ScienceLogic

Monitoring Microsoft Office 365

Microsoft: Office 365 PowerPack version 107

Table of Contents

Introduction	
What Does the Microsoft: Office 365 PowerPack Monitor?	3
Installing the Microsoft: Office 365 PowerPack	
Configuration and Discovery	6
Configuring Office 365 Monitoring	
Creating an Office 365 Active Directory Application in the Azure Portal	
Adding API Permissions to the Application	
Generating the Secret Key	11
Granting Admin Consent on Enterprise Applications	
Creating a SOAP/XML Credential for Microsoft Office 365	12
Creating a SOAP/XML Credential for Microsoft Office 365 in the SL1 Classic User Interface	14
Creating a REST Snippet Framework Credential for Office 365	16
Testing Your Office 365 Credential	18
Testing Your Office 365 Credential in the SL1 Classic User Interface	19
Discovering Office 365 Devices	20
Creating a Microsoft Office 365 Virtual Device	21
Configuring the Office 365 Device Template	22
Aligning the Device Template to Your Office 365 Virtual Device	23
Viewing Microsoft Office 365 Component Devices	
Relationships Between Component Devices	26

Chapter

Introduction

Overview

This manual describes how to monitor Microsoft Office 365 services in SL1 using the Dynamic Applications in the *Microsoft: Office 365 PowerPack*.

The following sections provide an overview of Microsoft Office 365 and the Microsoft: Office 365 PowerPack:

This chapter covers the following topics:

What Does the Microsoft: Office 365 PowerPack Monitor?	3
Installing the Microsoft: Office 365 PowerPack	5

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What Does the Microsoft: Office 365 PowerPack Monitor?

The Microsoft: Office 365 PowerPack enables you to discover, model, and monitor Office 365 services. The Microsoft: Office 365 PowerPack includes:

- Dynamic Applications that discover, model, and collect data for the following Office 365 resources:
 - ° Azure Information Protection

- ° Bookings
- Dynamics 365
- ° Dynamics CRM Online Service
- ° Dynamics Marketing
- ° Exchange Online Archiving Service
- Exchange Online Protection Service
- Exchange Online Service
- ° Exchange Online Threat Protection
- ° Generic Service
- ° Identity Service
- ° Intune
- Mobile Device Management
- Office Applications Service
- ° Office Online Service
- Office Subscription
- ° OneDrive for Business Service
- ° Planner
- Platform Service
- Portal
- Power BI for Office 365 Service
- ° Power BI Service
- Project Online Service
- Project Pro Service
- ° Rights Management Service
- ° SharePoint Online
- Social Engagement
- ° StaffHub
- ° Sway
- ° Teams
- Yammer Enterprise

- Device Classes for each type of Office 365 resource monitored, plus a generic service Device Class
- Event Policies that are triggered when Office 365 resources meet certain status criteria
- A Device Template that helps align Dynamic Applications to devices
- Sample Credentials for discovering Office 365 resources
- A Credential Test to ensure that your Office 365 credential works as expected

Installing the Microsoft: Office 365 PowerPack

Before completing the steps in this manual, you must import and install the latest version of the *Microsoft*: Office 365 PowerPack.

TIP: By default, installing a new version of a PowerPack overwrites all content from a previous version of that PowerPack that has already been installed on the target system. You can use the *Enable Selective PowerPack Field Protection* setting in the **Behavior Settings** page (System > Settings > Behavior) to prevent new PowerPacks from overwriting local changes for some commonly customized fields. (For more information, see the *System Administration* manual.)

To download and install a PowerPack:

- Download the PowerPack from the ScienceLogic Support Site at https://support.sciencelogic.com/s/powerpacks.
- 2. Go to the **PowerPack Manager** page (System > Manage > PowerPacks).
- 3. In the **PowerPack Manager** page, click the **[Actions]** button, then select *Import PowerPack*. The **Import PowerPack** dialog box appears:

Im	oort PowerPack™	×
	Browse for file Browse License: Import	

- 4. Click the [Browse] button and navigate to the PowerPack file.
- 5. When the **PowerPack Installer** modal appears, click the **[Install]** button to install the PowerPack.

NOTE: If you exit the **PowerPack Installer** modal without installing the imported PowerPack, the imported PowerPack will not appear in the **PowerPack Manager** page. However, the imported PowerPack will appear in the **Imported PowerPacks** modal. This page appears when you click the **[Actions]** menu and select *Install PowerPack*.

Chapter

2

Configuration and Discovery

Overview

The following sections describe how to configure Microsoft Office 365 services for monitoring by SL1 using the *Microsoft: Office 365 PowerPack:*

This chapter covers the following topics:

Configuring Office 365 Monitoring	6
Creating a SOAP/XML Credential for Microsoft Office 365	12
Creating a REST Snippet Framework Credential for Office 365	16
Testing Your Office 365 Credential	18
Discovering Office 365 Devices	20
Viewing Microsoft Office 365 Component Devices	24
Relationships Between Component Devices	26

Configuring Office 365 Monitoring

To create a SOAP/XML credential that allows SL1 to access Microsoft Office 365, you must provide the following information about an Office 365 application that is already registered with an Active Directory tenant in Microsoft Azure:

- Application ID
- Tenant ID
- Secret Key

To capture the above information, you must first create or use an existing an Office 365 application that is registered with Azure Active Directory. The application must have access permissions for Office 365 Management APIs and Microsoft Graph APIs. You can then enter the required information about the application when configuring the SOAP/XML credential in SL1. The registered application and the ScienceLogic credential allow SL1 to retrieve information from Office 365.

The following sections describe how to create a registered application, add the appropriate API permissions, and capture the application ID, tenant ID, and secret key.

Creating an Office 365 Active Directory Application in the Azure Portal

When configuring a SOAP/XML credential in SL1, you must provide the application ID, tenant ID, and secret key of an Office 365 application that is registered with Azure Active Directory. You use this registered application to authenticate your Office 365 account.

NOTE: You must have Service Administrator rights to create an Active Directory application.

To create an Office 365 application on the Azure portal and register it with Azure Active Directory:

- 1. Log in to the Azure portal at <u>https://portal.azure.com</u> and type "App registrations" in the **Search** field at the top of the window.
- 2. From the search results, select App registrations. The **App registrations** page appears.
- 3. Click the [New registration] button.

