OMi Management Pack for Microsoft SharePoint Server

Software Version: 1.01

For Operations Manager i for Windows® and Linux operating systems

Reference Guide

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Chapter 1: Introduction to OMi Management Pack for Microsoft SharePoint Server

The HPE OMi Management Pack for Microsoft SharePoint Server (OMi MP for Microsoft SharePoint Server) works with Operations Manager i (OMi) and enables you to monitor Microsoft SharePoint servers in your environments. It includes Event Type Indicators (ETIs), Health Indicators (HIs), and Key Performance Indicators (KPIs) that analyze the events that occur in the Microsoft SharePoint servers and report the health and performance status.

The Aspects can be deployed by administrators for monitoring the Microsoft SharePoint servers in an enterprise environment.

OMi MP for Microsoft SharePoint Server Collection and Metrics

This chapter provides information about the Microsoft SharePoint Server collections, metrics, and data store tables which can be used to configure the data-collection process. Each collection contains a number of metrics which are listed under the related collection.

Field	Description
Schedule Task policy	Schedule for the collection
Config File	Contains definition for schedule. Maps collection to schedule.
Aspect	Contains all the policies required for the collection.
CIT	Instance to which you can deploy Aspect
Data source / data class	Database where the data is logged
Source / Collection Def	Performance Counter / Object Logical Services / Service Name
Metric	Metric Label
Description	Metric Description
Metric Spec	CODA column
Metric Field	Metric that is monitored

Collection and Metrics

Collect_SharePoint_Process_OWSTIMER

This policy maintains the metric definition for collecting the SharePoint 2013 metrics.

Schedule Task Policy: MSPS_SCH_HIGH

ConfigFile Policy: MSPS_CollectionDefinition_2013

Aspect: NA

CIT:

Data source / Data class: SHAREPOINT / SP_PROCESS

Source / Collection Definition: PERFMON / Process(OWSTIMER)

Metric: OWSTIMERInstance

> **Description**:
>
> **Metric SpecName**: INSTANCENAME
>
> **Metric Field Name**: Instance_Name
>
> **Data type**: TEXT
>
> **Alarm**: FALSE

Metric: OWSTIMERPercentageProcTime

> **Description**: Monitors the percentage of processor elapsed time that all process threads use to run instructions. An instruction is the basic unit of execution in a computer, a thread is the object that executes instructions, and a process is the object created when a program is run. The code that is run to handle some hardware interrupts and trap conditions are included in this count.
>
> **Metric SpecName**: PCTPROCESSORTIME
>
> **Metric Field Name**: % Processor Time
>
> **Data type**: UINT32
>
> **Alarm**: FALSE

Metric: OWSTIMERWorkingSet

> **Description**: Working Set is the current size, in bytes, of the Working Set of this process. The Working Set is the set of memory pages touched recently by the threads in the process. If free memory in the computer is above a threshold, pages are left in the Working Set of a process even if they are not in use. When free memory is below a threshold, pages are trimmed from Working Sets. If required, they will then be soft-faulted back into the Working Set before leaving main memory.
>
> **Metric SpecName**: WORKINGSET
>
> **Metric Field Name**: Working Set
>
> **Data type**: UINT32
>
> **Alarm**: FALSE

Metric: OWSTIMERPageFaults

> **Description**: Page Faults per second is the average number of pages that do not work per second. Page Fault is measured in number of pages because only one page does not work in each fault operation. This is also equal to the number of page fault operations. This counter includes both hard faults (those that require disk access) and soft faults (where the faulted page is found in physical memory). Most processors can handle large numbers of soft faults without significant consequence. However, hard faults, which require disk access, can cause significant delays.
>
> **Metric SpecName**: PAGEFAULTS
>
> **Metric Field Name**: Page Faults/sec
>
> **Data type**: UINT32
>
> **Alarm**: FALSE

Metric: OWSTIMERPrivateBytes

> **Description**: Private Bytes is the current size, in bytes, that this process has allocated that cannot be shared with other processes.
>
> **Metric SpecName**: PRIVATEBYTES
>
> **Metric Field Name**: Private Bytes
>
> **Data type**: UINT32
>
> **Alarm**: FALSE

Metric: OWSTIMERThreadCount

> **Description**: The number of threads currently active in this process. An instruction is the basic unit of execution in a processor and a thread is the object that executes instructions. Every running process has at least one thread.
>
> **Metric SpecName**: THREADCOUNT
>
> **Metric Field Name**: Thread Count
>
> **Data type**: UINT32
>
> **Alarm**: FALSE

ChkESProvisioningAvgSiteProvisioningJobWaitTimeHigh

This policy maintains the metric definition for collecting SharePoint 2013 metrics

Schedule Task Policy: MSPS_SCH_LOW

ConfigFile Policy: MSPS_CollectionDefinition_2013

Aspect: NA

CIT:

Data source / Data class: SHAREPOINT / ESPAVGSITEPROJOB

Source / Collection Definition: PERFMON / Education Services: Timer Job Operations(*)

Metric: ESPAvgSiteProvisionJobWaitInstName

> **Description**: Name of the Service
>
> **Metric SpecName**: INSTANCE_NAME
>
> **Metric Field Name**: Instance_Name
>
> **Data type**: TEXT
>
> **Alarm**: FALSE

Metric: ESPAvgSiteProvisionJobWait

> **Description**: This metric captures the Job wait time of average site provisioning for Education Site Provisioning.
>
> **Metric SpecName**: ESPAvgSiteProJob
>
> **Metric Field Name**: Avg. Queue Wait Time Duration
>
> **Data type**: REAL64
>
> **Alarm**: FALSE

Collect_Search Host Controller

This policy maintains the metric definition for collecting the SharePoint 2013 metrics.

Schedule Task Policy: MSPS_SCH_HIGH

ConfigFile Policy: MSPS_CollectionDefinition_2013

Aspect: NA

CIT:

Data source / Data class: SHAREPOINT / SEARCHHOSTCTRL

Source / Collection Definition: PERFMON / Search Host Controller(*)

Metric: SharePointSearchHostControllerInstance

> **Description**:
>
> **Metric SpecName**: SEARCHHOSTCTRLINST
>
> **Metric Field Name**: Instance_Name
>
> **Data type**: TEXT
>
> **Alarm**: FALSE

Metric: SharePointSearchHostControllerCompUptime

> **Description**:
>
> **Metric SpecName**: COMPONENTUPTIME
>
> **Metric Field Name**: Component Uptime
>
> **Data type**: UINT32
>
> **Alarm**: FALSE

Metric: SearchHostControllerCompRestart

> **Description**:
>
> **Metric SpecName**: COMPRESTART
>
> **Metric Field Name**: Component Restarts
>
> **Data type**: UINT32
>
> **Alarm**: FALSE

ChkSharePointTimerServStat

This policy maintains the metric definition for collecting SharePoint 2013 metrics.

Schedule Task Policy: MSPS_SCH_VERY_HIGH

ConfigFile Policy: MSPS_CollectionDefinition_2013

Aspect: NA

CIT:

Data source / Data class: SHAREPOINT / SERVSTAT

Source / Collection Definition: SERVICECHECK / SPTimerV4

Metric: SharePointTimerServName

> **Description**: Name of the Service
>
> **Metric SpecName**: SERVNAME
>
> **Metric Field Name**: Service_Name
>
> **Data type**: TEXT
>
> **Alarm**: FALSE

Metric: SharePointTimerServDisplayName

> **Description**: Display Name of the Service
>
> **Metric SpecName**: SRVDISPNAME
>
> **Metric Field Name**: Service_Displayname
>
> **Data type**: TEXT
>
> **Alarm**: FALSE

Metric: SharePointTimerServStatus

> **Description**: Status of the Service
>
> **Metric SpecName**: SERVSTATUS
>
> **Metric Field Name**: Service_Status
>
> **Data type**: TEXT
>
> **Alarm**: FALSE

Metric: SharePointTimerServState

> **Description**: State of the Service
>
> **Metric SpecName**: SERVSTATE
>
> **Metric Field Name**: Service_State
>
> **Data type**: UINT32
>
> **Alarm**: TRUE
>
> **Severity / Threshold** : Major / 1
>
> **Policy**: MSPS_SharePointTimerServState
>
> **Message text**: The service <OPTION(ServiceName)> is in the state <OPTION(ServiceStatus)>
>
> **Instructional Text**:
>
> **Probable Cause(s)**:
>
> **Potential Impact**:
>
> **Suggested Action(s)**:

ChkShareSearchServStat

This policy maintains the metric definition for collecting SharePoint 2010 metrics.

Schedule Task Policy: MSPS_SCH_VERY_HIGH

ConfigFile Policy: MSPS_CollectionDefinition_2010

Aspect: NA

CIT:

Data source / Data class: SHAREPOINT / SERVSTAT

Source / Collection Definition: SERVICECHECK / SPSearch4

Metric: SharePointUserCodeHostServName

> **Description**: Name of the Service
>
> **Metric SpecName**: SERVNAME
>
> **Metric Field Name**: Service_Name
>
> **Data type**: TEXT
>
> **Alarm**: FALSE

Metric: SharePointUserCodeHostServDisplayName

> **Description**: Display Name of the Service
>
> **Metric SpecName**: SRVDISPNAME
>
> **Metric Field Name**: Service_Displayname
>
> **Data type**: TEXT
>
> **Alarm**: FALSE

Metric: SharePointUserCodeHostServStatus

> **Description**: Status of the Service
>
> **Metric SpecName**: SERVSTATUS
>
> **Metric Field Name**: Service_Status
>
> **Data type**: TEXT
>
> **Alarm**: FALSE

Metric: SharePointUserCodeHostServState

> **Description**: State of the Service
>
> **Metric SpecName**: SERVSTATE
>
> **Metric Field Name**: Service_State
>
> **Data type**: UINT32
>
> **Alarm**: TRUE
>
> **Severity / Threshold** : Major / 1
>
> **Policy**: MSPS_SharePointUserCodeHostServState
>
> **Message text**: The service <OPTION(ServiceName)> is in the state <OPTION(ServiceStatus)>
>
> **Instructional Text**:
>
> **Probable Cause(s)**:
>
> **Potential Impact**:
>
> **Suggested Action(s)**:

ChkEntManagedMetaDataServiceState

This policy maintains the metric definition for collecting SharePoint 2013 metrics.

Schedule Task Policy: MSPS_SCH_MEDIUM

ConfigFile Policy: MSPS_CollectionDefinition_2013

Aspect: NA

CIT:

Data source / Data class: SHAREPOINT / ENTMANAGEMETADATA

Source / Collection Definition: LOGICALSRVCHK / Managed Metadata Web Service

Metric: EntManagedMetaDataInstName

> **Description**: Name of the Service
>
> **Metric SpecName**: INSTANCE_NAME
>
> **Metric Field Name**: Instance_Name
>
> **Data type**: TEXT
>
> **Alarm**: FALSE

Metric: SharePointFarm

> **Description**: Name of the SharePoint Farm
>
> **Metric SpecName**: FARM
>
> **Metric Field Name**: Farm
>
> **Data type**: TEXT
>
> **Alarm**: FALSE

Metric: EntManagedMetaDataServiceState

Description: Shows the status of the service.

