



Reveille for Microsoft® 365

Technical Overview

2026

Reveille 

1 Reveille for Microsoft Technical Overview

Reveille monitors supporting SharePoint®, Microsoft 365 (M365) SharePoint Online, SharePoint Embedded, Azure Blob storage, OneDrive, and M365 Backup is available with Reveille. Reveille for SharePoint provides over 95 ‘out-of-the-box’ M365-specific tests and more than 90 M365 Dashboard Metrics. This broad coverage goes beyond common platform-only monitoring to deliver active and preventive monitoring to avoid ‘red’ level issues for SharePoint content management focused environments as part of Intelligent Automation solutions. When attention is required, Reveille can send alert notifications to a Microsoft Teams channel, Azure Sentinel, Azure Log, or Azure Communication Services. The Reveille platform offers AI machine learning (ML) algorithms to predict dynamic thresholds for reduced alerts from workload variations. The Reveille platform supports the model context protocol (MCP) for communication with AI assistants and AI agents. In addition, Reveille for SharePoint gathers site operating performance, detects abnormal SharePoint user behaviors or access, better understands SharePoint user experience, and provides granular intraday SharePoint threshold-based metrics for real-time management decision making. The Reveille collector option provides a set of the SharePoint specific tests suitable for customer on-premises or cloud hypervisor implementations. Reveille dashboards and reports can be saved directly to a OneDrive folder with a click or as part of scheduled email distribution.

Reveille for M365 can be extended with Microsoft Power BI Reveille data connector and reports, Microsoft Power Automate customer connectors, M365 email access, Teams Workflow notifications, and Microsoft Azure native services support. Reveille infrastructure wizards cover database (Database Wizard), REST or web services-based applications, file movement (OneDrive/UNC/FTP/SFTP directories), and server (PowerShell/WMI/Performance Counters) component testing capabilities. Any custom ASP.NET based component can be added to a Reveille monitor and leverage all Reveille core functionality.

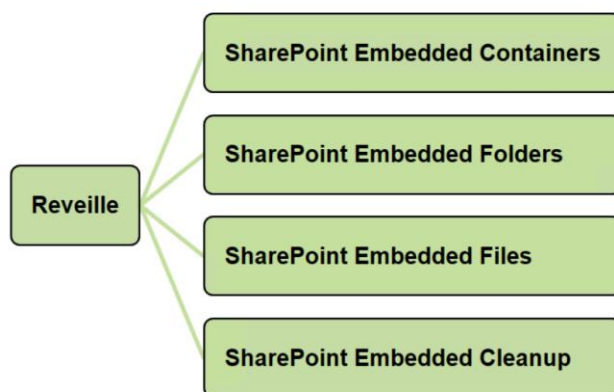


Figure 1: Example Microsoft® SharePoint® Embedded Monitor

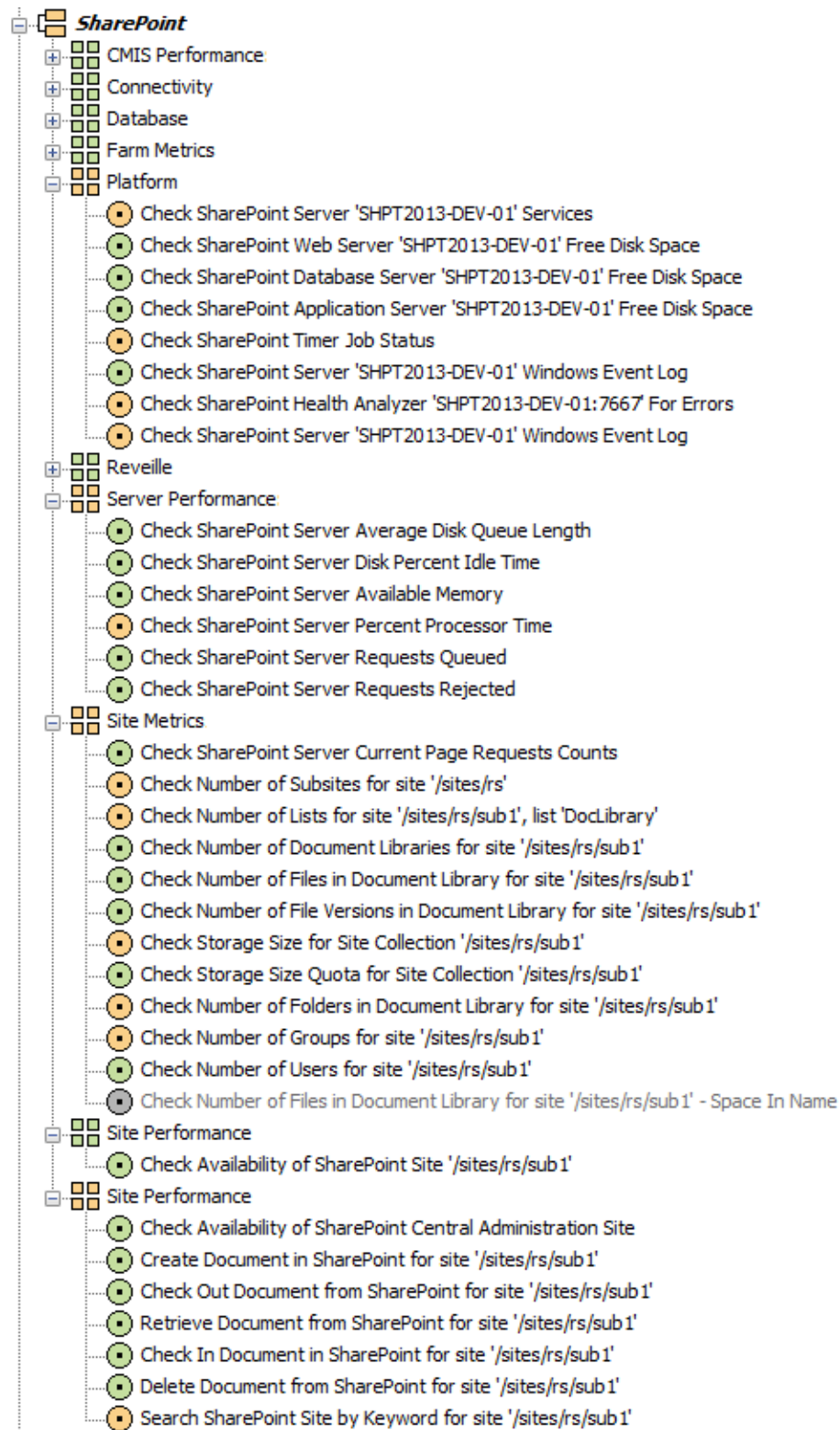


Figure 2: Microsoft SharePoint Monitor Tests

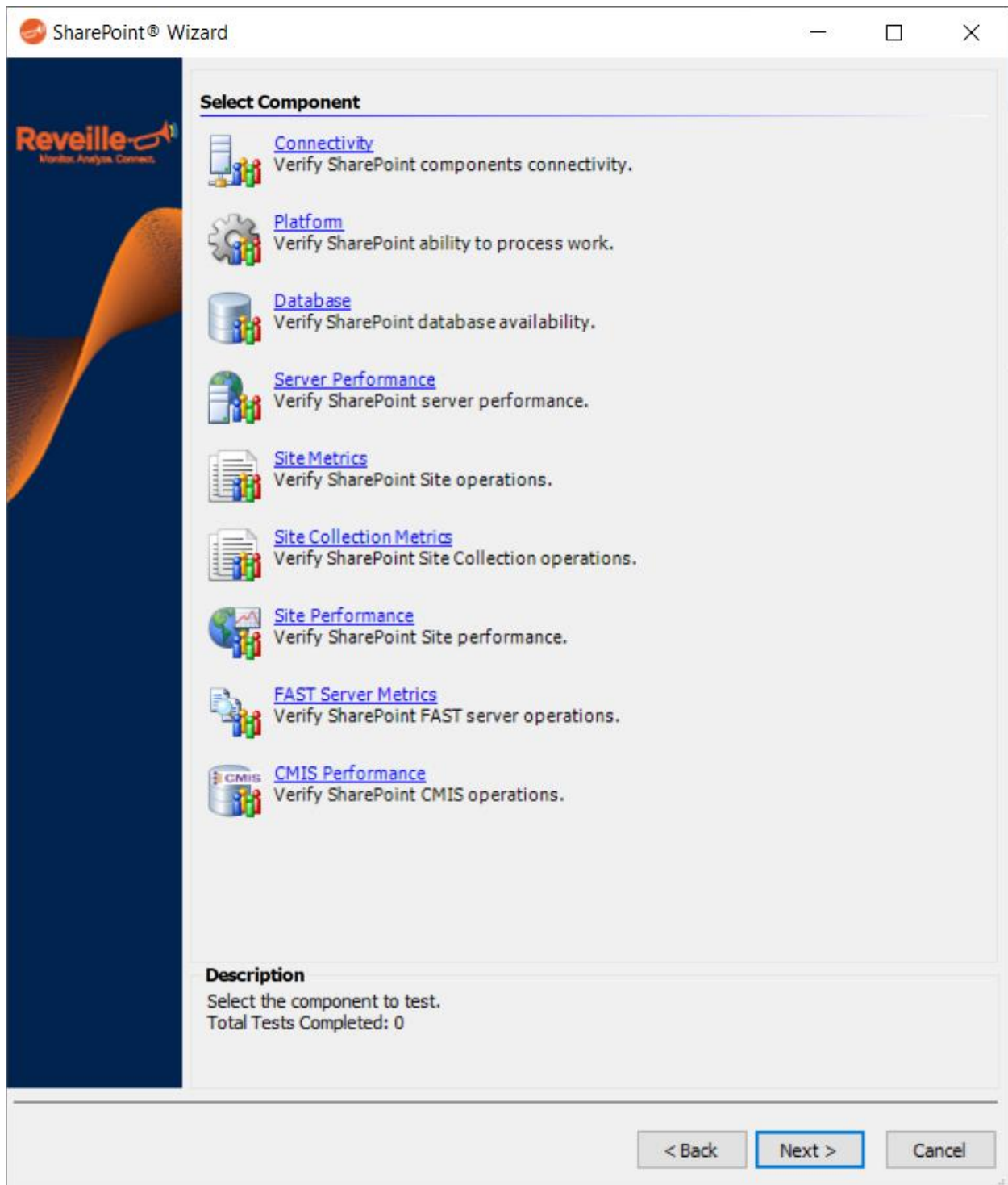


Figure 3: Microsoft SharePoint Wizard Component Selection

1.1 SharePoint 'Out-of-the-Box' Individual Component Test Details

1.1.1 Connectivity (SharePoint Servers available)

- SharePoint web server(s) can be pinged
- SharePoint database server(s) can be pinged
- SharePoint application server(s) can be pinged

