

Temp DB - Tempdb maximum sizes

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

Temp DB - Tempdb sizes

Issue

This article documents the tempdb sizes in the various SQL Database SLOs for a quick reference. For an article about troubleshooting temp size issues, see [Temp DB - Resolve tempdb related errors and exceptions](#) instead.

Investigation / Analysis

The full documentation of tempdb sizes is covered in 4 public articles:

- vCore purchasing model: [single databases](#)  - [pooled databases](#) 
- DTU purchasing model: [single databases](#)  - [pooled databases](#) 

More information

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Tempdb sizes for vCore-based, single databases

- Service-level objective
- Maximum tempdb data size (GB)

Serverless

GP_S_Gen5_1 32	GP_S_Gen5_2 64	GP_S_Gen5_4 128	GP_S_Gen5_6 192	GP_S_Gen5_8 256
GP_S_Gen5_10 320	GP_S_Gen5_12 384	GP_S_Gen5_14 448	GP_S_Gen5_16 512	GP_S_Gen5_18 576
GP_S_Gen5_20 640	GP_S_Gen5_24 768	GP_S_Gen5_32 1024	GP_S_Gen5_40 1280	GP_S_Gen5_80 2560

Hyperscale

HS_Gen5_2 64	HS_Gen5_4 128	HS_Gen5_6 192	HS_Gen5_8 256	HS_Gen5_10 320	HS_Gen5_12 384	HS_Gen5_14 448
HS_Gen5_16 512	HS_Gen5_18 576	HS_Gen5_20 640	HS_Gen5_24 768	HS_Gen5_32 1024	HS_Gen5_40 1280	HS_Gen5_80 2560

Hyperscale - DC-series

HS_DC_2 64	HS_DC_4 128	HS_DC_6 192	HS_DC_8 256
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General purpose

GP_Gen5_2 64	GP_Gen5_4 128	GP_Gen5_6 192	GP_Gen5_8 256	GP_Gen5_10 320	GP_Gen5_12 384	GP_Gen5_14 384
GP_Gen5_16 512	GP_Gen5_18 576	GP_Gen5_20 640	GP_Gen5_24 768	GP_Gen5_32 1024	GP_Gen5_40 1280	GP_Gen5_80 2560

General purpose - Fsv2-series

GP_Fsv2_8 37	GP_Fsv2_10 46	GP_Fsv2_12 56	GP_Fsv2_14 65	GP_Fsv2_16 74	
GP_Fsv2_18 83	GP_Fsv2_20 93	GP_Fsv2_24 111	GP_Fsv2_32 148	GP_Fsv2_36 167	GP_Fsv2_72 333

General purpose - DC-series

GP_DC_2 64	GP_DC_4 128	GP_DC_6 192	GP_DC_8 256
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Business critical

BC_Gen5_2 64	BC_Gen5_4 128	BC_Gen5_6 192	BC_Gen5_8 256	BC_Gen5_10 320	BC_Gen5_12 384	BC_Gen5_14 448
BC_Gen5_16 512	BC_Gen5_18 576	BC_Gen5_20 640	BC_Gen5_24 768	BC_Gen5_32 1024	BC_Gen5_40 1280	BC_Gen5_80 2560

Business critical - M-series

BC_M_8 256	BC_M_10 320	BC_M_12 384	BC_M_14 448	BC_M_16 512	BC_M_18 576
BC_M_20 640	BC_M_24 768	BC_M_32 1024	BC_M_64 2048	BC_M_128 4096	

Business critical - DC-series

BC_DC_2 64	BC_DC_4 128	BC_DC_6 192	BC_DC_8 256
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Tempdb sizes for DTU-based service objectives

Single databases

- Service-level objective
- Maximum tempdb data file size (GB)
- Number of tempdb data files
- Maximum tempdb data size (GB)





Basic	13.9	1	13.9
S0	13.9	1	13.9
S1	13.9	1	13.9
S2	13.9	1	13.9
S3	32	1	32
S4	32	2	64
S6	32	3	96
S7	32	6	192
S9	32	12	384
S12	32	12	384
P1	13.9	12	166.7
P2	13.9	12	166.7
P4	13.9	12	166.7
P6	13.9	12	166.7
P11	13.9	12	166.7
P15	13.9	12	166.7

Elastic pools

- Service-level objective
- Maximum tempdb data file size (GB)
- Number of tempdb data files
- Maximum tempdb data size (GB)

Basic Elastic Pools (all DTU configurations)	13.9	12	166.7
Standard Elastic Pools (50 eDTU)	13.9	12	166.7
Standard Elastic Pools (100 eDTU)	32	1	32
Standard Elastic Pools (200 eDTU)	32	2	64
Standard Elastic Pools (300 eDTU)	32	3	96
Standard Elastic Pools (400 eDTU)	32	3	96
Standard Elastic Pools (800 eDTU)	32	6	192
Standard Elastic Pools (1200 eDTU)	32	10	320
Standard Elastic Pools (1600-3000 eDTU)	32	12	384
Premium Elastic Pools (all DTU configurations)	13.9	12	166.7

Public Doc Reference

- vCore purchasing model:
 - [single databases](#) 
 - [pooled databases](#) 
- DTU purchasing model:
 - [single databases](#) 
 - [pooled databases](#) 

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