Metric SpecName: ENTMANGDMETADATAAVL

Metric Field Name: EntManagedMetaDataServiceState

Data type: UINT32

Alarm: TRUE

Severity / Threshold : Major / 1

Policy: MSPS_EntManagedMetaDataServiceState

Message text: The service <OPTION(ServiceName)> in SharePoint farm <OPTION(Farm)> is failing and is not online.

Instructional Text:

Probable Cause(s): This policy monitors availability of the managed metadata service. The managed metadata service provides access to a term store and the term sets that it contains or it provides content types from a content type syndication hub. An alert on this policy indicates that the Enterprise Managed Metadata Service is not accessible.

- Managed metadata Service if disabled or not started.
- Server running managed metadata service is offline.
- Application pool account do not have sufficient permissions on term store.

Potential Impact(s):

- Term management tool may display that term store is not available.
- You may not be able to choose the managed metadata terms or keywords.

Suggested Action(s):

1. Confirm services or servers are up and running.
2. Verify the application pool account permissions:
    a. Verify that the user account is a member of the Farm Administrators group.
    b. Click Manage service applications from path **Central Administration Home page -> Application Management -> Service Applications**
    c. On the Service Applications page, in the Type column, click the managed metadata service application, and then click **Permissions**.
    d. Check if application pool account that contains the managed metadata service has one

of the following permissions on term store:

- Read access to term store
- Read and restricted access to term store - Full access to term store.

ChkProjectServerQueueJobs

This policy maintains the metric definition for collecting SharePoint 2013 metrics.

Schedule Task Policy: MSPS_SCH_LOW

ConfigFile Policy: MSPS_CollectionDefinition_2013

Aspect: NA

CIT:

Data source / Data class: SHAREPOINT / PRJSERVQUEUEJOB

Source / Collection Definition: PERFMON / ProjectServer:Queue Jobs

Metric: PrjQueueJobsPercJobsFailedPerDayInstName

Description: Name of the Service

Metric SpecName: INSTANCE_NAME

Metric Field Name: Instance_Name

Data type: TEXT

Alarm: FALSE

Metric: PrjQueueJobsPercJobsFailedPerDay

Description: This metric represents that the percentage of jobs that failed in the queue has exceeded the acceptable threshold.

Metric SpecName: PrjQueJobPJFPD

Metric Field Name: % Jobs Failed / Day

Data type: REAL64

Alarm: FALSE

Metric: PrjQueueJobsPercJobsFailedPerHr

> **Description**: This metric represents that the percentage of jobs that failed in the queue has exceeded the acceptable threshold for the past hour.
>
> **Metric SpecName**: PrjQueJobPJFPHr
>
> **Metric Field Name**: % Jobs Failed / Hour
>
> **Data type**: REAL64
>
> **Alarm**: FALSE

Metric: PrjQueueJobsAvgWaitTimePerDay

> **Description**: This metric represents the average amount of time jobs are waiting in the queue.
>
> **Metric SpecName**: PrjQueJobAvgWTPD
>
> **Metric Field Name**: Average Wait Time / Day
>
> **Data type**: REAL64
>
> **Alarm**: FALSE

ChkSharePointAdminServStat

This policy maintains the metric definition for collecting SharePoint 2013 metrics.

Schedule Task Policy: MSPS_SCH_VERY_HIGH

ConfigFile Policy: MSPS_CollectionDefinition_2013

Aspect: NA

CIT:

Data source / Data class: SHAREPOINT / SERVSTAT

Source / Collection Definition: SERVICECHECK / SPAdminV4

Metric: SharePointAdminServName

> **Description**: Name of the Service
>
> **Metric SpecName**: SERVNAME
>
> **Metric Field Name**: Service_Name
>
> **Data type**: TEXT
>
> **Alarm**: FALSE

Metric: SharePointAdminServDisplayName

> **Description**: Shows the Display Name of the service.
>
> **Metric SpecName**: SRVDISPNAME
>
> **Metric Field Name**: Service_Displayname
>
> **Data type**: TEXT
>
> **Alarm**: FALSE

Metric: SharePointAdminServStatus

> **Description**: Status of the Service
>
> **Metric SpecName**: SERVSTATUS
>
> **Metric Field Name**: Service_Status
>
> **Data type**: TEXT
>
> **Alarm**: FALSE

Metric: SharePointAdminServState

> **Description**: State of the Service
>
> **Metric SpecName**: SERVSTATE
>
> **Metric Field Name**: Service_State
>
> **Data type**: UINT32
>
> **Alarm**: TRUE
>
> **Severity / Threshold** : Major / 1
>
> **Policy**: MSPS_SharePointAdminServState
>
> **Message text**: The service <OPTION(ServiceName)> is in the state <OPTION(ServiceStatus)>
>
> **Instructional Text**:
>
> **Probable Cause(s)**:
>
> **Potential Impact**:
>
> **Suggested Action(s)**:

Collect_SharePoint_Process_WSSTRACING

This policy maintains the metric definition for collecting SharePoint 2013 metrics.

Schedule Task Policy: MSPS_SCH_HIGH

ConfigFile Policy: MSPS_CollectionDefinition_2013

Aspect: NA

CIT:

Data source / Data class: SHAREPOINT / SP_PROCESS

Source / Collection Definition: PERFMON / Process(WSSTRACING)

Metric: SPWSSTRACINGInstance

> **Description**:
>
> **Metric SpecName**: INSTANCENAME
>
> **Metric Field Name**: Instance_Name
>
> **Data type**: TEXT
>
> **Alarm**: FALSE

Metric: SPWSSTRACINGPercentageProcTime

> **Description**: Processor Time is the percentage of elapsed time that all process threads use to execute instructions. An instruction is the basic unit of execution in a computer, a thread is the object that executes instructions, and a process is the object created when a program is run. Code executed to handle some hardware interrupts and trap conditions are included in this count.
>
> **Metric SpecName**: PCTPROCESSORTIME
>
> **Metric Field Name**: % Processor Time
>
> **Data type**: UINT32
>
> **Alarm**: FALSE

Metric: SPWSSTRACINGWorkingSet

> **Description**: Working Set is the current size, in bytes, of this process. The Working Set is the set of memory pages touched recently by the threads in the process. If free memory in the computer is above a threshold, pages are left in the Working Set of a process even if they are not in use. When free memory falls below a threshold, pages are trimmed from Working Sets. If they are needed they will then be soft-faulted back into the Working Set before leaving main memory.
>
> **Metric SpecName**: WORKINGSET
>
> **Metric Field Name**: Working Set
>
> **Data type**: UINT32
>
> **Alarm**: FALSE

Metric: SPWSSTRACINGPageFaults

> **Description**: Page Faults per second is the average number of pages faulted per second. Page Faults per second is measured in number of pages because only one page is faulted in each fault operation. So, this is also equal to the number of page fault operations. This counter includes both hard faults (those that require disk access) and soft faults (where the faulted page is found in the physical memory). Most processors can handle large numbers of soft faults without any consequences. However, hard faults, which require disk access, can cause significant delays.
>
> **Metric SpecName**: PAGEFAULTS
>
> **Metric Field Name**: Page Faults/sec
>
> **Data type**: UINT32
>
> **Alarm**: FALSE

Metric: SPWSSTRACINGPrivateBytes

> **Description**: Private Bytes is the current size (in bytes) of memory that this process has allocated which cannot be shared with other processes.
>
> **Metric SpecName**: PRIVATEBYTES
>
> **Metric Field Name**: Private Bytes
>
> **Data type**: UINT32
>
> **Alarm**: FALSE

Metric: SPWSSTRACINGThreadCount

> **Description**: The number of threads currently active in this process. An instruction is the basic unit of execution in a processor, and a thread is the object that executes instructions. Every running process has at least one thread.
>
> **Metric SpecName**: THREADCOUNT
>
> **Metric Field Name**: Thread Count
>
> **Data type**: UINT32
>
> **Alarm**: FALSE

Collect_IndexerCatalogsNumofDocuments

This policy maintains the metric definition for collecting SharePoint 2010 metrics.

Schedule Task Policy: MSPS_SCH_HIGH

ConfigFile Policy: MSPS_CollectionDefinition_2010

Aspect: NA

CIT:

Data source / Data class: SHAREPOINT / NA

Source / Collection Definition: PERFMON / SharePoint Foundation Search Indexer Plugin(*)

Metric: NA

> **Description**:
>
> **Metric SpecName**: IDXINSTANCENAME
>
> **Metric Field Name**:
>
> **Data type**: TEXT
>
> **Alarm**: FALSE

Metric: NA

> **Description**:
>
> **Metric SpecName**: INDXCTR
>
> **Metric Field Name**:
>
> **Data type**: UNIT32
>
> **Alarm**: TRUE
>
> **Severity / Threshold** : Major / 0
>
> **Policy**: MSPS_NA
>
> **Message text**:
>
> **Instructional Text**:
>
> **Probable Cause(s)**:
>
> **Potential Impact**:
>
> **Suggested Action(s)**:

ChkEnterpriseDiskBasedCache

This policy maintains the metric definition for collecting the SharePoint 2013 metrics.

Schedule Task Policy: MSPS_SCH_VERY_HIGH

ConfigFile Policy: MSPS_CollectionDefinition_2013

Aspect: NA

CIT:

Data source / Data class: SHAREPOINT / ENTDISKBASEDCACHE

Source / Collection Definition: PERFMON / SharePoint Disk-Based Cache(*)

Metric: ECMDiskBaseCacheCriInstName

> **Description**: Name of the Service
>
> **Metric SpecName**: INSTANCE_NAME
>
> **Metric Field Name**: Instance_Name
>
> **Data type**: TEXT
>
> **Alarm**: FALSE

Metric: ECMDiskBaseCacheBlob

Description: This metric represents that the Blob Cache fill ratio performance counter threshold has been exceeded.

Metric SpecName: ECMDiskBaseCacheBlob

Metric Field Name: Blob Cache fill ratio

Data type: UINT32

Alarm: TRUE

Severity / Threshold : Warning / 80, Critical / 90

Policy: MSPS_ECMDiskBaseCacheBlob

Message text: The current value of Enterprise Content Management Disk-Based Cache Capacity is <VALUE> which exceeds the threshold of <THRESHOLD> that is defined in the policy:

Instructional Text:

Probable Cause(s): Enterprise Content Management can streamline access, eliminate bottlenecks, optimize security, maintain integrity and minimize overhead. The Blob Cache fill ratio performance counter threshold has been exceeded. The composed size for the disk-based cache is lesser than the total size of frequently accessed files for a web application.

Potential Impact: Files of Disk based cache store canot be accessed.