1.1.2 Platform (SharePoint platform available to process work)

- Check SharePoint web front end server(s) services
- Check SharePoint database server(s) services
- Check SharePoint application server(s) services
- Check SharePoint web front end server(s) free disk space
- Check SharePoint database server(s) free disk space
- Check SharePoint application server(s) free disk space
- Check SharePoint Timer Job Status
- Check SharePoint Current Health Warnings and Errors
- Check SharePoint Windows Event Logs

1.1.3 Database (SharePoint databases health)

- Check SharePoint Content Database File Size
- Check SharePoint Database Sizes
- Check SharePoint Database Backups
- Check SharePoint Database is responding to query
- Check SQL Server Services

1.1.4 Server Performance (SharePoint Server Performance)

- Check SharePoint Server Average Disk Queue Length
- Check SharePoint Server Disk Percent Idle time
- Check SharePoint Server Available Memory
- Check SharePoint Server Percent Processor Time
- Check SharePoint Server Requests Queued

- Check SharePoint Server Requests Rejected
- Check additional SharePoint Server Performance Counters

1.1.5 Site Metrics (Health Analysis)

- Check SharePoint Server Current Page Requests
- Check Number of Sub Sites for SharePoint site
- Check Number of Lists for a SharePoint site
- Check Number of SharePoint Document Libraries
- Check Number of Files in SharePoint Document Library
- Check Number of File Versions in SharePoint Document Library
- Check Number of Folders in SharePoint Document Library
- Check SharePoint Site Collection Storage Size
- Check SharePoint Site Collection Storage Quota
- Check SharePoint Groups
- Check SharePoint Users

1.1.6 Farm Metrics (Site Collection Metrics across Farm)

- Check all Document Libraries in Site and Sub sites
- Check all Document Library Folders in Site and Sub sites
- Check all Document Library Files in Site and Sub sites

1.1.7 Site Performance (Site Performance)

- Check Availability of SharePoint Site
- Check Availability of SharePoint Central Admin Site
- Create Document in SharePoint Site
- Check Out Document in SharePoint Site
- Retrieve Document from SharePoint Site
- Check In Document to SharePoint Site
- Delete Document from SharePoint Site

- Search SharePoint Site by Keyword

1.1.8 CMIS Performance (Site Performance using CMIS interface)

- Check SharePoint Site using CMIS
- Create Folder in SharePoint using CMIS
- Create Document in SharePoint using CMIS
- Check Out Document from SharePoint using CMIS
- Retrieve Document Information and Document from SharePoint using CMIS
- Check In Document in SharePoint using CMIS
- Delete Document from SharePoint using CMIS
- Delete Folder from SharePoint using CMIS
- Query SharePoint Site using CMIS

1.2 SharePoint Embedded 'Out-of-the-Box' Individual Component Test Details

1.2.1 Containers (SharePoint Embedded Containers available and active)

- SharePoint Embedded – get access token
- SharePoint Embedded – create file storage container
- SharePoint Embedded – activate file storage container
- SharePoint Embedded – get file storage container
- SharePoint Embedded – list file storage containers
- SharePoint Embedded – query file storage containers

1.2.2 Folders (SharePoint Embedded available for folder processing)

- SharePoint Embedded – get drive properties
- SharePoint Embedded – add folder
- SharePoint Embedded – update folder

1.2.3 Files (SharePoint Embedded available for item processing)

- SharePoint Embedded – upload file to folder
- SharePoint Embedded – update file in a folder
- SharePoint Embedded – get file from a folder
- SharePoint Embedded – create file preview for file in a folder
- SharePoint Embedded – download file from a folder
- SharePoint Embedded – list items in a folder
- SharePoint Embedded – check out file from a folder
- SharePoint Embedded – check in file from a folder
- SharePoint Embedded – list file versions from a folder

1.2.4 Cleanup (SharePoint Embedded cleanup processing)

- SharePoint Embedded – permanently delete file from a folder
- SharePoint Embedded – permanently delete folder
- SharePoint Embedded – delete file storage container

- SharePoint Embedded – list deleted file storage containers
- SharePoint Embedded – permanently delete file storage container

2 Reveille for SharePoint, M365 SharePoint Online, M365 SharePoint Embedded, Azure Blob, and M365 One Drive with Reveille Collectors

The Reveille Collector is a subsystem that offloads the collection and capture of data from the monitor wizard and tests. Data is collected either locally or remotely and saved in an xml file that is then used by the monitor instead of calling the application APIs directly. If the data is collected remotely, then it is sent to the Reveille Server through web services. The data is compressed and optionally encrypted during the transfer to the Reveille server. The Reveille Collector:

- Is a cloud friendly (web services communication for push of data to Reveille server, configure from a Reveille server)
- Uses a small footprint (single Windows service)
- Reduces network latency and log file size impact (Collector located near or at application target)
- Reduced application processing (maintain application login state)

The Collector is designed to support multiple Reveille Servers and each server can have multiple data sources. A data source defines how to connect to SharePoint Online, SharePoint Embedded, Azure Blob Storage, or OneDrive.

The Collector runs as a Windows service and starts a process for each data source defined. The data sources run a collector cycle immediately so a data package will be available and then schedules the next cycle at a random time. Each cycle from then on will be based on the defined data source interval. The Reveille collector option provides a subset of the SharePoint specific tests suitable for SharePoint Online. This reduces security risk as the SharePoint Online access credentials do not need to be provided to a third-party external monitoring agent. The Reveille collector can operate on the corporate network and still observe SharePoint Online activity.

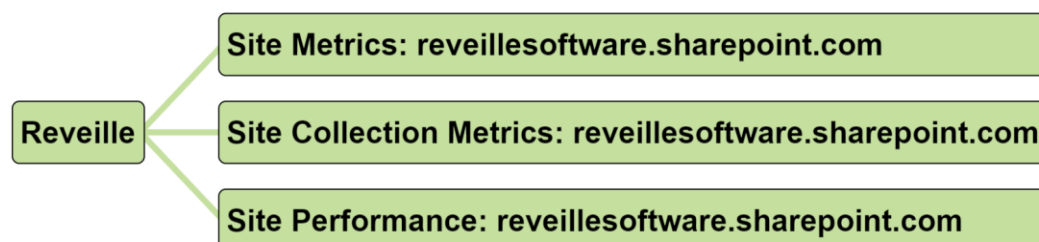


Figure 4: Example M365 SharePoint® Collector Monitor



Figure 5: M365 SharePoint Collector Monitor Tests

2.1 SharePoint Collector 'Out-of-the-Box' Individual Component Test Details

2.1.1 Site Performance (Site Performance)

- Check Availability of SharePoint Site
- Create Document in SharePoint Site
- Check Out Document in SharePoint Site
- Retrieve Document from SharePoint Site
- Check In Document to SharePoint Site
- Delete Document from SharePoint Site
- Search SharePoint Site by Keyword

2.1.2 Site Metrics (Health Analysis)

- Check SharePoint Server Current Page Requests
- Check Number of Sub Sites for SharePoint site
- Check Number of Lists for a SharePoint site
- Check Number of SharePoint Document Libraries
- Check Number of Files in SharePoint Document Library
- Check Number of File Versions in SharePoint Document Library
- Check Number of Folders in SharePoint Document Library
- Check SharePoint Site Collection Storage Size
- Check SharePoint Site Collection Storage Quota
- Check SharePoint Groups
- Check SharePoint Users

2.1.3 Farm Metrics (Site Collection Metrics across Farm)

- Check all Document Libraries in Site and Sub sites
- Check all Document Library Folders in Site and Sub sites
- Check all Document Library Files in Site and Sub sites
- Search SharePoint Site by Keyword

2.2 SharePoint Embedded Collector ‘Out-of-the-Box’ Individual Component Test Details

2.2.1 Containers (SharePoint Embedded Containers available and active)

- SharePoint Embedded – get access token
- SharePoint Embedded – create file storage container
- SharePoint Embedded – activate file storage container
- SharePoint Embedded – get file storage container
- SharePoint Embedded – list file storage containers
- SharePoint Embedded – query file storage containers

2.2.2 Folders (SharePoint Embedded available for folder processing)

- SharePoint Embedded – get drive properties
- SharePoint Embedded – add folder
- SharePoint Embedded – update folder

2.2.3 Files (SharePoint Embedded available for item processing)

- SharePoint Embedded – upload file to folder
- SharePoint Embedded – update file in a folder
- SharePoint Embedded – get file from a folder
- SharePoint Embedded – create file preview for file in a folder
- SharePoint Embedded – download file from a folder
- SharePoint Embedded – list items in a folder
- SharePoint Embedded – check out file from a folder
- SharePoint Embedded – check in file from a folder
- SharePoint Embedded – list file versions from a folder

2.2.4 Cleanup (SharePoint Embedded cleanup processing)

- SharePoint Embedded – permanently delete file from a folder
- SharePoint Embedded – permanently delete folder
- SharePoint Embedded – delete file storage container

- SharePoint Embedded – list deleted file storage containers
- SharePoint Embedded – permanently delete file storage container

2.3 OneDrive Monitor



Figure 6: Example M365 OneDrive Monitor

2.3.1 OneDrive Performance

- Create Folder in OneDrive
- Upload File to OneDrive
- Download File from OneDrive
- List File Versions in OneDrive
- Delete File in OneDrive
- Delete Folder from OneDrive
- Search Folders in OneDrive

2.4 Azure Blob Monitor

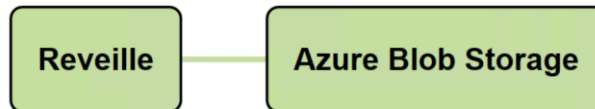


Figure 7: Example Azure Blob Storage Monitor

2.4.1 Azure Blob Performance

- Check Azure Blob Storage containers
- Check Azure Blob Storage blobs
- Check Azure Blob Storage put blob
- Check Azure Blob Storage get blob
- Check Azure Blob Storage get blob properties
- Check Azure Blob Storage blob delete

2.5 SharePoint Collector Status

Reveille continuously verifies the remote Reveille Collector system status and alerts if the Reveille Collector is not operating nor transferring information back to the Reveille server.



