

Job apparently didn't executed. No records for the execution on a specific day

Last updated by | Ricardo Marques | Mar 8, 2023 at 3:34 AM PST

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Issue

Job scheduled to run on a specific hour. The job apparently wasn't triggered.

When looking at the Job History there is no record for the hour when the job was supposed to run.

Investigation/Analysis

First get the Job ID from the customer:

```
select job_id from msdb.dbo.sysjobs where name = N'<job_name>'
```

Using the Job id, confirm on telemetry the job start:

```
MonSqlAgent  
| where LogicalServerName == "server_name"  
| where message contains "<job_id>" and message contains "515"  
| project NodeName, originalEventTimestamp, message
```

It will be possible to find that the job actually started:

NodeName	originalEventTimestamp	message
DB48C.0	2023-02-09 13:25:20.5422069	? [515] Job 0x734152E63FCF7F4FBAFC773D78F9724A outcome: The job succeeded.
DB48C.0	2023-02-11 01:08:31.3767723	? [515] Job 0x734152E63FCF7F4FBAFC773D78F9724A outcome: The job succeeded.
DB48C.0	2023-02-11 08:04:02.8136274	? [515] Job 0x734152E63FCF7F4FBAFC773D78F9724A outcome: The job failed.
DB48C.1	2023-02-12 09:18:22.7998753	? [515] Job 0x734152E63FCF7F4FBAFC773D78F9724A outcome: The job succeeded.
DB48C.1	2023-02-13 06:39:02.3079279	? [515] Job 0x734152E63FCF7F4FBAFC773D78F9724A outcome: The job succeeded.
DB48C.1	2023-02-15 02:00:03.2734212	? [515] Job 0x734152E63FCF7F4FBAFC773D78F9724A outcome: The job succeeded.
DB48C.1	2023-02-15 18:34:13.7754180	? [515] Job 0x734152E63FCF7F4FBAFC773D78F9724A outcome: The job succeeded.
DB48C.1	2023-02-16 19:55:49.4401377	? [515] Job 0x734152E63FCF7F4FBAFC773D78F9724A outcome: The job succeeded.
DB48C.1	2023-02-17 16:46:00.9976371	? [515] Job 0x734152E63FCF7F4FBAFC773D78F9724A outcome: The job succeeded.
DB48C.1	2023-02-18 07:13:10.9999063	? [515] Job 0x734152E63FCF7F4FBAFC773D78F9724A outcome: The job succeeded.
DB48C.1	2023-02-19 05:16:19.9420666	? [515] Job 0x734152E63FCF7F4FBAFC773D78F9724A outcome: The job succeeded.
DB48C.1	2023-02-20 06:44:48.8061940	? [515] Job 0x734152E63FCF7F4FBAFC773D78F9724A outcome: The job succeeded.
DB48C.1	2023-02-21 06:12:11.3683911	? [515] Job 0x734152E63FCF7F4FBAFC773D78F9724A outcome: The job succeeded.

Note that the job entries are now reported a new NodeName (the job entry is on one node. The next run is happening a new node).

Correlate the start of the job with a failover of the Managed Instance:

```
MonSQLSystemHealth
| where LogicalServerName == "server_name"
| where originalEventTimestamp > datetime(2023-02-11 01:08:31.3767723)
| where originalEventTimestamp < datetime(2023-02-11 19:04:02.8136274)
| summarize min(originalEventTimestamp), max(originalEventTimestamp) by AppName, NodeName, process_id
```

The job started the execution on schedule on one node, but during its execution planned maintenance of the physical machine hosting the instance happened and that caused job to failed.

Since the Sql Agent started executing on one node which has now become read-only, it was unable to write its result and that is the reason why the execution is not visible in sysjobhistory.

Mitigation

This is design limitation and there is no mitigation in such case.

As a workaround, the customer can setup its own logging, writing into custom log tables tracking job and operation progress.

Internal reference

[369187769](#) 

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