Home > App registrations				
App registrations				Ś
➡ New registration	V Got feedback?			
Welcome to the new and improved App registrations (now G	enerally Available). See what's new 🔿			
Looking to learn how it's changed from App registration Still want to use App registrations (Legacy)? Go back an All applications Owned applications O Start typing a name or Application ID to filter these results				
DISPLAY NAME	APPLICATION (CLIENT) ID	CREATED ON	CERTIFICATES & SECRETS	

- 4. When the **Register an application page** appears, enter your application's registration information:
 - Name. Type a name for the application.
 - **Supported account types**. Select the account types that you want to be supported in your application.
 - **Redirect URI (optional)**. Select Web in the drop-down menu and type a valid URL. For example: https://localhost.com.

Home > App registrations > Register an a	pplication
Register an application	
* Name	
The user-facing display name for this applica	ation (this can be changed later).
ScienceLogic Monitoring - Office 365	
Supported account types	
Who can use this application or access this A	API?
• Accounts in this organizational directory	y only (azureteamsciencelogic (Default Directory))
O Accounts in any organizational directory	/
O Accounts in any organizational directory	y and personal Microsoft accounts (e.g. Skype, Xbox, Outlook.com)
Help me choose	
Redirect URI (optional)	
	this URI after successfully authenticating the user. Providing this now is value is required for most authentication scenarios.
Web Ve.g.	https://myapp.com/auth
By proceeding, you agree to the Microsoft P	latform Policies 🖸
Register	

5. Click the **[Register]** button. The **Overview** page for your new application appears.

6. On the **Overview** page for your new application, copy and save the values in the Application (client) ID and Directory (tenant) ID fields. You will need these values when creating your Office 365 credential in SL1.

Home > App registrations > ScienceLog	ic Monitoring - Office 365		
ScienceLogic Monitoring	- Office 365		\$
Search (Ctrl+,/) ≪	🛅 Delete 🔀 Endpoints		
u Overview	Welcome to the new and improved App registrations. Looking to learn how it	's changed from App registrations (Legacy)? Learn more	×
📣 Quickstart			
Manage	Display name : ScienceLogic Monitoring - Office 365	Supported account types : My organization only	
5 Branding	Application (client) ID :	Redirect URIs : Add a Redirect URI	
Authentication	Directory (tenant) ID :	Managed application in : ScienceLogic Monitoring - Office 365	
💡 Certificates & secrets	Object ID :	*	
API permissions		~	
Expose an API	Call APIs	Documentation	
Owners		Microsoft identity platform	
100 Manifest		Authentication scenarios Authentication libraries	
Support + Troubleshooting	💵 🦳 💶 🐢	Code samples Microsoft Graph	
X Troubleshooting	Build more powerful apps with rich user and business data	Glossary Help and Support	
New support request	from Microsoft services and your own company's data		
	sources.		
	View API Permissions		
	Sign in users in 5 minutes		

Adding API Permissions to the Application

Your Office 365 application must have access permissions for Microsoft Graph APIs and Office 365 Management APIs to be monitored in SL1.

To add API permissions to application:

- 1. From the page for your new application, click [View API Permissions].
- 2. Click **[Add a permission]**, then click the **Microsoft Graph** option.

 ScienceLogic Monitoring - Office 365 - API permissions Search (Ctrl-v) Search (Ctrl-v) Search (Ctrl-v) Search (Ctrl-v) Search (Ctrl-v) API permissions Aplications are authorized to use APIs by requesting permissions are authorized to use APIs by requesting permissions are authorized to use APIs by requesting permissions And permissions Authentication Certificates & scerets And permissions dynamically through code. See best prior Certificates & scerets Conners Grant consent A an administrator, you can grant consent on behalf of alfing New support request Support + Troubleshooting New support request 	Home > App registrations > ScienceLo	gic Monitoring - Office 365 - API permissions	Request API permissions		
▶ Swarch (Carl+A) ▲ Pl permissions ▲ Quickstart ▲ anage ■ Branding ④ Authentication ▲ Add a permissions NAME ▲ Add a permissions dynamically through code. See best pract Branding ④ Owners ■ Manifest Support + Toubleshooting ★ Troubleshooting ③ New support request An administrator, you can grant consent for azuretasmsclencelogic (Default D) Orfact 265 Management APis	0	g - Office 365 - API permissions	Select an API		
Applications of a autorized to decard by requesting permissions Applications are autorized to decard by requesting permissions dynamically through code. See best pract As an administrator, you can grant consent on behalf of ally means that end users will not be shown a consent screen w Troubleshooting New support request Controlly Used Microsoft Arris Controlly Used Micro	O Search (Ctrl+/)	API permissions	Microsoft APIs APIs my organization	nuses My APIs	
Manage Add a permission Anage AP / PRMISSION NAME Authentication AP / PRMISSION NAME Certificates & sacrets Microsoft Graph (1) User,Read User,Read Certificates & sacrets These are the permissions that this application requests stat able permissions dynamically through code. See best practiable permissions dynamically through code. See best practiable permissions that this application requests stat able permissions dynamically through code. See best practiable permissions that this application requests stat able permissions dynamically through code. See best practiable permissions dynamically through code. See best practiable permissions that this application requests stat able permissions dynamically through code. See best practiable code distributions of the code					
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Image: Control and solution of the service of the	-	▼ Microsoft Graph (1)			
Construction of the second secon	Certificates & secrets	User.Read	Azure Batch	Azure DevOps	Azure Key Vault
Image: Manifest Grant consent Support + Troubleshooting As an administrator, you can grant consent on behalf of all means that end users will not be shown a consent screen will not be shown a consent screen will not be shown a consent screen will not be shown a consent for azuretsamsclencelogic (Default D)					keys, secrets, and certificates within your
Support + Troubleshooting As an administrator, you can grant consent on behalf of alls means that end users will not be shown a consent screen will not be shown a consent screen will not be shown a consent for azureteamsclencelogic (Default D) Programmatic access to much of the functionality available through the Azure praties Secure, massively scalable object and data lake storage for unstructured ata and functionality in Dynamics 365 Business X Troubleshooting Grant adminiscreases (Default D) Office 365 Management APis Secure, massively scalable object and data lake storage for unstructured data	Owners				
Support + Troubleshooting Deam of main consent for azureteamsciencelogic (Default D) functionality available through the Azure portal data lake storage for unstructured and semi-structured and semi-structured data functionality available through the Azure portal % Troubleshooting Grant admin consent for azureteamsciencelogic (Default D) functionality available through the Azure portal data lake storage for unstructured and semi-structured and semi-st	III Manifest	Grant consent	Azure Service Management	Azure Storage	• Dynamics 365 Business Central
X Troubleshooting Grant admin consent for azureteamsciencelogic (Default D) Image: New support request Image: Office 365 Management APIs	Support + Troubleshooting		functionality available through the Azure	data lake storage for unstructured and	functionality in Dynamics 365 Business
U Office 365 Management APIs S Skype for Business	★ Troubleshooting	Grant admin consent for azureteamsciencelogic (Default Di	portar		Centur
	New support request		Office 365 Management APIs	S SharePoint	Skype for Business
Rettive information about user, admin, system, and policy actions and events from Office 365 and Azure AD activity call and activity call				Interact remotely with SharePoint data	