Figure 8: Example M365 SharePoint® Collectors Monitor

2.6 SharePoint Collector Groups

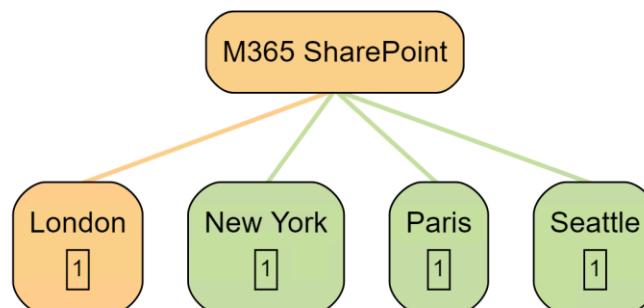


Figure 9: Example M365 SharePoint Groups

Reveille grouping provides a way to aggregate Reveille Collector Monitors for SharePoint, SharePoint Embedded, OneDrive, and Azure Blob into logical groups based upon user-defined criteria, such as geographic location, company, function, and so on. Each business view can then be secured at individual group levels using Windows Domain security. This feature enhances the communication of application status and service levels using relevant business semantics or company terminology.

3 Reveille for M365 Backup

Reveille for M365 Backup verifies M365 backup operation, enablement, and configuration. Reveille will check for policy status changes and protection removal of high value mailboxes, one drive folders, or SharePoint sites. Reveille will detect if M365 Backup restores are submitted without prior knowledge and approval. Reveille for M365 Backup ensures M365 Backup is operating as expected in case of need. This is key to avoid losses from a ransomware attack that encrypts large swaths of your data, or instances of an internal accidental or malicious data deletion or overwrite events.

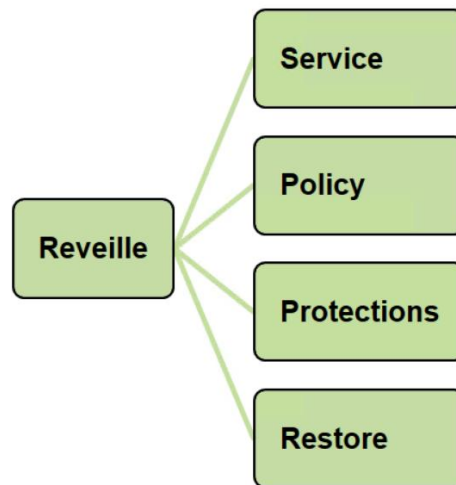


Figure 10: Example M365 Backup Monitor

3.1.1 Service (Operating Status)

- Check Backup Service Status in Tenant

3.1.2 Policy (Policy)

- Check Protection Policy Status

3.1.3 Protections

- Check Exchange Online Mailbox Protections
- Check OneDrive Protections
- Check SharePoint Sites Protections
- Check Protection Rules Status

3.1.4 Restore

- Check Restore Activity
- Check Restore Submitter and Completion Status

4 M365 Dashboard Metrics

The dashboard metric capabilities expand Reveille's agentless application management into measurement of intelligent process automation operational key performance indicators (KPI's). The dashboard functionality includes the ability to track site and server exception thresholds, exposing high risk areas such as service delivery attainment, operational efficiency, and compliance issues with Microsoft SharePoint. Additional metrics can be defined and added based on customer requirements. For companies with business-critical content management applications, the dashboard metric capabilities allow:

- Tracking SharePoint operating performance, database health, and capacity
- Tracking SharePoint operating exceptions
- Tracking SharePoint site performance
- Tracking SharePoint site activity and use
- Tracking OneDrive performance and activity
- Tracking Azure Blob performance and activity
- Tracking SharePoint Embedded performance
- Tracking SharePoint Embedded operating exceptions
- Tracking M365 status
- Tracking M365 Backup operating exceptions

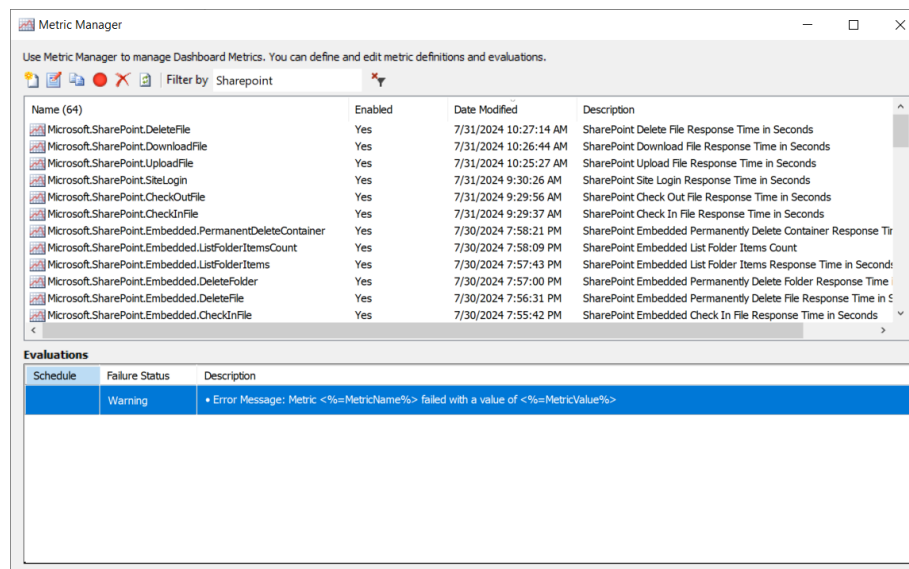


Figure 11: Reveille Metric Manager

4.1 M365 Dashboard Examples

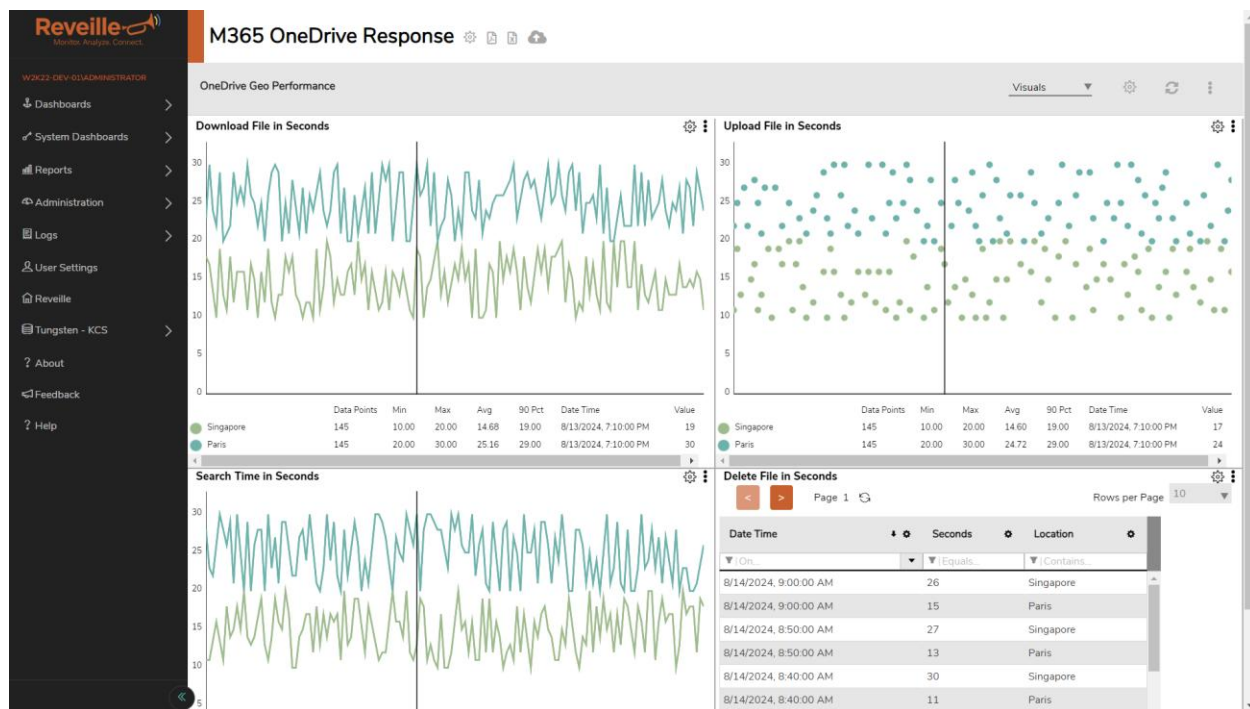


Figure 12: M365 SharePoint Online Dashboard Metrics

Dashboard metrics view can be created for multiple metric combinations. The above example shows a comparison of document creation/retrieval times in OneDrive for several geographic locations. This information is helpful for tracking SharePoint operating capacity.

The pre-packaged SharePoint metrics enable the quick configuration of robust metric definitions using a wizard-based approach. By using wizards, metrics are easy to create, saving time and money. The out-of-the-box metrics comparisons include:

- Maximum or Minimum
- Numeric Range
- Percentage Change
- Average
- Change in Value
- Dynamic Thresholds from Machine Learning Forecast

- Number of Occurrences
- Last N Times
- .NET expressions

Once defined and initiated, the SharePoint monitors will evaluate metric thresholds and send a notification if a threshold violation occurs. The evaluation results are stored in a metrics database and presented to users via online web reporting.

The screenshot shows a dialog box titled "Metric - Microsoft.SharePoint.Embedded.ListFolderItemsCount". It has three tabs: "Metric", "Evaluations", and "Values". The "Evaluations" tab is active, showing a list of evaluation rules on the left and a configuration area on the right. The first rule is selected, showing a "Failure Status" of "Warning" and an "Error Message" template: "Metric <%=MetricName%> failed with a value of <%=MetricValue%>". Below this, several test conditions are listed with checkboxes: "Schedule", "Attribute Filter", "Test Expression", "Test Min Value", "Test Max Value", "Test Dynamic Threshold Min Value" (checked), "Test Dynamic Threshold Max Value", "Test Average Value" (checked), "Test Change In Value", "Test Occurrences", and "Test Last N times". The "Test Average Value" section is expanded, showing "Use Global Percentage" checked, "Allow Percentage Below" set to 0, and "Test Average Value" set to 0.000 over a range of 0 minutes. A yellow tooltip explains: "Test Average Value: If set, the Evaluation will fail if the average Metric values over the specified time range is greater than the specified average value." At the bottom are "OK" and "Cancel" buttons.

