL\_Documentation |
| Documentation |  | SQL\_BooksOnline |
| SQL Server Books Online |  | SQL\_SQLServerBooksOnline |
| SQL Server 2005 Mobile Edition Books Online |  | SQL\_SQLServerMobileBooksOnline |
| Sample databases |  | SQL\_DatabaseSamples |
| AdventureWorks sample OLTP |  | SQL\_AdventureWorksSamples |
| AdventureWorks sample data warehouse |  | SQL\_AdventureWorksDWSamples |
| AdventureWorks sample OLAP |  | SQL\_AdventureWorksASSamples |
| Samples |  | SQL\_Samples |

|  |  |
| --- | --- |
|  | **Copy Code** |
| ADDLOCAL= | |

The following table shows parent/child feature relationships and their ADDLOCAL requirements for X86, IA64, and X64 installations of SQL Server 2005 Express Edition.

|  |  |  |
| --- | --- | --- |
| **SQL Server 2005 Express feature** | **Parent feature name** | **Child feature name** |
| SQL Server Database Services | SQL\_Engine |  |
| SQL Server data files |  | SQL\_Data\_Files |
| Replication |  | SQL\_Replication |
|  |  |  |
| Client Components | Client\_Components |  |
| Connectivity Components |  | Connectivity |
| Software Development Kit |  | SDK |

|  |  |
| --- | --- |
|  | **Copy Code** |
| ADDLOCAL= | |

[REMOVE]

The REMOVE parameter specifies which components to uninstall, like SQL Server, Reporting Services, or Analysis Services. This command must be used in conjunction with the INSTANCENAME parameter. For example, to remove the instance aware component AND any non-instance aware components, such as Client\_Components, you would specify the following:

* REMOVE=All INSTANCENAME=MSSQLSERVER

|  |
| --- |
| **Important:** |
| Do not use this parameter if you have several instances installed and you still want to use client tools. |

To remove all non-instance aware components, such as Client\_Components and SQL\_DTS, specify REMOVE=ALL without reference to the instance name.  
  
When REMOVE is specified for a new installation, components listed after 'REMOVE=' are not included for installation. For example, to install every component except for Reporting Services components during a new installation specify the following:

* ADDLOCAL=All REMOVE=RS\_Server,RS\_Web\_Interface

REMOVE can also be used during maintenance to remove components from an existing installation. For example, to remove Full-Text Search, specify the following:

* REMOVE=SQL\_FullText

|  |
| --- |
| **Important:** |
| Removing the parent feature removes both the parent and the child feature. |

|  |  |
| --- | --- |
|  | **Copy Code** |
| REMOVE= | |

[INSTANCENAME]

This is information for the **Instance Name** dialog box. The INSTANCENAME parameter is REQUIRED for instance-aware components. For a default instance, use MSSQLSERVER. For shared, instance-unaware components -- Notification Services, Integration Services, and client components -- this parameter can be omitted.

|  |  |
| --- | --- |
|  | **Copy Code** |
| INSTANCENAME= | |

[UPGRADE]

The UPGRADE parameter specifies which product to upgrade. The allowed value is **SQL\_Engine** to upgrade SQL Server. If the UPGRADE option is specified, the INSTANCENAME parameter is REQUIRED to define the instance to upgrade. For example, to upgrade a default instance of SQL Server, use the following command line:

* UPGRADE=SQL\_Engine INSTANCENAME=MSSQLSERVER

To upgrade a named instance of SQL Server in which the SQL Service is running under a domain account, and you would like to add the client components and tools, run this command:

* UPGRADE=SQL\_Engine INSTANCENAME**=***<InstanceName>* SQLACCOUNT=*<domainname>\<accountname>* SQLPASSWORD=*<StrongPassword>* ADDLOCAL=Client\_Components

|  |  |
| --- | --- |
|  | **Copy Code** |
| UPGRADE= | |

[SAVESYSDB]

The SAVESYSDB parameter can be used during uninstall to specify not to delete system databases. If SAVESYSDB is set to **1**, the system databases are left in the SQL data directory. This option is typically used in cases where a future upgrade is planned.

|  |  |
| --- | --- |
|  | **Copy Code** |
| SAVESYSDB= | |

[USESYSDB]

The USESYSDB parameter specifies the root path to the data directory of the system databases during upgrade. For example, if the database was installed to D:\Microsoft SQL Server\MSSQL.1\MSSQL\DATA the usesysdb parameter should be USESYSDB="D:\Microsoft SQL Server\MSSQL.1\MSSQL".

