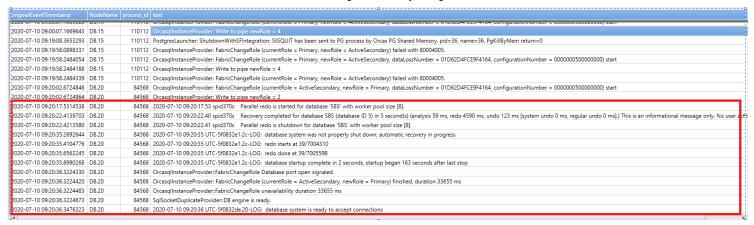
How long the recovery PostgreSQL server

Last updated by | Hamza Aqel | Feb 2, 2022 at 3:08 AM PST

Please don't modify or move as this is part of GT, please contact haaqel@microsoft.com if needed

Use this Kusto guery to check the recovery process, how long it took:

```
MonRdmsPgSqlSandbox
where originalEventTimestamp> datetime(xxxx-xx xx:xx:xx) // REPLACE THIS WITH 5 MINS BEFORE SERVER RESTAR
where originalEventTimestamp< datetime(xxxx-xx xx:xx:xx) // REPLACE THIS WITH 5 MINS AFTER SERVER IS READ
where LogicalServerName == "pg-server-name"
where text startswith "Loaded package: [PostgreSQL"
or text contains "CheckpointPG"
or text contains "WaitOneWithLog"
or text contains "archive"
or text contains "BACKEND TYPE ALL"
or text contains "exit"
or text contains "recovering "
or text startswith "SbsProvider::IsSbsXioStorage: Is SBS"
or text startswith "SbsProvider::IsSbsPfsStorage: Is SBS_PFS"
or text contains "PostgresLauncher: DoCheckpointPG: PG checkpoint in progress"
or text contains "PostgresLauncher: DoCheckpointPG: Time taken in PG checkpoint is"
or text contains "PostgresLauncher: Warning: DoCheckpointPG: PG checkpoint failed"
or text contains "PostgresLauncher: DoCheckpointSBS: SBS checkpoint in progress"
or text contains "PostgresLauncher: DoCheckpointSBS: Time taken in SBS checkpoint is"
or text contains "PostgresLauncher: ShutdownWithSFIntegration: SIGINT has been sent"
or text contains "PostgresLauncher: ShutdownWithSFIntegration: SIGQUIT has been sent"
or text contains "Parallel redo is started for database 'SBS'"
or text contains "Parallel redo is shutdown for database 'SBS'"
or text contains "Recovery completed for database SBS"
or text contains "database system was not properly shut down"
or text contains "entering standby mode"
or text contains "redo starts at"
 or text contains "consistent recovery state reached at"
 or text contains "database system is ready to accept read only connections"
 or text contains "FATAL: could not connect to the primary server"
 or text contains "started streaming WAL from primary"
 or text contains "trigger file found: " // PromoteTriggerFile.txt
 or text contains "redo done at"
 or text contains "checkpoint starting: end-of-recovery immediate"
 or text contains "database startup complete in"
 or text contains "database system is ready to accept connections"
 or text contains "SqlSocketDuplicateProvider::DB engine is ready"
 or text contains "Listen to port" and text contains "at checkpoint"
 or tolower(text) contains "role" and tolower(text) contains "orcasql" and tolower(text) !contains "Wait on"
order by originalEventTimestamp asc
project originalEventTimestamp, NodeName, process_id, text=trim("((\r)?(\n)?)*", text)
```



Canned RCA (please edit this if needed and read it carefully before sharing with customers

In database systems when the server is restarted it needs to go through database recovery to ensure data consistency. Time to complete database recovery depends on how much data was generated by the workload and how far along is the database checkpoint that flushes these changes to the disk. As we continuously improve our service to improve your experience we are looking at ways to better handle checkpoints that needs longer time to complete.

Mitigation: The Azure Postgres server is back to normal and consistent state after restart. Auto-mitigated.

How good have you found this content?