Figure 13: Metric Evaluation Definition

5 SharePoint / M365 SharePoint Online / M365 SharePoint Embedded / Teams / Entra ID / Copilot / M365 OneDrive with Reveille User Analytics

Beyond operating KPI's, Reveille dashboards have out of the box visuals for understanding SharePoint , SharePoint Online, SharePoint Embedded, Teams, Entra ID, Copilot, and OneDrive user activity and user behavior. This includes Microsoft Teams content access as adding a document to a Teams channel by default will store the content in SharePoint Online with One Drive as another storage option. Reveille gathers this information using patented Reveille collectors to provide:

- Continuously observe the actual based user experience from your M365 investments.
- Communicate user activity and user adoption information through dashboards, reports, and notification processes.
- Rapidly identify user response time service level issues.
- Detect suspicious or abnormal user behavior indicating a possible content access breach from insider threats.
- Reduce mean time to threat detection and time to respond with leading endpoint detection solution integration options such as Microsoft Defender for Endpoint (MDE).

Reveille Cloud Collector Settings

File Collector Help

Microsoft 365 Connection

Connection Name: SharePoint Online

Tenant Name: reveillesoftware.com

Resource ID (API Service URL): https://manage.office.com

☐ Public Client ☒ Confidential Client

UserName: reveille@reveillesoftware.com

Password: *****

Enabled ☒

Directory (tenant) ID:

Azure Active Directory Instance: https://login.microsoftonline.com/{0}

Application (client) ID:

Client Secret: *****

Workload

☒ Microsoft Copilot ☒ Microsoft Entra ID ☒ Microsoft OneDrive ☒ Microsoft Teams

☒ SharePoint Online ☒ SharePoint Embedded ☒ Threat Investigation

Advanced... Test Connection OK Cancel

Figure 14: M365 Cloud Collector Configuration



Figure 15: SharePoint User Behavior Dashboard

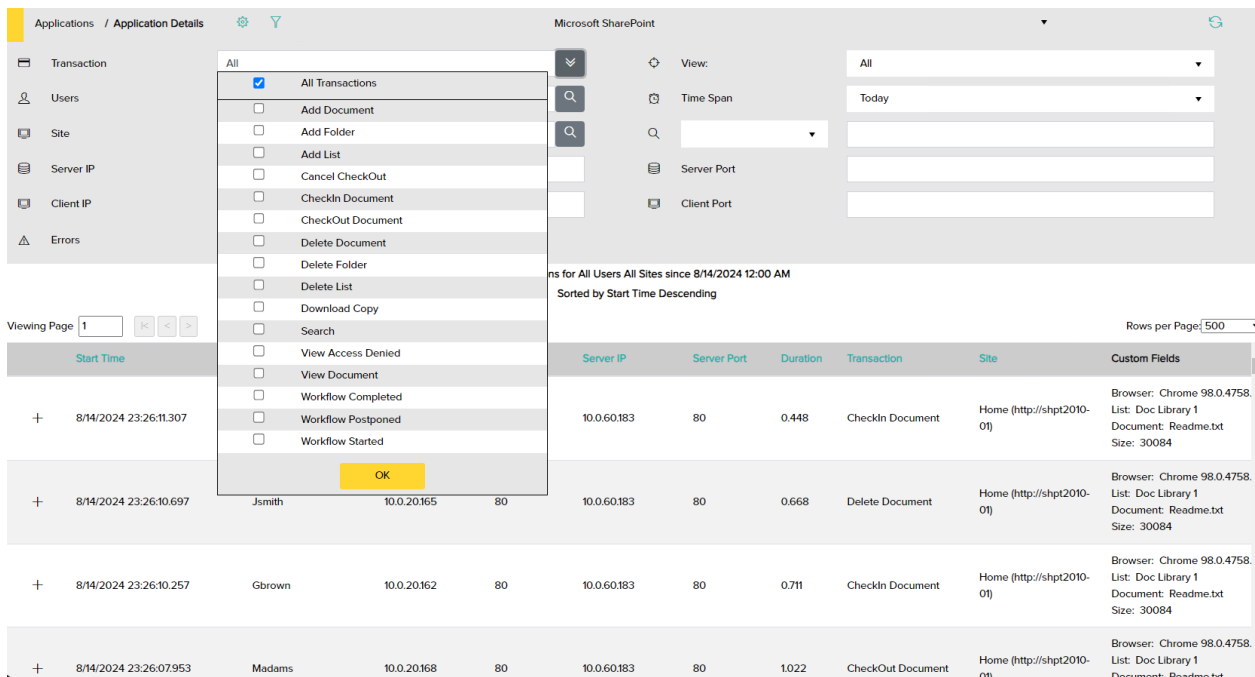


Figure 16: SharePoint User Activity Details

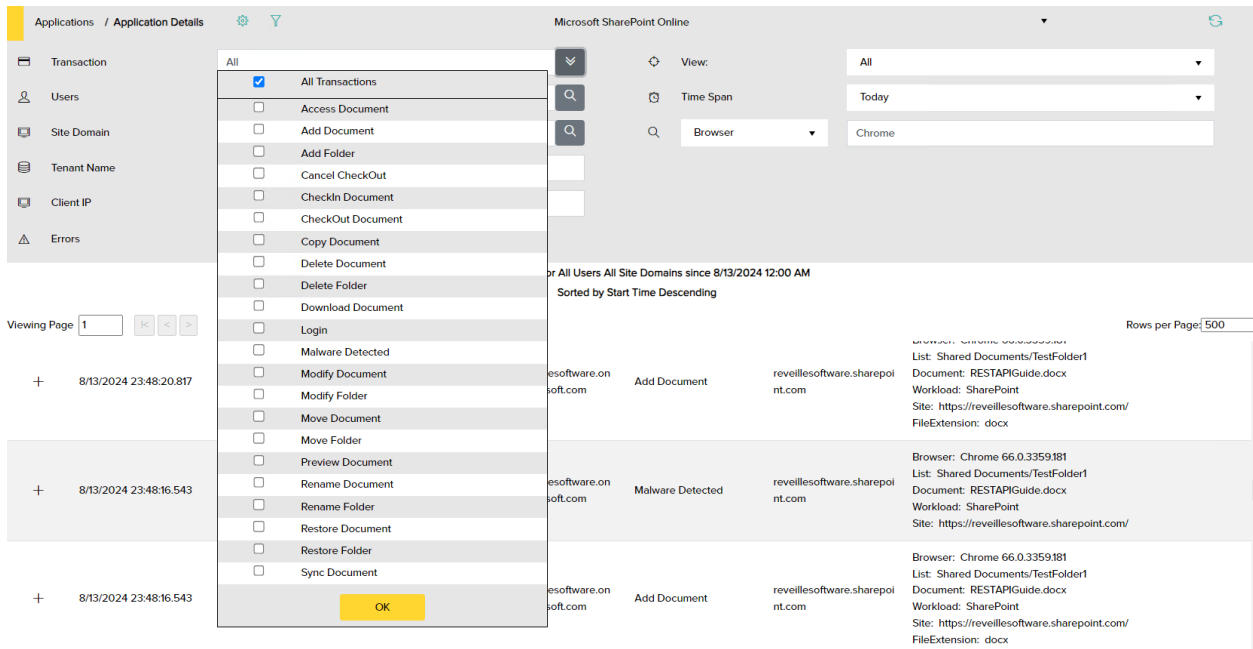


Figure 17: M365 SharePoint Online User Activity Details

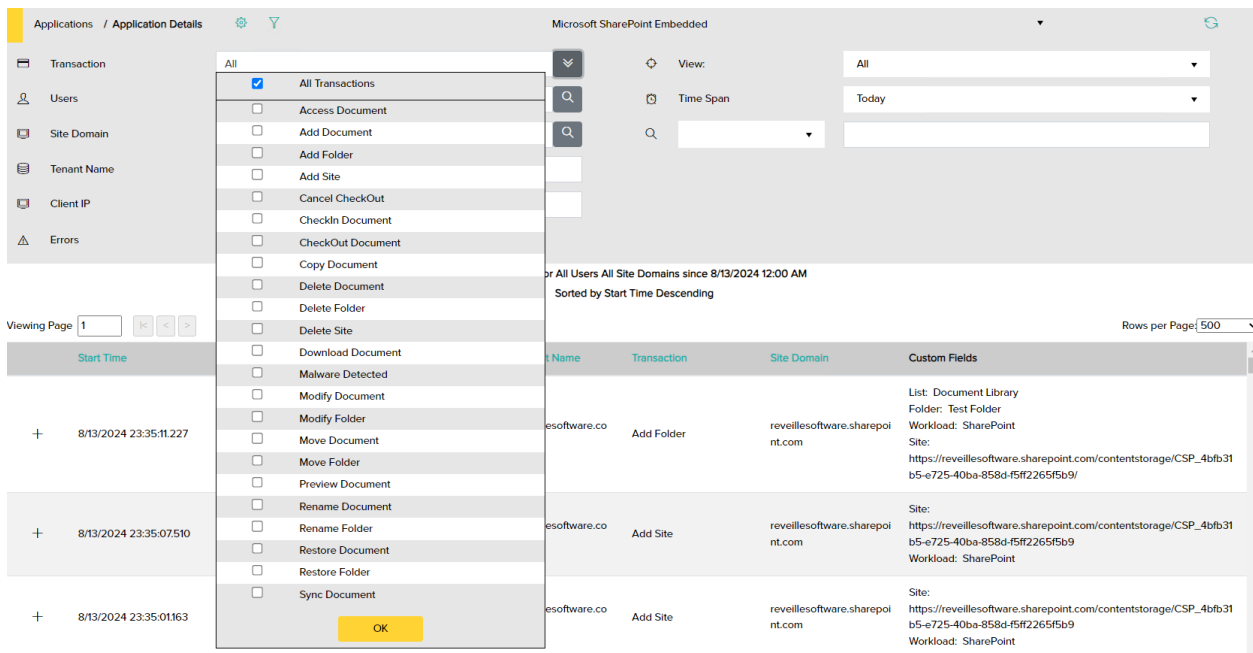


Figure 18: M365 SharePoint Embedded User Activity Details

Applications / Application Details		Microsoft Teams	
Transaction	All	View:	All
Users	☒ All Transactions	Time Span	Today
OrganizationId	☐ App Deleted		
Tenant Name	☐ App Deleted From Catalog		
Client IP	☐ App Installed		
Errors	☐ App Published To Catalog		
	☐ App Uninstalled		
	☐ App Updated In Catalog		
	☐ App Upgraded		
	☐ Bot Added To Team		
	☐ Bot Removed From Team		
	☐ Channel Added		
	☐ Channel Deleted		
	☐ Channel Owner Responded		
	☐ Channel Setting Changed		
	☐ Chat Created		
	☐ Chat Retrieved		
	☐ Chat Updated		
	☐ Connector Added		
	☐ Connector Removed		
	☐ Connector Updated		
	☐ Deleted All Organization Apps		
	☐ Failed Validation		
	☐ Invite Sent		
	☐ Invitee Responded		
	☐ Meeting Detail		
	☐ Meeting Participant Detail		
	☐ ...		
	OK		
Viewing Page 1		All Users All OrganizationIds since 8/13/2024 12:00 AM	
		Sorted by Start Time Descending	
		Rows per Page 500	
+	8/13/2024 23:42:50.067	esoftware.co	Teams Session Started ReveilleSoftware UserType: Regular
+	8/13/2024 23:42:49.257	esoftware.co	Teams Session Started ReveilleSoftware UserType: Regular
+	8/13/2024 23:42:44.677	esoftware.co	Message Created Has Link ReveilleSoftware UserType: Regular ChatName: Development status County: us HasForeignTenantUsers: false HasGuestUsers: false HasOtherGuestUsers: false HasUnauthenticatedUsers: false MessageURLs: https://learn.microsoft.com/en-us/office/office-365-management-api/office-365-management-activity-api-schema#auditlogrecdtype
			UserType: Regular ChatName: Development status County: us HasForeignTenantUsers: false

Figure 19: Teams User Activity Details

Applications / Application Details		Microsoft Entra ID	
Transaction	All	View:	All
Users	☒ All Transactions	Time Span	Today
OrganizationId	☐ Add Group		
Tenant Name	☐ Add Member To Group		
Client IP	☐ Add Owner To Group		
Errors	☐ Add User		
	☐ Delete Group		
	☐ Delete User		
	☐ Enable Account		
	☐ Remove Member From Group		
	☐ Update Device		
	☐ Update Group		
	☐ Update User		
	☐ User Logged In		
	☐ User Login Failed		
	OK		
Viewing Page 1		All Users All OrganizationIds since 8/14/2024 12:00 AM	
		Sorted by Start Time Descending	
		Rows per Page 500	
		Transaction	OrganizationId
		Custom Fields	
+	8/14/2024 0:02:44.840	Update Group	ReveilleSoftware Group: TestGroup1
+	8/14/2024 0:02:44.023	Add User	ReveilleSoftware User: TestUser1@reveillesoftware.com
+	8/14/2024 0:02:42.193	Update Group	ReveilleSoftware Group: TestGroup1
+	8/14/2024 0:02:41.507	Add User	ReveilleSoftware User: TestUser1@reveillesoftware.com
+	8/14/2024 0:02:38.380	Add User	ReveilleSoftware User: TestUser1@reveillesoftware.com

Figure 20: Entra ID User Activity Details

Start Time	User ID	Client IP	Tenant Name	Transaction	OrganizationId	Custom Fields
8/13/2024 23:56:36.000	bdewyer@reveillesoftware.com	45.36.144.184	reveillesoftware.com	Copilot Interaction	ReveilleSoftware	UserType: Regular AppHost: Word
8/13/2024 23:56:35.000	bdewyer@reveillesoftware.com	45.36.144.184	reveillesoftware.com	Copilot Interaction	ReveilleSoftware	UserType: Regular AppHost: Word

Figure 21: Copilot User Activity Details

Start Time	User ID	Client IP	Tenant Name	Transaction	OrganizationId	Custom Fields
8/13/2024 23:51:17.427	bdewyer@reveillesoftware.com	45.36.144.184	reveillesoftware.com	Add Document	reveillesoftware.sharepoint.com	Browser: Chrome 66.0.3359.181 List: Documents/TestFolder Document: Document.docx Workload: OneDrive Site: https://reveillesoftware.sharepoint.com/ FileExtension: docx
8/13/2024 23:51:16.100	bdewyer@reveillesoftware.com	45.36.144.184	reveillesoftware.com	Add Document	reveillesoftware.sharepoint.com	Browser: Chrome 66.0.3359.181 List: Documents/TestFolder Document: Document.docx Workload: OneDrive Site: https://reveillesoftware.sharepoint.com/ FileExtension: docx
8/13/2024 23:51:15.147	madams@company.com	10.0.20168	reveillesoftware.onmicrosoft.com	Add Folder	reveillesoftware.sharepoint.com	Browser: Chrome 66.0.3359.181 List: Documents Folder: TestFolder Workload: OneDrive Site: https://reveillesoftware.sharepoint.com/

Figure 22: M365 OneDrive User Activity Details

Dashboard data can be displayed in sortable row columns, exported as a spreadsheet xlsx format file , or saved as a PDF. All dashboard metric views can be scheduled for automatic creation and email distribution. The Reville dashboards and reports can be saved directly to a OneDrive folder with a simple click or as part of scheduled email distribution.

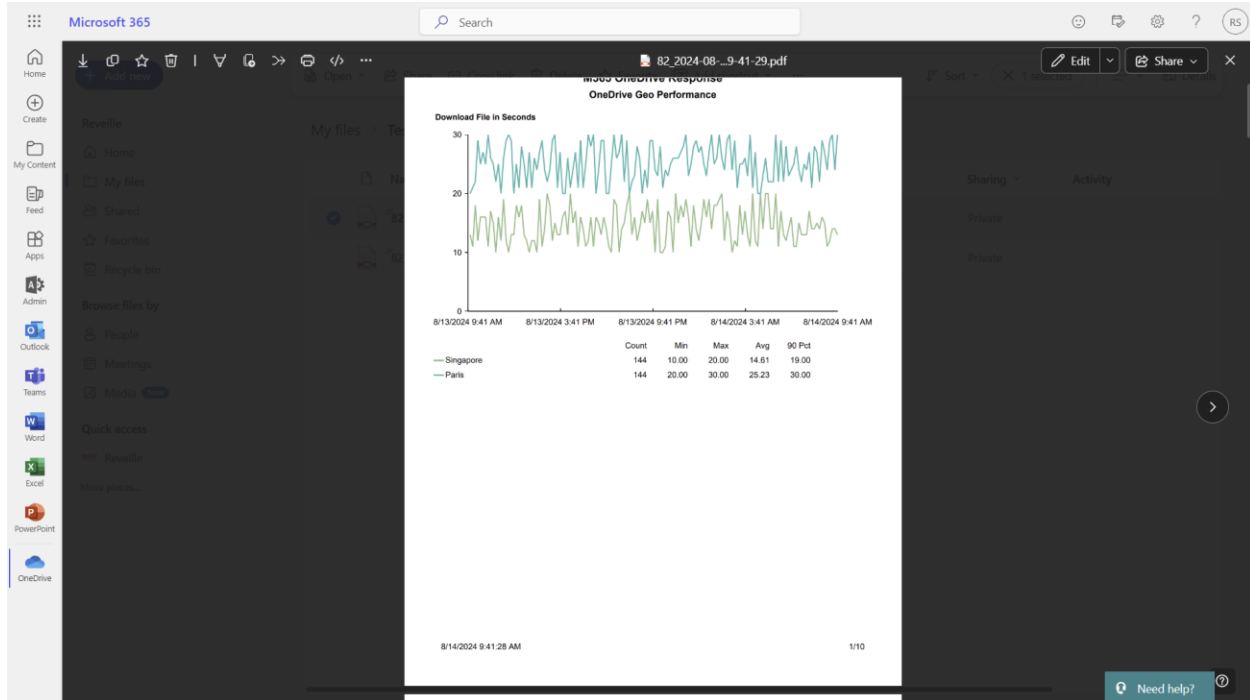


Figure 23: Save Dashboard to OneDrive Example

6 Reveille with Teams Workflow

Microsoft Power Automate workflows let you automate repetitive tasks or processes that connect one or more apps such as Teams. Reveille includes support for Teams Workflow to communicate alert event and self-healing proactive action confirmation messages to a Teams channel using adaptive cards. An adaptive card is a customizable card that can contain any combination of text, speech, images, buttons, and input fields. Reveille provides adaptive card examples that can be updated as desired to enhance the message content.

