Queries that can be run by the customer

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Issue

This article provide you with customer-facing queries to retrieve replication-related information from the customer environment.

All queries are supposed to run at the Distributor, either in the distribution database or msdb.

Check replication Job history and failures

Run all of these queries against the msdb database.

```sql
-- identify the correct job ID first
-- also note the other columns to confirm the configuration, especially the "command" column
SELECT
    sjv.job_id, sjv.name AS 'job_name', sjv.enabled, sjv.category_id, sjv.originating_server,
    sjs.subsystem, sjs.step_id, sjs.step_name, sjs.step_uid, sjs.server, sjs.database_name, sjs.retry_attempts
FROM msdb.dbo.sysjobsteps sjs
INNER JOIN msdb.dbo.sysjobs_view sjv ON sjv.job_id = sjs.job_id
WHERE subsystem IN ('Distribution','LogReader','Snapshot')

-- then feed that job ID to the stored procedure:
exec msdb.dbo.sp_help_jobhistory @job_id = 'D55F576C-91B7-48D4-9F77-0C4F11105AD6', @mode='FULL'
```

See the [sample output](#) below for further details.

Check replication Agent history and failures

Run all of these queries against the distribution database.

Identify the configured replication agents

Note the naming conventions of the agent names - these will help you with narrowing down on a specific agent. If the customer provides you with a name of a failed agent, you can derive the corresponding values, including the agent id.

- Log Reader Agent: \<instance FQDN>-\<publisher database>-\<agent id>

- Snapshot Agent: \<instance FQDN>-\<publisher database>-\<publication name>-\<agent id>

- Distribution Agent: \<instance FQDN>-\<publisher database>-\<publication name>-\<subscriber name>-\<agent id>

```sql
-- check what agents have been configured
select * from MSlogreader_agents;
select * from MSsnapshot_agents;
select * from MSdistribution_agents;
```

Sample output:

```
MSlogreader_agents:
id   name                                                      publisher_id   publisher_db   publication   local_job   jo
1    MIHLI.8F08E6D34D3B.DATABASE.WINDOWS.NET-Repl_PUB-1   1              Repl_PUB       ALL           1           0x

MSsnapshot_agents:
id   name                                                            publisher_id   publisher_db   publication          pu
1    MIHLI.8F08E6D34D3B.DATABASE.-Repl_PUB-Publication_Tran-1   1              Repl_PUB       Publication_Tran   0

MSdistribution_agents:
id   name                                                                          publisher_database_id   publisher_
1    mihli.8f08e6d34d3b.da-Repl_PUB-Publication_Tran--1                        1                       1
2    mihli.8f08e6d34d3b.da-Repl_PUB-Publication_Tran--2                        1                       1
3    mihli.8f08e6d34d3b.da-Repl_PUB-Publication_Tran-mihli.8f08e6d34d3b.da-3   1                       1
(the "virtual" agents are related to having the "immediate_sync" feature enabled on the publication)
```

Check for replication errors

MSrepl_errors contains errors encountered by any agent type. Note however that MSrepl_errors doesn't provide a correlation to the failing agent (no agent id). You will have to search the repliation agent history MSxxxxx_history tables in column `error_id` instead.

```sql
select top 1000 * from MSrepl_errors order by time desc;
```

Sample output:

```
Sample output:
id  time                      error_type_id  source_type_id  source_name  error_code  error_text
2   2022-12-09 11:08:02.400   0              0               MSSQL_ENG    20598       The row was not found at
1   2022-12-09 11:06:06.137   0              0               MSSQL_ENG    20598       The row was not found at
```

Check agent history

```sql
-- get the recent output, sorted by start_date of the agent:
select top 1000 * from MSlogreader_history order by start_time desc, time desc;
select top 1000 * from MSsnapshot_history order by start_time desc, time desc;
select top 1000 * from MSdistribution_history order by start_time desc, time desc;

-- get the most recent output, sorted by event datetime:
select top 1000 * from MSlogreader_history order by time desc;
select top 1000 * from MSsnapshot_history order by time desc;
select top 1000 * from MSdistribution_history order by time desc;

-- get the output filtered on agent id:
-- agent id available from job name or from MSxxxx_agents table - see above
select * from Distribution..MSlogreader_history where agent_id = 1 order by start_time desc, time desc;
select * from Distribution..MSsnapshot_history where agent_id = 1 order by start_time desc, time desc;
select * from Distribution..MSdistribution_history where agent_id = 3 order by start_time desc, time desc;
```