Suggested Action(s):

1) Increase the size of the disk-based cache. For information about how to configure the Web.config file, see the https://technet.microsoft.com/en-us/library/cc770229 (v=office.14).aspx

2) Manually flush the disk-based cache by using Windows PowerShell. At the Windows PowerShell command prompt, type the following command:

```
Add-PSSnapin Microsoft.SharePoint.Powershell Write-Host \"Flush the Blob Cache for the application containing the specified site collection\" $site = Get-SPSite -Identity (URL) [System.Reflection.Assembly]::LoadWithPartialName (\"Microsoft.SharePoint.Publishing\") Write-Host \"Flushing...\" [Microsoft.SharePoint.Publishing.PublishingCache]::FlushBlobCache ($site.WebApplication) Write-Host \"Flushed Cache for:\" $site.
```

WebApplication URL is the URL in the event details.

Metric: ECMDiskBaseCacheComp

Description: This metric monitors collection of SharePoint Disk-Based Cache in which Total number of cache compactions. Enterprise Content Management can streamline access, eliminate bottlenecks, optimize security, maintain integrity and minimize overhead.

Metric SpecName: ECMDiskBaseCacheComp

Metric Field Name: Total number of cache compactions

Data type: UINT32

Alarm: TRUE

Severity / Threshold : Warning / 0

Policy: MSPS_ECMDiskBaseCacheComp

Message text: The current value of Enterprise Content Management Disk-Based Cache Compacting is <VALUE> which exceeds the threshold of <THRESHOLD> that is defined in the policy:

Instructional Text:

Probable Cause(s): The total number of cache compactions performance counter threshold has been exceeded. The configured size for the disk-based cache is smaller than the total size of frequently accessed files for the web application.

Potential Impact: Files of disk based cache store may not be accessed.

Suggested Action(s):

1. Increase the size of the disk-based cache. For information about how to configure the Web.config file, see the https://technet.microsoft.com/en-us/library/cc770229 (v=office.14).aspx
2. Flush the disk-based cache by using Windows PowerShell. At the Windows PowerShell command prompt, type the following command:

```
Add-PSSnapin Microsoft.SharePoint.Powershell Write-Host \"Flush the Blob
Cache for the application containing the specified site collection\" $site
= Get-SPSite -Identity (URL)
[System.Reflection.Assembly]::LoadWithPartialName
(\"Microsoft.SharePoint.Publishing\") Write-Host \"Flushing...\"
[Microsoft.SharePoint.Publishing.PublishingCache]::FlushBlobCache
($site.WebApplication) Write-Host \"Flushed Cache for:\"
$site.WebApplication (URL) is the URL in the event details.
```

Metric: ECMDiskBaseCacheFlsh

Description: This metric monitors collection of SharePoint Disk-Based Cache in which Blob cache flushes per second. Enterprise Content Management can streamline access, eliminate bottlenecks, optimize security, maintain integrity and minimize overhead.

Metric SpecName: ECMDiskBaseCacheFlsh

Metric Field Name: Blob cache flushes / second

Data type: UINT32

Alarm: TRUE

Severity / Threshold : Warning / 0

Policy: MSPS_ECMDiskBaseCacheFlsh

Message text: The current value of Enterprise Content Management Disk-Based Cache Flush is <VALUE> which exceeds the threshold of <THRESHOLD> that is defined in the policy:

Instructional Text:

Probable Cause(s): The Blob cache flushes / second performance counter threshold has been exceeded. The reason could be one of the following:

- The Blob cache flush did modification.
- The cached contents have become invalid.

Potential Impact: Files of Disk based cache store may not be accessed.

Suggested Action(s): Change the file types to be stored by the disk-based cache.

ChkDocConvLoadBalancerState

This policy maintains the metric definition for collecting SharePoint 2013 metrics.

Schedule Task Policy: MSPS_SCH_MEDIUM

ConfigFile Policy: MSPS_CollectionDefinition_2013

Aspect: NA

CIT:

Data source / Data class: SHAREPOINT / DOCCONVLOADBAL

Source / Collection Definition: LOGICALSRVCHK / Document Conversions Load Balancer Service

Metric: DocConvLoadBalancerInstName

> **Description**: Name of the Service
>
> **Metric SpecName**: INSTANCE_NAME
>
> **Metric Field Name**: Instance_Name
>
> **Data type**: TEXT
>
> **Alarm**: FALSE

Metric: SharePointFarm

> **Description**: Name of the SharePoint Farm
>
> **Metric SpecName**: FARM
>
> **Metric Field Name**: Farm
>
> **Data type**: TEXT
>
> **Alarm**: FALSE

Metric: DocConvLoadBalancerState

Description: This policy monitors availability of Document Conversion's Load Balancer service. The Document Conversions Load Balancer Service manages the availability of document converters.

Metric SpecName: DOCCONVLOADBALAVL

Metric Field Name: DocConvLoadBalancerState

Data type: UINT32

Alarm: TRUE

Severity / Threshold : Major / 1

Policy: MSPS_DocConvLoadBalancerState

Message text: The service <OPTION(ServiceName)> in SharePoint farm <OPTION(Farm)> is failing and is not online.

Instructional Text:

Probable Cause(s): The reason could be one of the following:

- The Document Conversions Load Balancer service is unavailable.
- The Document Conversion Load Balancer service is not online.
- Administrator unintentionally stopped the service.
- The server is out of memory

Potential Impact:

- Documents do not get converted
- Only one server seems to be converting documents.
- The Document Conversions Load Balancer service is not running.

Suggested Action(s):

1. In Central Admin, go to Manage Services on Server.
2. Locate document conversions launcher service.
3. Confirm appropriate Communication scheme and port number are selected.
4. Start the service if it is stopped.
5. Restart Document conversion launcher service.

ChkProfileSyncServiceState

This policy maintains the metric definition for collecting the SharePoint 2013 metrics.

Schedule Task Policy: MSPS_SCH_MEDIUM

ConfigFile Policy: MSPS_CollectionDefinition_2013

Aspect: NA

CIT:

Data source / Data class: SHAREPOINT / PROFSYNCSERVCNOTRUN

Source / Collection Definition: LOGICALSRVCHK / User Profile Synchronization Service

Metric: ProfileSynInstName

> **Description**: This is the key for metric.
>
> **Metric SpecName**: INSTANCE_NAME
>
> **Metric Field Name**: Instance_Name
>
> **Data type**: TEXT
>
> **Alarm**: FALSE

Metric: SharePointFarm

> **Description**: Name of the SharePoint Farm
>
> **Metric SpecName**: FARM
>
> **Metric Field Name**: Farm
>
> **Data type**: TEXT
>
> **Alarm**: FALSE

Metric: ProfSyncServiceState

Description: This policy monitors availability of User Profile Synchronization Service. The User Profile Synchronization service enables Microsoft SharePoint Server to synchronize profile information with the directory.

Metric SpecName: PSCervcNotRun

Metric Field Name: ProfSyncServiceState

Data type: TEXT

Alarm: TRUE

Severity / Threshold : Major / 1

Policy: MSPS_ProfSyncServiceState

Message text: The service <OPTION(ServiceName)> in SharePoint farm <OPTION(Farm)> is failing and is not online.

Instructional Text:

Probable Cause(s): The User Profile Synchronization service is unavailable. After a server restart, the Forefront Identity Manager Synchronization service tried to start before starting the SQL Server.

Potential Impact: User profile synchronization will not function if the service is not started.

Suggested Action(s): Start the service with the following steps:

1. Open the Command Prompt and execute following commands:

   ```
   net start FIMService

   net start FIMSynchronizationService
   ```

2. If service does not start, verify that the instance of SQL Server is running on the Farm database server and restart the services again as mentioned in step 1.
3. If service is still not started, check the Windows application log for additional errors.

ChkSharePointSearchHostCntrlServStat

This policy maintains the metric definition for collecting SharePoint 2013 metrics.

Schedule Task Policy: MSPS_SCH_VERY_HIGH

ConfigFile Policy: MSPS_CollectionDefinition_2013

Aspect: NA

CIT:

Data source / Data class: SHAREPOINT / SERVSTAT

Source / Collection Definition: SERVICECHECK / SPSearchHostController

Metric: SharePointSearchHostCntrlServName

> **Description**: Name of the Service
>
> **Metric SpecName**: SERVNAME
>
> **Metric Field Name**: Service_Name
>
> **Data type**: TEXT
>
> **Alarm**: FALSE

Metric: SharePointSearchHostCntrlServDisplayName

> **Description**: Display Name of the Service
>
> **Metric SpecName**: SRVDISPNAME
>
> **Metric Field Name**: Service_Displayname
>
> **Data type**: TEXT
>
> **Alarm**: FALSE

Metric: SharePointSearchHostCntrlServStatus

> **Description**: Status of the service.
>
> **Metric SpecName**: SERVSTATUS
>
> **Metric Field Name**: Service_Status
>
> **Data type**: TEXT
>
> **Alarm**: FALSE

Metric: SharePointSearchHostCntrlServState

> **Description**: State of the service.
>
> **Metric SpecName**: SERVSTATE
>
> **Metric Field Name**: Service_State
>
> **Data type**: UINT32
>
> **Alarm**: TRUE
>
> **Severity / Threshold** : Major / 1
>
> **Policy**: MSPS_SharePointSearchHostCntrlServState
>
> **Message text**: The service <OPTION(ServiceName)> is in the state <OPTION(ServiceStatus)>
>
> **Instructional Text**:
>
> **Probable Cause(s)**:
>
> **Potential Impact**:
>
> **Suggested Action(s)**:

ChkPerformancePointServiceState

This policy maintains the metric definition for collecting SharePoint 2013 metrics.

Schedule Task Policy: MSPS_SCH_MEDIUM

ConfigFile Policy: MSPS_CollectionDefinition_2013

Aspect: NA

CIT:

Data source / Data class: SHAREPOINT / PERFPOINTSRVDATA

Source / Collection Definition: LOGICALSRVCHK / PerformancePoint Service

Metric: PerformancePointServiceInstName

> **Description**: Name of the Service
>
> **Metric SpecName**: INSTANCE_NAME
>
> **Metric Field Name**: Instance_Name
>
> **Data type**: TEXT
>
> **Alarm**: FALSE

Metric: SharePointFarm

> **Description**: Name of the SharePoint Farm
>
> **Metric SpecName**: FARM
>
> **Metric Field Name**: Farm
>
> **Data type**: TEXT
>
> **Alarm**: FALSE

Metric: PerformancePointServiceState

Description: This metric monitors availability of the PerformancePoint Service. The PerformancePoint Services enables you to create Business Intelligence (BI) dashboards that provide insight into an organization's performance.

Metric SpecName: PERFORMANCEPOINTSERVSTAT

Metric Field Name: PerformancePointServiceState

Data type: UINT32

Alarm: TRUE

Severity / Threshold : Major / 1

Policy: MSPS_PerformancePointServiceState

Message text: The service <OPTION(ServiceName)> in SharePoint farm <OPTION(Farm)> is failing and is not online.