Alert Notification

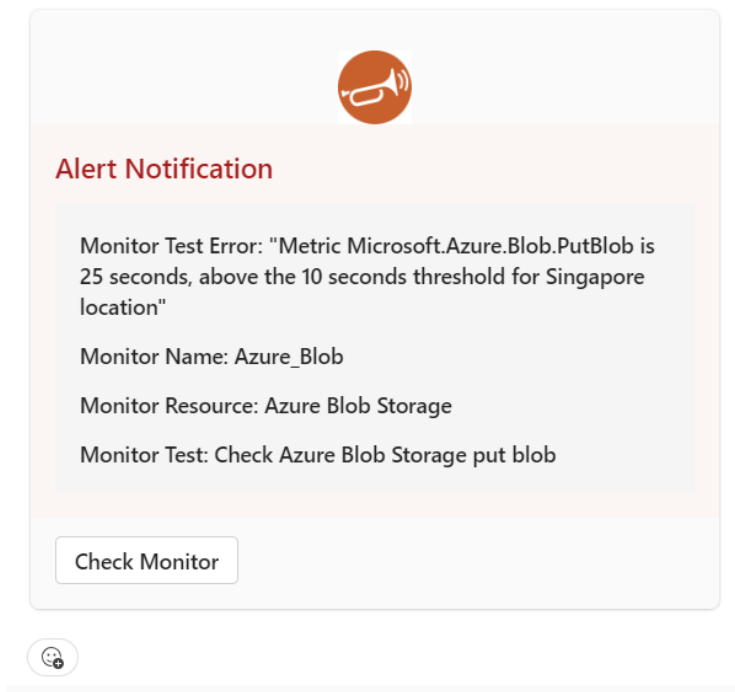


Figure 24: Example Teams Channel Alert Notification

Proactive Action Message

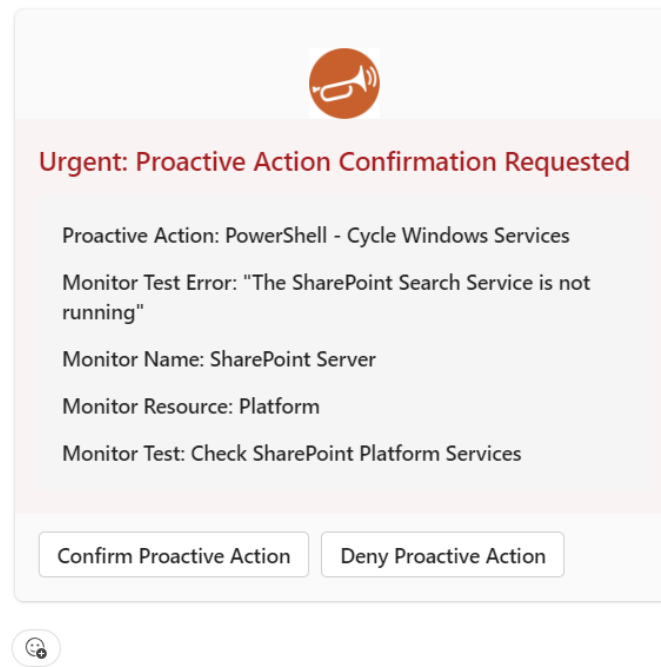


Figure 25: Example Teams Channel Proactive Action Confirmation

7 Reville with Microsoft Power BI

Reville provides Microsoft Power BI trusted data connectors to access the powerful Reville and RUA REST APIs. This allows Reville deep content systems data to be consumed by the Power BI data analysis and report creation tools. Reville provides both trusted signed and unsigned Power BI custom connectors. Once the Reville data is in Power BI, any Power BI features can be used. Power BI Desktop is a free application one can install on your local computer that lets you connect to, transform, and visualize your data. With Power BI Desktop, one can connect to multiple different sources of data, and combine them (often called modeling) into a data model. This data model lets one build visuals, and collections of visuals one can share as reports, with others inside the organization. The Reville Power BI data connectors are:

- Reville Dashboard Metrics
- Reville Metric Attributes
- Reville Monitor Availability
- Reville Monitor Incidents
- Reville Monitor Notifications
- Reville Monitor Status
- Reville Operating Status
- Reville User Analytics Application Details
- Reville User Analytics Message Details
- Reville User Analytics Operating Status
- Reville User Analytics Protocol Summary
- Reville User Analytics Users by Application

To call the Reville REST APIs you will need to know the address of the Reville Server and use either OAuth 2.0 for authorization and or direct Windows domain AD for authentication.

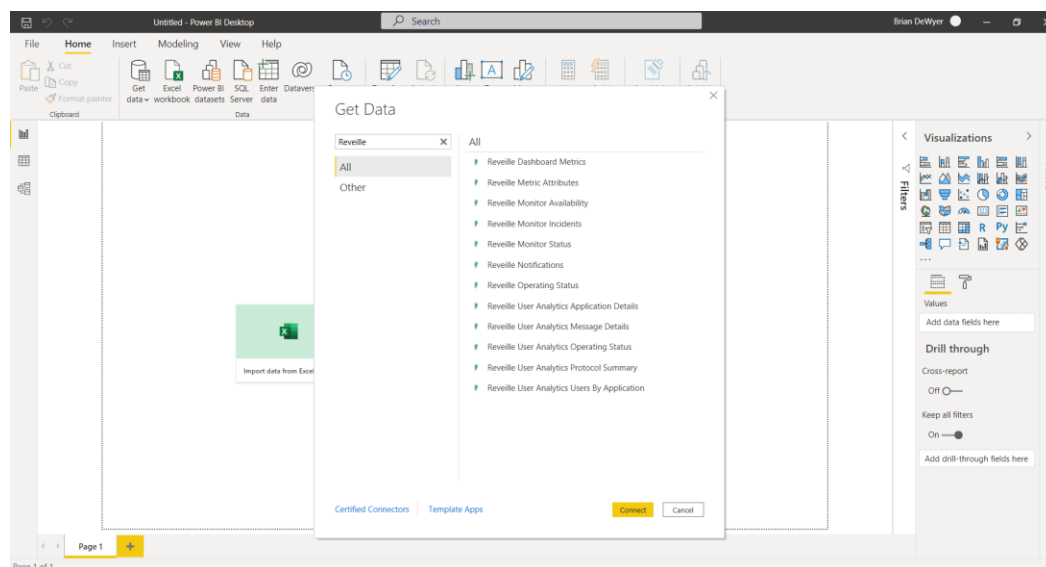


Figure 26: Microsoft Power BI Reville Data Connectors

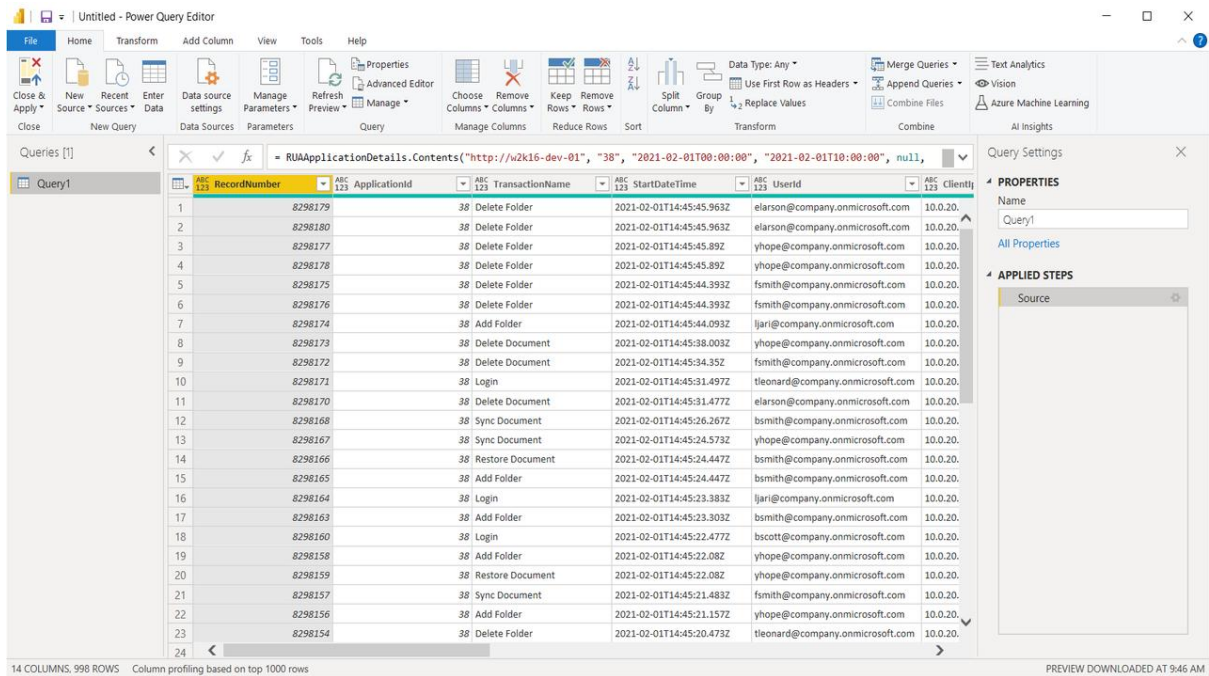


Figure 27: Microsoft Power BI Query Editor with Reville User Transaction Data

Reville also provides Power BI report templates use the Power BI Reville data connectors to access Reville data. The Power BI report templates (.pbix files) can be used to create custom Power BI reports (.pbix files) as shown in the following example.

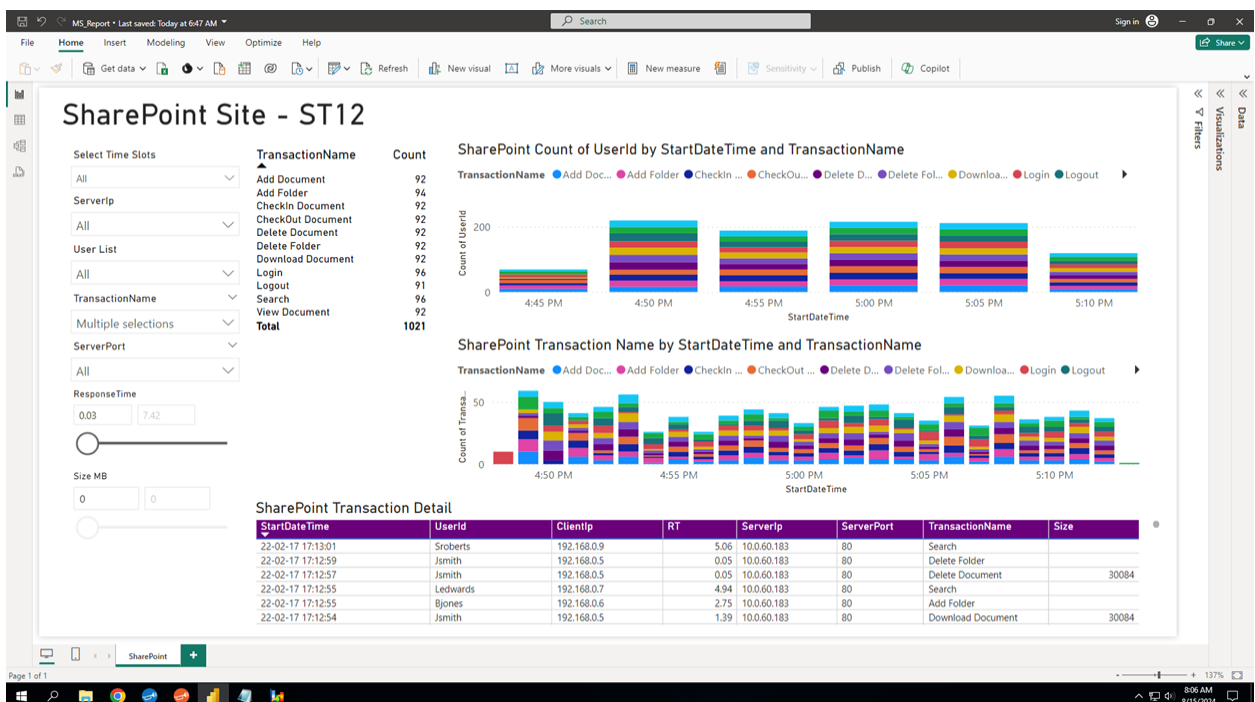


Figure 28: Microsoft Power BI Query Editor with Reville User Transaction Data

8 Reville and Microsoft Power Automate

The Microsoft Power Platform aligns with the emerging need for hyperautomation, and Microsoft Power Automate serves as the critical automation service supporting an organization's push for hyperautomation. Power Automate and Power Platform can help enterprise architects define an automation strategy, leverage DigitalOps, and augment their business with AI. See [here](#) for more Microsoft Power Automation information.