- 3. In the Request API permissions pane, click Application permissions.
- 4. Click the arrow next to **Directory** to open the sub-menu, and then select the checkbox for the *Directory.Read.All* permission.

	Monitoring - Office 365 - API permissions	Request API permissions
ScienceLogic Monitori	ng - Office 365 - API permissions	CAll APIs Device
	API permissions	DeviceManagementApps
Overview	Applications are authorized to use APIs by requesting	DeviceManagementConfiguration
🗳 Quickstart	grant/deny access.	DeviceManagementManagedDevices
Manage	API / PERMISSIONS NAME	DeviceManagementRBAC
🚾 Branding		DeviceManagementServiceConfig
Authentication	✓ Microsoft Graph (1)	▼ Directory (1)
Y Certificates & secrets	User.Read	Directory.Read.All
API permissions	These are the permissions that this application request able permissions dynamically through code. See best	Directory.Read.All Read directory data
Expose an API	able permissions dynamically through each oce beac	Directory.ReadWrite.All Read and write directory data
Owners		> Domain
🔟 Manifest	Grant consent	EduAdministration
Support + Troubleshooting	As an administrator, you can grant consent on behalf (means that end users will not be shown a consent scre	
★ Troubleshooting	Grant admin consent for azureteamsciencelogic (Defi	EduAssignments
New support request		▶ EduRoster
		Externalitem
		▶ Files
		Add permissions Discard

5. Click the arrow next to **ServiceHealth** to open the sub-menu, and then select the checkbox for the ServiceHealth.Read.All permission.

Home > App registrations > Sciencelo		Request API permissions	×
	oring - Office 365 API permissions 🛷 …	K All APIs	
✓ Search (Ctrl+/) «	🕐 Refresh 🔰 🕂 Got feedback?	> Security/incident	•
Overview	A You are editing permission(s) to your application, users will have to consent even if		
Quickstart		ServiceHealth (1)	
🚀 Integration assistant		ServiceHealth.Read.All O Read.service health Yes	
Manage	The "Admin consent required" column shows the default value for an organization. where this app will be used. Learn more		
Branding & properties		> ServiceMessage	
Authentication	Configured permissions	> ServicePrincipalEndpoint	
📍 Certificates & secrets	Applications are authorized to call APIs when they are granted permissions by users all the permissions the application needs. Learn more about permissions and conser		
Token configuration	an de permissions die application needs, cean note about permissions and conser	> ShortNotes	
API permissions	+ Add a permission 🗸 Grant admin consent for uajms	> Sites	
🗠 Expose an API	API / Permissions name Type Description	· ·····	
App roles	V Microsoft Graph (2)	> TeamMember	
🚨 Owners	Directory.Read.All Application Read directory data	X a second	
8 Roles and administrators Preview	User.Read Delegated Sign in and read user profile	> TeamsActivity	
Manifest		> TeamsAppInstallation	- 1
Support + Troubleshooting	To view and manage permissions and user consent, try Enterprise applications.	> TeamsApp	- 1
P Troubleshooting			- 1
New support request		> TeamSettings	
		> TeamsTab	-
4		Add permissions Discard	

- 6. On the API permissions page, click [Grant admin consent for [Directory Name]].
- 7. A pop-up window appears asking if you grant consent for the required permissions for all accounts in your directory. Click **[Yes]**.

Generating the Secret Key

When configuring a SOAP/XML credential for Office 365 in SL1, you need to provide a secret key for the Office 365 Active Directory application that you will use to authenticate your account.

To generate a secret key:

- 1. From the Azure portal, type "Active Directory" in the **Search** field at the top of the window.
- 2. From the search results, select Azure Active Directory, and then click App registrations on the left pane.
- 3. Select your Office 365 app from the list.
- 4. Click [Certificates & secrets] on the left pane.
- 5. In the Client secrets pane, click [+ New client secret].

Home > azureteamsciencelogic (Default	Directory) - App registrations > ScienceLogic Monitoring - Office 365 - Certificates & secrets
💡 ScienceLogic Monitoring	g - Office 365 - Certificates & secrets
Search (Ctrl+/)	Credentials enable applications to identify themselves to the authentication service when receiving tokens at a web addressable location (using an HTTPS scheme). For a higher level of assurance, we recommend using a certificate (instead of a client secret) as a credential.
🗳 Quickstart	Certificates
Manage	Certificates can be used as secrets to prove the application's identity when requesting a token. Also can be referred to as public keys.
Branding	↑ Upload certificate
Authentication	No certificates have been added for this application.
♀ Certificates & secrets	
- API permissions	THUMBPRINT START DATE EXPIRES
Expose an API	
Owners	Client secrets
10 Manifest	A secret string that the application uses to prove its identity when requesting a token. Also can be referred to as application password.
Support + Troubleshooting	+ New client secret
🗙 Troubleshooting	DESCRIPTION EXPIRES VALUE
New support request	No client secrets have been created for this application.

- 6. In the **Add a client secret** pane, type a name in the **Description** field and select a duration in the **Expires** field.
- 7. Click [Add] to generate the secret key. A new key value displays in the Client secrets pane.
- 8. Copy and save the key value.