Instructional Text:

Probable Cause(s):

- The PerformancePoint Services may not be running.
- The application pool may not have been started.
- Password for the application pool service account may have been changed.
- There might be an internal service error.

Potential Impact:

- An error message may be shown to user stating that PerformancePoint Services is not available or could not be found.
- The application pool may appear as stopped in Internet Information Services (IIS) Manager.

Suggested Action(s):

1. Start the application pool.
    a. Connect to the application server from IIS manager.
    b. Go to the server node, expand it and then click on **Application Pools**.
    c. Make sure that the PerformancePoint Services application pool is started. If it is not started, select the application pool and right-click and click **Start**.

- If the application pool has started, then click on **Recycle** after right-clicking the name of the application.
- If the application pool still does not start then follow the next steps and then repeat the above steps.

2. Verify the application pool account.
   a. Verify that the user is a member of the Farm Administration group.
   b. Go to Central Administration Home page, click on **Application Management**.
   c. Go to the **Service Applications** section in the Applications Management page and click on **Manage Service Applications**.
   d. Select the name of the PerformancePoint Services service application and click **Properties** in the ribbon.
   e. Note down the name of the application pool from the Application Pool section on the Edit PerformancePoint Service Application page.
   f. Connect to the application server from the IIS manager. Go to the server node, expand it, and click **Application pools**.
   g. Right-click on the name of application pool you have noted down earlier and click on **Advanced Settings**.

      A dialog box Advanced Settings appears.
   h. Click on the ellipsis next to the **Identity account**, under the Process model.
   i. Click **Set** in the Application Pool Identity dialog box.

      The Set Credentials dialog box opens.
   j. Type the domain account name and password, confirm the password and then click **OK**.
   k. Click **OK** in the Application Pool Identity dialog box.
   l. Click **OK** in the Advanced Properties dialog box.

ChkSecureStoreServiceState

This policy maintains the metric definition for collecting SharePoint 2013 metrics.

Schedule Task Policy: MSPS_SCH_MEDIUM

ConfigFile Policy: MSPS_CollectionDefinition_2013

Aspect: NA

CIT:

Data source / Data class: SHAREPOINT / SECURESTORESRVDATA

Source / Collection Definition: LOGICALSRVCHK / Secure Store Service

Metric: SecureStoreServiceInstName

> **Description**: Name of the Service
>
> **Metric SpecName**: INSTANCE_NAME
>
> **Metric Field Name**: Instance_Name
>
> **Data type**: TEXT
>
> **Alarm**: FALSE

Metric: SharePointFarm

> **Description**: Name of the SharePoint Farm
>
> **Metric SpecName**: FARM
>
> **Metric Field Name**: Farm
>
> **Data type**: TEXT
>
> **Alarm**: FALSE

Metric: SecureStoreServiceState

Description: This metric monitors availability of Secure Store Service. Secure Store Service is a shared service responsible for storage and mapping of credentials such as account names and passwords.

Metric SpecName: SECURESTORESERVSTAT

Metric Field Name: SecureStoreServiceState

Data type: UINT32

Alarm: TRUE

Severity / Threshold : Major / 1

Policy: MSPS_SecureStoreServiceState

Message text: The service <OPTION(ServiceName)> in SharePoint farm <OPTION(Farm)> is failing and is not online.

Instructional Text:

Probable Cause(s): The Secure Store service application may not be accessible due to the following reasons.

- The application server is offline.
- Secure store service is not provisioned correctly

Potential Impact: The Secure Store service application is not accessible.

Suggested Action(s):

1. In central administration, click **Manage services on server** and check **Service is started** check box. If it is set to **Stop**, click **Start**.
2. In central administration, click **Application management -> Service applications -> Manage service applications -> Secure store**. Ensure at least one target application appears in the list.
3. Check properties of Secure store application name. Ensure correct authentication method id chosen for database connection and has read, write permissions.
    a. Select the secure store service application name in the Service Applications page, and then click **Properties** on the ribbon.
    b. From the Edit Properties dialog box, go to the **Database** section and make sure that the authentication method used is correct.
    c. From the Application Pool section, make sure that the application pool has sufficient permissions.

ChkExcelCalculationServiceState

This policy maintains the metric definition for collecting SharePoint 2013 metrics.

Schedule Task Policy: MSPS_SCH_MEDIUM

ConfigFile Policy: MSPS_CollectionDefinition_2013

Aspect: NA

CIT:

Data source / Data class: SHAREPOINT / EXCELCALCSRVDATA

Source / Collection Definition: LOGICALSRVCHK / Excel Calculation Services

Metric: ExcelCalculationServiceInstName

> **Description**: Name of the Service
>
> **Metric SpecName**: INSTANCE_NAME
>
> **Metric Field Name**: Instance_Name
>
> **Data type**: TEXT
>
> **Alarm**: FALSE

Metric: SharePointFarm

> **Description**: Name of the SharePoint Farm
>
> **Metric SpecName**: FARM
>
> **Metric Field Name**: Farm
>
> **Data type**: TEXT
>
> **Alarm**: FALSE

Metric: ExcelCalculationServiceState

Description: This policy monitors availability of Excel Calculation Service. The Excel Services Application server computer is required to load workbooks. Alert on this policy indicates that the Excel Calculation Service is unavailable.

Metric SpecName: EXCELCALCSERVSTAT

Metric Field Name: ExcelCalculationServiceState

Data type: UINT32

Alarm: TRUE

Severity / Threshold : Major / 1

Policy: MSPS_ExcelCalculationServiceState

Message text: The service <OPTION(ServiceName)> in SharePoint farm <OPTION(Farm)> is failing and is not online.

Instructional Text:

Probable Cause(s):

- The Excel Services Application server computer may not be running.
- The Excel Services Application may not be started on the Excel Services server.
- The proxy that the front-end Web server is using for Excel Services Application might not be the default member of the default proxy group.

Potential Impact: Excel application service is unable to load workbook.

Suggested Action(s):

1. Verify that the service application instance runs on the machine:
    a. Click Manage servers in this farm from **SharePoint Central Administration Web site--System Settings**.
    b. For each server that you want to run Excel Services Application, select the name of the server and start the Excel Calculation Services in the Action column.
2. Restart the Excel Services Application server.
3. Verify that the proxy for the service application is the default member for Excel Services Application:
    a. Click **SharePoint Central Administration Web site -> Quick Launch -> Application Management -> Service Applications -> Configure service application associations**.

b. On the Service Application Associations page, select the proxy group for your Web application in the Application Proxy Group column. The default name for the proxy group is **Default**.

c. In the Configure Service Application Associations dialog box, if the check box for the Excel Services Application proxy is not selected select it. If there is more than one Excel Services Application proxy and the word Default does not appear after the name of the proxy you want to use, select the check box, click **Set as default** and click **OK**.

Collect_Search_Content_Processing

This policy maintains the metric definition for collecting Sharepoint 2013 metrics.

Schedule Task Policy: MSPS_SCH_HIGH

ConfigFile Policy: MSPS_CollectionDefinition_2013

Aspect: NA

CIT:

Data source / Data class: SHAREPOINT / SEARCHCONTPROC

Source / Collection Definition: PERFMON / Search Content Processing(*)

Metric: SearchContentProcInstanceName

Description:

Metric SpecName: SERCNTPROCINST

Metric Field Name: Instance_Name

Data type: TEXT

Alarm: FALSE

Metric: SearchContentProcFlowInstanceWithEmptyQueues

> **Description**:
>
> **Metric SpecName**: FLWINSTWITHEMPTQ
>
> **Metric Field Name**: # Flow instances with empty queues
>
> **Data type**: UINT32
>
> **Alarm**: FALSE

Metric: SearchContentProcOperatorsAbortedDueto

> **Description**:
>
> **Metric SpecName**: OPRABORTDUETO
>
> **Metric Field Name**: # Operators Aborted Due To Timeouts
>
> **Data type**: UINT32
>
> **Alarm**: FALSE

Metric: SearchContentProcFlowInstanceAbortedDuetoFullQueues

> **Description**:
>
> **Metric SpecName**: FLWINSTABORTDUEFUQ
>
> **Metric Field Name**: # Flow Instances Aborted Due To Full Queues
>
> **Data type**: UINT32
>
> **Alarm**: FALSE

Metric: SearchContentProcFlowInstanceThatCannotbeStopped

> **Description**:
>
> **Metric SpecName**: FLWINSTCANTSTOP
>
> **Metric Field Name**: # Flow Instances That Cannot Be Stopped
>
> **Data type**: UINT32
>
> **Alarm**: FALSE

Metric: SearchContentProcFlowInstancesAborted

> **Description**:
>
> **Metric SpecName**: FLWINSTABORTED
>
> **Metric Field Name**: # Flow Instances Aborted
>
> **Data type**: UINT32
>
> **Alarm**: FALSE

Metric: SearchContentProcFlowInstancesFailed

> **Description**:
>
> **Metric SpecName**: FLWINSTFAILED
>
> **Metric Field Name**: # Flow Instances Failed
>
> **Data type**: UINT32
>
> **Alarm**: FALSE

Metric: SearchContentProcFlowInstancesCompleted

> **Description**:
>
> **Metric SpecName**: FLWINSTCOMPLETED
>
> **Metric Field Name**: # Flow Instances Completed
>
> **Data type**: UINT32
>
> **Alarm**: FALSE

Metric: SearchContentProcFlowInstanceActive

> **Description**:
>
> **Metric SpecName**: FLWINSTACTIVE
>
> **Metric Field Name**: # Flow Instances Active
>
> **Data type**: UINT32
>
> **Alarm**: FALSE

Metric: SearchContentProcFailedCallbacksPerSecond

> **Description**:
>
> **Metric SpecName**: FAILEDCBPERSEC
>
> **Metric Field Name**: # Failed Callbacks Per Second
>
> **Data type**: UINT32
>
> **Alarm**: FALSE

Metric: SearchContentProcFailedCallbacksTotal

> **Description**:
>
> **Metric SpecName**: FAILEDCBTOTAL
>
> **Metric Field Name**: # Failed Callbacks Total
>
> **Data type**: UINT32
>
> **Alarm**: FALSE

Metric: SearchContentProcCompletedCallbacksPerSecond

> **Description**:
>
> **Metric SpecName**: COMLPCALLBKPERSEC
>
> **Metric Field Name**: # Completed Callbacks Per Second
>
> **Data type**: UINT32
>
> **Alarm**: FALSE

Metric: SearchContentProcCompletedCallbacksTotal

> **Description**:
>
> **Metric SpecName**: COMPCALLBKBTOTAL
>
> **Metric Field Name**: # Completed Callbacks Total
>
> **Data type**: UINT32
>
> **Alarm**: FALSE

Metric: SearchContentProcCallbacksPerSecond

> **Description**:
>
> **Metric SpecName**: CALLBACKPERSEC
>
> **Metric Field Name**: # Callbacks Per Second
>
> **Data type**: UINT32
>
> **Alarm**: FALSE

Metric: SearchContentProcCallbacksTotal

> **Description**:
>
> **Metric SpecName**: CALLBACKTOTAL
>
> **Metric Field Name**: # Callbacks Total
>
> **Data type**: UINT32
>
> **Alarm**: FALSE

Metric: SearchContentProcCallbacksAvailable

> **Description**:
>
> **Metric SpecName**: CALLBACKAVA
>
> **Metric Field Name**: # Callbacks Available
>
> **Data type**: UINT32
>
> **Alarm**: FALSE

Collect_SPServerSearch

This policy maintains the metric definition for collecting SharePoint 2013 metrics.

