

Server Level Options

option/min/max/def

Configuration Option Table

Option	Minimum Value	Maximum Value	Default
access check cache bucket count (A)	0	16384	0
access check cache quota (A)	0	2147483647	0
ad hoc distributed queries (A)	0	1	0
affinity I/O mask (A, RR)	-21474-83648	2147483647	0
affinity64 I/O mask (A, only available on 64-bit version of SQL Server)	-21474-83648	2147483647	0
affinity mask (A)	-21474-83648	2147483647	0
affinity64 mask (A, RR), only available on 64-bit version of SQL Server	-21474-83648	2147483647	0
Agent XPs (A)	0	1	0

Configuration Option Table (cont)

allow updates (Obsolete. Do not use. Will cause an error during reconfiguration.)	0	1	0
backup compression default	0	1	0
blocked process threshold (A)	0	86400	0
c2 audit mode (A, RR)	0	1	0
clr enabled	0	1	0
common criteria compliance enabled (A, RR)	0	1	0
contained database authentication	0		0
cost threshold for parallelism (A)	0	32767	5
cross db ownership chaining	0	1	0
cursor threshold (A)	-1	2147483647	-1
Database Mail XPs (A)	0	1	0
default full-text language (A)	0	2147483647	1033
default language	0	9999	0
default trace enabled (A)	0	1	1

Configuration Option Table (cont)

disallow results from triggers (A)	0	1	0
EKM provider enabled	0	1	0
filestream_access_level	0	2	0
fill factor (A, RR)	0	100	0
ft crawl bandwidth (max), see ft crawl bandwidth(A)	0	32767	100
ft crawl bandwidth (min), see ft crawl bandwidth(A)	0	32767	0
ft notify bandwidth (max), see ft notify bandwidth(A)	0	32767	100
ft notify bandwidth (min), see ft notify bandwidth(A)	0	32767	0
index create memory (A, SC)	704	2147483647	0
in-doubt xact resolution (A)	0	2	0
lightweight pooling (A, RR)	0	1	0
locks (A, RR, SC)	5000	2147483647	0



Configuration Option Table (cont)				Configuration Option Table (cont)				Configuration Option Table (cont)			
max degree of parallelism (A)	0	32767	0	priority boost (A, RR)	0	1	0	transform noise words (A)	0	1	0
max full-text crawl range (A)	0	256	4	query governor cost limit (A)	0	2147483647	0	two digit year cutoff (A)	1753	9999	2049
max server memory (A, SC)	16	2147483647	2147483647	query wait (A)	-1	2147483647	-1	user connections (A, RR, SC)	0	32767	0
max text repl size	0	2147483647	65536	recovery interval (A, SC)	0	32767	0	user options	0	32767	0
max worker threads (A)	128	32767	0	remote access (RR)	0	1	1	xp_cmdshell (A)	0	1	0
media retention (A, RR)	0	365	0	remote admin connections	0	1	0	Server Configuration Tools			
min memory per query (A)	512	2147483647	1024	remote login timeout	0	2147483647	10	1. Ad Hoc Remote Queries			
min server memory (A, SC)	0	2147483647	0	remote proc trans	0	1	0	2. CLR enabled			
nested triggers	0	1	1	remote query timeout	0	2147483647	600	3. Remote Admin Connections (the tool refers to this setting as DAC)			
network packet size (A)	512	32767	4096	Replication XPs Option (A)	0	1	0	4. OLE Automation Procedures			
Ole Automation Procedures (A)	0	1	0	scan for startup procs (A, RR)	0	1	0	5. SQL Mail XPs			
open objects (A, RR, obsolete)	0	2147483647	0	server trigger recursion	0	1	1	6. Web Assistant Procedures			
optimize for ad hoc workloads (A)	0	1	0	set working set size (A, RR, obsolete)	0	1	0	7. Xp_cmdshell			
PH_timeout (A)	1	3600	60	show advanced options	0	1	0	8. HTTP access to SQL Server through endpoints			
precompute rank (A)	0	1	0	SMO and DMO XPs (A)	0	1	1	9. Service Broker			