Sample output

sysjobs and jobhistory

`sysjobs_view` join `sysjobsteps` sample output:

job_id	job_name	enabled	category_id	originating_server
D55F576C-91B7-48D4-9F77-0C4F11105AD6	mihli.8f08e6d34d3b.da-Repl_PUB-Publication_Tran-mihli.8f08e6d...	1	10	MIHLI.8F08E6D34D3B.DATABASE.WINDOWS.NET
77D58E5E-CAB5-40ED-B4A0-6103362236DD	MIHLI.8F08E6D34D3B.DATABASE.WINDOWS.NET-Repl_PUB-1	1	13	MIHLI.8F08E6D34D3B.DATABASE.WINDOWS.NET
7334ACD2-CC16-406E-8243-F7DF1C0A1F32	MIHLI.8F08E6D34D3B.DATABASE.-Repl_PUB-Publication_Tra...	1	15	MIHLI.8F08E6D34D3B.DATABASE.WINDOWS.NET

subsystem	step_id	step_name	step_uid	server	database_name	retry_attempts
Distribution	2	Run agent.	9AF20B6B-E648-4EDB-84B0-39F650162BD4	mihli.8f08e6d34d3b.database.windows.net	Distribution	10
LogReader	2	Run agent.	C2D1DCAD-436D-43B3-B801-90A33D0BB7C4	MIHLI.8F08E6D34D3B.DATABASE.WINDOWS.NET	Distribution	2147483647
Snapshot	2	Run agent.	B92546A4-7EB2-4FE2-BF21-ED1474A6A7ED	MIHLI.8F08E6D34D3B.DATABASE.WINDOWS.NET	Distribution	10

output_file_name	command	additional_parameters
NULL	-Subscriber [mihli.8f08e6d34d3b.database.windows.net] -SubscriberDB [Repl_SUB] -Publisher [mihli.8f08e6d34d3b.database.windows.net] -Distributor [mihli.8f08e6d34d3b.database.windows.net] -DistributorSecurityMode...	NULL
NULL	-Publisher [MIHLI.8F08E6D34D3B.DATABASE.WINDOWS.NET] -PublisherDB [Repl_PUB] -Distributor [mihli.8f08e6d34d3b.database.windows.net] -DistributorSecurityMode 1 -Continuous	NULL
NULL	-Publisher [MIHLI.8F08E6D34D3B.DATABASE.WINDOWS.NET] -PublisherDB [Repl_PUB] -Distributor [MIHLI.8F08E6D34D3B.DATABASE.WINDOWS.NET] -Publication [Publication_Tran] -DistributorSecurityMode 1	NULL

`sp_help_jobhistory` sample output:

	instance_id	job_id	job_name	step_id	step_name
1	1471740	D55F576C-91B7-48D4-9F77-0C4F11105AD6	mihli.8f08e6d34d3b.da-Repl_PUB-Publication_Tran-mihli.8f08e6d34d3b.da-3	2	Run agent.
2	1471739	D55F576C-91B7-48D4-9F77-0C4F11105AD6	mihli.8f08e6d34d3b.da-Repl_PUB-Publication_Tran-mihli.8f08e6d34d3b.da-3	1	Distribution Agent startup message.
3	1471608	D55F576C-91B7-48D4-9F77-0C4F11105AD6	mihli.8f08e6d34d3b.da-Repl_PUB-Publication_Tran-mihli.8f08e6d34d3b.da-3	0	(Job outcome)
4	1471607	D55F576C-91B7-48D4-9F77-0C4F11105AD6	mihli.8f08e6d34d3b.da-Repl_PUB-Publication_Tran-mihli.8f08e6d34d3b.da-3	3	Detect nonlogged agent shutdown.
5	1471606	D55F576C-91B7-48D4-9F77-0C4F11105AD6	mihli.8f08e6d34d3b.da-Repl_PUB-Publication_Tran-mihli.8f08e6d34d3b.da-3	2	Run agent.
6	1471605	D55F576C-91B7-48D4-9F77-0C4F11105AD6	mihli.8f08e6d34d3b.da-Repl_PUB-Publication_Tran-mihli.8f08e6d34d3b.da-3	2	Run agent.
7	1471602	D55F576C-91B7-48D4-9F77-0C4F11105AD6	mihli.8f08e6d34d3b.da-Repl_PUB-Publication_Tran-mihli.8f08e6d34d3b.da-3	2	Run agent.
8	1471595	D55F576C-91B7-48D4-9F77-0C4F11105AD6	mihli.8f08e6d34d3b.da-Repl_PUB-Publication_Tran-mihli.8f08e6d34d3b.da-3	2	Run agent.
9	1471594	D55F576C-91B7-48D4-9F77-0C4F11105AD6	mihli.8f08e6d34d3b.da-Repl_PUB-Publication_Tran-mihli.8f08e6d34d3b.da-3	2	Run agent.

	sql_message_id	sql_severity	message
1	0	0	The replication agent has been successfully started. See the Replication Monitor for more information.
2	0	0	Executed as user: DB4C0\WF-0rAFGKK85RAIW7G. The step succeeded.
3	0	0	The job failed. The Job was invoked by User holgerl. The last step to run was step 3 (Detect nonlogged agent shutdown.). The job was requested to start at step 1 (Distribution Agent startup message.).
4	0	0	Executed as user: DB4C0\WF-0rAFGKK85RAIW7G. The step succeeded.
5	0	0	The replication agent encountered an error and is set to restart within the job step retry interval. See the previous job step history message or Replication Monitor for more information. NOTE: The step was ret
6	0	0	2022-12-09 11:30:08.525 Microsoft SQL Server Replication Agent: distrib 2022-12-09 11:30:08.525 2022-12-09 11:30:08.525 The timestamps prepended to the output lines are expressed in terms of UTC ti
7	0	0	The replication agent has been successfully started. See the Replication Monitor for more information.
8	0	0	The replication agent encountered an error and is set to restart within the job step retry interval. See the previous job step history message or Replication Monitor for more information.
9	0	0	2022-12-09 11:27:51.358 Microsoft SQL Server Replication Agent: distrib 2022-12-09 11:27:51.358 2022-12-09 11:27:51.358 The timestamps prepended to the output lines are expressed in terms of UTC ti

	run_status	run_date	run_time	run_duration	operator_emailed	operator_netsent	operator_paged	retries_attempted	server
1	4	20221209	122050	0	NULL	NULL	NULL	0	MIHLI.8F08E6D34D3B.DATABASE.WINDOWS.NET
2	1	20221209	122050	0	NULL	NULL	NULL	0	MIHLI.8F08E6D34D3B.DATABASE.WINDOWS.NET
3	0	20221209	110641	2455	NULL	NULL	NULL	0	MIHLI.8F08E6D34D3B.DATABASE.WINDOWS.NET
4	1	20221209	113136	0	NULL	NULL	NULL	0	MIHLI.8F08E6D34D3B.DATABASE.WINDOWS.NET
5	0	20221209	113008	128	NULL	NULL	NULL	10	MIHLI.8F08E6D34D3B.DATABASE.WINDOWS.NET
6	4	20221209	110641	2455	NULL	NULL	NULL	0	MIHLI.8F08E6D34D3B.DATABASE.WINDOWS.NET
7	4	20221209	110641	2327	NULL	NULL	NULL	0	MIHLI.8F08E6D34D3B.DATABASE.WINDOWS.NET
8	2	20221209	112751	117	NULL	NULL	NULL	9	MIHLI.8F08E6D34D3B.DATABASE.WINDOWS.NET
9	4	20221209	110641	2227	NULL	NULL	NULL	0	MIHLI.8F08E6D34D3B.DATABASE.WINDOWS.NET

