

Disk space usage (Managed Instance)

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//*****
// Disk space usage
//*****
// D.01
// Latest App Disk Quota and usage reported by Rg
MonRgLoad
| where application_name contains "{AppName}"
| where event == "directory_quota_report_load"
| summarize arg_max(TIMESTAMP, *) by NodeName, application_name
| extend quota_limit_in_GB= quota_limit_in_bytes/1024/1024/1024,
quota_usage_in_GB=quota_usage_in_bytes/1024/1024/1024, peak_quota_usage_in_GB =
peak_quota_usage_in_bytes/1024/1024/1024
| project TIMESTAMP, NodeName, application_name, quota_limit_in_GB, quota_usage_in_GB,
peak_quota_usage_in_GB
// D.02
// Node disk usage by all Apps
// Noe:
// 1. for latest usage, arg_max on timestamp
// 2. for peak disk usage, arg_max on drive_usage_percentage
MonRgLoad
| where NodeName == "{NodeName}"
| where ClusterName contains "{ClusterName}"
| summarize arg_max(TIMESTAMP, drive_usage_percentage, drive_capacity_in_bytes ) by drive_name,
NodeName, ClusterName
//| summarize arg_max(drive_usage_percentage, drive_capacity_in_bytes, TIMESTAMP) by drive_name,
NodeName, ClusterName //peak usage
| extend drive_usage_percentage=round(drive_usage_percentage,0),
drive_capacity_in_GB=drive_capacity_in_bytes/1024/1024/1024
| project TIMESTAMP, ClusterName, NodeName, drive_name, drive_capacity_in_GB, drive_usage_percentage
// D.03
// cluster Node disk space usage
MonClusterLoad
| where PreciseTimeStamp > ago(2h)
| where ClusterName == '{ClusterName}' and node_name == '{NodeName}'
| where metric_name == 'InstanceDiskSpaceUsed'
| project PreciseTimeStamp, node_load = ['load'] / 1024, node_cap = ['capacity'] / 1024, node_name
| extend violation = iff(node_load > node_cap, 1, 0)

// D.04
// Data and Log File sizes by the Database. If Worker.DW app, use MonDwIoVirtualFileStats (as of T41
Worker.DW deployment)
let clPhysicalDbGuid = toscalar (
MonDmRealTimeResourceStats
| where AppTypeName == 'Worker.CL'
```

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| where LogicalServerName == '{LogicalServerName}' and database_name =~ '{LogicalDatabaseName}'
| summarize arg_max(TIMESTAMP, physical_database_guid)
| project physical_database_guid
);
let dbNameForVirtualFileStats = iif(isnotempty(cPhysicalDbGuid), cPhysicalDbGuid, '{LogicalDatabaseName}');
MonDmloVirtualFileStats
//| where PreciseTimeStamp > ago(4h)
| where LogicalServerName =~ "{LogicalServerName}" and db_name =~ cPhysicalDbGuid
//| where NodeName == '{NodeName}' and AppName == '{AppName}' and
| where (type_desc == 'ROWS' or type_desc == 'LOG')
| extend file = strcat(type_desc, ' ', file_id)
| where database_id > 4
| extend size_on_disk_GB= size_on_disk_bytes/1024.0/1024/1024, spaceused_GB = spaceused_mb / 1024.0,
max_size_GB = max_size_mb / 1024.0
//| project PreciseTimeStamp, LogicalServerName,db_name, file_id, type_desc, size_on_disk_GB, spaceused_GB,
max_size_GB
| summarize max(spaceused_GB), max(max_size_GB), max(size_on_disk_GB) by bin(TIMESTAMP, 1h), file
//| summarize arg_max(spaceused_GB, *) by file_id
| render timechart
```

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