Schedule Task Policy: MSPS_SCH_HIGH

ConfigFile Policy: MSPS_CollectionDefinition_2013

Aspect: NA

CIT:

Data source / Data class: SHAREPOINT / SPSERVERSEARCH

Source / Collection Definition: PERFMON / Search Gatherer - SharePointServerSearch(*)

Metric: SPFoundationServerSearchDocInstance

> **Description**:
>
> **Metric SpecName**: SPSINSTANCENAME
>
> **Metric Field Name**: Instance_Name
>
> **Data type**: TEXT
>
> **Alarm**: FALSE

Metric: SPFoundationServerSearchDocDelayed

> **Description**: The number of documents delayed due to site hit frequency rules.
>
> **Metric SpecName**: DOCDELAYED
>
> **Metric Field Name**: Documents Delayed
>
> **Data type**: UINT32
>
> **Alarm**: FALSE

ChkESDataAccessRequestDurationHigh

This policy maintains the metric definition for collecting SharePoint 2013 metrics.

Schedule Task Policy: MSPS_SCH_LOW

ConfigFile Policy: MSPS_CollectionDefinition_2013

Aspect: NA

CIT:

Data source / Data class: SHAREPOINT / ESDATAACSREQDURHIGH

Source / Collection Definition: PERFMON / Education Services: Data Access Layer(*)

Metric: ESDataAcsReqDurHighInstName

> **Description**: Name of the Service
>
> **Metric SpecName**: INSTANCE_NAME
>
> **Metric Field Name**: Instance_Name
>
> **Data type**: TEXT
>
> **Alarm**: FALSE

Metric: ESDataAcsReqDurHigh

> **Description**: This metric captures the duration of Data access request for Education Services.
>
> **Metric SpecName**: ESDataAcsReqDurHigh
>
> **Metric Field Name**: Avg. Read Request Duration
>
> **Data type**: REAL64
>
> **Alarm**: FALSE

ChkADSDataAccessLayer

This policy maintains the metric definition for collecting SharePoint 2013 metrics.

Schedule Task Policy: MSPS_SCH_HIGH

ConfigFile Policy: MSPS_CollectionDefinition_2013

Aspect: NA

CIT:

Data source / Data class: SHAREPOINT / ADSDATAACCESSLAYER

Source / Collection Definition: PERFMON / Access Services: Data Access Layer

Metric: ADSFailSqlConnReqstInstName

> **Description**: Name of the Service
>
> **Metric SpecName**: INSTANCE_NAME
>
> **Metric Field Name**: Instance_Name
>
> **Data type**: TEXT
>
> **Alarm**: FALSE

Metric: ADSFailSqlConnReqst

> **Description**: The metric represents that a trigger will be generated for a number of connections for Access Data Services SQL connection requests. The MSPS_ADSFailSqlConnReqst policy monitors collection of Access Services: Data Access Layer in which Avg. SQL Connection Retry Failures. Access Services is the service use to host the entire Access databases within SharePoint.
>
> **Metric SpecName**: ADSFailSqlConnReqst
>
> **Metric Field Name**: Avg. SQL Connection Retry Failures
>
> **Data type**: UINT32
>
> **Alarm**: TRUE
>
> **Severity / Threshold** : Warning / 1000
>
> **Policy**: MSPS_ADSFailSqlConnReqst
>
> **Message text**: The current value of Access Data Service Failed SQL Connection Request is <VALUE> which exceeds the threshold of <THRESHOLD> that is defined in the policy:
>
> **Instructional Text**:
>
> **Probable Cause(s)**: A trigger is generated for a number of connections for Access Data Services SQL Connections Requests. SQL Server database server is down, unavailable, or unreachable.
>
> **Potential Impact**: Access Data Service may not be able to get connected with SQL server database.
>
> **Suggested Action(s)**:
>
> - Check the network connectivity
> - Verify that the SQL Server database server is available and healthy.

Metric: ADSSqlConnRetries

Description: This metric represents that Access Data services have exceeded the expected number of retries when the services connect to the SQL Server databases. This MSPS_ ADSSqlConnRetries monitors collection of Access Services: Data Access Layer in which SQL Connection Retry Attempts.

Metric SpecName: ADSSqlConnRetries

Metric Field Name: SQL Connection Retry Attempts

Data type: UINT32

Alarm: TRUE

Severity / Threshold : Warning / 1000

Policy: MSPS_ADSSqlConnRetries

Message text: The current value of Access Data Service SQL Connection Retries is <VALUE> which exceeds the threshold of <THRESHOLD> that is defined in the policy:

Instructional Text:

Probable Cause(s): Access Services is the service use to host the entire Access databases within SharePoint. It indicates that Access Data services exceed the expected number of retries when the services connect to the SQL Server databases.

- There can be issues with the network.
- Unavailability of Application SQL databases.

Potential Impact: Access Data Service may not be able to connect with the SQL server database.

Suggested Action(s):

- Check the network connectivity
- Verify that the SQL Server database server is available and healthy.

Metric: ADSSqlRetrsMonitor

Description: This metric monitors collection of Access Services. Access Services is the service use to host the entire Access databases within SharePoint.

Metric SpecName: ADSSqlRetrsMonitor

Metric Field Name: Avg. SQL Connection Retry Attempts Per Connection Attempt

Data type: REAL64

Alarm: TRUE

Severity / Threshold : Warning / 2.99

Policy: MSPS_ADSSqlRetrsMonitor

Message text: The current value of Access Data Service SQL Connection Retries monitoring is <VALUE> which exceeds the threshold of <THRESHOLD> that is defined in the policy:

Instructional Text:

Probable Cause(s): It indicates that the average number of retries per connection attempt is greater for Access Data Services SQL Connections Retries. The SQL Server database server is down, unavailable or unreachable.

Potential Impact: Access Data Service may not be able to get connected with SQL server database.

Suggested Action(s):

- Check the network connectivity.
- Verify that the SQL Server database server is available and healthy.

Metric: ADSSqlWriteFailure

Description: This metric monitors collection of Access Services. Access Services is the service use to host the entire Access databases within SharePoint. It indicates that a trigger will be generated for a number of SQL write failures for Access Data Services.

Metric SpecName: ADSSqlWriteFailure

Metric Field Name: Avg. SQL Write Failures

Data type: UINT32

Alarm: TRUE

Severity / Threshold : Warning / 1000

Policy: MSPS_ADSSqlWriteFailure

Message text: The current value of Access Data Service SQL Write Failure is <VALUE> which exceeds the threshold of <THRESHOLD> that is defined in the policy:

Instructional Text:

Probable Cause(s): A trigger is generated for a number of SQL write failures for the Access Data Services. This issue has occurred due to failure in excessive number of SQL Write operations.

Potential Impact: A trigger is generated for excessive SQL write failures.

Suggested Action(s):

- Verify the network's health status.
- Verify status of SQL Azure service.
- Raise an event with SQL Azure for resolution.

Metric: ADSSqlWriteMonitor

Description: This policy monitors collection of Access Services. Access Services is the service use to host the entire Access databases within SharePoint.

Metric SpecName: ADSSqlWriteMonitor

Metric Field Name: Avg. SQL Write Failures

Data type: REAL64

Alarm: TRUE

Severity / Threshold : Warning / 0.1

Policy: MSPS_ADSSqlWriteMonitor

Message text: The current value of Access Data Service SQL Connection Write monitoring is <VALUE> which exceeds the threshold of <THRESHOLD> that is defined in the policy:

Instructional Text:

Probable Cause(s): The average number of write failures compared to total write attempts is greater for Access Data Services.

- Application SQL databases are not available or not reachable.
- Deadlock occurs on the server.
- Extra server load makes the database server passive.

Potential Impact: Access Data Service may not be able to write with SQL server database.

Suggested Action(s): Make sure that the database server is in the **Running** state and available. Make sure the database server is not overloaded and has no deadlocks.

Metric: ADSExcessiveFailedSQLConnMonitorInstName

Description: This is the key for metric

Metric SpecName: INSTANCE_NAME

Metric Field Name: Instance_Name

Data type: TEXT

Alarm: FALSE

Metric: ADSExcessiveFailedSQLConnMonitor

> **Description**: This metric indicates that the average failed attempts to connect to SQL Azure is too high.
>
> **Metric SpecName**: ADSExcFailSQLConMon
>
> **Metric Field Name**: Avg. SQL Connection Retry Attempts Per Connection Attempt
>
> **Data type**: REAL64
>
> **Alarm**: FALSE

ChkAccessDataServicesNoAvailableADSServers

This policy maintains the metric definition for collecting SharePoint 2013 metrics.

Schedule Task Policy: MSPS_SCH_MEDIUM

ConfigFile Policy: MSPS_CollectionDefinition_2013

Aspect: NA

CIT:

Data source / Data class: SHAREPOINT / ADSSERVERNOAVAIL

Source / Collection Definition: PERFMON / Access Services: WFE Proxy(*)

Metric: AccessDataServiceInstName

> **Description**: This is the key for metric.
>
> **Metric SpecName**: INSTANCE_NAME
>
> **Metric Field Name**: Instance_Name
>
> **Data type**: TEXT
>
> **Alarm**: FALSE

Metric: AccessDataServiceADSServerState

Description: This metric monitors availability of the ADS servers.

Metric SpecName: ADSServerNotAvail

Metric Field Name: Total Available ADS Servers

Data type: TEXT

Alarm: TRUE

Severity / Threshold : Major / 0.5, Warning / 2.5

Policy: MSPS_AccessDataServiceADSServerState

Message text: The current value of Access Data Services No Available ADS Servers is <VALUE> which is below the threshold of <THRESHOLD> that is defined in the policy:

Instructional Text:

Probable Cause(s): Alert on this policy indicates that there are no Access Data Service Servers or the available Access Data Service Servers cannot process the request.

- ADS Servers are overloaded by excessive memory consumption.
- There are some network problems.
- All Access Database Server instances fail or are down.

Potential Impact: ADS servers will not available to serve the request.

Suggested Action(s):

1. Verify at least one server in the farm have Access Database Services enabled on it.
2. Free some memory by restarting the Access Database Service instances.
3. Verify Access Database Service instances are configured correctly and available to use.