The content of the sp_help_jobhistory.message column will provide information that is similar to the OutputVerboseLevel output file. The content of the field marked in blue was the following (no PII - captured on a CSS test instance):

```
2022-12-09 11:30:08.525 Microsoft SQL Server Replication Agent: distrib
2022-12-09 11:30:08.525
2022-12-09 11:30:08.525 The timestamps prepended to the output lines are expressed in terms of UTC time.
2022-12-09 11:30:08.525 User-specified agent parameter values:
    -Subscriber mihli.8f08e6d34d3b.database.windows.net
    -SubscriberDB Repl_SUB
    -Publisher mihli.8f08e6d34d3b.database.windows.net
    -Distributor mihli.8f08e6d34d3b.database.windows.net
    -DistributorSecurityMode 1
    -Publication Publication_Tran
    -PublisherDB Repl_PUB
    -Continuous
    -XJOBID 0x6C575FD5B791D4489F770C4F11105AD6
    -XJOBNAME mihli.8f08e6d34d3b.da-Repl_PUB-Publication_Tran-mihli.8f08e6d34d3b.da-3
    -XSTEPID 2
    -XSUBSYSTEM Distribution
    -XSERVER mihli.8f08e6d34d3b.database.windows.net
    -XCMDLINE 1
    -XDB
    -XHOST np:\\.\pipe\DB4C.0-D22D2212BBF8\sql\query
    -T 500
    -XCancelEventHandle Global\Distribution-{A672B7D6-186B-41A3-B0DA-E1868E70740C}
2022-12-09 11:30:08.525 Startup Delay: 9736 (msecs)
2022-12-09 11:30:18.291 Connecting to Distributor 'mihli.8f08e6d34d3b.database.windows.net'
2022-12-09 11:30:18.416 Obtained Azure Storage Connection String for hlireplsnapshots
2022-12-09 11:30:18.416 Connecting to Azure Files Storage '\\hlireplsnapshots.file.core.windows.net\snapshots'
2022-12-09 11:30:20.760 Parameter values obtained from agent profile:
    -bcpbatchsize 0
    -commitbatchsize 100
    -commitbatchthreshold 1000
    -historyverboselevel 1
    -keepalivemessageinterval 300
    -logintimeout 15
    -maxbcpthreads 1
    -maxdeliveredtransactions 0
    -pollinginterval 5000
    -querytimeout 1800
    -skiperrors
    -transactionsperhistory 100
2022-12-09 11:30:20.776 Connecting to Subscriber 'mihli.8f08e6d34d3b.database.windows.net'
2022-12-09 11:30:20.947 Initializing
2022-12-09 11:30:21.041  42000 The row was not found at the Subscriber when applying the replicated UPDATE com
2022-12-09 11:30:21.057 Disconnecting from Subscriber 'mihli.8f08e6d34d3b.database.windows.net'
2022-12-09 11:30:21.057 Connecting to Subscriber 'mihli.8f08e6d34d3b.database.windows.net'
2022-12-09 11:30:21.119 Error executing a batch of commands. Retrying individual commands.
2022-12-09 11:30:26.151 Disconnecting from Subscriber 'mihli.8f08e6d34d3b.database.windows.net'
(...last 3 lines repeated for each retry attempt...)
2022-12-09 11:31:36.511 Connecting to Subscriber 'mihli.8f08e6d34d3b.database.windows.net'
2022-12-09 11:31:36.558 Error executing a batch of commands. Retrying individual commands.
2022-12-09 11:31:36.574 Disconnected from Azure Storage '\\hlireplsnapshots.file.core.windows.net\snapshots' w
2022-12-09 11:31:36.589 Agent message code 20598. The row was not found at the Subscriber when applying the re
```

MSlogreader_agents

id	name	publisher_id	publisher_db	publication	local_job	jo
1	MIHLI.8F08E6D34D3B.DATABASE.WINDOWS.NET-Repl_PUB-1	1	Repl_PUB	ALL	1	0x

MSsnapshot_agents

id	name	publisher_id	publisher_db	publication	pu
1	MIHLI.8F08E6D34D3B.DATABASE.-Repl_PUB-Publication_Tran-1	1	Repl_PUB	Publication_Tran	0