Reville now participates with the Power Automate platform. Reville provides example Reville custom connectors and Cloud Flows for integrating Reville's information on content system service levels, performance, operating health, and user activity. The Reville custom connectors interface with the Reville REST API set.

A Reville Power Automate custom connector can:

- Invoke any of the 150+ Reville REST API endpoints
- Connect using basic authentication or OAuth 2 authorization to a Reville REST endpoint
- Use the REST API endpoint JSON response in further Cloud Flow processing

Possible Cloud Flow use cases include:

- Verify application status before gathering data in a Power Automate step
- Gathering application service level and performance information as part of an automated performance management reporting process
- Obtaining repository storage consumption and application transaction volume and user counts to feed a chargeback analysis
- Feeding content system focused operating health, performance, and activity data for IT KPI flow process
- Communicating event status as part IT incident management process
- Signaling Reville to take a recovery action (run a PowerShell script, move files, update configuration, start a process or service, start a Docker container, etc.) based on a previous Power Flow step.

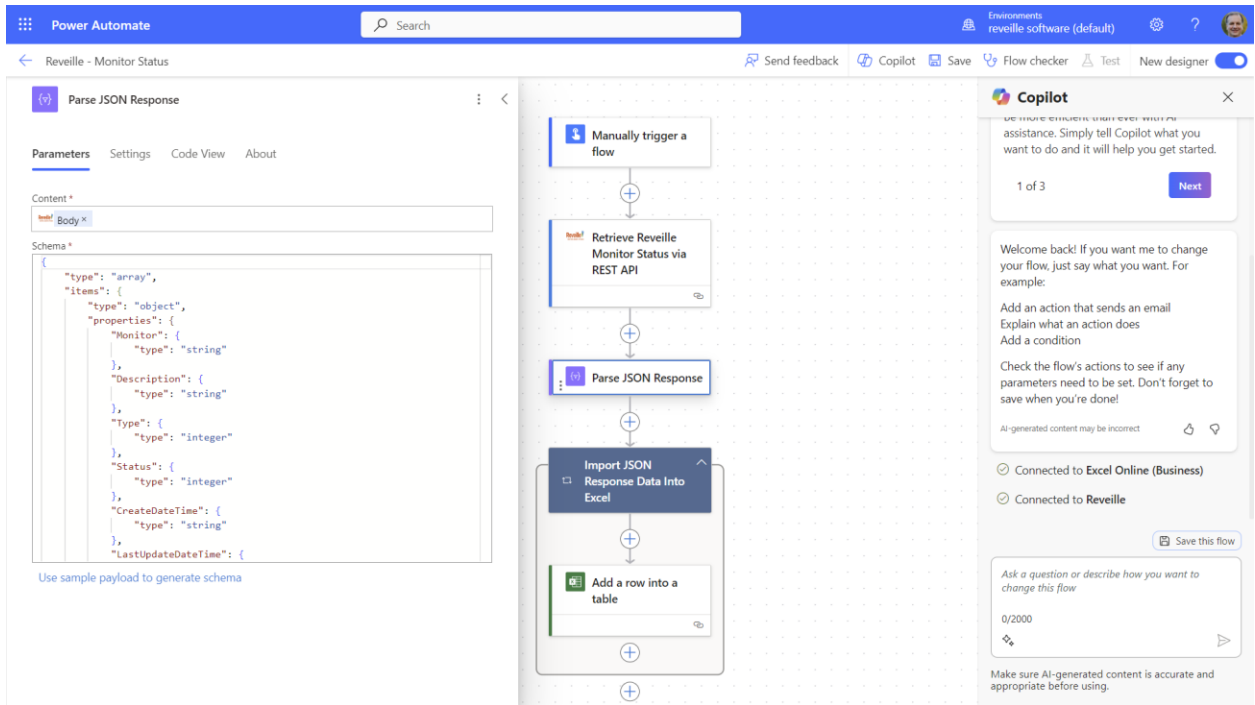


Figure 29: Microsoft Power Automate with a Reville Cloud Flow

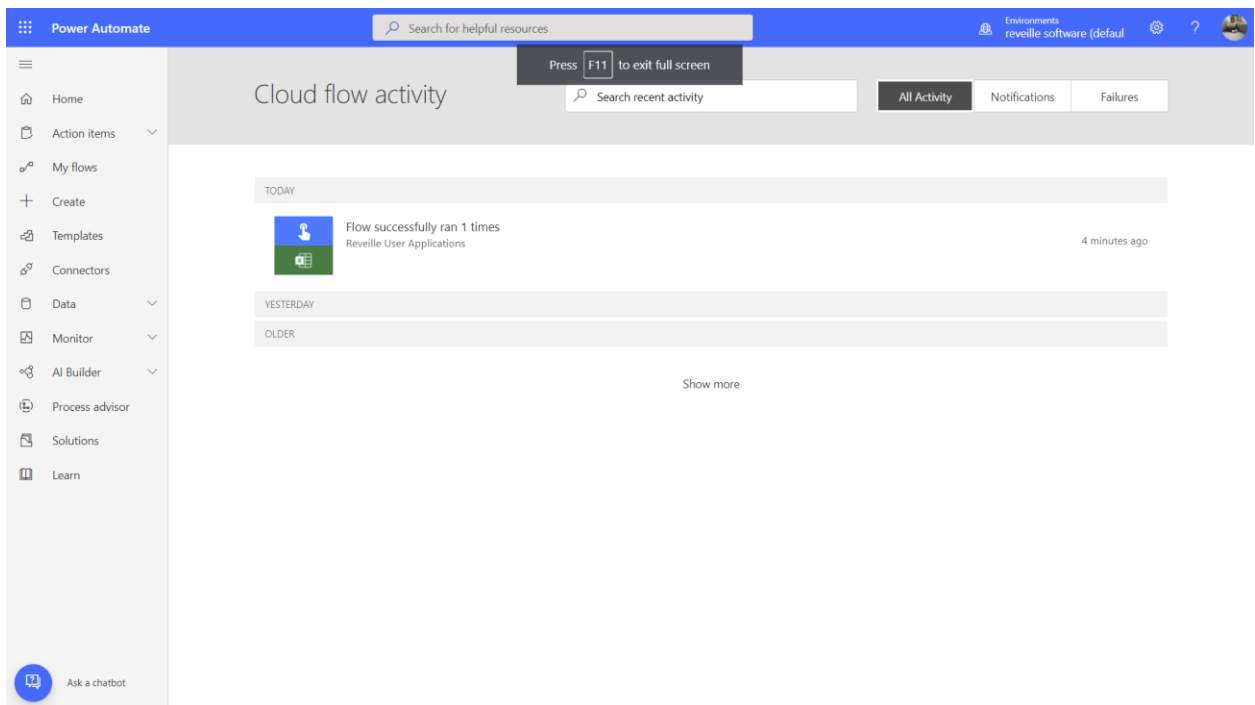


Figure 30: Microsoft Power Automate Reville Cloud Flow Activity

9 Reveille and Microsoft Azure

Reveille has native Azure support for the following Azure services:

- Full Reveille operation with Azure VM
- Reveille collectors in Azure and Reveille servers on premises
- Reveille collectors on-premises and Reveille server in Azure
- Monitoring Azure Blob storage performance and availability
- Notifications using Azure Communication Services (ACS)
- Support for Azure SQL databases and SQL Managed Instances
- Support for Azure PostgreSQL databases
- Support for Azure Key Vault
- Publish Reveille metrics to Azure Monitor
- Reveille event integration with Azure Sentinel (SIEM)
- Reveille event Integration with Azure Log



