# Metrics_Limitations

Last updated by | Vitor Tomaz | Feb 18, 2021 at 3:28 AM PST

---

**Contents**

## Issue

This TSG cover's the most commonly known limitation's with Portal Metric's

## Limitation 1: Customer is not able to see the performance metrics from the portal for a secondary database.

Many customer's reach out to us with the scenario wehre they are tyring to see perofrmance metrics such as CPU percentage/Data IO percentage/Log IO percentage on the portal overview page for a secondary database.

There are 2 possibilities here:

1: If the customer is running some read workload on the secondary, they should see these metric's as these mterics only represent user workload.
2: If the customer is running workload only on primary and not on secondary, but expects to see the metrics\usage due to geo-replcation.

In this case they will not see any values for CPU percentage/Data IO percentage/Log IO percentage. To check for CPU usage they should look for : **Instance_avg_cpu_percent** Currently we don't have the metrics for monitoring the instance level IO and the transaction log space usage of the database. Customer's can use custom scripts to get these metric's such as:

```
SELECT
db_name() AS DBName, FileID,
'AllocatedSizeinMB' = CAST(size/128.0 AS numeric(15,2)),
'SpaceUsedinMB' =  CAST(CAST((CAST(FILEPROPERTY(a.name, 'spaceused') AS int)/128.0) AS numeric(15,2)) AS nvarc
'SpaceUsedPercent' = CAST(((CAST(FILEPROPERTY(a.name, 'spaceused') AS int)/128.0)/(size/128.0)*100) AS numeric
CONVERT(decimal(12,2), ROUND((a.size - FILEPROPERTY(a.name, 'SpaceUsed'))/128.000,2)) AS [FreeSpaceinMB],
'Usage' = (CASE a.status & 0x40 WHEN 0X40 THEN 'LOG' ELSE 'DATA' END),
'MaxSizeinMB' = (CASE maxsize WHEN -1 THEN N'unlimited' ELSE CAST(CAST(maxsize AS bigint)*8/1024 AS nvarchar(1
'FileGrowthinMB' = (CASE status & 0X100000 WHEN 0X100000 THEN N'' ELSE CAST(CAST(growth AS bigint)*8/1024 AS n
'FileGrowthinPercent' = (CASE status & 0X100000 WHEN 0X100000 THEN CAST(growth AS nvarchar(15)) ELSE N'' END),
a.name AS LogicalName, filename, fg.name
FROM dbo.sysfiles a
LEFT JOIN sys.filegroups fg
ON a.groupid = fg.data_space_id
```

Column Definition Explanation:

'AllocatedSizeinMB': This means the log file size on the disk. If the free space in the log file has been exhausted, it can grow automatically based on the FileGrowthInMB(16MB each time) till the MaxSizeinMB 'SpaceUsedinMB' : This means how much space has been used in the existing log file. 'FreeSpaceinMB' : This means how much free space left in the existing log file. 'MaxSizeinMB' : The maximum size that the log file can grow to. ```

## Internal Links

- [204094688](#) ⬈

## Root Cause Classification

AzurePortal/User Request/How-to/advisory/Database

**How good have you found this content?**