Granting Admin Consent on Enterprise Applications

Your Office 365 Enterprise application must have tenant-wide admin consent to be monitored and pass the credential test by SL1. For more information on granting admin consent, see <u>the Microsoft documentation on</u> granting admin consent in Enterprise apps.

Creating a SOAP/XML Credential for Microsoft Office 365

To configure SL1 to monitor Microsoft Office 365, you must create a SOAP/XML credential. This credential allows the Dynamic Applications in the *Microsoft: Office 365* PowerPack to communicate with your Office 365 account.

NOTE: If you are using an SL1 system prior to version 11.1.0, the new user interface does not include the Duplicate option for sample credential(s). ScienceLogic recommends that you use the classic user interface and the Save As button to create new credentials from sample credentials. This will prevent you from overwriting the sample credential(s).

If you want to connect to your Office 365 account through a third-party proxy server, you must also add the proxy information in the credential.

The Microsoft: Office 365 PowerPack includes two example SOAP/XML credentials that you can use as templates for creating SOAP/XML credentials for Office 365. They are:

- Office 365 Cred Proxy Example, for users who connect to Office 365 through a third-party proxy server
- Office 365 Credential Example, for all other users

To configure a SOAP/XML credential to access Microsoft Office 365:

- 1. Go to the **Credentials** page (Manage > Credentials).
- 2. Locate the sample credential you want to use, click its **[Actions]** icon (--) and select **Duplicate**. A copy of the credential appears.
- 3. Click the [Actions] icon (--) for the copied credential and select *Edit*. The Edit Credential modal page appears.
- 4. Enter values in the following fields:

Name* Office 365 Credential Examp	ole copy				Credential Tester	
II Organizations	Select the organizations the credential I	elongs to * 👻	Timeout (ms) 120000		Select Credential Test	
Content Encoding text/xml	Method ~ POST	HTTP ~ http:		~	Select Collector	
uRL* https://%D				1	P or Hostname to test*	Test Credentia
HTTP Auth User		HTTP Auth Password				
Proxy Hostname/IP		Proxy Port 0				
optional Proxy User		Proxy Password				
optional Embedded Password [16P]						
Embed Value [%1] <app id=""></app>		Embed Value [%2] <tenant_id></tenant_id>				

- Name. Type a new name for the Microsoft Office 365 credential.
- All Organizations. Toggle on (blue) to align the credential to all organizations, or toggle off (gray) and then select one or more specific organizations from the What organization manages this service? drop-down field to align the credential with those specific organizations.
- URL. Type "https://%D".
- HTTP Auth User. Leave this field blank.
- HTTP Auth Password. Leave this field blank.
- **Proxy Hostname/IP**. If you are connecting to Office 365 via a proxy server, type the server's hostname or IP address. Otherwise, leave this field blank.
- **Proxy Port**. If you are connecting to Office 365 via a proxy server, type the port number you opened when setting up the proxy server. Otherwise, leave this field blank.
- **Proxy User**. If you are connecting to Office 365 via a proxy server using basic authentication, type the server's administrator username. Otherwise, leave this field blank.
- **Proxy Password**. If you are connecting to Office 365 via a proxy server using basic authentication, type the server's administrator password. Otherwise, leave this field blank.
- Embedded Password [%P]. Type the secret key for the Office 365 Active Directory application.
- Embed Value [%1]. Type the Application ID for the Office 365 Active Directory application.
- Embed Value [%2]. Type the Tenant ID for the Office 365 Active Directory application.
- Embed Value [%3]. Leave this field blank.
- Embed Value [%4]. Leave this field blank.
- HTTP Headers. The following headers are added by default:
 - Content-Type: application/json. Leave the default value that appears in this field.
 - %silo token-Authorization:Bearer. Leave the default value that appears in this field.

- Logging:False/True. The default value of this field is "Logging:False". If you would like your credential to gather event information and errors to display in the /var/log/em7/snippet_framework.log log file, set the value of this field to "Logging:True".
- **SSL Cert**. The default value of this field is "True". You can also replace this value with your SSL certificate path. If your SSL certificate is expired or if you do not want extra security, set the value of this field to "False".
- 5. For all other fields, use the default values.
- 6. Click the [Save & Close] button.

NOTE: If you would like to test your credential using the Credential Tester panel, click [Save & Test]. For detailed instructions on using the Credential Tester panel, see the Testing Your Office 365 Credential section.

Creating a SOAP/XML Credential for Microsoft Office 365 in the SL1 Classic User Interface

To configure SL1 to monitor Microsoft Office 365, you must create a SOAP/XML credential. This credential allows the Dynamic Applications in the *Microsoft: Office 365* PowerPack to communicate with your Office 365 account.

If you want to connect to your Office 365 account through a third-party proxy server, you must also add the proxy information in the credential.

The Microsoft: Office 365 PowerPack includes two example SOAP/XML credentials that you can use as templates for creating SOAP/XML credentials for Office 365. They are:

- Office 365 Cred Proxy Example, for users who connect to Office 365 through a third-party proxy server
- Office 365 Credential Example, for all other users

To configure a SOAP/XML credential to access Microsoft Office 365:

- 1. Go to the Credential Management page (System > Manage > Credentials).
- 2. Locate the sample credential you want to use and then click its wrench icon (*P*). The Edit SOAP/XML Credential modal page appears.

3. Enter values in the following fields:

Credential Editor [102]	×
Edit SOAP/XML Credential #102	New Reset
Basic Settings Profile Name Content Encoding Method HTTP Version [Office 365 Cred Proxy Example [[text/xml] V] [[POST] V] [[HTTP/1.1] V] URL [http(s)://Host:Port/Path I %D = Aligned Device Address I %N = Aligned Device Host Name] [https://%D	Soap Options Embedded Password [%•P] Embed Value [%•1] Embed Value [%•1] Embed Value [%•2] <app_id> Embed Value [%•3] Embed Value [%•4]</app_id>
Proxy Settings A Hostname/IP Port User 0 (PROXY_USER)	HTTP Headers + Add a header Content-Type: application/json
CURL Options CAINFO CAPATH CLOSEPOLICY CONNECTTIMEOUT COOKIE COOKIEFILE COOKIEJAR COOKIELIST CRLF CUSTOMREQUEST DNSCACHETIMEOUT	%silo_token=Authorization:Bearer Image: Searer Logging:False Image: Searer
Save Save As	

Basic Settings

- Profile Name. Type a new name for the Microsoft Office 365 credential.
- URL. Type "https://%D".
- HTTP Auth User. Leave this field blank.
- HTTP Auth Password. Leave this field blank.

