

UpdateSLO slow due to Basic S0 S1 Slo

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Issue

Update SLO operations took more than 20 hours to complete.

Investigation/Analysis

1. From MonManagement, you can get the operation status

```
MonManagement
//| where subscription_id == 'e5282183-61c9-4c17-a58a-9442db9594d5'
| where request_id == 'request_id'
//| where action == 'EventCancel'
| project TIMESTAMP, event, fsm_event, caller_state_machine_type, caller_keys, action, state_machine_type
```

The operation shows in progress.

ionName	originalEventTimestamp	fsm_version	work_item_id	fsm_event	caller_state_machin...	caller_keys	action	transaction_id	state_machine_type
agementServiceSession	2022-03-31 12:28:39.7974602	0	42CABE74-C7C2-4...				WaitForCopyCompletion	563A893F-7C7D-4...	PhysicalDatabaseLi...
agementServiceSession	2022-03-31 12:29:39.7933493	0	4362B530-903D-4E...				WaitForCopyCompletion	4F890815-5455-44...	PhysicalDatabaseLi...
agementServiceSession	2022-03-31 12:29:39.7944783	0	4362B530-903D-4E...				WaitForCopyCompletion	4F890815-5455-44...	PhysicalDatabaseLi...
agementServiceSession	2022-03-31 12:29:50.9968743	0	F61BA9D4-FE59-41...				WaitForCopyCompletion	03D52075-FA7A-4...	PhysicalDatabaseLi...
agementServiceSession	2022-03-31 12:29:51.0001783								
agementServiceSession	2022-03-31 12:29:51.0102361								
agementServiceSession	2022-03-31 12:29:51.0102391								
agementServiceSession	2022-03-31 12:29:51.0557169	0	F61BA9D4-FE59-41...				WaitForCopyCompletion	03D52075-FA7A-4...	PhysicalDatabaseLi...
agementServiceSession	2022-03-31 12:34:51.3403268	0	1751A301-562D-4...				WaitForCopyCompletion	59CE4841-756F-40...	PhysicalDatabaseLi...
agementServiceSession	2022-03-31 12:34:51.3435972								
agementServiceSession	2022-03-31 12:34:51.3539707								
agementServiceSession	2022-03-31 12:34:51.3539743								
agementServiceSession	2022-03-31 12:34:52.1560745	0	1751A301-562D-4...				WaitForCopyCompletion	59CE4841-756F-40...	PhysicalDatabaseLi...
agementServiceSession	2022-03-31 12:35:02.3057659	0	CD94E7CF-0449-4...				TransitionWaitForOperationToComplete	9E4FC48B-FC3B-4E...	ManagementOper...
agementServiceSession	2022-03-31 12:35:02.3161402								
agementServiceSession	2022-03-31 12:35:02.3270277								
agementServiceSession	2022-03-31 12:35:02.3270306								
agementServiceSession	2022-03-31 12:35:03.8693915	0	CD94E7CF-0449-4...				TransitionWaitForOperationToComplete	9E4FC48B-FC3B-4E...	ManagementOper...
agementServiceSession	2022-03-31 12:35:38.8172769	0	88D0358F-CD80-4...				WaitForCopyCompletion	15A22C10-AFEB-4...	PhysicalDatabaseLi...
agementServiceSession	2022-03-31 12:35:39.8185768	0	88D0358F-CD80-4...				WaitForCopyCompletion	15A22C10-AFEB-4...	PhysicalDatabaseLi...
agementServiceSession	2022-03-31 12:35:52.1591462	0	E1AA6C4F-DB56-4...				WaitForCopyCompletion	C1B610CD-8D71-4...	PhysicalDatabaseLi...
agementServiceSession	2022-03-31 12:35:52.1624254								
agementServiceSession	2022-03-31 12:35:52.1721102								
agementServiceSession	2022-03-31 12:35:52.1721129								
agementServiceSession	2022-03-31 12:35:52.2178923	0	E1AA6C4F-DB56-4...				WaitForCopyCompletion	C1B610CD-8D71-4...	PhysicalDatabaseLi...
agementServiceSession	2022-03-31 12:36:03.8772622	0	4CD1AD9C-7EFF-4...				TransitionWaitForOperationToComplete	5AAD9FEE-61DC-4...	ManagementOper...
agementServiceSession	2022-03-31 12:36:03.8886419								

