

Get Restore information

Last updated by | Vitor Tomaz | Jun 8, 2022 at 5:35 AM PDT

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Issue

There are several situations where we need to get more details about restores that have failed and why it has failed or that are running and the customer is saying it's too slow or is stuck.

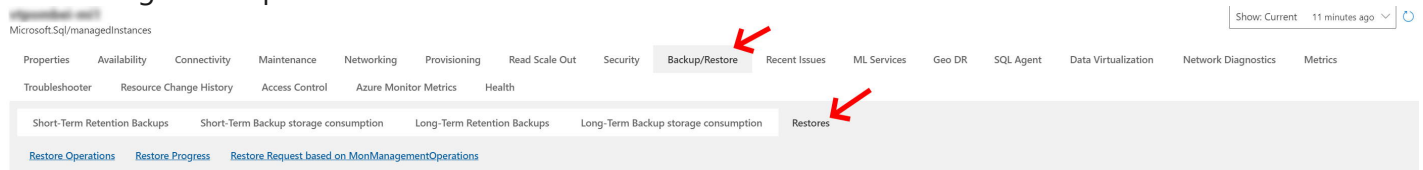
Investigation/Analysis

- CSS side

The easiest way to collect information about restores is throw ASC.

Using the Resource Explorer or by running a troubleshooter go to the Backup/Restore section and then select the Restore tab.

There you will see information about Restore Operations, Restore Progress and Restore Request based on MonManagementOperations.



If you need to collect more detailed or other kind of information try using the following Kusto queries:

```
MonRestoreEvents
|where TIMESTAMP >=datetime(2022-02-22 11:09:08.8770000)
|where TIMESTAMP <datetime(2022-02-22 13:09:08.8770000)
//|where restore_request_id contains "26fddf01-c552-4600-9f49-859925a37eb2" //If we have the restore requ
| where LogicalServerName == "<instance name>"
//| where restore_database_progress contains "Executing restore query RESTORE DATABASE" //uncomment this
| project originalEventTimestamp, LogicalServerName, AppName, event, restore_database_progress, message,
```

With the information (AppName and database id) obtained from the previous query we can run the followin query

Example on where to find the database id from the ouput of the previous query: "Executing restore query RESTORE DATABASE [xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxxxx] FROM URL = N'..."

```
MonSQLSystemHealth
| where AppName ==""
|where TIMESTAMP >=datetime(2022-02-22 11:09:08.8770000)
|where TIMESTAMP <datetime(2022-02-22 13:09:08.8770000)
|where message contains "xxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx" //database name while restoring, get it fr
| where message contains "restore"
```

We can also use XTS using the view **restoretroubleshooting**

Find your restore request here (CMS: managed_restore_requests - up to 100 - latest first)