Collect_Sharepoint_Process_WSSADMIN

This policy maintains the metric definition for collecting SharePoint 2013 metrics.

Schedule Task Policy: MSPS_SCH_HIGH

ConfigFile Policy: MSPS_CollectionDefinition_2013

Aspect: NA

CIT:

Data source / Data class: SHAREPOINT / SP_PROCESS

Source / Collection Definition: PERFMON / Process(WSSADMIN)

Metric: SPWSSADMINInstance

> **Description**:
>
> **Metric SpecName**: INSTANCENAME
>
> **Metric Field Name**: Instance_Name
>
> **Data type**: TEXT
>
> **Alarm**: FALSE

Metric: SPWSSADMINPercentageProcTime

> **Description**: Percentage of processor time is the percentage of elapsed time that all process threads use the processor to execute instructions. An instruction is the basic unit of execution in a computer, a thread is the object that executes instructions, and a process is the object created when a program is run. Code executed to handle some hardware interrupts and trap conditions are included in this count.
>
> **Metric SpecName**: PCTPROCESSORTIME
>
> **Metric Field Name**: % Processor Time
>
> **Data type**: UINT32
>
> **Alarm**: FALSE

Metric: SPWSSADMINWorkingSet

> **Description**: Working Set is the current size (in bytes) for this process. The Working Set is the set of memory pages touched recently by the threads in the process. If free memory in the computer is above a threshold, pages are left in the Working Set of a process even if they are not in use. When free memory is below a threshold, pages are trimmed from Working Sets. If they are needed they will then be soft-faulted back into the Working Set before leaving the main memory.
>
> **Metric SpecName**: WORKINGSET
>
> **Metric Field Name**: Working Set
>
> **Data type**: UINT32
>
> **Alarm**: FALSE

Metric: SPWSSADMINPageFaults

> **Description**: Page Faults per second is the average number of pages faulted per second. It is measured in number of pages faulted per second because only one page is faulted in each fault operation, hence this is also equal to the number of page fault operations. This counter includes both hard faults (those that require disk access) and soft faults (where the faulted page is found elsewhere in physical memory). Most processors can handle large numbers of soft faults without significant consequence. However, hard faults, which require disk access, can cause significant delays.
>
> **Metric SpecName**: PAGEFAULTS
>
> **Metric Field Name**: Page Faults/sec
>
> **Data type**: UINT32
>
> **Alarm**: FALSE

Metric: SPWSSADMINPrivateBytes

> **Description**: Private Bytes is the current size (in bytes) of memory that this process has allocated that cannot be shared with other processes.
>
> **Metric SpecName**: PRIVATEBYTES
>
> **Metric Field Name**: Private Bytes
>
> **Data type**: UINT32
>
> **Alarm**: FALSE

Metric: SPWSSADMINThreadCount

> **Description**: The number of threads currently active in this process. An instruction is the basic unit of execution in a processor, and a thread is the object that executes instructions. Every running process has at least one thread.
>
> **Metric SpecName**: THREADCOUNT
>
> **Metric Field Name**: Thread Count
>
> **Data type**: UINT32
>
> **Alarm**: FALSE

Collect_Sharepoint_Process_MSSEARCH

This policy maintains the metric definition for collecting SharePoint 2013 metrics.

Schedule Task Policy: MSPS_SCH_HIGH

ConfigFile Policy: MSPS_CollectionDefinition_2013

Aspect: NA

CIT:

Data source / Data class: SHAREPOINT / SP_PROCESS

Source / Collection Definition: PERFMON / Process(MSSEARCH)

Metric: SPMSSEARCHInstance

> **Description**:
>
> **Metric SpecName**: INSTANCENAME
>
> **Metric Field Name**: Instance_Name
>
> **Data type**: TEXT
>
> **Alarm**: FALSE

Metric: SPMSSEARCHPercentageProcTime

> **Description**: % Processor Time is the percentage of elapsed time that all process threads use the processor to execute instructions. An instruction is the basic unit of execution in a computer, a thread is the object that executes instructions, and a process is the object created when a program is run. Code executed to handle some hardware interrupts and trap conditions are included in this count.
>
> **Metric SpecName**: PCTPROCESSORTIME
>
> **Metric Field Name**: % Processor Time
>
> **Data type**: UINT32
>
> **Alarm**: FALSE

Metric: SPMSSEARCHWorkingSet

> **Description**: Working Set is the current size (in bytes) for this process. The Working Set is a set of memory pages accessed by the threads in the process. If free memory in the computer is above a threshold, pages are retained in the Working Set of a process even if they are not in use. When free memory falls below a threshold, pages are removed from Working Sets. If pages are required, they are then soft-faulted back into the Working Set before leaving main memory.
>
> **Metric SpecName**: WORKINGSET
>
> **Metric Field Name**: Working Set
>
> **Data type**: UINT32
>
> **Alarm**: FALSE

Metric: SPMSSEARCHPageFaults

> **Description**: Page Faults/sec is the average number of pages faulted per second. It is measured in number of pages faulted per second because only one page is faulted in each fault operation, hence this is also equal to the number of page fault operations. This counter includes both hard faults (those that require disk access) and soft faults (where the faulted page is found elsewhere in physical memory.) Most processors can handle large numbers of soft faults without significant consequence. However, hard faults, which require disk access, can cause significant delays.
>
> **Metric SpecName**: PAGEFAULTS
>
> **Metric Field Name**: Page Faults/sec
>
> **Data type**: UINT32
>
> **Alarm**: FALSE

Metric: SPMSSEARCHPrivateBytes

> **Description**: Private Bytes is the current size, in bytes, of memory that this process has allocated that cannot be shared with other processes.
>
> **Metric SpecName**: PRIVATEBYTES
>
> **Metric Field Name**: Private Bytes
>
> **Data type**: UINT32
>
> **Alarm**: FALSE

Metric: SPMSSEARCHThreadCount

> **Description**: The number of threads currently active in this process. An instruction is the basic unit of execution in a processor, and a thread is the object that executes instructions. Every running process has at least one thread.
>
> **Metric SpecName**: THREADCOUNT
>
> **Metric Field Name**: Thread Count
>
> **Data type**: UINT32
>
> **Alarm**: FALSE

Collect_SharePoint_Process_SPWriter

This policy maintains the metric definition for collecting SharePoint 2013 metrics.

Schedule Task Policy: MSPS_SCH_HIGH

ConfigFile Policy: MSPS_CollectionDefinition_2013

Aspect: NA

CIT:

Data source / Data class: SHAREPOINT / SP_PROCESS

Source / Collection Definition: PERFMON / Process(SPWriter)

Metric: SPWriterInstance

> **Description**:
>
> **Metric SpecName**: INSTANCENAME
>
> **Metric Field Name**: Instance_Name
>
> **Data type**: TEXT
>
> **Alarm**: FALSE

Metric: SPWriterPercentageProcTime

> **Description**: % Processor Time is the percentage of elapsed time that all of process threads used the processor to execution instructions. An instruction is the basic unit of execution in a computer, a thread is the object that executes instructions, and a process is the object created when a program is run. Code executed to handle some hardware interrupts and trap conditions are included in this count.
>
> **Metric SpecName**: PCTPROCESSORTIME
>
> **Metric Field Name**: % Processor Time
>
> **Data type**: UINT32
>
> **Alarm**: FALSE

Metric: SPWriterWorkingSet

> **Description**: Working Set is the current size(in bytes) of the Working Set of this process. The Working Set is the set of memory pages touched recently by the threads in the process. If free memory in the computer is above a threshold, pages are retained in the Working Set of a process even if they are not in use. When free memory is below a threshold, pages are removed from Working Sets. If they are needed, they will then be soft-faulted back into the Working Set before exiting main memory.
>
> **Metric SpecName**: WORKINGSET
>
> **Metric Field Name**: Working Set
>
> **Data type**: UINT32
>
> **Alarm**: FALSE

Metric: SPWriterPageFaults

> **Description**: Page Faults/sec is the average number of pages faulted per second. It is measured in number of pages faulted per second because only one page is faulted in each fault operation, hence this is also equal to the number of page fault operations. This counter includes both hard faults (those that require disk access) and soft faults (where the faulted page is found elsewhere in physical memory). Most processors can handle large numbers of soft faults without significant consequence. However, hard faults, which require disk access, can cause significant delays.
>
> **Metric SpecName**: PAGEFAULTS
>
> **Metric Field Name**: Page Faults/sec
>
> **Data type**: UINT32
>
> **Alarm**: FALSE

Metric: SPWriterPrivateBytes

> **Description**: Private Bytes is the current size, in bytes, of memory that this process has allocated that cannot be shared with other processes.
>
> **Metric SpecName**: PRIVATEBYTES
>
> **Metric Field Name**: Private Bytes
>
> **Data type**: UINT32
>
> **Alarm**: FALSE

Metric: SPWriterThreadCount

> **Description**: The number of threads currently active in this process. An instruction is the basic unit of execution in a processor, and a thread is the object that executes instructions. Every running process has at least one thread.
>
> **Metric SpecName**: THREADCOUNT
>
> **Metric Field Name**: Thread Count
>
> **Data type**: UINT32
>
> **Alarm**: FALSE

ChkTranslationServiceState

This policy maintains the metric definition for collecting SharePoint 2013 metrics.

Schedule Task Policy: MSPS_SCH_MEDIUM

ConfigFile Policy: MSPS_CollectionDefinition_2013

Aspect: NA

CIT:

Data source / Data class: SHAREPOINT / TRANSLATIONSRVDATA

Source / Collection Definition: LOGICALSRVCHK / Machine Translation Service

Metric: TranslationServiceInstName

> **Description**: Name of the Service
>
> **Metric SpecName**: INSTANCE_NAME
>
> **Metric Field Name**: Instance_Name
>
> **Data type**: TEXT
>
> **Alarm**: FALSE

Metric: SharePointFarm

> **Description**: Name of the SharePoint Farm
>
> **Metric SpecName**: FARM
>
> **Metric Field Name**: Farm
>
> **Data type**: TEXT
>
> **Alarm**: FALSE

Metric: TranslationServiceState

Description: This metric monitors availability of Machine Translation service. On a SharePoint site that uses variations, site owners can choose to export a file and have it translated by a person (human translation) or they can choose to have it be translated automatically (machine translation).

Metric SpecName: TRANSLATIONSERVSTAT

Metric Field Name: TranslationServiceState

Data type: UINT32

Alarm: TRUE

Severity / Threshold : Major / 1

Policy: MSPS_TranslationServiceState

Message text: The service <OPTION(ServiceName)> in SharePoint farm <OPTION(Farm)> is failing and is not online.

Instructional Text:

Probable Cause(s): The SharePoint application server may not be accessible. The SharePoint application server may be unresponsive due to issues in the network.

Potential Impact: No new job can be submitted.