2. From XTS "sterling\Database Replicas", you can see the database seeding progress is progressing with no errors.

sterling\Favorites and Links.xts | sterling\sterling servers and databases.xts

Usage Instructions: To use this view, enter a search string in the search box. You can search for either a whole/partial server name, a whole/partial subscription ID, or a whole/partial migration source cluster

Step 1: Enter Search String
Search String: ru-nonprod-lifecycle-analytics
OK

Servers: Server Count | Database Count

Instance for ru-nonprod-lifecycle-analytics

name	logical_server_id	sta
ru-nonprod-lifecycle-analytics	b49b3deb-56f3-4950-8bb4-1685	

Databases for ru-nonprod-lifecycle-analytics (Double click to open DB Perf)

logical_server_name	logical_database_name	logical_database_id	state	parent_state	sql_instance_name	logical_database_type	database_type	service_level_obj
ru-nonprod-lifecycle-analytics	dw_rudw	0bc073cb-fc58-48de-85f1-152f290e9fbb	Ready	Ready	ad3dd784aa23	SterlingLogicalDatabase	SQL.UserDb	Basic
ru-nonprod-lifecycle-analytics	stg_rudw	15bffc4-bf07-4b4f-b668-7ec5f421ef76	Ready	Ready	ef0b834dc8cd	SterlingLogicalDatabase	SQL.UserDb	S0
ru-nonprod-lifecycle-analytics	master	293f12b1-99a2-47a8-8676-f1c6e4442657	Ready	Ready	aa0783db2e13	SterlingLogicalDatabase	SQL.MasterDb	System2

Partition info for 0bc073cb-fc58-48de-85f1-152f290e9fbb (Double click to open Database Replicas)

partition_id	rg_slopropertybag_config_version	physical_database_id	database_type	service_level_objective	state	target_replica_set_size	failover_group_id
011EC07F-65FA-4599-BB9B-DF704F0A56D1	185	9814a4c8-b336-4042-b0cf-dc021960e6e3	SQL.UserDb	Basic	Ready	1	failover_group_id

Replicas for 011EC07F-65FA-4599-BB9B-DF704F0A56D1

node_name	replica_status_desc	replica_role_desc	replica_health_state_desc	node_status_desc	node_health_state_desc	pid	ud	replica_id	last_in_build_duration_sec	np
DB.29	READY	PRIMARY	OK	UP	OK		1	132922146454586935	199	np

sterling\sterling cms browser.xts | DB Perf ru-nonprod-lifecycle-analytics/stg_rudw | Database Replicas [ProdNCus1a-TR16]

Database "(physical_database_id)"

instance_id	partition_id	service_type_name	db_cms_state	partition_health	app_state	edition	slo	maxsize GB	target_replica
4a68-a9c2-4146aecadc2b	424415C5-205C-4AE2-B1FA-87AD4A742AB5	SQL.UserDb.RS	UpdateSloInProgress	OK	READY	Standard	S0	250	1

Seeding

transferred_size_MB	total_size_MB	seeding_progress	estimate_time_complete_utc	remote_machine_name
34276	256005	[].....	3/31/2022 9:20:27 PM	tcp://ru-nonprod-lifecycle-analytics.database.windows.net:5022;E

Hadron ... | In progr... | Seeding | Throttle | SQL CP... | TR login ... | CAS co... | Fabric p... | Config P... | Feature ... | ActiveS... | Long Ru... | sysproc... | Recover... | Certifica... | CTR DMV | Shrink P... | Tempdb ...

File Size MB | log_reuse_wait_desc | backup_start_date | backup_finish_date | SQL Version

- Jump into the DB Perf XTS view, you can see the disk IO wait time is quite high and source SLO is Basic, S0 or S1.

Mitigation

There is no error during the updateSLO operations, so no mitigation is needed. Wait for the operations complete.

RCA (optional)

Basic, S0 or S1 are using standard azure storage which uses hard disk drive(HDD)-based storage media. Update SLO from <Source SLO> to <Target SLO> requires a copy operation which is highly impacted by disk performance. The update SLO is progressing normally under such service tier. To avoid getting impacted by standard storage latency, please choose higher service tier for your Azure SQL Database.

Public Doc Reference (optional)

[DTU-based purchasing model overview](#) 

How good have you found this content?

