Scaling failure due to incorrect max size configured

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

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Issue

Customer has elastic pool migrated from vCore to DTU-based and try to create/scale database with specified size fails. Error message are as below: "The tier 'Standard' does not support the database max size '34359738368'."

Investigation/Analysis

1. From MonManagement, you can get the operation status

```
MonManagement//| where subscription_id == ''
| where request_id == 'request_id'
//| where action == 'EventCancel'
| project TIMESTAMP, event, fsm_event, caller_state_machine_type, caller_keys, action, state_machine_type
```

The error message is quite straight forward that the size configured is incorrect based on current database edition. If a logical resource pool was in VCore model earlier, databases added to it inherited maxsize options from VCore pricing model which provides granularity of 1GB. When this pool was migrated to DTU model, update workflow will not change maxsize configurations for any existing databases, but it will start enforcing limits on any new databases being created or moved into the pool.

Mitigation

Change the configuration using supported value.

RCA (optional)

Database in a logical resource pool will inherit Edition and other properties of corresponding logical resource pool. So databases in a DTU pool can only be created with max size supported by Standard edition -

ALTER DATABASE (Transact-SQL) - SQL Server | Microsoft Docs

Above link shows click stops allowed for standard edition, matching with what you have observed from your experiments. If you try to create database with 'Standard' edition from portal.azure.com, it will also show corresponding clickstops.

Classification

Root Cause: CRUD\Database\Other

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