Proxy Settings

- Hostname/IP. If you are connecting to Office 365 via a proxy server, type the server's hostname or IP address. Otherwise, leave this field blank.
- **Port**. If you are connecting to Office 365 via a proxy server, type the port number you opened when setting up the proxy server. Otherwise, leave this field blank.
- **User**. If you are connecting to Office 365 via a proxy server using basic authentication, type the server's administrator username. Otherwise, leave this field blank.
- **Password**. If you are connecting to Office 365 via a proxy server using basic authentication, type the server's administrator password. Otherwise, leave this field blank.

CURL Options

• **SSL Cert**. The default value of this field is "True". You can also replace this value with your SSL certificate path. If your SSL certificate is expired or if you do not want extra security, set the value of this field to "False".

SOAP Options

- Embedded Password [%P]. Type the secret key for the Office 365 Active Directory application.
- Embed Value [%1]. Type the Application ID for the Office 365 Active Directory application.
- Embed Value [%2]. Type the Tenant ID for the Office 365 Active Directory application.
- Embed Value [%3]. Leave this field blank.
- Embed Value [%4]. Leave this field blank.

HTTP Headers

- HTTP Headers. The following headers are added by default:
 - Content-Type: application/json. Leave the default value that appears in this field.
 - %silo_token-Authorization:Bearer. Leave the default value that appears in this field.
 - Logging:False/True. The default value of this field is "Logging:False". If you would like your credential to gather event information and errors to display in the /var/log/em7/snippet_framework.log log file, set the value of this field to "Logging:True".
- 4. For all other fields, use the default values.
- 5. Click the **[Save As]** button.

Creating a REST Snippet Framework Credential for Office 365

If you are using the REST snippet framework, you must also configure a REST snippet framework credential.

If you want to connect to your Office 365 account through a third-party proxy server, you must also add the proxy information in the credential.

To configure a REST snippet framework credential to access Microsoft Office 365:

- 1. Go to the **Credentials** page (Manage > Credentials).
- 2. Click the [Create New] button.
- 3. Click Create Rest snippet framework Credential.
- 4. Enter values in the following fields:

Name*					
Auto_Office_365_UCF					Credential Tester
M Organizations Select the organizations the cre	edential belongs to '		Timmout (mi) 3000		Select Credential Test
					Select Collector
Authentication Type CAuth2					
Cient ID		Client Secret			IP or Hostname to test "
<app_id> Year application's Client ID</app_id>		Your application's Client Secret			Text Credentia
URL https://graph.microsoft.com					
URL that should be used to retrieve device data (http://Host.Port/Path)					
Access Toles URL https://login.microsoftonline.com/ <tenant_jd>/oauth2/v2.0/token URL for generating the Oauth2 takes</tenant_jd>		Deby Time to Next Request (seconds).			
Request Header	Takan Format		Response Token Vay		
Authorization The header utilized when making requests with the tolen	Bearer {}	ared and sent. The troical format is "Bearer II" but	access_token The key that contains the taken within the JSON response		
Ountrà Giure Tone Client Credontialis Client autoritation Baski Auth				<u> </u>	
tasso Paul Tolen Scope https://graph.microsoft.com/.default					
Specify scope for client credential grant type. Dean Refresh Instimentation					
None v					
SSL Pear Verly Tirue		Logging Debug True		~	
Proxy Settings OD					
				Save & Test	
					Same & Plan

- Name. Type a new name for the Microsoft Office 365 credential.
- All Organizations. Toggle on (blue) to align the credential to all organizations, or toggle off (gray) and then select one or more specific organizations from the What organization manages this service? drop-down field to align the credential with those specific organizations.
- Authentication Type. Select OAuth2.
- Client ID. Enter the Application ID for the Office 365 Active Directory application.
- Client Secret. Enter the secret key for the Office 365 Active Directory application.
- URL. Enter "https://graph.microsoft.com".
- Access Token URL. Enter the following URL with your Tenant ID included where indicated: https://login.microsoftonline.com/<TENANT ID>/oauth2/v2.0/token
- Request Header. Enter "Authorization".
- Token Format. Enter "Bearer {}".
- Response Token Key. Enter "Access Token".
- Oauth2 Grant Type. Select Client Credentials.
- Client auth method. Leave the default value that appears in this field.
- Token Scope. Enter "https://graph.microsoft.com/default".
- Token Refresh Implementation. Leave the default value that appears in this field.
- SSL Peer Verify. The default value of this field is "True". If you do not want extra security, set the value of this field to "False".
- Logging Debugging. The default value of this field is *False*. If you would like your credential to gather event information and errors to display in the /var/log/em7/snippet_framework.log log file, set the value of this field to *True*.

- **Proxy Hostname/IP**. If you are connecting to Office 365 via a proxy server, type the server's hostname or IP address. Otherwise, leave this field blank.
- **Proxy Port**. If you are connecting to Office 365 via a proxy server, type the port number you opened when setting up the proxy server. Otherwise, leave this field blank.
- **Proxy User**. If you are connecting to Office 365 via a proxy server using basic authentication, type the server's administrator username. Otherwise, leave this field blank.
- **Proxy Password**. If you are connecting to Office 365 via a proxy server using basic authentication, type the server's administrator password. Otherwise, leave this field blank.
- 5. Click the **[Save & Close]** button.

Testing Your Office 365 Credential

The Microsoft: Office 365PowerPack includes a Credential Test for Office 365. Credential Tests define a series of steps that SL1 can execute on demand to validate whether a credential works as expected.

The "Office 365 Credential Test" can be used to test a SOAP/XML credential for monitoring Office 365 using the Dynamic Applications in the *Microsoft: Office 365*PowerPack.

The "Office 365 Credential Test" performs the following steps:

- **Test Port Availability**. Performs an NMAP request to test the availability of the Office 365 endpoint HTTPS port.
- Test Name Resolution. Performs an nslookup request on the Office 365 endpoint.
- Make connection to Office 365 Graph API. Attempts to connect to the Office 365 Graph API using the account information specified in the credential.