restore_id	create_time	last_state_change_time	state	type	operation_detail_full	external_error_message
d3a0b8b-4525-46c-404-4419c25b96	2022-03-14 12:47:07.2430000	2022-03-14 12:47:07.3530000	RestoringDatabaseV2	Restore	2 of 2 backup files have been restored in 00:00:01.6993170.	
9605560b-e6cf-4d24-b7c-e2855737a991	2022-03-14 12:45:08.4300000	2022-03-14 12:45:23.4470000	Completed	LTR	The database has been restored successfully in 00:00:04.3111704.	
93637cd-3457-46f0-b0e0-8d1c2d42c9fa	2022-03-14 12:39:12.1070000	2022-03-14 12:39:26.1870000	Completed	Restore	The database has been restored successfully in 00:00:02.0025160.	
e9fda4f-74ca-40db-bdc-d02a158c377	2022-03-11 21:24:06.6300000	2022-03-11 21:27:46.9130000	Completed	Restore	The database has been restored successfully in 00:03:30.2539162.	
15d4dec-877c-1e12-81dc-49268af720e	2022-03-11 20:53:43.7130000	2022-03-11 20:55:31.3870000	Completed	NativeRestore	The database has been restored successfully in 00:01:36.2134617.	
64b-435e-578e-7e7e-949-65615641a68	2022-03-11 16:41:17.5000000	2022-03-11 16:42:33.1730000	Completed	LTR	The database has been restored successfully in 00:01:05.3343200.	
702de1f1-c9f5-4f5e-92be-eba39173858	2022-03-11 15:31:44.5670000	2022-03-11 15:32:28.4430000	Completed	NativeRestore	The database has been restored successfully in 00:01:31.4849771.	
e46d638-484c-4a6d-8484-0ffea6c3240	2022-03-11 14:33:55.7400000	2022-03-11 14:37:38.3530000	Completed	Restore	The database has been restored successfully in 00:03:22.4877393.	
610234f4-b43d-4a77-97af-56671666f4a3	2022-02-22 12:09:08.8770000	2022-02-22 12:09:14.6430000	Failed	Restore	The managed instance has reached its storage limit. The storage usage for the managed instance cannot exceed 98304 MBs. Target database size 19408, current database size 24, used storage space 79608	The managed instance
7270ba8-47c7-4a90-886e-3a872735fed5	2022-02-22 11:55:09.4900000	2022-02-22 11:55:15.0330000	Failed	Restore	The managed instance has reached its storage limit. The storage usage for the managed instance cannot exceed 98304 MBs. Target database size 19408, current database size 24, used storage space 79608	The managed instance
a058c61-c80a-489c-95ab-62136a09c96d	2022-02-22 11:37:12.5930000	2022-02-22 11:37:19.0500000	Failed	Restore	The managed instance has reached its storage limit. The storage usage for the managed instance cannot exceed 98304 MBs. Target database size 19408, current database size 24, used storage space 79608	The managed instance
18f915b5-bac2-4081-413a-5e4ef93590af	2022-02-22 11:25:20.9400000	2022-02-22 11:28:51.0700000	Completed	Restore	The database has been restored successfully in 00:03:20.7566419.	
8402f9c-6684-43c3-8795-bab45b401038	2022-02-22 11:22:18.1330000	2022-02-22 11:25:57.3700000	Completed	Restore	The database has been restored successfully in 00:03:21.2140060.	
0f2c7238-22a1-40d0-8b64-4ffe1568247f	2022-01-28 10:29:17.1900000	2022-01-28 10:33:12.1930000	Completed	Restore	The database has been restored successfully in 00:03:42.7021273.	
4226a270-f611-4e6d-a011-2cc09ff19f44	2022-01-27 22:09:51.2200000	2022-01-27 22:33:12.7470000	Completed	Restore	The database has been restored successfully in 00:03:17.3137982.	
512c424f-7090-46f9-9d5b-4f585a1f1f	2022-01-23 16:25:33.3300000	2022-01-23 16:27:10.5030000	Completed	NativeRestore	The database has been restored successfully in 00:01:29.303019.	
c072b7c-f58e-4a0f-93a8-886f6e9b5af3	2022-01-23 16:03:07.6770000	2022-01-23 16:03:45.0570000	Cancelled	Restore	Restoring 1 of 11 backup files.	
feba356-8662-4308-8352-4e4d7b2ae98e	2022-01-23 15:25:39.2170000	2022-01-23 15:30:45.4570000	Completed	Restore	The database has been restored successfully in 00:04:51.6576834.	
91a02f24-0c92-49c1-bf9d-86c7c7afa694	2022-01-23 15:22:56.2270000	2022-01-23 15:28:12.9500000	Completed	Restore	The database has been restored successfully in 00:05:05.3647853.	
4a7e5842-d6d2-4c4f-965f-644f40461491	2022-01-23 15:16:41.9370000	2022-01-23 15:21:42.2700000	Completed	Restore	The database has been restored successfully in 00:04:43.6701715.	
107466e-1c3b-40f9-9699-c9e5d375a627	2022-01-23 09:43:00.0870000	2022-01-23 09:47:52.7470000	Completed	Restore	The database has been restored successfully in 00:04:43.8868271.	
24b792f7-868b-44a4-aeac-d2af8b08107a	2022-01-22 17:50:30.6130000	2022-01-22 17:50:37.7790000	Failed	NativeRestore	The managed instance has reached its storage limit. The storage usage for the managed instance cannot exceed 262144 MBs. Target database size 180662, current database size 72, used storage space 2...	The managed instance
6ab25223-c0b0-40fb-4950-34b61076c1c2	2022-01-22 17:49:39.9170000	2022-01-22 17:49:46.7070000	Failed	NativeRestore	The managed instance has reached its storage limit. The storage usage for the managed instance cannot exceed 262144 MBs. Target database size 180662, current database size 72, used storage space 2...	The managed instance

Find your restore request here (CMS: managed_restore_requests - up to 100 - latest first)

Find your restore request here (Status - up to 100 - latest first) (NOTE: TR name and Subscription ID filters do NOT work in this window)

