Prevision and re-prevision

Last updated by | Keith Elmore | Apr 5, 2021 at 7:57 AM PDT

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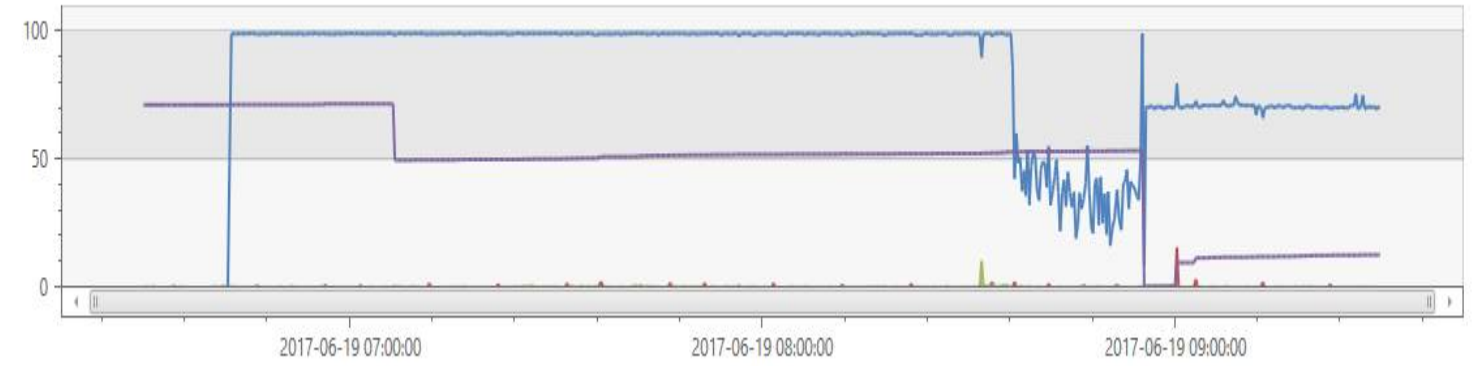
Symptom

Customer made schema changes, then the Data sync caused CPU staying 100% for 2+ hours. Customer clicked on "stop" button, also upscaled the DB to next tier (Reboot), data sync persisted until complete.



Cause

Regular Data changes are applied to destination in batches. A stored procedure with TVP is used for each batch. Sync task checks the cancellation flag after each batch applied. When you manually stop the sync, the sync will stop after the current batch. When you resume, the sync will start at the next batch.

Unlike the sync task, the prevision/re-prevision tasks do not check cancellation flag. The design was in consideration of the nature of the those tasks – should be called infrequently and needs to complete ASAP to ensure the normal operation of the data sync.

Mitigation

For now, the recommendation is to group the re-prevision changes in smaller units possible, and implement one unit at a time; also upscale to higher DB performance tier before re-provisioning.

Classification

Root cause Tree - DataSync/Service Issue/Uncoded

How good have you found this content?