NOTE: The Office 365 credential test may fail on the last step in versions 106 and earlier of the PowerPack. If the credential fields are correct, you may go ahead and attempt discovery of the Office 365 account.

To test the Office 365 credential:

- 1. Go to the **Credentials** page (Manage > Credentials).
- 2. Locate the SOAP/XML credential that you created, click the Actions button (--), and then select Test.
- 3. The **Credential Test Form** modal page appears. Fill out the following fields on this page:
 - Credential Select. This field is pre-populated with the credential you selected
 - Select Credential Test. Select the Office 365 Credential Test.
 - Collector. Select the All-In-One Appliance or Data Collector that will run the test.
 - IP or Hostname to Test. Type "graph.microsoft.com".
- 4. Click [Run Test] button to run the credential test. The Testing Credential window appears.

The **Testing Credential** window displays a log entry for each step in the credential test. The steps performed are different for each credential test. The log entry for each step includes the following information:

- Step. The name of the step.
- **Description**. A description of the action performed during the step.
- Log Message. The result of the step for this execution of the credential test.
- **Status**. Whether the result of this step indicates the credential and/or the network environment is configured correctly (Passed) or incorrectly (Failed).
- **Step Tip**. Mouse over the question mark icon (?) to display the tip text. The tip text recommends what to do to change the credential and/or the network environment if the step has a status of "Failed".

Testing Your Office 365 Credential in the SL1 Classic User Interface

The Microsoft: Office 365 PowerPack includes a Credential Test for Office 365. Credential Tests define a series of steps that SL1 can execute on demand to validate whether a credential works as expected.

The "Office 365 Credential Test" can be used to test a SOAP/XML credential for monitoring Office 365 using the Dynamic Applications in the *Microsoft: Office 365* PowerPack.

The "Office 365 Credential Test" performs the following steps:

- Test Port Availability. Performs an NMAP request to test the availability of the Office 365 endpoint HTTPS port.
- Test Name Resolution. Performs an nslookup request on the Office 365 endpoint.
- Make connection to Office 365 Graph API. Attempts to connect to the Office 365 Graph API using the account information specified in the credential.

NOTE: The Office 365 credential test may fail on the last step in versions 106 and earlier of the PowerPack. If the credential fields are correct, you may go ahead and attempt discovery of the Office 365 account.

To test the Office 365 credential:

1. Go to the Credential Test Management page (System > Customize > Credential Tests).

2. Locate the Office 365 Credential Test and click its lightning bolt icon (). The Credential Tester modal page appears:

Credential Tester [BETA]	×
Test Type	[Office365 Credential Test]	•
Credential	Office 365 Credential - SOAP/XML	•
Hostname/IP		
Collector	50C-PATCH-DCU-27	•
	Run Test	

- 3. Supply values in the following fields:
 - Test Type. This field is pre-populated with the credential test you selected.
 - **Credential**. Select the credential to test. This drop-down list includes only credentials that you have access to that can be tested using the selected credential test.
 - Hostname/IP. Leave this field blank.
 - Collector. Select the All-In-One Appliance or Data Collector that will run the test.
- 4. Click the **[Run Test]** button. The **Test Credential** window appears, displaying a log entry for each step in the credential test. The steps performed are different for each credential test. The log entry for each step includes the following information:
 - Step. The name of the step.
 - **Description**. A description of the action performed during the step.
 - Log Message. The result of the step for this credential test.
 - **Status**. Whether the result of this step indicates the credential or the network environment is configured correctly (Passed) or incorrectly (Failed).
 - Step Tip. Mouse over the question mark icon (C) to display the tip text. The tip text recommends what to do to change the credential or the network environment if the step has a status of "Failed".

Discovering Office 365 Devices

To discover and monitor your Office 365 devices, you must do the following:

- Create a virtual device representing the Office 365 service
- Configure the device template that is included in the Microsoft: Office 365 PowerPack
- Align the device template to the Office 365 virtual device

Each of these steps is documented in the following sections.

TIP: If you have multiple Office 365 subscriptions you want to monitor, you should create a separate virtual device, credential, and device template for each root device. You can also create different organizations for each Office 365 subscription.

Creating a Microsoft Office 365 Virtual Device

Because the Microsoft Office 365 service does not have an IP address, you cannot discover an Office 365 device using discovery. Instead, you must create a **virtual device** that represents the root device for the Office 365 service. A virtual device is a user-defined container that represents a device or service that cannot be discovered by SL1. You can use the virtual device to store information gathered by policies or Dynamic Applications.

To create a virtual device that represents your Office 365 service:

- 1. Go to the **Device Manager** page (Devices > Device Manager, or Registry > Devices > Device Manager in the SL1 classic user interface).
- 2. Click the **[Actions]** button and select Create Virtual Device from the menu. The **Virtual Device** modal page appears.
- 3. Enter values in the following fields:

Virtual Device		×
Create Virtual Device		Reset
Device Name	Microsoft Office 365 Service	
Organization	Cloud	•
Device Class	Microsoft Office 365 Account	•
Collector	Collector01	T
	Add	

- **Device Name**. Enter a name for the device. For example, you could enter "Microsoft Office 365 Service" in this field.
- **Organization**. Select the organization for this device. The organization you associate with the device limits the users that will be able to view and edit the device. Typically, only members of the organization will be able to view and edit the device.
- Device Class. Select Microsoft | Office 365 Account.
- Collector. Select the collector group that will monitor the device.
- 4. Click the **[Add]** button to create the virtual device.

Configuring the Office 365 Device Template

The *Microsoft:* Office 365 PowerPack includes the "Microsoft: Office 365 Template", which you can use to create a device template for your own Office 365 account. This device template enables SL1 to align all of the necessary Dynamic Applications to the Office 365 root component device.

Before you can use the "Microsoft: Office 365 Template", you must give the template a new name and configure it so that each Dynamic Application in the template aligns with the credential you created earlier.