MSdistribution_agents

id	name	publisher_database_id	publisher_
1	mihli.8f08e6d34d3b.da-Repl_PUB-Publication_Tran--1	1	1
2	mihli.8f08e6d34d3b.da-Repl_PUB-Publication_Tran--2	1	1
3	mihli.8f08e6d34d3b.da-Repl_PUB-Publication_Tran-mihli.8f08e6d34d3b.da-3	1	1

MSrepl_errors

id	time	error_type_id	source_type_id	source_name	error_code	error_text
2	2022-12-09 11:08:02.400	0	0	MSSQL_ENG	20598	The row was not found at
1	2022-12-09 11:06:06.137	0	0	MSSQL_ENG	20598	The row was not found at

MSlogreader_history

agent_id	runstatus	start_time	time	duration	comments	xact_seqno	delivery_time	delivered_tran...	delivered_comm...
1	4	2022-12-09 08:39:45....	2022-12-09 09:07:33.9...	1668	No replicated transactions are available.	0x00000032000009200005	47	1	1
1	3	2022-12-09 08:39:45....	2022-12-09 09:05:03.7...	1518	<stats state="1" work="0" idle="1517" ><reader fetch="...	0x00000032000009200005	47	1	1
1	3	2022-12-09 08:39:45....	2022-12-09 09:00:03.2...	1218	<stats state="1" work="0" idle="1216" ><reader fetch="...	0x00000032000009200005	47	1	1
1	1	2022-12-09 08:39:45....	2022-12-09 08:39:46.3...	1	Initializing	0x	0	0	0
1	1	2022-12-09 08:39:45....	2022-12-09 08:39:46.3...	1	Validating publisher	0x	0	0	0
1	1	2022-12-09 08:39:45....	2022-12-09 08:39:45.3...	0	Starting agent.	0x	0	0	0
1	2	2022-12-09 08:37:56....	2022-12-09 08:39:34.7...	98	The process was successfully stopped.	0x	0	0	0
1	4	2022-12-09 08:37:56....	2022-12-09 08:39:02.3...	66	No replicated transactions are available.	0x	0	0	0
1	1	2022-12-09 08:37:56....	2022-12-09 08:37:57.2...	1	Initializing	0x	0	0	0
1	1	2022-12-09 08:37:56....	2022-12-09 08:37:57.2...	1	Validating publisher	0x	0	0	0
1	1	2022-12-09 08:37:56....	2022-12-09 08:37:56.0...	0	Starting agent.	NULL	0	0	0