Suggested Action(s):

1. In Windows event viewer, check for event ID 8049. Check the server that is failing.
2. On the server that is failing, access the SharePoint Central Administration. If the SharePoint Central Administration does not open, check the network settings and confirm server has appropriate permissions to connect to the SharePoint farm.
3. Check if the Machine Translation Service is running from the Central Administration website.
4. Go to **System Settings**, click on **Manage servers from this farm**.
5. Click on the name of the server that is failing in the **Server** column.
6. In the Services on the Server page, locate Machine Translation service, click **Stop** and then click **Start** or create a new Machine Translation Service application, from the Central Administration website.
7. Go to Application Management section, click on the **Manage service applications**.

8. Go to **Type** column and click on the name of the Visio services application Machine Translation Service application that has the failing service instance. Then click on delete. Click **OK** in the Delete Service Application dialog box, then create a new Machine Translation Service application.

Collect_Search_Analysis_EngineI

This policy maintains the metric definition for collecting SharePoint 2013 metrics.

Schedule Task Policy: MSPS_SCH_HIGH

ConfigFile Policy: MSPS_CollectionDefinition_2013

Aspect: NA

CIT:

Data source / Data class: SHAREPOINT / SEARCHANALYSIS

Source / Collection Definition: PERFMON / Search Analysis Engine(*)

Metric: SearchAnalysisEngineInstance

Description:

Metric SpecName: SERANENGINSTANCE

Metric Field Name: Instance_name

Data type: TEXT

Alarm: FALSE

Metric: SearchAnalysisEngineUptimeInDays

Description:

Metric SpecName: UPTIMEDAYS

Metric Field Name: Uptime In Days

Data type: UINT32

Alarm: FALSE

Metric: SearchAnalysisEngineFileDeletes

> **Description**:
>
> **Metric SpecName**: FILEDELETES
>
> **Metric Field Name**: File Deletes
>
> **Data type**: UINT32
>
> **Alarm**: FALSE

Metric: SearchAnalysisEngineFailedTasks

> **Description**:
>
> **Metric SpecName**: SAFAILEDTASKS
>
> **Metric Field Name**: Failed Tasks
>
> **Data type**: UINT32
>
> **Alarm**: FALSE

Metric: SearchAnalysisEngineUptimeinSeconds

> **Description**:
>
> **Metric SpecName**: UPTIMETSEC
>
> **Metric Field Name**: Uptime In Seconds
>
> **Data type**: UINT32
>
> **Alarm**: FALSE

Metric: SearchAnalysisEngineActiveComponents

> **Description**:
>
> **Metric SpecName**: ACTANPROCCOMP
>
> **Metric Field Name**: Active Analytics Processing Components
>
> **Data type**: UINT32
>
> **Alarm**: FALSE

Metric: SearchAnalysisEngineRunningAnalyses

> **Description**:
>
> **Metric SpecName**: RUNANALYSES
>
> **Metric Field Name**: Running Analyses
>
> **Data type**: UINT32
>
> **Alarm**: FALSE

Metric: SearchAnalysisEngineTaskFillFactor

> **Description**:
>
> **Metric SpecName**: TASKFILLFACTOR
>
> **Metric Field Name**: Task Fill Factor
>
> **Data type**: UINT32
>
> **Alarm**: FALSE

Metric: SearchAnalysisEngineRunningTasks

> **Description**:
>
> **Metric SpecName**: SARUNNINGTASKS
>
> **Metric Field Name**: Running Tasks
>
> **Data type**: UINT32
>
> **Alarm**: FALSE

Metric: SearchAnalysisEngineEventQueueLength

> **Description**:
>
> **Metric SpecName**: EVENTQUELEN
>
> **Metric Field Name**: Event Queue Length
>
> **Data type**: UINT32
>
> **Alarm**: FALSE

ChkProfileSyncConfigServiceState

This policy maintains the metric definition for collecting SharePoint 2013 metrics.

Schedule Task Policy: MSPS_SCH_MEDIUM

ConfigFile Policy: MSPS_CollectionDefinition_2013

Aspect: NA

CIT:

Data source / Data class: SHAREPOINT / PSCONFSERVCNOTRUN

Source / Collection Definition: SERVICECHECK / Forefront Identity Manager Service

Metric: ProfileSyncConfInstName

> **Description**: This is the key for metric.
>
> **Metric SpecName**: INSTANCE_NAME
>
> **Metric Field Name**: Instance_Name
>
> **Data type**: TEXT
>
> **Alarm**: FALSE

Metric: ProfSyncConfServiceState

Description: This metric monitors the availability of User Profile Synchronization Configuration Service. The Forefront Identity Manager Configuration Service enables Microsoft SharePoint Server to synchronize profile information with the directory.

Metric SpecName: PSCServcNotRun

Metric Field Name: ProfSyncConfServiceState

Data type: TEXT

Alarm: TRUE

Severity / Threshold : Major / 1

Policy: MSPS_ProfSyncConfServiceState

Message text: The service <OPTION(ServiceName)> in SharePoint farm <OPTION(Farm)> is failing and is not online.

Instructional Text:

Probable Cause(s): After a server restart, the Forefront Identity Manager Synchronization service tried to start prior to starting the SQL Server.

Potential Impact: User profile configuration will not function if the service is not started.

Suggested Action(s): Start the service with following steps:

1. Open a Command Prompt window and execute following commands:

   ```
   net start FIMService

   net start FIMSynchronizationService
   ```

2. If service is still not started, verify that the instance of SQL Server is running on the farm database server and restart the services again as mentioned in step 1.
3. If service is still not started, check the Windows application log for additional errors.

ChkSharePointSearchServStat

This policy maintains the metric definition for collecting SharePoint 2013 metrics.

Schedule Task Policy: MSPS_SCH_VERY_HIGH

ConfigFile Policy: MSPS_CollectionDefinition_2013

Aspect: NA

CIT:

Data source / Data class: SHAREPOINT / SERVSTAT

Source / Collection Definition: SERVICECHECK / OSearch14

Metric: SharePointServerSearchServName

> **Description**: Name of the Service
>
> **Metric SpecName**: SERVNAME
>
> **Metric Field Name**: Service_Name
>
> **Data type**: TEXT
>
> **Alarm**: FALSE

Metric: SharePointServerSearchServDisplayName

> **Description**: Display Name of the Service
>
> **Metric SpecName**: SRVDISPNAME
>
> **Metric Field Name**: Service_Displayname
>
> **Data type**: TEXT
>
> **Alarm**: FALSE

Metric: SharePointServerSearchServStatus

> **Description**: Status of the Service
>
> **Metric SpecName**: SERVSTATUS
>
> **Metric Field Name**: Service_Status
>
> **Data type**: TEXT
>
> **Alarm**: FALSE

Metric: SharePointServerSearchServState

> **Description**: State of the Service
>
> **Metric SpecName**: SERVSTATE
>
> **Metric Field Name**: Service_State
>
> **Data type**: UINT32
>
> **Alarm**: TRUE
>
> **Severity / Threshold** : Major / 1
>
> **Policy**: MSPS_SharePointServerSearchServState
>
> **Message text**: The service <OPTION(ServiceName)> is in the state <OPTION(ServiceStatus)>
>
> **Instructional Text**:
>
> **Probable Cause(s)**:
>
> **Potential Impact**:
>
> **Suggested Action(s)**:

Collect_SharePoint_Process_w3wp

This policy maintains the metric definition for collecting SharePoint 2013 metrics.

Schedule Task Policy: MSPS_SCH_HIGH

ConfigFile Policy: MSPS_CollectionDefinition_2013

Aspect: NA

CIT:

Data source / Data class: SHAREPOINT / SP_PROCESS

Source / Collection Definition: PERFMON / Process(w3wp)

Metric: W3WPInstance

> **Description**:
>
> **Metric SpecName**: INSTANCENAME
>
> **Metric Field Name**: Instance_Name
>
> **Data type**: TEXT
>
> **Alarm**: FALSE

Metric: W3WPPercentageProcTime

> **Description**: % Processor Time is the percentage of elapsed time that all of process threads used by the processor to execute instructions. An instruction is the basic unit of execution in a computer, a thread is the object that executes instructions, and a process is the object created when a program is run. Code executed to handle some hardware interrupts and trap conditions are included in this count.
>
> **Metric SpecName**: PCTPROCESSORTIME
>
> **Metric Field Name**: % Processor Time
>
> **Data type**: UINT32
>
> **Alarm**: FALSE

Metric: W3WPWorkingSet

> **Description**: Working Set is the current size (in bytes) of this process. The Working Set is the set of memory pages accessed recently by the threads in the process. If free memory in the computer is above a threshold, pages are retained in the Working Set of a process even if they are not in use. When free memory falls below a threshold, pages are trimmed from Working Sets. If they are needed they will be soft-faulted back into the Working Set before leaving main memory.
>
> **Metric SpecName**: WORKINGSET
>
> **Metric Field Name**: Working Set
>
> **Data type**: UINT32
>
> **Alarm**: FALSE

Metric: W3WPPageFaults

> **Description**: Page Faults/sec is the average number of pages faulted per second. It is measured in number of pages faulted per second because only one page is faulted in each fault operation, hence this is also equal to the number of page fault operations. This counter includes both hard faults (those that require disk access) and soft faults (where the faulted page is found elsewhere in physical memory). Most processors can handle large numbers of soft faults without significant consequence. However, hard faults, which require disk access, can cause significant delays.
>
> **Metric SpecName**: PAGEFAULTS
>
> **Metric Field Name**: Page Faults/sec
>
> **Data type**: UINT32
>
> **Alarm**: FALSE

Metric: W3WPPrivateBytes

> **Description**: Private Bytes is the current size, in bytes, that this process has allocated and that cannot be shared with other processes.
>
> **Metric SpecName**: PRIVATEBYTES
>
> **Metric Field Name**: Private Bytes
>
> **Data type**: UINT32
>
> **Alarm**: FALSE

Metric: W3WPThreadCount

> **Description**: The number of threads currently active in this process. An instruction is the basic unit of execution in a processor and a thread is the object that executes instructions. Every running process has at least one thread.
>
> **Metric SpecName**: THREADCOUNT
>
> **Metric Field Name**: Thread Count
>
> **Data type**: UINT32
>
> **Alarm**: FALSE

ChkESProvisioningAvgSiteProvisioningJobDurationHigh

This policy maintains the metric definition for collecting SharePoint 2013 metrics.

Schedule Task Policy: MSPS_SCH_LOW

ConfigFile Policy: MSPS_CollectionDefinition_2013

Aspect: NA

CIT:

Data source / Data class: SHAREPOINT / ESPAVGSITEPROVISION

Source / Collection Definition: PERFMON / Education Services: Sites(*)

Metric: ESPAvgSiteProvisionInstName

> **Description**: Name of the Service
>
> **Metric SpecName**: INSTANCE_NAME
>
> **Metric Field Name**: Instance_Name
>
> **Data type**: TEXT
>
> **Alarm**: FALSE

Metric: ESPAvgSiteProvision

> **Description**: This metric captures the job duration of average site provisioning for Education Site Provisioning.
>
> **Metric SpecName**: ESPAvgSiteProvision
>
> **Metric Field Name**: Avg. Site Provisioning Duration
>
> **Data type**: REAL64
>
> **Alarm**: FALSE

ChkProjectServerQueueGeneral

This policy maintains the metric definition for collecting SharePoint 2013 metrics.

