

Scaling - SLO Change Stuck(slash)Slow due to Seeding

Last updated by | Charlene Wang | Dec 5, 2022 at 6:19 PM PST

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Issue

As part of the SLO change a new node is seeded, this can either progress slowly or hang completely.

Investigation/Analysis

Mentioned below in mitigation

Mitigation

To confirm if this is the case go to the 'App Replicas.xts' page and enter the App Name for the database, this can be found with the troubleshooter where it is called the SQL Instance Name

User database info

last_update_time	sql_instance_name	state	edition	slo	max_size_bytes	customer_subscription_id	create_mode	create_time
6/19/2017 11:53:13 PM	ceaab20f40e7	Ready	Premium	P1	536870912000	[REDACTED]	Normal	2/9/2016 3:00:00 PM
6/23/2017 7:26:06 AM	ceaab20f40e7	UpdateSloInProgress	Premium	P1	536870912000	[REDACTED]	Normal	2/9/2016 3:00:00 PM
6/23/2017 7:26:06 AM	ceaab20f40e7	UpdateSloInProgress	Premium	P1	536870912000	[REDACTED]	Normal	2/9/2016 3:00:00 PM

In XTS you should get the page looking something like this.

Step 1: Enter App Name

App details

count_dbs_in_app	logical_server_name	name	sql_instance_id	state	type	service_level_objective
1	ddaassqlserver	ceaab20f40e7	8aa677df-0c32-43ed-9a00-ee09f7f60ca1	Ready	SQLLogicalServer	P1

Replica placement (Double click to open Database Replicas)

physical_database_id	partition_id	display Severity	partition_id
9DEE1954-C86A-4338-8B4F-5B1B612A6CE4	ACTIVE_SECONDARY	OK	437935CF-4163
SQL LogicalServer	PRIMARY	OK	57A48708-6232

In Progress tasks on Node ""

Hadron DMV [] - "9DEE1954-C86A-4338-8B4F-5B1B612A6CE4"

You can then double click where indicated above and open the Database Replica's page

Step 1: Enter Physical Database ID

Step 2: Logical Database View for physical database "9dee1954-c86a-4338-8b4f-5b1b612a6ce4"

physical_database_id	partition_id	service_type_name	db oms_state	partition_health	app_state	edition	slo	maxsize GB	target_replica_set_size	count_dbs
9dee1954-c86a-4338-8b4f-5b1b612a6ce4	437935CF-4163-4954-A695-1454A0F2669F	SQL UserDb.LS	UpdateSloInProgress	OK	READY	Premium	P1	500	4	

Step 3: MDS Date Time (UTC)

Step 4: WinFab Replica state

node_name	replica_status_desc	replica_role_desc	repli
DB.140	READY	PRIMARY	OK
DB.95	READY	ACTIVE_SECONDARY	OK
DB.131	READY	ACTIVE_SECONDARY	OK
DB.110	READY	ACTIVE_SECONDARY	OK

Hadron DMV - "DB.140"

replication_endpoint_url	last_hardened_lsn	catchup_progress	end_of_log_lsn	internal_state_desc	database
tcp://DB.140:20142	1615243000002608800001	100.00%	1615243000002608800003	GLOBAL_PRIMARY	ONLINE
tcp://DB.95:20286;Encryption=[false]	1615243000002608800001	100.00%	1615243000002574400027		
tcp://DB.131:20054;Encryption=[false]	1615243000002608800001	100.00%	1615243000002577600055		
tcp://DB.110:20014;Encryption=[false]	1615243000002608800001	100.00%	1615243000002602400015		

Database info for 9dee1954-c86a-4338-8b4f-5b1b612a6ce4

Computer Name	database_id	Log Space Used MB	Log Space MB	Data File Size MB	log_reuse_wait_desc	backup_start_date	backup_finish_date	SQL Version
DB.140	5	293.030273	295.992187	500576.000000	ACTIVE_BACKUP_OR_RESTORE	6/23/2017 12:18:16 PM	6/23/2017 12:18:26 PM	Microsoft SQL Server 2017 (CTP2.1) - 14.0.600.232 (x64) Jun 16 2017 16:36:50 Copyright (C) 2017 Microsoft Corporation

And in the Hadron DMV pane you can see the progress In the above case it says on 0.00% for hours and hours, also check the Seeding pane

Step 1: Enter Physical Database ID

Step 2: Logical Database View for physical database "9dee1954-c86a-4338-8b4f-5b1b612a6ce4"

physical_database_id	partition_id	service_type_name	db oms_state	partition_health	app_state	edition	slo	maxsize GB	target_replica_set_size	count_dbs
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DB.110	READY	ACTIVE_SECONDARY	OK

Seeding

transferred_size_MB	total_size_MB	seeding_progress	estimate_time_c
316912	502581	63.06%	6/23/2017 2:14:

Database info for 9dee1954-c86a-4338-8b4f-5b1b612a6ce4

Computer Name	database_id	Log Space Used MB	Log Space MB	Data File Size MB	log_reuse_wait_desc	backup_start_date	backup_finish_date	SQL Version
DB.140	5	2004.561523	2583.992187	500576.000000	AVAILABILITY_REPLICA	6/23/2017 2:03:53 PM	6/23/2017 2:04:18 PM	Microsoft SQL Server 2017 (CTP2.1) - 14.0.600.232 (x64) Jun 16 2017 16:36:50 Copyright (C) 2017 Microsoft Corporation

This kind of case should go to Availability.

RCA (optional)

More Information (optional)

Public Doc Reference (optional)

Internal Reference (optional)

Classification

Root cause Tree - Azure SQL v3\CRUD\Database\Scale failure

How good have you found this content?