MSdistribution_history

agent_id	runstatus	start_time	time	duration	comments	xact_seqno	current_delivery_rate	current_delivery_latency	delivered_transactions
3	4	2022-12-09 08:42:20.650	2022-12-09 09:08:04.630	1544	No replicated transactions are available.	0x00000032000009200005000000000000	21.28	644	2
3	3	2022-12-09 08:42:20.650	2022-12-09 09:07:24.557	1504	<stats state="1" work="1" idle="1502"><reader fetch="0" wait="0"/><writer write...	0x00000032000009200005000000000000	0	0	2
3	3	2022-12-09 08:42:20.650	2022-12-09 09:02:24.097	1204	<stats state="1" work="1" idle="1201"><reader fetch="0" wait="0"/><writer write...	0x00000032000009200005000000000000	0	0	2
3	3	2022-12-09 08:42:20.650	2022-12-09 08:57:23.577	903	<stats state="1" work="1" idle="901"><reader fetch="0" wait="0"/><writer write=...	0x0000003100000EF0004A000000010000	0	0	1
3	3	2022-12-09 08:42:20.650	2022-12-09 08:52:23.153	603	<stats state="1" work="1" idle="600"><reader fetch="0" wait="0"/><writer write=...	0x0000003100000EF0004A000000010000	0	0	1
3	3	2022-12-09 08:42:20.650	2022-12-09 08:47:22.677	302	<stats state="1" work="1" idle="300"><reader fetch="0" wait="0"/><writer write=...	0x0000003100000EF0004A000000010000	0	0	1
3	3	2022-12-09 08:42:20.650	2022-12-09 08:42:22.037	2	Delivered snapshot from the '\unc\MIHLID8F08E6D34D3BDDAT1256c77d_REPL...	0x00000000000000000000000000000000	0	0	0
3	3	2022-12-09 08:42:20.650	2022-12-09 08:42:22.017	2	Applied script 'SubTable_3.dri'	0x00000000000000000000000000000000	0	0	0
3	3	2022-12-09 08:42:20.650	2022-12-09 08:42:21.957	1	Applied script 'MainTable_2.dri'	0x00000000000000000000000000000000	0	0	0
3	3	2022-12-09 08:42:20.650	2022-12-09 08:42:21.917	1	Bulk copied data into table 'SubTable' (1 rows)	0x00000000000000000000000000000000	0	0	0
3	3	2022-12-09 08:42:20.650	2022-12-09 08:42:21.847	1	Bulk copying data into table 'SubTable'	0x00000000000000000000000000000000	0	0	0
3	3	2022-12-09 08:42:20.650	2022-12-09 08:42:21.840	1	Bulk copied data into table 'MainTable' (2 rows)	0x00000000000000000000000000000000	0	0	0
3	3	2022-12-09 08:42:20.650	2022-12-09 08:42:21.740	1	Bulk copying data into table 'MainTable'	0x00000000000000000000000000000000	0	0	0
3	3	2022-12-09 08:42:20.650	2022-12-09 08:42:21.630	1	Applied script 'SubTable_3.sch'	0x00000000000000000000000000000000	0	0	0
3	3	2022-12-09 08:42:20.650	2022-12-09 08:42:21.490	1	Applied script 'MainTable_2.sch'	0x00000000000000000000000000000000	0	0	0
3	3	2022-12-09 08:42:20.650	2022-12-09 08:42:21.297	1	Applied script 'MainTable_2.pre'	0x00000000000000000000000000000000	0	0	0
3	3	2022-12-09 08:42:20.650	2022-12-09 08:42:21.220	1	Applied script 'SubTable_3.pre'	0x00000000000000000000000000000000	0	0	0
3	1	2022-12-09 08:42:20.650	2022-12-09 08:42:20.650	0	Initializing	0x00000000000000000000000000000000	0	0	0
3	4	2022-12-09 08:41:32.643	2022-12-09 08:41:37.570	5	The initial snapshot for publication 'Publication_Tran' is not yet available.	0x00000000000000000000000000000000	0	0	0
3	1	2022-12-09 08:41:32.643	2022-12-09 08:41:32.643	0	Starting agent.	0x00000000000000000000000000000000	0	0	0
2	0	2022-12-09 08:40:36.003	2022-12-09 08:40:36.003	0	Distribution agent for subscription added.	0x00000000000000000000000000000000	0	0	0
1	0	2022-12-09 08:40:35.950	2022-12-09 08:40:35.950	0	Distribution agent for subscription added.	0x00000000000000000000000000000000	0	0	0

delivered_commands	average_commands	delivery_rate	delivery_latency	total_delivered_commands	error_id	updateable_row	timestamp
16	8	129.69	2270	16	0	1	0x0000000000000893
16	8	129.69	2270	16	0	0	0x0000000000000891
16	8	129.69	2270	16	0	0	0x0000000000000885
15	15	238.1	3897	15	0	0	0x000000000000086E
15	15	238.1	3897	15	0	0	0x0000000000000863
15	15	238.1	3897	15	0	0	0x0000000000000855
0	0	0	0	0	0	0	0x0000000000000835
0	0	0	0	0	0	0	0x0000000000000834
0	0	0	0	0	0	0	0x0000000000000833
0	0	0	0	0	0	0	0x0000000000000832
0	0	0	0	0	0	0	0x0000000000000831
0	0	0	0	0	0	0	0x0000000000000830
0	0	0	0	0	0	0	0x000000000000082F
0	0	0	0	0	0	0	0x000000000000082E
0	0	0	0	0	0	0	0x000000000000082D
0	0	0	0	0	0	0	0x000000000000082C
0	0	0	0	0	0	0	0x000000000000082B
0	0	0	0	0	0	1	0x000000000000082A
0	0	0	0	0	0	1	0x0000000000000802
0	0	0	0	0	0	1	0x00000000000007FE
0	0	0	0	0	0	0	0x00000000000007FA
0	0	0	0	0	0	0	0x00000000000007F9