If you set an installation path for the Database Engine feature, SQL Server Setup uses that path as the root directory for all instance-specific folders for that installation, including SQL Server data files. In this case, if you set the root to "C:\Program Files\Microsoft SQL Server\MSSQL.1\MSSQL\," instance-specific directories are appended to that path.

Customers choosing to use the USESYSDB upgrade functionality can easily lead themselves into a situation where the product gets installed into a recursive folder structure - for example, *<SQLProgramFiles>*\MSSQL.1\MSSQL\MSSQL.1\MSSQL\Data\. Instead, to use the USESYSDB feature, set an installation path for the SQL Server data files instead of the Database Engine feature.

|  |
| --- |
| **Note:** |
| Data files are always expected to be found in a child directory named "**Data**." For example, specify "**C:\Program Files\Microsoft SQL Server\MSSQL.1\**" to specify the root path to the data directory of the system databases during upgrade when data files are found under "**C:\Program Files\Microsoft SQL Server\MSSQL.1\MSSQL\Data**." |

|  |
| --- |
| **Important:** |
| When using USESYSDB to install SQL Server 2005 with a set of data files from a previous installation, make sure that the .MDF and .LDF files for system databases are in the same directory. |

|  |  |
| --- | --- |
|  | **Copy Code** |
| USESYSDB= | |

[SQLACCOUNT], [SQLPASSWORD], [AGTACCOUNT], [AGTPASSWORD], [ASACCOUNT], [ASPASSWORD], [RSACCOUNT], and [RSPASSWORD]

This is information for the **Service Accounts** dialog box. If these parameters are not specified, Setup defaults to the **LocalSystem** account.

|  |
| --- |
| **Note:** |
| By default, the services for SQL Server and Analysis Services are set to auto-start. |

To use the \*ACCOUNT settings, make sure to specify the DOMAIN, e.g., SQLACCOUNT=DOMAINNAME\ACCOUNT.

|  |
| --- |
| **Important:** |
| SQLACCOUNT, SQLPASSWORD, AGTACCOUNT, and AGTPASSWORD are required for Virtual Server installations. ASACCOUNT and ASPASSWORD cannot be used with Virtual Server installations. |

|  |  |
| --- | --- |
|  | **Copy Code** |
| SQLACCOUNT=  SQLPASSWORD=  AGTACCOUNT=  AGTPASSWORD=  ASACCOUNT=  ASPASSWORD=  RSACCOUNT=  RSPASSWORD= | |

[AUTOSTART]

To use the \*AUTOSTART parameter, specify **1** to start automatically or **0** to start manually. If you decide to start SQL Server Agent automatically, then SQL is also started automatically. The default values for these parameters are specified below.

|  |  |
| --- | --- |
|  | **Copy Code** |
| SQLAUTOSTART=1  AGTAUTOSTART=0  ASAUTOSTART=1  RSAUTOSTART=1 | |

[SECURITYMODE] and [SAPWD]

This is information for the **Authentication Mode** dialog box. To use Mixed Mode Authentication, use SECURITYMODE=SQL. If SECURITYMODE=SQL is not specified, then Windows Authentication only is used.

|  |
| --- |
| **Important:** |
| When possible, use Windows Authentication. |

To set the **sa** password specify SAPWD. A strong **sa** password is required by SQL Server Setup.

|  |
| --- |
| **Important:** |
| Setting strong passwords is essential to the security of your system. Never set a blank or weak **sa** password. |

|  |  |
| --- | --- |
|  | **Copy Code** |
| SECURITYMODE=SQL  SAPWD= | |

For more information about strong password guidelines, see [Authentication Mode](ff7a6a48-3d38-4209-aa0f-7d6c0a8c64ef.htm).

