Logins to DB fail through FG endpoint

Last updated by | Vitor Tomaz | Aug 5, 2020 at 12:41 PM PDT
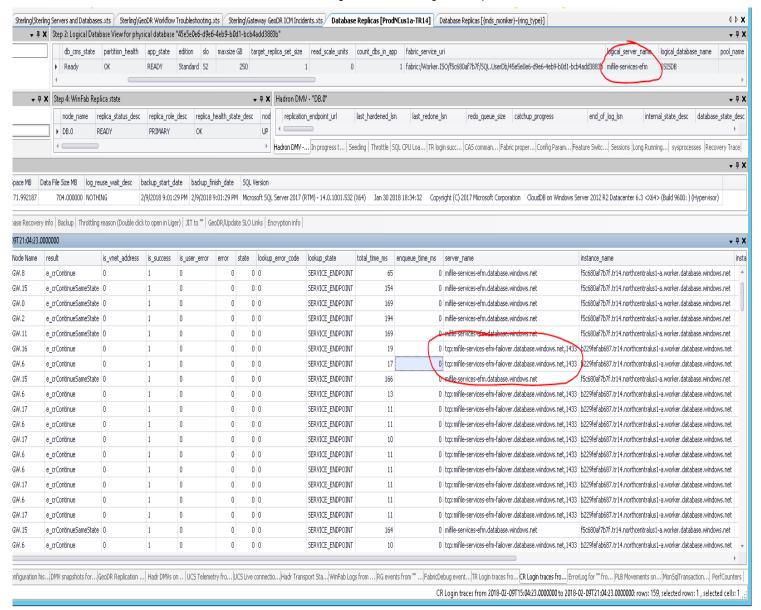
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Issue

We have a bug where if a customer tries to connect to a database through a failover group endpoint, but the database is not joined to the failover group, then they get back a 40613 state 127 error. If the DB is otherwise healthy, and still logins are failing due to 40613, then it could this issue. This is easily diagnosed via Database Replicas.xts view.

Step 1: Check that customer is connecting via a FG endpoint. Looking at CR login traces in Database Replicas.xts view, check if the server_name being connected to is not the same as the logical_server_name. This means that the connection is coming via an alias. It could be FG alias or Server DNS alias.

Step 2: Verify that server belongs to a FG but database is not enlisted in that FG.

Query CMS: select * from geodr_failover_groups where logical_server_name = '<server name>'

If server is not part of FG, then this TSG does not apply. The issue is something else.

Check in Database Replicas.xts view to see if DB is part of FG or not. If DB is not part of FG, then proceed with mitigation to add DB to FG. If DB is part of FG (in below diagram it is) then the issue is something else.

Step 2: Logical Database View for physical database "45e5e0e6-d9e6-4eb9-b0d1-bcb4add3883b"

replica_set_size	read_scale_units	count_dbs_in_app	fabric_service_uri	logical_server_name	logical_database_name	pool_name	failover_group_name	link_type	link_role	copy_link_cnt	geo_partner_logical_server_name	geo_partner_logical_database_name
1	0	1	fabric:/Worker.ISO/f5c680af7b7f/SQL.UserDb/45e5e0e6-d9e6-4eb9-b0d1-bcb4add3883b	mifile-services-efm	SSISDB		mifile-services-efm-failover	ContinuousCopy	Primary	1	mifile-services-efm-02	SSISDB

Step 4: WinFab Replica state

node_name	replica_status_desc	replica_role_desc	replica_health_state_desc	node_status_desc	node_health
DB.0	READY	PRIMARY	OK	UP	WARNING

Hadron DMV - "DB.0"

replication_endpoint_url	last_hardened_lsn	last_redone_lsn	redo_queue_size	catchup_progress	end_of_log_lsn	internal_state_desc	database_state_desc	partner_database	database
tcp://10.0.0.4:20222	5027000000734400001			[||||||||||||||||||||||||||||] 100.00%	5027000000733600001	GLOBAL_PRIMARY	ONLINE		
mifile-services-efm-02 - SSISDB	5027000000734400001	5027000000732800001	0	[||||||||||||||||||||||||||||] 100.00%	5027000000732800001			SSISDB	

Hadron DMV - "DB.0" | In progress tasks - "D... | Seeding | Throttle | SQL CPU Load on 'DB... | TR login success rate | CAS commands for "D... | Fabric properties | Config Parameters - "... | Feature Switchs - "DB... | Sessions | Long Running Txns | syspi

use_wait_desc	backup_start_date	backup_finish_date	SQL Version
ING	2/9/2018 9:01:29 PM	2/9/2018 9:01:29 PM	Microsoft SQL Server 2017 (RTM) - 14.0.1001.532 (X64) Jan 30 2018 18:34:32 Copyright (C) 2017 Microsoft Corporation CloudDB on Windows Server 2012 R2 Datacenter 6.3 <X64> (Build 9600:) (Hypervisor)

reason (Double click to open in Liger) | JIT to "" | GeoDR/Update SLO Links | Encryption info

is_success	is_user_error	error	state	lookup_error_code	lookup_state	total_time_ms	enqueue_time_ms	logical_substep_failure_appname	database_name	connection_id	driver_name	tds_version
1	0	0	0			16	0		SSISDB	EF0D9BC2-2836-4683-966B-00DEA9A075CE	.Net SqlClient Data Provider	1946157060
0	0	40613	127			161	0		SSISDB	357D151E-38F7-4B9D-AE23-DFB2FF06C817	.Net SqlClient Data Provider	1946157060
1	0	0	0			4	0		SSISDB	570B460D-9D28-47D2-831C-CC2C4C7D23E1	.Net SqlClient Data Provider	1946157060
0	0	40613	127			220	0		SSISDB	B5EE531C-60D5-49F1-857E-C7180D87F34F	.Net SqlClient Data Provider	1946157060
1	0	0	0			7	0		SSISDB	3CC83485-384B-4F6F-8A5B-9C69CEE4B7F8	.Net SqlClient Data Provider	1946157060
0	0	40613	127			111	3		SSISDB	66FD9F09-CBBA-4EAD-B703-E588A239A17D	.Net SqlClient Data Provider	1946157060
1	0	0	0			50	0		SSISDB	DCA25968-D2FA-4C97-BCED-CDE3C7A03...	.Net SqlClient Data Provider	1946157060
1	0	0	0			1	0		SSISDB	0677E1B7-E98D-4068-AE41-299B22B00BB3	.Net SqlClient Data Provider	1946157060
1	0	0	0			5	0		SSISDB	274AA1DE-9C68-40E8-8A36-922461171363	.Net SqlClient Data Provider	1946157060
0	0	40613	127			98	0		SSISDB	C030262C-847D-424D-931C-AB613E2A768A	.Net SqlClient Data Provider	1946157060

Mitigation steps

Engage Geo-DR engineering team thru ICM

Classification

Root Cause: Azure SQL DB v2\GeoDR/AutoDR

How good have you found this content?