MSsnapshot_history

agent_id	runstatus	start_time	time	duration	comments	deliver...	delivere...	delivery_rate	error_id	timestamp
1	2	2022-12-09 08:41:52.033	2022-12-09 08:42:18.327	26	[100%] A snapshot of 2 article(s) was generated.	0	0	0	0	0x0000000000000829
1	3	2022-12-09 08:41:52.033	2022-12-09 08:42:18.270	26	[71%] Inserted constraint creation command for article 'SubTable' into the distribution database.	0	0	0	0	0x0000000000000828
1	3	2022-12-09 08:41:52.033	2022-12-09 08:42:18.263	26	[71%] Inserted constraint creation command for article 'MainTable' into the distribution database.	0	0	0	0	0x0000000000000827
1	3	2022-12-09 08:41:52.033	2022-12-09 08:42:18.257	26	[71%] Inserted bcp command for article 'SubTable' into the distribution database.	0	0	0	0	0x0000000000000826
1	3	2022-12-09 08:41:52.033	2022-12-09 08:42:18.250	26	[71%] Inserted bcp command for article 'MainTable' into the distribution database.	0	0	0	0	0x0000000000000825
1	3	2022-12-09 08:41:52.033	2022-12-09 08:42:18.247	26	[71%] Inserted index creation command for article 'SubTable' into the distribution database.	0	0	0	0	0x0000000000000824
1	3	2022-12-09 08:41:52.033	2022-12-09 08:42:18.240	26	[71%] Inserted index creation command for article 'MainTable' into the distribution database.	0	0	0	0	0x0000000000000823
1	3	2022-12-09 08:41:52.033	2022-12-09 08:42:18.227	26	[71%] Inserted schema command for article 'SubTable' into the distribution database	0	0	0	0	0x0000000000000822
1	3	2022-12-09 08:41:52.033	2022-12-09 08:42:18.220	26	[71%] Inserted schema command for article 'MainTable' into the distribution database	0	0	0	0	0x0000000000000821
1	3	2022-12-09 08:41:52.033	2022-12-09 08:42:18.183	26	[71%] Posting snapshot commands into the distribution database	0	0	0	0	0x0000000000000820
1	3	2022-12-09 08:41:52.033	2022-12-09 08:42:17.730	25	[71%] Processing system pre-snapshot script	0	0	0	0	0x000000000000081F
1	3	2022-12-09 08:41:52.033	2022-12-09 08:42:16.353	24	[39%] Generating schema scripts for article 'SubTable'	0	0	0	0	0x000000000000081E
1	3	2022-12-09 08:41:52.033	2022-12-09 08:42:11.653	19	[6%] Generating schema scripts for article 'MainTable'	0	0	0	0	0x000000000000008...
1	3	2022-12-09 08:41:52.033	2022-12-09 08:42:11.640	19	[6%] Analyzing dependencies on non-article objects	0	0	0	0	0x000000000000081C
1	3	2022-12-09 08:41:52.033	2022-12-09 08:42:11.633	19	[6%] Analyzing external references of all replicated check and default constraints	0	0	0	0	0x000000000000081B
1	3	2022-12-09 08:41:52.033	2022-12-09 08:42:11.550	19	[6%] Analyzing foreign key references among article objects in the publication	0	0	0	0	0x000000000000081A
1	3	2022-12-09 08:41:52.033	2022-12-09 08:42:11.533	19	[6%] Resolving duplicate object names among replicated objects	0	0	0	0	0x0000000000000819
1	3	2022-12-09 08:41:52.033	2022-12-09 08:42:11.523	19	[6%] Customizing object for scripting based on article 'SubTable'	0	0	0	0	0x0000000000000818