[SQLCOLLATION] and [ASCOLLATION]

This is information for the **Collation Settings** dialog box. The SQLCOLLATION parameter sets the SQL Server collation, and the ASCOLLATION parameter sets the Analysis Services collation.

|  |  |
| --- | --- |
|  | **Copy Code** |
| SQLCOLLATION=  ASCOLLATION= | |

For more information about collation settings, see [Collation Settings in Setup](11ce1a3d-8314-41a3-be5f-03db90bea61b.htm), [Windows Collation Sorting Styles](314b256e-9960-4126-9fa8-957b6d322e8a.htm), and [Using Binary Collations](0511195f-16dc-4334-adde-ff5e5e7f6c9f.htm).

[REBUILDDATABASE]

This is information for rebuilding system databases. When system databases are corrupted, or to reset the system collation, they must be brought back to the state to which they were when originally installed. This functionality is exposed using the REBUILDDATABASE parameter, specifying REBUILDDATABASE=**1**. Additional parameters required when using REBUILDDATABASE include:

* SQLACCOUNT, SQLPASSWORD
* SQLAGTACCOUNT, SQLAGTPASSWORD
* SQLBROWSERACCOUNT, SQLBROWSERPASSWORD

**Implications of rebuilding the master database**

Rebuilding the **master** database reverts all of the system databases to their original content and attributes.

**After rebuilding the master database**

After rebuilding **master**, you must:

1. Restore your most recent full backups of the **master**, **model**, and **msdb** databases. If a backup is not available, go on to Step 2.
2. If a restored backup of a database is not current, re-create any missing entries. For example, in the **master** database, re-create all missing entries for your user databases, backup devices, SQL Server logins, endpoints, and so forth. The best way to re-create entries is to run the original scripts that were used to create those entries, if available.

|  |
| --- |
| **Security Note:** |
| We recommend that you secure your scripts to prevent their content from being altered by unauthorized individuals. |

We also recommend that when you finish updating a database, you back it up. For more information, see the topics for Backing Up the master Database and Backing Up the model and msdb Databases in SQL Server 2005 Books Online.

1. If the server instance is configured as a replication Distributor, you must restore the **distribution** database. For more information, see the topic for Backing Up and Restoring Replicated Databases in SQL Server 2005 Book Online.
2. In SQL Server 2005, system objects are stored in the **resource** database. This database is updated whenever a SQL Server update (QFE or service pack) is applied to the SQL Server executable, **sqlservr.exe**. After rebuilding the master database, you must reapply any SQL Server updates that you have previously applied to the server instance. For more information, see the topic for Resource Database in SQL Server 2005 Books Online.

|  |
| --- |
| **Important:** |
| Do not include the **mssqlsystemresource.mdf** file - the **resource** database - in regular database backup and restore processes. It contains neither data nor metadata; it contains code. By default, SQL Server backup and restore components automatically omit the **resource** database. |

|  |
| --- |
| **Note:** |
| The REBUILDDATABASE option is only available in unattended setup. Either the /qn or /qb option must be used. The /qn switch suppresses all Setup dialog boxes and error messages. If the /qn switch is specified, all Setup messages, including error messages, are written to Setup log files. For more information about log files, see [How to: View SQL Server 2005 Setup Log Files](9d77af64-9084-4375-908a-d90f99535062.htm).  The /qb switch allows the display of basic Setup dialog boxes. Error messages are also displayed. |

|  |
| --- |
| **Important:** |
| In order to rebuild system databases, a new **sa** password is REQUIRED. |

|  |  |
| --- | --- |
|  | **Copy Code** |
| REBUILDDATABASE= | |

[REINSTALLMODE]

This is information for repairing installed components. When using REINSTALLMODE, you are required to specify a REINSTALL parameter. REINSTALL parameters use the same values as ADDLOCAL parameters.

