# Check the memory usage for scanning

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# **Purpose**

For Scanning, we can check the memory usage of the **customer machine** from logs directly.

# To check the used memory percentage:

```
cluster("https://azuredmprod.kusto.windows.net").database("AzureDataMovement").
TraceGatewayLocalEventLog
| where UserReportId == "cab6ed66-eefb-4f09-8b80-80cfa1253ddd"
  where LocalMessage contains "eventId: ExecutionDataScanActivity" where LocalMessage contains "Used memory percentage is"
  project LocalMessage
```

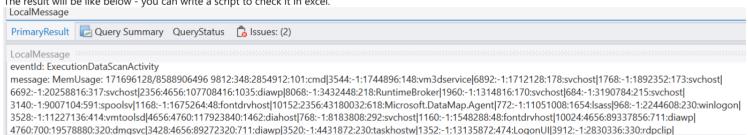
For miti: If the used memory percentage is too high like 98%-99%, which cannot guarantee the proper behavior of scanning.

For non-miti: If the used memory percentage is 70%, one of agent processes will try to quit. If the used memory percentage is 90%, executor will force kill one of agent processes. Both operations here are from code, which are trying to auto reduce memory.

# To check the memory usage for all processes:

```
cluster("https://azuredmprod.kusto.windows.net").database("AzureDataMovement").
TraceGatewayLocalEventLog
| where UserReportId == "cab6ed66-eefb-4f09-8b80-80cfa1253ddd"
  where LocalMessage contains "eventId: ExecutionDataScanActivity" where LocalMessage contains "MemUsage"
 project LocalMessage
```

The result will be like below - you can write a script to check it in excel.



## Example and the meaning for each number:

MemUsaqe: 171696128/8588906496 9812:348:2854912:101:cmd | | Available Memory | Total Memory | ProcessId | ParentId | memory | | ProcessName | |--|--|--|--|--|--| | MemUsage: |171696128 |8588906496| 9812| 348 | 2854912 | 101 |cmd |

### Some known processes:

diawp -> Executor process

Microsoft.DataMap.Agent -> Agent process

### Tips:

To check if a process is created for scanning: follow the processId->parentId pattern to find if it's related to our known processes.