1	3	2022-12-09 08:41:52.033	2022-12-09 08:42:11.450	19	[6%] Customizing object for scripting based on article 'MainTable'	0	0	0	0	0x0000000000000817
1	3	2022-12-09 08:41:52.033	2022-12-09 08:42:11.387	19	[6%] Sorting article objects in the proper creation order	0	0	0	0	0x0000000000000816
1	3	2022-12-09 08:41:52.033	2022-12-09 08:42:07.767	15	[6%] Pre-loading meta-data of all tables in the publisher database for scripting	0	0	0	0	0x0000000000000815
1	3	2022-12-09 08:41:52.033	2022-12-09 08:42:07.433	1	[0%] Bulk copied snapshot data for article 'MainTable' (2 rows).	0	2	2	0	0x0000000000000814
1	3	2022-12-09 08:41:52.033	2022-12-09 08:42:07.427	1	[0%] Bulk copied snapshot data for article 'SubTable' (1 rows).	0	1	1	0	0x0000000000000813
1	3	2022-12-09 08:41:52.033	2022-12-09 08:42:07.347	15	[0%] Bulk copying snapshot data for article 'SubTable'	0	0	0	0	0x0000000000000812
1	3	2022-12-09 08:41:52.033	2022-12-09 08:42:07.340	15	[0%] Bulk copying snapshot data for article 'MainTable'	0	0	0	0	0x0000000000000811
1	3	2022-12-09 08:41:52.033	2022-12-09 08:42:07.187	15	[0%] Locking published tables while generating the snapshot	0	0	0	0	0x0000000000000810
1	3	2022-12-09 08:41:52.033	2022-12-09 08:42:07.167	15	[0%] Activating the object '[dbo].[SubTable]' for replication	0	0	0	0	0x000000000000080F
1	3	2022-12-09 08:41:52.033	2022-12-09 08:42:07.130	15	[0%] Activating the object '[dbo].[MainTable]' for replication	0	0	0	0	0x000000000000080E
1	3	2022-12-09 08:41:52.033	2022-12-09 08:42:07.020	15	[0%] Updating statistics on index 'dbo.MainTable(PK__MainTabl__3214EC27F669712F)'	0	0	0	0	0x000000000000008...
1	3	2022-12-09 08:41:52.033	2022-12-09 08:42:07.013	15	[0%] Updating statistics on index 'dbo.SubTable(PK__SubTable__3214EC27CE1FD4DD)'	0	0	0	0	0x000000000000080C
1	3	2022-12-09 08:41:52.033	2022-12-09 08:41:52.520	0	Retrieving publication and article information from the publisher database 'MIHLI.8F08E6D34D3B...	0	0	0	0	0x000000000000080A
1	3	2022-12-09 08:41:52.033	2022-12-09 08:41:52.517	0	Publisher database compatibility level is set to 150.	0	0	0	0	0x0000000000000809
1	3	2022-12-09 08:41:52.033	2022-12-09 08:41:52.510	0	Connecting to Publisher 'MIHLI.8F08E6D34D3B.DATABASE.WINDOWS.NET'	0	0	0	0	0x0000000000000808
1	3	2022-12-09 08:41:52.033	2022-12-09 08:41:52.503	0	Connecting to Azure Files Storage '\\hlireplsnapshots.file.core.windows.net\snapshots'	0	0	0	0	0x0000000000000807
1	3	2022-12-09 08:41:52.033	2022-12-09 08:41:52.493	0	Obtained Azure Storage Connection String for hlireplsnapshots	0	0	0	0	0x0000000000000806
1	3	2022-12-09 08:41:52.033	2022-12-09 08:41:52.487	0	Connecting to Distributor 'MIHLI.8F08E6D34D3B.DATABASE.WINDOWS.NET'	0	0	0	0	0x0000000000000805
1	1	2022-12-09 08:41:52.033	2022-12-09 08:41:52.033	0	Initializing	0	0	0	0	0x0000000000000804
1	1	2022-12-09 08:41:49.573	2022-12-09 08:41:49.573	0	Starting agent.	0	0	0	0	0x0000000000000803

How good have you found this content?