Server Configuration Tools

1. Ad Hoc Remote Queries
2. CLR enabled
3. Remote Admin Connections (the tool refers to this setting as DAC)
4. OLE Automation Procedures
5. SQL Mail XPs
6. Web Assistant Procedures
7. Xp_cmdshell
8. HTTP access to SQL Server through endpoints
9. Service Broker

Change Server Level Options

```
Use AdventureWorks2012;
GO
sp_configure 'show advanced options', 1;
GO
RECONFIGURE;
GO
```



Change Server Level Options (cont)

```
sp_configure 'fill factor', 100;
GO
RECONFIGURE;
GO
```

Database Level Options

option/statement

Auto Options

Option	Statement
AUTO_CLOSE	True
AUTO_CREATE_STATISTICS	True
AUTO_UPDATE_STATISTICS	True
AUTO_SHRINK	False
Auto_Update_Statistics_Asyn- chronously	False

Database Mirroring Options

Options	Statment
PARTNER	FAILOVER
PARTNER	FORCE_SERVICE_ALLOW- _DATA_LOSS

Database Mirroring Options (cont)

PARTNER	OFF
PARTNER	RESUME
PARTNER	SAFETY OFF
PARTNER	SUSPEND
PARTNER	TIMEOUT 20
WITNESS	OFF

Date Correlation Optimization Option

Option	Statement
DATE_CORRELATION_OPTI- MIZATION	ON

PAGE VERIFY Options

Option	Statement
PAGE_V- ERIFY	TORN_PAGE_DE- TECTION
PAGE_V- ERIFY	CHECKSUM

Emergency Mode Options

Options	Statement
PAGE_V- ERIFY	CHECKSUM
PAGE_V- ERIFY	TORN_PAGE_DE- TECTION

PARAMETERIZATION Options

Options	Statement
PARAMETERIZATION	FORCED
PARAMETERIZATION	SIMPLE

SQL Options

Options	Statement
READ_COMMITTED_SNAPS- HOT	OFF
ANSI_NULLS	OFF
ANSI_PADDING	OFF
ANSI_WARNINGS	OFF
ARITHABORT	OFF
CONCAT_NULL_YIELDS_NU- LL	OFF
QUOTED_IDENTIFIER	OFF
NUMERIC_ROUNDABORT	OFF
RECURSIVE_TRIGGERS	OFF



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CURSOR Options

Options	Statement
CURSOR_CLOSE_ON_COMMIT	OFF
CURSOR_DEFAULT	GLOBAL

Create Table Database

```
CREATE TABLE [dbo].[Categories]
NOT NULL, [CategoryName]
nvarchar COLLATE
SQL_Latin1_General_CP1_CI_AS NOT
NULL, [Description] [ntext]
COLLATE
SQL_Latin1_General_CP1_CI_AS
NULL, [Picture] [image] NULL )
ON [SECONDARY] TEXTIMAGE_ON
[SECONDARY]
```

Create a database snapshot

```
USE master; GO CREATE DATABASE
northwind_snapshot1115 ON ( NAME =
northwind, FILENAME = 'C:\Program
Files\Microsoft SQL
Server\MSSQL\Data\nwindparse1.ss'),
( NAME = northwind_data2, FILENAME
= 'C:\Program Files\Microsoft SQL
Server\MSSQL\Data\nwindparse2.ss')
AS SNAPSHOT OF northwind; GO
```

Change Database-Level Options

```
ALTER DATABASE <database_name>
SET <options> <statement>
```

Reverting Database

```
USE master; GO CREATE DATABASE
AdventureWorks_130PM ON ( NAME =
AdventureWorks_data, FILENAME =
'C:\Program Files\Microsoft SQL
Server\MSSQL.2\MSSQL\Data\aw1.ss')
AS SNAPSHOT OF AdventureWorks;
```

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