|  |
| --- |
| **Note:** |
| The REINSTALLMODE option is only available in unattended Setup and either the /qn or /qb option must be used. The /qn switch suppresses all Setup dialog boxes and error messages. If the /qn switch is specified, all Setup messages, including error messages, are written to Setup log files. For more information about log files, see [How to: View SQL Server 2005 Setup Log Files](9d77af64-9084-4375-908a-d90f99535062.htm).  The /qb switch allows display of basic Setup dialog boxes. Error messages are also displayed. |

The supported values for REINSTALLMODE are:

* **O** - Reinstall if the file is missing or if it is an older version
* **M** - Rewrite machine-specific registry keys under HKLM
* **U** - Rewrite user-specific registry keys under HKCU
* **S** - Reinstall all shortcuts

|  |  |
| --- | --- |
|  | **Copy Code** |
| REINSTALLMODE= | |

[RSCONFIGURATION]

This is information for the **Reporting Services Configuration** dialog box. This parameter should be specified when Reporting Services or Report Manager features are being installed, and can be either **FilesOnly** or **Default**. The **FilesOnly** option only installs the files without actually configuring the reporting service. The Default option installs the Reporting Services using the default options.

|  |  |
| --- | --- |
|  | **Copy Code** |
| RSCONFIGURATION= | |

For more information, see [Report Server Installation Options](e4561f6c-bc7f-467e-821a-cde8e5cd7391.htm).

[SAMPLEDATABASESERVER]

This is information for the **Sample Databases** dialog box. This parameter is used when **AdventureWorks Samples** or **AdventureWorksDW Samples** features are being installed.

Sample databases can be attached to any existing local SQL Server instance that is the same version as the sample databases. The parameter specifies the machine and instance names to which the samples should be attached, as follows:

* SAMPLEDATABASESERVER - **MachineName\InstanceName**

|  |  |
| --- | --- |
|  | **Copy Code** |
| SAMPLEDATABASESERVER= | |

[DISABLENETWORKPROTOCOLS]

This parameter is used for setting the startup type of the network protocols. It has the following 3 options:

* **0** - Shared memory = On, Named Pipes = On, TCP/IP = On
* **1** - Shared memory = On, Named Pipes = Off (local only), TCP/IP = Off
* **2** - Shared memory = On, Named Pipes = Off (local only), TCP/IP = On

|  |  |
| --- | --- |
|  | **Copy Code** |
| DISABLENETWORKPROTOCOLS= | |

[ERRORREPORTING]

This is information for the **Error Reporting** dialog box. If you enable this feature, SQL Server and its components, and Analysis Services are configured to automatically send a report to Microsoft if a fatal error occurs in the SQL Server Database Engine, SQL Server Agent, or Analysis Services. Microsoft uses error reports to improve SQL Server functionality, and treats all information as confidential.

To enable error reporting specify ERRORREPORTING=**1**. If ERRORREPORTING=**1** is not specified, the Error Reporting feature is disabled.

|  |  |
| --- | --- |
|  | **Copy Code** |
| ERRORREPORTING= | |

Parameters Required for Cluster Installations

|  |
| --- |
| **Note:** |
| To run a cluster installation, you must be on a cluster and specify /qn or /qb in the command line. The /qn switch suppresses all Setup dialog boxes and error messages. If the /qn switch is specified, all Setup messages, including error messages, are written to Setup log files. For more information about log files, see [How to: View SQL Server 2005 Setup Log Files](9d77af64-9084-4375-908a-d90f99535062.htm). |

The /qb switch allows display of basic Setup dialog boxes. Error messages are also displayed. For more information about failover clustering, see Configuring High Availability and Before Installing Failover Clustering.

