Purchasing Models - Databases

Last updated by | Charlene Wang | Jan 3, 2023 at 12:30 AM PST

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Issue

This TSG cover's publicly available information about single database service tiers.

SLO_Name	Internal Name*	Tier	DTU	DB Size	# of CPU Cores*	MaxDop Default*	
Basic	Basic_SQLG3 Basic_SQLG4VM		5	2 GB	0.06	1	
Standard	S0_SQLG3 S0_SQLG4VM	S0	10	250 GB		1	
Standard	S1_SQLG3 S1_SQLG4VM	S1	20	250 GB		1	
Standard	S2_SQLG3 S2_SQLG4VM	S2	50	250 GB	0.4	1	80 IOPS and 2MB/s of log generation
Standard	S3_SQLG3 S3_SQLG4VM	S3	100	250 GB		1	
Standard	S9	S9			11.16	11 ?	
Premium	P1_SQLG3 P1_SQLG4VM	P1	125	500 GB		1	~6000 IOPS and 12MB/s of log generation
Premium	P2_SQLG3 P2_SQLG4VM	P2	250	500 GB	1.4	2 (?)	6400 IOPS and 12MB/s of log generation
Premium	P3_SQLG4VM	P3 = P6	1000	500 GB			
Premium	P4_SQLG3 P4_SQLG4VM	P4	500	500 GB		4 (?)	
Premium	P6_SQLG4VM	P6	1000	500 GB	4.6		
Premium	P11v2_SQLG4VM	P11	1750	1 TB	9		
Premium	P13_SQLG4VM (?)	P15	4000	1 TB	18.4		

Investigation/Analysis

# Mitigation

RCA (optional)

More Information (optional)

MonDmDbResourceGovernance | where server_name =~ "{srvName}" and database_name =~"{dbName}"
| project TIMESTAMP, AppName, NodeName, slo_name, primary_group_max_cpu, min_cores, max_db_memory,
primary_group_max_io, primary_max_log_rate, primary_group_max_workers, max_sessions,
last_updated_date_utc | extend MaxCpuCores = (primary_group_max_cpu*min_cores)/100 | extend
MemoryInMb = (max_db_memory)/1024 | extend MaxIOPS = primary_group_max_io | extend MaxLogKbps =
primary_max_log_rate/1024.0 | extend WorkersLimit = primary_group_max_workers | extend SessionsLimit =
max_sessions | project last_updated_date_utc, AppName, NodeName, slo_name, MaxCpuCores, MemoryInMb,
MaxIOPS, MaxLogKbps, WorkersLimit, SessionsLimit | summarize min(last_updated_date_utc) by AppName ,
NodeName, slo_name, MaxCpuCores, MemoryInMb, MaxIOPS, MaxLogKbps, WorkersLimit, SessionsLimit

Public Doc Reference (optional)

https://docs.microsoft.com/en-us/azure/sql-database/sql-database-purchase-models#single-database-service-tiers-and-performance-levels ⧉

Internal Reference (optional)

No of CPU cores, and MaxDop details are MS_ONLY

No of cores: https://microsoft.sharepoint.com/teams/bidpwiki/_layouts/15/WopiFrame.aspx?sourcedoc={7f1e5190-afc5-4c0b-a52c-bcca48057bb8}&action=edit&wd=target(Performance%2FBest Practices.one|E5B14ACC-A1D0-49F6-BEDD-32E9885CDA59%2FOS Schedulers (internal information\)|6AA57411-C520-4C42-AA0A-4B915CEF9ED5%2F) ⧉

Classification

Root cause Tree - CRUD/User request/How-to/advisory.

How good have you found this content?