Schedule Task Policy: MSPS_SCH_LOW

ConfigFile Policy: MSPS_CollectionDefinition_2013

Aspect: NA

CIT:

Data source / Data class: SHAREPOINT / PRJSERVQUEGENERAL

Source / Collection Definition: PERFMON / ProjectServer:QueueGeneral

Metric: PrjQueueGeneralPerSQLRetriesPerDayInstName

> **Description**: Name of the Service
>
> **Metric SpecName**: INSTANCE_NAME
>
> **Metric Field Name**: Instance_Name
>
> **Data type**: TEXT
>
> **Alarm**: FALSE

Metric: PrjQueueGeneralPerSQLRetriesPerDay

> **Description**: This metric represents the percentage of SQL retries has exceeded the acceptable threshold for the past hour.
>
> **Metric SpecName**: PrjQueGPSQLRePD
>
> **Metric Field Name**: % Sql Retries / Day
>
> **Data type**: REAL64
>
> **Alarm**: FALSE

Metric: PrjQueGeneralPercSQLRetriesPerHr

> **Description**: This metric represents the acceptable threshold for the percentage of SQL retries.
>
> **Metric SpecName**: PrjQueGPSQLRePHr
>
> **Metric Field Name**: % Sql Retries / Day
>
> **Data type**: REAL64
>
> **Alarm**: FALSE

ChkDocConversionLaunchState

This policy maintains the metric definition for collecting SharePoint 2013 metrics.

Schedule Task Policy: MSPS_SCH_MEDIUM

ConfigFile Policy: MSPS_CollectionDefinition_2013

Aspect: NA

CIT:

Data source / Data class: SHAREPOINT / DOCCONVERLAUNCH

Source / Collection Definition: LOGICALSRVCHK / Document Conversions Launcher Service

Metric: DocConvLauncherInstName

> **Description**: Name of the Service
>
> **Metric SpecName**: INSTANCE_NAME
>
> **Metric Field Name**: Instance_Name
>
> **Data type**: TEXT
>
> **Alarm**: FALSE

Metric: SharePointFarm

> **Description**: Name of the SharePoint Farm
>
> **Metric SpecName**: FARM
>
> **Metric Field Name**: Farm
>
> **Data type**: TEXT
>
> **Alarm**: FALSE

Metric: DocConvLauncherState

Description: This metric monitors availability of Document Conversion Launcher Service. The Document Conversion Launcher Service starts document conversions on an application server.

Metric SpecName: DOCCONVLAUNCHAVL

Metric Field Name: DocConvLauncherState

Data type: UINT32

Alarm: TRUE

Severity / Threshold : Major / 1

Policy: MSPS_DocConvLauncherState

Message text: The service <OPTION(ServiceName)> in SharePoint farm <OPTION(Farm)> is failing and is not online.

Instructional Text:

Probable Cause(s): Alert on this policy indicates that the Document Conversion Launcher Service is unavailable.

- Service is not online.
- Administrator unintentionally stopped the service.
- Server is out of memory.

Potential Impact: 1. Documents do not get converted. 2. The Document Conversions Launcher Service is not running.

Suggested Action(s):

1. In Central Admin, go to Manage Services on Server.
2. Locate Document Conversions Launcher Service.
3. Confirm if the appropriate communication scheme and port number are selected.
4. Start the service if it is stopped.

Collect_SPFoundationSearch

This policy maintains the metric definition for collecting SharePoint 2013 metrics.

Schedule Task Policy: MSPS_SCH_HIGH

ConfigFile Policy: MSPS_CollectionDefinition_2013

Aspect: NA

CIT:

Data source / Data class: SHAREPOINT / SPFOUNDATIONSEARCH

Source / Collection Definition: PERFMON / Sharepoint Foundation Search Gatherer(*)

Metric: SPFoundationSearchInstance

> **Description**:
>
> **Metric SpecName**: SPFINSTANCENAME
>
> **Metric Field Name**: Instance_Name
>
> **Data type**: TEXT
>
> **Alarm**: FALSE

Metric: SPFoundationSearchHeartbeats

> **Description**: The total number of heartbeats counted since startup. A heartbeat occurs once every 10 seconds while the service is running. If the service is not running there will be no heartbeat and the number of ticks will not be incremented.
>
> **Metric SpecName**: HEARTBEAT
>
> **Metric Field Name**: Heartbeats
>
> **Data type**: UINT32
>
> **Alarm**: TRUE
>
> **Severity / Threshold** : Major / -1
>
> **Policy**: MSPS_SPFoundationSearchHeartbeats
>
> **Message text**: SharePoint Foundation Search service is unresponsive since monitoring of heart beats `perfmon` counter indicates decreasing value or unchanging value
>
> **Instructional Text**:
>
> **Probable Cause(s)**: This counter displays the number of heartbeats that have occurred since the SharePoint services were started. By default, a heartbeat occurs every ten seconds. If you see that the heartbeats are not increasing, the SharePoint services have either stopped or are unresponsive. By default, a heartbeat occurs every ten seconds.
>
> **Potential Impact**: SharePoint services may not be running properly, hence problem might exist in accessing portal
>
> **Suggested Action(s)**:

Metric: SPFoundationSearchHeartbeats

> **Description**: The total number of heartbeats counted since startup. A heartbeat occurs once every 10 seconds while the service is running. If the service is not running there will be no heartbeat and the number of ticks will not be incremented.
>
> **Metric SpecName**: ACTQUEUELENGTH
>
> **Metric Field Name**: Heartbeats
>
> **Data type**: UINT32
>
> **Alarm**: TRUE
>
> **Severity / Threshold** : Major / 0, Major / 0
>
> **Policy**: MSPS_SPFoundationSearchHeartbeats
>
> **Message text**: Normally Value for this counter , should be zero, but a non zero value means that SharePoint is having problems accessing the Web storage system.
>
> **Instructional Text**:
>
> **Probable Cause(s)**: This counter displays a value. Normally, the value should be zero. A non zero value means that SharePoint is having problems accessing the Web storage system. The failed access attempts retries till it succeeds. Therefore, if the Documents Delayed Retry value momentarily is above zero and then reduces, it means that the system was busy at the time of the original request but is able to process the request. However, if the number attempts steadily rise, it indicates there is a web storage system failure.
>
> **Potential Impact**: Web storage system failure
>
> **Suggested Action(s)**:

Metric: SPFoundationSearchHeartbeats

Description: The total number of heartbeats counted since startup. A heartbeat occurs once every 10 seconds while the service is running. If the service is not running there will be no heartbeat and the number of ticks will not be incremented.

Metric SpecName: DOCDELAYED

Metric Field Name: Heartbeats

Data type: UINT32

Alarm: TRUE

Severity / Threshold : Major / 0, Major / 0

Policy: MSPS_SPFoundationSearchHeartbeats

Message text: Normally Value for this counter , should be zero, but a non zero value means that SharePoint is having problems accessing the Web storage system.

Instructional Text:

Probable Cause(s): This counter displays a value. Normally, the value should be zero. A non zero value means that SharePoint is having problems accessing the Web storage system. These failed access attempts will keep retrying until successful. Therefore, if the Documents Delayed Retry value momentarily goes above zero and then reduces, it means that the system was busy at the time of the original request, but later was able to process the request. If however, the number of attempts steadily rise, then it indicates that there is a Web storage system failure.

Potential Impact: Web storage system failure

Suggested Action(s):

Collect_Search_Analytics_proc_component

This policy maintains the metric definition for collecting SharePoint 2013 metrics.

Schedule Task Policy: MSPS_SCH_HIGH

ConfigFile Policy: MSPS_CollectionDefinition_2013

Aspect: NA

CIT:

Data source / Data class: SHAREPOINT / SRCHANAPROCCOMP

Source / Collection Definition: PERFMON / Search Analysis Engine Analytics Processing Components(*)

Metric: SearchAnalyticsProcCompInstanceName

> **Description**:
>
> **Metric SpecName**: SERANCOMPINSTANCE
>
> **Metric Field Name**: Instance_Name
>
> **Data type**: TEXT
>
> **Alarm**: FALSE

Metric: SearchAnalyticsProcCompInstanceFailedTasks

> **Description**:
>
> **Metric SpecName**: SAEFAILEDTASKS
>
> **Metric Field Name**: Failed Tasks
>
> **Data type**: UINT32
>
> **Alarm**: FALSE

Metric: SearchAnalyticsProcCompInstanceLongRunningTasks

> **Description**:
>
> **Metric SpecName**: LONGRUNNINGTSKS
>
> **Metric Field Name**: Long Running Tasks
>
> **Data type**: UINT32
>
> **Alarm**: FALSE

Metric: SearchAnalyticsProcCompInstanceRunningTasks

> **Description**:
>
> **Metric SpecName**: SAERUNNINGTASKS
>
> **Metric Field Name**: Running Tasks
>
> **Data type**: UINT32
>
> **Alarm**: FALSE

ChkSharePointTraceServStat

This policy maintains the metric definition for collecting SharePoint 2013 metrics.

Schedule Task Policy: MSPS_SCH_VERY_HIGH

ConfigFile Policy: MSPS_CollectionDefinition_2013

Aspect: NA

CIT:

Data source / Data class: SHAREPOINT / SERVSTAT

Source / Collection Definition: SERVICECHECK / SPTraceV4

Metric: SharePointTracingServName

> **Description**: Name of the Service
>
> **Metric SpecName**: SERVNAME
>
> **Metric Field Name**: Service_Name
>
> **Data type**: TEXT
>
> **Alarm**: FALSE

Metric: SharePointTracingServDisplayName

> **Description**: Displays name of the service.
>
> **Metric SpecName**: SRVDISPNAME
>
> **Metric Field Name**: Service_Displayname
>
> **Data type**: TEXT
>
> **Alarm**: FALSE

Metric: SharePointTracingServStatus

> **Description**: Status of the Service
>
> **Metric SpecName**: SERVSTATUS
>
> **Metric Field Name**: Service_Status
>
> **Data type**: TEXT
>
> **Alarm**: FALSE

Metric: SharePointTracingServState

> **Description**: State of the Service
>
> **Metric SpecName**: SERVSTATE
>
> **Metric Field Name**: Service_State
>
> **Data type**: UINT32
>
> **Alarm**: TRUE
>
> **Severity / Threshold** : Major / 1
>
> **Policy**: MSPS_SharePointTracingServState
>
> **Message text**: The service <OPTION(ServiceName)> is in the state <OPTION(ServiceStatus)>
>
> **Instructional Text**:
>
> **Probable Cause(s)**:
>
> **Potential Impact**:
>
> **Suggested Action(s)**:

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