Figure 31: Reveille Azure Services Support

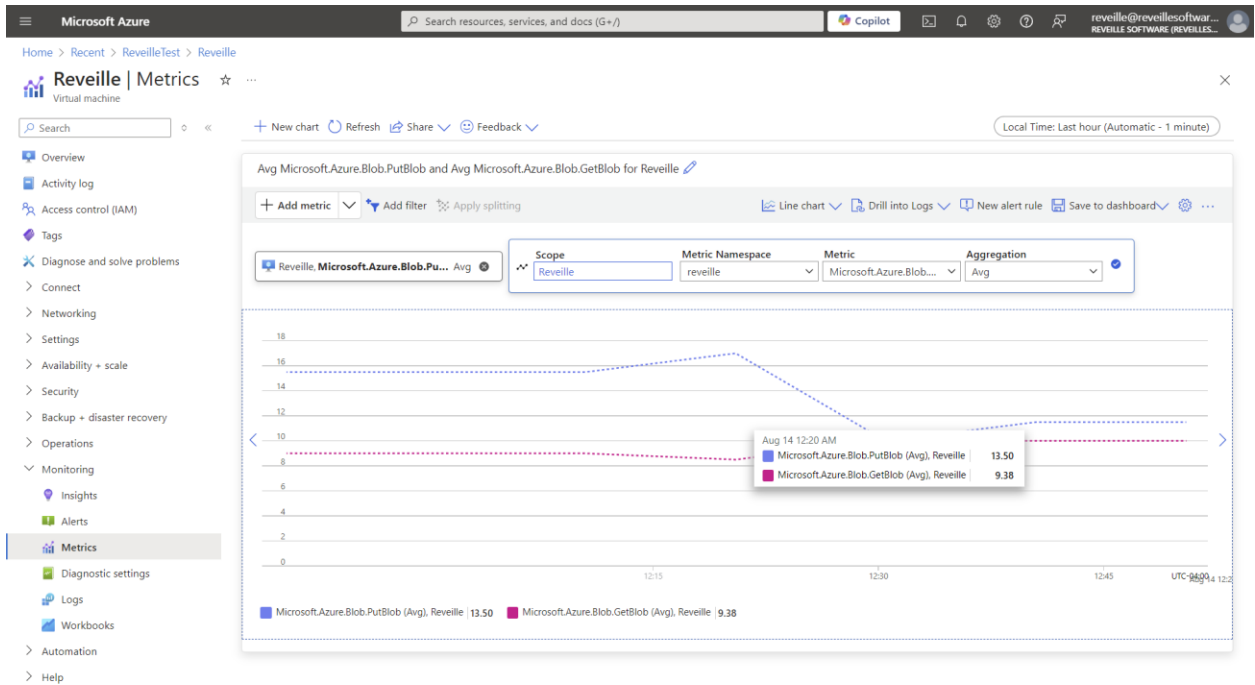


Figure 32: Azure Monitor Metric using Reveille Published Data

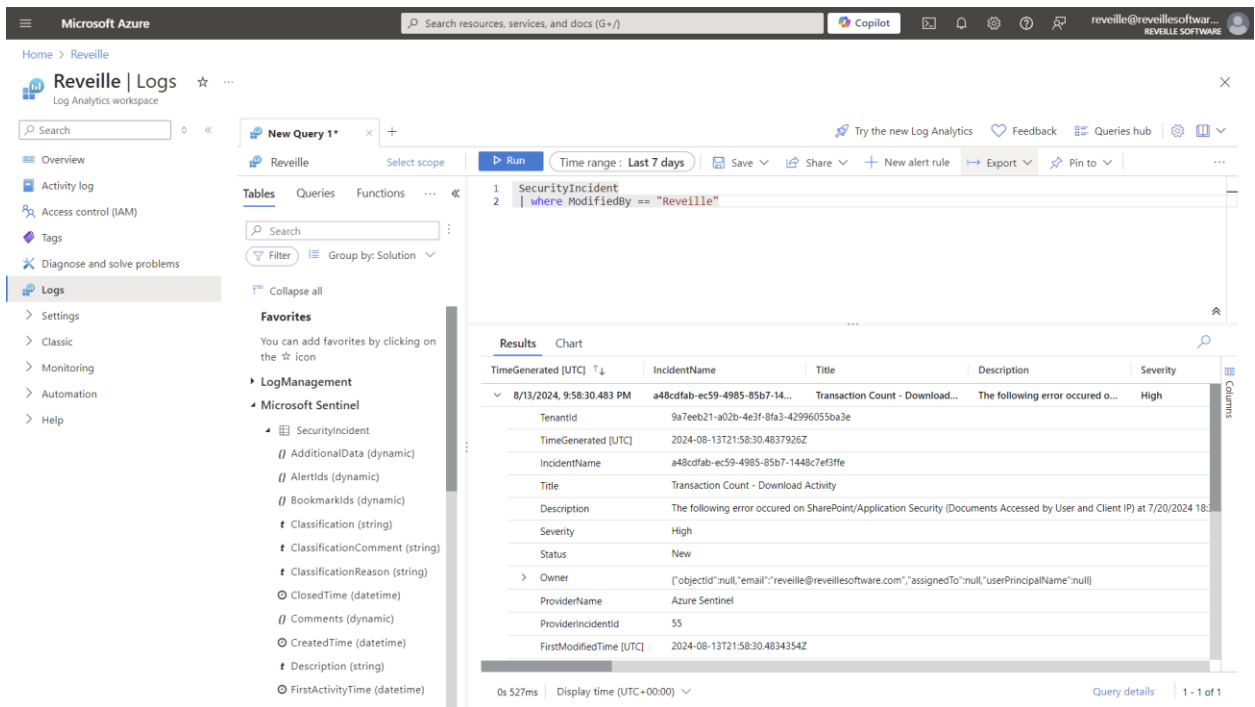


Figure 33: Azure Log Analytics with Reveille Event

Microsoft Azure

Search resources, services, and docs (G+/I)

Copilot

reveille@revellesoftware...

REVELLE SOFTWARE (REVELLES...

All services > Microsoft Sentinel

Microsoft Sentinel | Incidents

Selected workspace: 'reveille'

Search

Create incident (Preview)

Refresh

Last 24 hours

Actions

Delete

Security efficiency workbook

Columns

Guides & Feedback

General

Threat management

Incidents

Workbooks

Hunting

Notebooks

Entity behavior

Threat intelligence

MITRE ATT&CK (Preview)

SOC optimization

Content management

Configuration

1 Open Incidents

1 New Incidents

0 Active Incidents

Open incidents by severity

High (1)

Medium (0)

Low (0)

Informational (0)

Search by ID, title, tags, owner or product

Severity: All

Status: 2 selected

More (3)

Auto-refresh incidents

Severity	Incident number	Title	Alerts	Incident provider na...	Alert product
High	55	Transaction Count - ...	0	Azure Sentinel	

< Previous

1 - 1

Next >

Transaction Count - Download Activity

Incident number 55

reveille@r... Owner

New Status

High Severity

Description

The following error occurred on SharePoint/Application Security (Documents Accessed by User and Client IP) at 7/20/2024 18:38:48 PM PDT: Test Failed: 1 location exceeds the maximum count of 10 documents in the last 5 minutes from Microsoft SharePoint. Users= 'Jack.Smith' Documents= 'contract_review.docx', policy.docx, pe...

Show more

Alert product names

Evidence

Preparing investigation data for this incident. Please try again in a few minutes.

Last update time

08/13/24, 05:58 PM

Creation time

08/13/24, 05:55 PM

Entities (0)

Preparing investigation data for this incident. Please try again in a few minutes.

View full details

Actions

Figure 34: Azure Sentinel with Reveille Event

10 Common Reveille for M365 Use Cases

How can we reduce the amount for manual observation / execution of manual checklists for monitoring SharePoint, SharePoint Online, or SharePoint Embedded?

- Eliminate SharePoint application ‘babysitting’ – observing/tracking/communicating.
- Reduce time for opening incidents with help desk after the fact so incidents are historically tracked.

How can we know who accessed what document from what SharePoint site and when? How can we know when abnormal access has taken place? How can we know what is stored in a Teams channel? Can we do the same for SharePoint, SharePoint Online, SharePoint Embedded, Teams, and OneDrive

- Reveille captures the actual user activity of who accessed what document during what time period to assist with audit/compliance/capacity planning reviews and detecting abnormal security user access patterns.

How can we know M365 Backup is operating as expected and we are not exposed by unknown configuration updates?

- Reveille actively monitors M365 Backup for policy and protections changes and restore activity.

How can we reduce the MTTR (Mean Time To Resolution) and ‘after the fact’ group problem determination meetings/conference calls?

- Reveille proactively communicates degrading conditions when they happen, reducing surprise impacts causing bridge calls that extend manual recovery workflows.

We need to collect key troubleshooting data during the critical moments after an event is detected and communicate to our Azure management teams.

- Reveille collects information that is necessary for troubleshooting issues that is often challenging to obtain manually after the fact. Reveille can send alert notifications via Teams, Sentinel, Azure Logs, or Azure Communication Services.

How can we objectively measure how the SharePoint application environment is performing? How can we have a baseline? How can we compare on-premises SharePoint with SharePoint Online and OneDrive?

- Reveille reports are created that answer questions like: How did we do today? This week or month? How are our KPI's? Examples:
 - Dashboard metrics – SharePoint Site Activity
 - Dashboard metrics – SharePoint Site Performance
 - Dashboard metrics – SharePoint User Activity
 - Dashboard metrics – OneDrive performance and activity
 - Dashboard metrics – Azure Blob performance and activity
 - Dashboard metrics – SharePoint Embedded performance
 - Dashboard metrics – SharePoint Embedded operating exceptions
 - Dashboard metrics – M365 status
 - Dashboard metrics – M365 Backup operating exceptions

How can we implement quickly and leverage best practice monitoring?

- Reveille has a large amount of the box” components for M365 applications used with intelligent process automation solutions
- Reveille's M365 monitor templates jumpstart monitor creation
- The Reveille implementation team has deep content services experience

How can we plan capacity needs to manage user growth?

- Reveille dashboard metrics gather baselines of M365 operating performance
- Reveille User Analytics objectively understands M365 applications user transaction volumes, search hit counts, 'hot' content, query activity, and response times

We need to spend more time on new application delivery and less time on production support in a constrained resource environment.

- The Reveille solution decreases the amount of time spent supporting the M365 applications by:
 - Customers typically see a reduced number of support tickets for M365 applications
 - Customers typically see shortened MTTR for remaining, legitimate application issues
 - Coordination with support resources is greatly enhanced

We need an M365 application monitoring tool that does not require relearning of SharePoint API development, heavy customer ‘integration’ and maintenance, and keeps pace with M365 platform advances.

- Reveille also works ‘out of the box’ with over 30 intelligent automation platforms such as IBM FileNet P8, IBM CMOD Multiplatforms, IBM Datacap, OpenText Documentum, OpenText Intelligent Capture, ABBYY, UiPath, Box, and Tungsten Automation, and maintains currency with Microsoft M365 products
- Reveille Software’s primary focus is on managing intelligent automation solutions such as those built with M365 technology components
- Reveille is a member of the Microsoft Content AI Partner Program (CAPP). CAPP supports strategic Microsoft partners in delivering solutions that transform content management and focus on advanced M365 solutions, which include Microsoft SharePoint, SharePoint Embedded, OneDrive, Purview and more – such as Microsoft 365 Backup, and Microsoft 365 Archive

11 Summary

Reveille for M365, in conjunction with other Reveille wizard tests, deliver unmatched, comprehensive monitors to track, diagnose, repair, and report the M365 specific operational exceptions – with M365 specific metrics and user behavior visibility. Reveille’s agentless approach provides controlled capabilities beyond other agent-based techniques focused just on transaction segment response time. By adding Reveille User Analytics functionality to extend the Reveille core, Reveille delivers complete monitoring of the M365 user activity (at the SharePoint application transaction level) and of the customer experience from the customer location. Reveille for M365 integrates with existing ITOM platforms (such as Splunk or Microsoft Sentinel / Azure Logs) and incident management systems (such as ServiceNow) to extend your existing IT investments.



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