

Snapshot Agent failing with Object reference not set

Last updated by | Vitor Tomaz | Jun 8, 2022 at 5:37 AM PDT

Contents

- [Issue](#)
 - [Error message as seen on replication agent job history](#)
 - [Error message as seen on replication agent history](#)
- [Investigation](#)
- [Mitigation](#)
- [More Information](#)
- [External reference](#)

Issue

The Snapshot Agent is failing with exception `Object reference not set to an instance of an object` after configuring Transactional Replication on a Managed Instance Publisher. It fails while scripting the articles, as you can see in the error details below.

Error message as seen on replication agent job history

```
2022-03-13 14:15:10.12 [70%] Generating schema scripts for article '<short_article_name>'
2022-03-13 14:15:12.12 [72%] Generating schema scripts for article '<long_article_name>'
2022-03-13 14:15:15.89 [72%] Disconnected from Azure Storage '\\storageaccountname.file.core.windows.net\snaps
2022-03-13 14:15:16.12 [72%] The replication agent has encountered an exception.
2022-03-13 14:15:16.23 Source: Replication
2022-03-13 14:15:16.23 Exception Type: Microsoft.SqlServer.Replication.ReplicationAgentSqlException
2022-03-13 14:15:16.23 Exception Message: Object reference not set to an instance of an object.
2022-03-13 14:15:16.23 Message Code: 52006
2022-03-13 14:15:16.23
```

of which "`<short_article_name>`" was something like "tbl_Employee" or "tbl_Address", and "`<long_article_name>`" a complex name that exceeded 125 characters.

Error message as seen on replication agent history

Message: Object reference not set to an instance of an object.

Command Text:

```
select 'number' = convert(int, 0), 'definition' = definition
  from sys.sql_modules
where object_id = object_id(@qualified_object_name)
union all
select 'number' = convert(int, procedure_number), 'definition' = definition
  from sys.numbered_procedures
```

where object_id = object_id(@qualified_object_name)

Parameters: @qualified_object_name = [dbo].[aa_bbbb_ccccc_ddddd_eeeeeee_fffffffff_gggggggg_hhh

Stack: at Microsoft.SqlServer.Replication.AgentCore.ExecuteWithOptionalResults(CommandSetupDelegate command
at Microsoft.SqlServer.Replication.AgentCore.ExecuteWithOptionalResults(CommandSetupDelegate commandSetupDe
at Microsoft.SqlServer.Replication.Snapshot.SmoScriptingManager.TextModeOnObjectScripter.Script()
at Microsoft.SqlServer.Replication.Snapshot.SmoScriptingManager.GenerateNonTableArticleSchScript(Scripter s
at Microsoft.SqlServer.Replication.Snapshot.SmoScriptingManager.GenerateStoredProcedureArticleScripts(Artic
at Microsoft.SqlServer.Replication.Snapshot.TransSmoScriptingManager.GenerateArticleScripts(ArticleScriptin
at Microsoft.SqlServer.Replication.Snapshot.SmoScriptingManager.DoScripting()
at Microsoft.SqlServer.Replication.Snapshot.SqlServerSnapshotProvider.DoScripting()
at Microsoft.SqlServer.Replication.Snapshot.SqlServerSnapshotProvider.GenerateSnapshot()
at Microsoft.SqlServer.Replication.SnapshotGenerationAgent.InternalRun()
at Microsoft.SqlServer.Replication.AgentCore.Run() (Source: MSSQLServer, Error number: 52006)

Get help: <http://help/52006>

Source: Microsoft.SqlServer.Replication

Target Site: Void ProcessGetObjectScriptResult(System.Data.SqlClient.SqlDataReader)

Message: Object reference not set to an instance of an object.

Stack: at Microsoft.SqlServer.Replication.Snapshot.SmoScriptingManager.TextModeOnObjectScripter.ProcessGetO
at Microsoft.SqlServer.Replication.AgentCore.ExecuteWithOptionalResults(CommandSetupDelegate commandSetupDe

Get help: <http://help/0>

Investigation

Searching for the error detail "Object reference not set to an instance of an object" pointed to this forum article:

[Problems with Snapshot Agent](#) 

The failing article name had a total of 126 characters. After shortening the article name to 121 characters or shorter, the Snapshot Agent succeeded and created a full snapshot for the publication.

As an example, this is a representation of the failing and successful article names:

```
1234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
1          2          3          4          5          6          7          8          9          10         11
aa_bbbb_ccccc_ddddd_eeeeeee_fffffffff_gggggggg_hhhhh_iiii_jjjjj_kkkkkkkk_111111111_mmmmmm_nnnnnnnnnnnnnnn
aa_cccc_ddddd_eeeeeee_fffffffff_gggggggg_hhhhh_iiii_jjjjj_kkkkkkkk_111111111_mmmmmm_nnnnnnnnnnnnnnnnnnn
aa_bbbb_ccccc_ddddd_eeeeeee_fffffffff_gggggggg_hhhhh_iiii_jjjjj_kkkkkkkk_111111111_mmmmmm_nnnnnnnnnnnnnnn
```

Mitigation

After shortening the article name to have more than 126 characters, the Snapshot Agent succeeded and created a full snapshot for the publication.

To shorten the article name, you need to remove the article from the publication and re-add it again. This is usually not a problem because the Snapshot Agent is failing directly after the publication had been created, or after the article had been added to an existing publication. If this is a new publication, then the easiest and safest way is to drop the publication and create it again with the shortened article name.

If you are adding the article through a script (which is strongly recommended), you need to shorten the value of the `@article` parameter of the `sp_addarticle` stored procedure:

```
-- example for table article
sp_addarticle @publication = 'publication_name'
, @article = 'aa_bbbb_ccccc_ddddd_eeeeeeee_ffffffffff'
, @source_object = 'aa_bbbb_ccccc_ddddd_eeeeeeee_ffffffffff_gggggggg_hhhhh_iiii_jjjjj_kkkkkkkk_1111111111'
, @destination_table = 'aa_bbbb_ccccc_ddddd_eeeeeeee_ffffffffff_gggggggg_hhhhh_iiii_jjjjj_kkkkkkkk_111111'
, @source_owner = 'dbo'
, @destination_owner = 'dbo'
, [ ...further parameters... ]
```

More Information

This is a limitation of Transactional Replication and the Snapshot scripting engine.

The IcM for this issue provided the following details regarding RCA and future steps:

[IcM 296990630](#) 

Cause

There is an internal limitation on the number of characters that the square bracket quoted, fully qualified name of the stored procedure can have. That limitation is 128 characters. The full string consisting of square brackets, schema, and stored procedure name must be less than 128 characters in length.

Next steps

We will work on clarifying this limitation in our public documentation.

External reference

[sp_addarticle](#) 

[IcM 296990630](#) 

[Problems with Snapshot Agent](#) 

How good have you found this content?



-