The following parameters are required for cluster installations from command prompt.

|  |  |  |
| --- | --- | --- |
| [[INSTALLSQLDIR]](#installsqldir1) | [[INSTALLSQLDATADIR]](#installsqldatadir) | [[SQLACCOUNT], [SQLPASSWORD], [AGTACCOUNT], and [AGTPASSWORD]](#sqlaccount2) |
| [[INSTANCENAME]](#instancename1) | [[SAPWD]](#sapwd) | [[VS]](#vs) |
| [[INSTALLVS]](#installvs) | [[IP]](#ip) | [[GROUP]](#group) |
| [[ADDNODE]](#addnode) | [[REMOVENODE]](#removenode) |  |

[INSTALLSQLDIR]

This parameter is required for failover cluster installations. The drive letter must exist on both machines.

|  |  |
| --- | --- |
|  | **Copy Code** |
| INSTALLSQLDIR= | |

[INSTALLSQLDATADIR]

This parameter is required for failover cluster installations. The shared drive letter must exist in the disk group used in the GROUP parameters.

|  |  |
| --- | --- |
|  | **Copy Code** |
| INSTALLSQLDATADIR | |

[SQLACCOUNT], [SQLPASSWORD], [AGTACCOUNT], and [AGTPASSWORD]

These parameters are required for failover cluster installations.

|  |  |
| --- | --- |
|  | **Copy Code** |
| SQLACCOUNT=  SQLPASSWORD=  AGTACCOUNT=  AGTPASSWORD= | |

[INSTANCENAME]

This parameter is required for failover cluster installations. For a default instance use MSSQLSERVER. For more information about instance naming rules, see [Instance Name](5bf822fc-6dec-4806-a153-e200af28e9a5.htm).

|  |  |
| --- | --- |
|  | **Copy Code** |
| INSTANCENAME= | |

[SAPWD]

This parameter is required for failover cluster installations.

|  |
| --- |
| **Important:** |
| Setting strong passwords is essential to the security of your system. Never set a blank or weak **sa** password. |

|  |  |
| --- | --- |
|  | **Copy Code** |
| SAPWD= | |

For more information about strong password guidelines, see [Authentication Mode](ff7a6a48-3d38-4209-aa0f-7d6c0a8c64ef.htm).

[VS]

This parameter is required for failover cluster installations. This parameter is used to specify the name of the virtual server. The name cannot exceed 15 characters and follows the same rules as for a computer name.

|  |  |
| --- | --- |
|  | **Copy Code** |
| VS= | |

[INSTALLVS]

This parameter is required for failover cluster installations. Specify the server to be installed as a cluster. Use "SQL\_Engine" for SQL and "Analysis\_Server" for Analysis Services.

|  |  |
| --- | --- |
|  | **Copy Code** |
| INSTALLVS= | |

[IP]

This parameter is required for failover cluster installations. Specify the IP addresses, providing one entry for each network adapter.

* Format: "IP *address,network*"
* Example: IP="*xxx.xxx.xxx.xxx*,Local Area Connection"

|  |  |
| --- | --- |
|  | **Copy Code** |
| IP= | |

[GROUP]

This parameter is required for failover cluster installations. Specify the Cluster group, the group that contains the disk to which the shared data files are to be written, containing SQL Server resources.

* Example: GROUP="Group 2"

|  |  |
| --- | --- |
|  | **Copy Code** |
| GROUP= | |

[ADDNODE]

This parameter is required for failover cluster installations. Specify the nodes for your virtual server. The nodes must exist in the cluster. You can also use this parameter to add nodes to an existing cluster.

|  |  |
| --- | --- |
|  | **Copy Code** |
| ADDNODE= | |

[REMOVENODE]

This parameter is required only for cluster maintenance. Use this option to remove nodes from an existing cluster.

|  |  |
| --- | --- |
|  | **Copy Code** |
| REMOVENODE= | |

See Also

Tasks

[How to: Install SQL Server 2005 (Setup)](6ad23de1-2bab-4933-9122-c09f5565028d.htm)

Concepts

[How to: View SQL Server 2005 Setup Log Files](9d77af64-9084-4375-908a-d90f99535062.htm)

Help and Information

Getting SQL Server 2005 Assistance

Top of Form 1

Documentation Feedback

Microsoft values your feedback. To rate this topic and send feedback about this topic to the documentation team, click a rating, and then click **Send Feedback**. For assistance with support issues, refer to the technical support information included with the product.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Poor | 1 | 2 | 3 | 4 | 5 | Outstanding |

To e-mail your feedback to Microsoft, click here:

Bottom of Form 1

© 2005 Microsoft Corporation. All rights reserved.