To configure the Office 365 device template:

- 1. Go to the **Configuration Templates** page (Devices > Templates, or Registry > Devices > Templates in the SL1 classic user interface).
- 2. Locate the "Microsoft: Office 365 Template" and click its wrench icon (*P*). The **Device Template Editor** modal page appears.
- 3. In the **Template Name** field, type a new name for the device template.
- 4. Click the [Dyn Apps] tab. The Editing Dynamic Application Subtemplates page appears.
- 5. In the **Subtemplate Selection** pane, click the first Dynamic Application name, then select your Office 365 credential in the Credentials field in the Dynamic Application Settings pane.
- 6. Repeat step 5 for each of the Dynamic Applications listed in the **Subtemplate Selection** pane.

Device Template Editor Editing Dynamic	Application Subtem	plates (Click field labe	ls to enable/disable the	m)		New	Reset
Templat	te Name Microsoft: Of	ffice 365 Template					
Config Interface	CV Policies	Port Policies	Svc Policies	Proc Policies	Dyn Apps		Logs
Subtemplate Selection 1. App: Microsoft: Office 365 Token Not 2. App: Microsoft: Office 365 Service of 3. App: Microsoft: Office 365 Perform of 4. App: Microsoft: Office 365 Relation of	Template Applicati All devices (align no Dynamic Application	ew applications and up	date collection states)	Application With			¥
 App: Microsoft: Office 365 License Add New Dynamic App Sub-Template 	Microsoft: Office 3	65 Token Manager	Dynamic	Application			•
	Office 365 Creden	Crea	lentials	▼	P Every 1 Minute	oll Rate	•
		ManageToken GraphToken	Unamic Application Enabled v Enabled v	Presentation Object(s)			
	Dynamic Applicatio		Save As		5 days]	

7. When you are finished, click [Save As].

Aligning the Device Template to Your Office 365 Virtual Device

After you have configured the Office 365 device template so that each Dynamic Application in the template aligns with your Office 365 credential, you can use that template to align the Dynamic Applications to the virtual device that you created to act as the root device for your Office 365 environment. When you do so, SL1 discovers and models all of the components in your Office 365 service.

To align the Office 365 device template to the Office 365 virtual device:

- 1. Go to the **Device Manager** page (Devices > Device Manager, or Registry > Devices > Device Manager in the SL1 classic user interface).
- 2. On the **Device Manager** page, select the checkbox for the Office 365 virtual device.
- 3. In the **Select Actions** field, in the lower right corner of the page, select the option MODIFY by Template and then click the **[Go]** button. The **Device Template Editor** page appears.
- 4. In the Template drop-down list, select your Office 365 device template.
- 5. Click the **[Apply]** button, and then click **[Confirm]** to align the Dynamic Applications to the root component device.

Template [Microsoft: Off	ice 365 Template	∣ ✓ S	ave When	Applied & Confirme	ed Templat	oft: Office 365 Te				
Config	Interface	CV Polic	ies	Port Policies	Svc Policies	Proc Poli	cies Dy	n Apps	Logs	
ccess & Monitoring							Device Prefer	ences		
Device Organization	backend		\sim)			Auto-Clear	Events	Scan All IP	s
SNMP Read	APCON_CRED		\sim	SNMP Write	None	\sim				
Availability Protocol	TCP		\sim	Avail Port	ICMP	\sim	Accept Al	Logs	Dynamic Disco	very
Latency Protocol	TCP		\sim	Latency Port	ICMP	\sim				
Avail+Latency Alert	Disabled		\sim	, 			Daily Port	Scans	Preserve Hostn	ame
Collection	Enabled		\sim	Collector Grp	CU52	\sim				
Coll. Type	Standard			, . I			Auto-Up	date	Disable Asset U	pdate
Critical Ping)						
-			~	J			Bypass Int			
Event Mask	Disabled		\sim	J			Invento	iry		
evice Retention & Basic	: Thresholds						1			
System Latence	cy 📊	1	-	100 ms	Daily Rollup Bandwidt Dat		1	-	730 days	
					Hourly Rollu Bandwidth Dat	p -11	1	1	90 days	
Availabililty Packet Siz	ze 4 1	1	1	56 bytes	Raw Performance Dat		1	1	7 days	
Availability Ping Cou	nt 🕕	1	1	1 pings	Daily Rollu		1 4			
	101				Performance Dat		N		730 days	

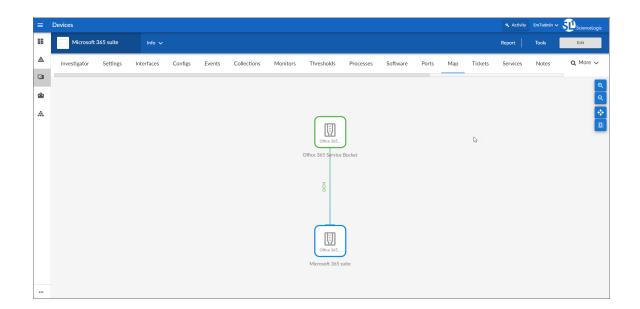
Viewing Microsoft Office 365 Component Devices

When SL1 performs collection for the Microsoft Office 365 virtual device, SL1 will create component devices that represent each application in your Office 365 service.

NOTE: Most Office 365 applications, such as Exchange Online, have their own designated Device Classes and icons in SL1. If a service does not have its own specific Device Class, it will have a Device Class of "Office 365 Generic Service" and an icon for generic Office 365 Service component devices.

In addition to the **Devices** page, you can view the Office 365 service and all associated component devices in the following places in the user interface:

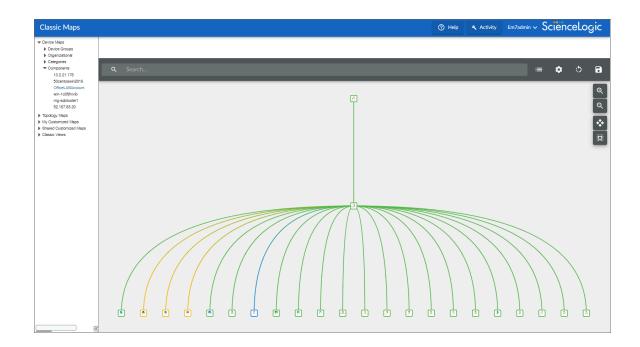
• The **Device Investigator** Map page (click **Map** in the **Device Investigator** page) displays a map of a particular device and all of the devices with which it has parent-child relationships. Double-clicking any of the listed devices reloads the page to make the selected device the primary device.