All events

TIMESTAMP	source	message
22/02/2022 12:09:08	MonManagement	"request_id": "4106430C-E38F-4D43-994C-850581C18C3D", "event": "management_workflow_query_start", "state_machine_type": "old_state", "new_state": "", "action": "", "state": "", "request_name": "", "operation_type": "", "operation_parameters": "", "exception_type": "", "stack_trace": ""
22/02/2022 12:09:08	MonManagement	"request_id": "4106430C-E38F-4D43-994C-850581C18C3D", "event": "management_workflow_query_complete", "state_machine_type": "old_state", "new_state": "", "action": "", "state": "", "request_name": "", "operation_type": "", "operation_parameters": "", "exception_type": "", "stack_trace": ""
22/02/2022 12:09:08	MonManagement	"request_id": "4106430C-E38F-4D43-994C-850581C18C3D", "event": "management_workflow_query_start", "state_machine_type": "old_state", "new_state": "", "action": "", "state": "", "request_name": "", "operation_type": "", "operation_parameters": "", "exception_type": "", "stack_trace": ""
22/02/2022 12:09:08	MonManagement	"request_id": "4106430C-E38F-4D43-994C-850581C18C3D", "event": "management_workflow_managed_restore_request_operation_start", "state_machine_type": "old_state", "new_state": "", "action": "", "state": "", "request_name": "", "operation_type": "", "operation_parameters": "", "exception_type": "", "stack_trace": ""
22/02/2022 12:09:08	MonManagement	"request_id": "4106430C-E38F-4D43-994C-850581C18C3D", "event": "fm_starting_request", "state_machine_type": "old_state", "new_state": "", "action": "", "state": "", "request_name": "CreateHighAvailability", "operation_type": "", "operation_parameters": "", "exception_type": "", "stack_trace": ""
22/02/2022 12:09:08	MonManagement	"request_id": "4106430C-E38F-4D43-994C-850581C18C3D", "event": "fm_creating_state_machine", "state_machine_type": "ManagementOperatorStateMachine", "old_state": "new_state", "action": "", "state": "", "request_name": "", "operation_type": "", "operation_parameters": "", "exception_type": "", "stack_trace": ""
22/02/2022 12:09:08	MonManagement	"request_id": "4106430C-E38F-4D43-994C-850581C18C3D", "event": "management_operation_start", "state_machine_type": "old_state", "new_state": "", "action": "", "state": "", "request_name": "CreateManagedRestoreRequest", "operation_type": "CreateManagedRestoreRequest", "operation_parameters": "<?xml version='1.0'?><inputParameters xmlns:xsd='http://www.w3.org/2001/XMLSchema' xmlns:xsi='http://www.w3.org/2001/XMLSchema-instance'><requestId>4106430C-E38F-4D43-994C-850581C18C3D</requestId></inputParameters></xml>", "exception_type": "", "stack_trace": ""
22/02/2022 12:09:08	MonManagement	"request_id": "4106430C-E38F-4D43-994C-850581C18C3D", "event": "management_workflows_managed_restore_request_operation_complete", "state_machine_type": "old_state", "new_state": "", "action": "", "state": "", "request_name": "", "operation_type": "", "operation_parameters": "", "exception_type": "", "stack_trace": ""
22/02/2022 12:09:08	MonManagement	"request_id": "4106430C-E38F-4D43-994C-850581C18C3D", "event": "fm_executing_action", "state_machine_type": "ManagementOperatorStateMachine", "old_state": "new_state", "action": "TransitionPending", "state": "Pending", "request_name": "", "operation_type": "", "operation_parameters": "", "exception_type": "", "stack_trace": ""
22/02/2022 12:09:08	MonManagement	"request_id": "4106430C-E38F-4D43-994C-850581C18C3D", "event": "fm_executed_action", "state_machine_type": "ManagementOperatorStateMachine", "old_state": "new_state", "action": "TransitionPending", "state": "Pending", "request_name": "", "operation_type": "", "operation_parameters": "", "exception_type": "", "stack_trace": ""
22/02/2022 12:09:08	MonManagement	"request_id": "4106430C-E38F-4D43-994C-850581C18C3D", "event": "fm_executed_action", "state_machine_type": "ManagementOperatorStateMachine", "old_state": "new_state", "action": "TransitionPreConditionCheck", "state": "TheConditionCheck", "request_name": "", "operation_type": "", "operation_parameters": "", "exception_type": "", "stack_trace": ""
22/02/2022 12:09:08	MonManagement	"request_id": "4106430C-E38F-4D43-994C-850581C18C3D", "event": "fm_changing_state", "state_machine_type": "ManagementOperatorStateMachine", "old_state": "TheConditionCheck", "new_state": "InitiatingOperation", "action": "TransitionPreConditionCheck", "state": "TheConditionCheck", "request_name": "", "operation_type": "", "operation_parameters": "", "exception_type": "", "stack_trace": ""
22/02/2022 12:09:08	MonManagement	"request_id": "4106430C-E38F-4D43-994C-850581C18C3D", "event": "fm_executing_action", "state_machine_type": "ManagementOperatorStateMachine", "old_state": "new_state", "action": "TransitionInitiateOperation", "state": "InitiatingOperation", "request_name": "", "operation_type": "", "operation_parameters": "", "exception_type": "", "stack_trace": ""
22/02/2022 12:09:08	MonManagement	"request_id": "4106430C-E38F-4D43-994C-850581C18C3D", "event": "fm_creating_state_machine", "state_machine_type": "ManagedRestoreRequestStateMachine", "old_state": "new_state", "action": "TransitionInitiate", "state": "InitiatingOperation", "request_name": "", "operation_type": "", "operation_parameters": "", "exception_type": "", "stack_trace": ""

Metrics

No Restore Start Time	No Restore End Time	No Restore Duration	Fabric Restore Start Time	Fabric Restore End Time	Fabric Restore Duration	Engine Restore Start Time	Engine Restore End Time	Engine Restore Duration	Physical Virtualization Duration	restore TSQL
22/02/2022 12:09:08			22/02/2022 12:09:10							

- Customer side Customers can collect information regarding restores reading from the Error Log. As the Error Log sometimes contains too much information we can use the [sp_mirestoreinfo](#) script to filter and just view the relevant information regarding restores.

Mitigation

There can be different kind of mitigations or the customer just wants to get more information about the restore. Check the others TSGs now that you know more details about what is happening or what happened with the restore.

Public Doc Reference (optional)

[Restore a database in Azure SQL Managed Instance to a previous point in time](#)

How good have you found this content?

