[Sql Azure] Perf is slow when load data into Sql Azure

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201037- [Sql Azure] Perf is slow when load data into Sql Azure		ASC Onboard

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SME	
Symptoms	Customer see slow perf when copy data into Sql Azure

Cause	Mostly the bottleneck is in the target Sql Azure side. Here are the check lists to confirm with the customer:
	
	1. Azure DB tier
	    a. The perf would be slow if the DB tier is not high. E.g. the tier is S2.
	    b. FYI, we use P11 for the reference number.
	2. Azure DB DTU usage
	    a. The customer can monitor the performance and check the database transaction unit (DTU) percentage. If the DTU usage is close to 100%, consider to upgrade the DB tier.
	3. Don't have any index to have best performance.
	    a. Remove all indexes before data load, and re-created the index after load complete.
	
	4. Set a larger writeBatchSize for small data rows.
	    a. FYI, our used TPC-H schema's row size is around 200 bytes and we specify the writeBatchSize as 100,000.
	5. Use bulk load (default) instead of using stored procedure. Stored procedure is expected to have worse performance than bulk load.
	
	6. If there are multiple binary files in the source, the customer can specify larger DMUs so that Copy could leverage more backend executors to have better perf.

Resolution	Follow the above suggestions. For ADF V2, the following query may have the target DB's tier info and table index info: • `CustomLogEvent	where ActivityId == <activityRunId> and TraceMessage == "TransferServiceCopyMonitoringResult"` `| extend JsonMessage = parsejson(substring(substring(Message, 21), 0, strlen(Message) - 44))` `| project TIMESTAMP, ActivityId, JsonMessage`  • (If the customer provided the pipelineRunId instead of activityRunId, you can use the following query and get the activityId from the results: `CustomLogEvent | where * contains <pipelineRunId> | take 10`)
More Information	

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