The Device Components page (Devices > Device Components) displays a list of all root devices and component devices discovered by SL1. The Device Components page displays all root devices and component devices in an indented view, so you can easily view the hierarchy and relationships between child devices, parent devices, and root devices. To view the component devices associated with your Office 365 service, find the Office 365 virtual device and click its plus icon (+).

=	Device Co	mponents								🔦 Activity	Em7admin 🗸	
8		ponents I Devices Found [5]									Actions	Reset Guid
⊾ [•	Device Name •		P Address	Device Category	Device Class I Sub-class		Orpanization	Current State	Collection Group	Collection State	
	1. + 🖉 📶 /	Auto_Microsoft_Azure			Service	Microsoft I Azure Services	1307	AzureAutomation	A Healthy C	UG	Active	🖶 🔀 🗞 🚲
3	2 🖋 🚮 /	Auto_Microsoft_Office_365	۲		Account	Microsoft I Office 365 Account	1462	Auto_Office_365	A Healthy C	ua	User-Disabled	📾 😆 🗞 🕾
		Device Name *		IP Address	Device Category	Device Class Bub-class		Organization		Collection Sites	Collection State	
5	1. – 📕	Office 365 Service Bucket			AppService	Microsoft I Office 365 Service Bucket	1467	Auto_Office_365	A Healthy	UG	User-Disabled	10 X N A
¢		Device Name •		IP Address	Device Celepory	Device Class I Sub-class	DID	2 Organization	Current State	Collection Group	Collection State	E
	1.	Azure Information Protection			Service	Microsoft I Office 365 Azure Information Protection	1486	Auto Office 365	A Healthy	tug	User-Disabled	H 12 N 28
	2.	Exchange Online			Service	Microsoft I Office 365 Exchange Online Service	1468	Auto_Office_365	A Healthy	cug	User-Disabled	
	3.	Midentity Service			Service	Microsoft I Office 365 Identity Service	1478	Auto_Office_365	A Healthy	tug	User-Disabled	10 10 % 20
	4.	الم Microsoft 365 Apps		-	Service	Microsoft I Office 365 Generic Service	1482	Auto_Office_365	A Healthy	cua	User-Disabled	📾 😂 🗞 🙈
	6.	Microsoft 365 suite 👔 🖌			Service	Microsoft I Office 365 Generic Service	1484	Auto_Office_365	A Healthy	CUG	User-Disabled	10 10 10 10
	6.	🖋 🚮 Microsoft Bookings			Service	Microsoft I Office 365 Bookings	1474	Auto_Office_365	A Healthy	cua	User-Disabled	10 N A
	7.	Microsoft Forms 🖌 🙀		-	Service	Microsoft I Office 365 Generic Service	1480	Auto_Office_365	A Healthy	CUG	User-Disabled	10 2 2 2 2
	8.	👉 🔐 Microsoft Kaizala			Service	Microsoft I Office 365 Generic Service	1481	Auto_Office_365	A Healthy	tug	User-Disabled	🖶 😳 🗞 🦝
	9.	Microsoft Power Automate in Microsoft 365			Service	Microsoft I Office 365 Generic Service	1473	Auto_Office_365	A Healthy 0	cua	User-Disabled	🖶 👯 🗞 🙈
	10.	Microsoft Stream 🔥 🔥		-	Service	Microsoft I Office 365 Generic Service	1479	Auto_Office_365	A Healthy 0	cug	User-Disabled	😸 🖏 🗞 🙈
	11.	🚜 Microsoft Teams			Service	Microsoft I Office 365 Teams	1471	Auto_Office_365	A Healthy 0	cua	User-Disabled	🖶 👯 🗞 😹
	12.	nt Mobile Device Management for Office 365		-	Service	Microsoft I Office 365 Mobile Device Management	1476	Auto_Office_365	A Healthy 0	cua	User-Disabled	📾 😂 🗞 🙈
	13.	🧨 🔊 Office for the web			Service	Microsoft I Office 365 Generic Service	1475	Auto_Office_365	A Healthy 0	cug	User-Disabled	🖶 🖏 🗞 💼
	14.	🤌 🚮 OneDrive for Business			Service	Microsoft I Office 365 OneDrive for Business Service	1472	Auto_Office_365	🛦 Healthy 0	cua	User-Disabled	🖶 🖏 🖏 🐻
	15.	Planner 👔 🖓 کړو کې			Service	Microsoft I Office 365 Planner	1483	Auto_Office_365	A Healthy 0	oug	User-Disabled	1 N N N N N N N N N N N N N N N N N N N
	16.	الم 🕹 🖉 Power Apps in Microsoft 365			Service	Microsoft I Office 365 Generic Service	1477	Auto_Office_365	A Healthy	CUG	User-Disabled	🖶 🎝 🗞 😹
	17.	ار 👉 📶 SharePoint Online		-	Service	Microsoft I Office 365 SharePoint Online	1469		A Healthy C		User-Disabled	10 <mark>10</mark> 10 <u>18</u>
	18.	اړه 👉 📶 Skype for Business			Service	Microsoft I Office 365 Skype for Business	1470	Auto_Office_365	A Healthy	CUG	User-Disabled	🖶 🖏 🖏
	19.	🤌 📶 Sway			Service	Microsoft I Office 365 Sway	1485	Auto_Office_365	A Healthy 0	cua	User-Disabled	🖶 🏹 🗞 👼

The Component Map page (Classic Maps > Device Maps > Components) allows you to view devices by
root node and view the relationships between root nodes, parent components, and child components in a
map. This makes it easy to visualize and manage root nodes and their components. SL1 automatically
updates the Component Map as new component devices are discovered. The platform also updates each
map with the latest status and event information. To view the map for your Office 365 service, go to the
Component Map page and select the map from the list in the left NavBar. To learn



Relationships Between Component Devices

In addition to parent/child relationships between component devices, SL1 also creates relationships between Office 365 component devices and other associated devices:

• If you discover Azure devices using the Dynamic Applications in the *Microsoft: Azure* PowerPack version 110 or later, SL1 will automatically create relationships between Office 365 Active Directory tenants and Azure Active Directory tenants.

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