

This document explains the required steps to configure the Office 365 SharePoint Assessment included with your Azure Log Analytics Workspace and Microsoft Unified Support Solution Pack.

! Important: There are configuration and setup tasks to be completed prior to executing the assessment setup tasks in this document. For all prework, follow the <u>Assessment Setup Guide</u> from the Services Hub Resource Center.

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System Requirements and Configuration at Glance

Supported Versions

• Office 365 SharePoint Online

Account Requirements

- User account rights:
 - o Global Administrator for Office 365
 - Federated Accounts are not supported
 - MFA is supported
 - o Local Admin account or Domain account with Local Admin rights for Task setup

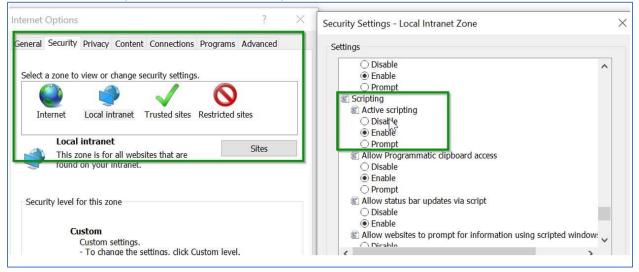
Data Collection Machine Requirements

- Data collection machine hardware: Minimum 16 gigabytes (GB) of RAM, 2 gigahertz (GHz dual-core processor, minimum 2 GB of free disk space.
 - High End Workstation: Windows 10 64bit only
 - $\circ~$ Server: Windows Server 2022, Windows Server 2016 64bit only $\circ~$ PowerShell version: 5.0 or greater
 - Depending on the size and complexity of your environment, you will need to increase the total amount of RAM to ensure that the data collection is successful and completes in a timely manner.
- Microsoft .NET Framework 4.8 or newer installed
 - Download from: <u>Download .NET Framework 4.8 | Free official downloads (microsoft.com)</u>
- Data collection machine can be a standalone or domain joined machine.
- The data collection machine must be able to connect to the Internet using HTTPS to connect to the Office 365 tenant.
- **Antivirus** and any other type of **Security software** need to be configured to exclude Assessment related files, file types, working directory folders and process (Omsassessment.exe) to avoid process termination, blockage and alerts. <u>Add an exclusion to Windows Security</u>

Setup Microsoft Assessment Azure AD Application

Note: While executing New-MicrosoftAssessmentsApplication command, you may need to enable the following settings to for the Authentication popup prompt.

1. Go to Internet options and Enable JavaScript:



 Add your SharePoint Online admin center URL to the trusted sites e.g. <u>https://tenantnameadmin.sharepoint.com</u> or <u>https://admin.tenantname.com</u> if friendly admin URL configured

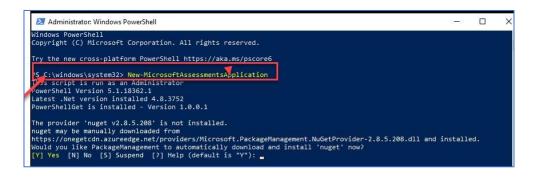
With the enabled MFA account

1. Open PowerShell as an Administrator and then run the following on the Data Collection Machine.

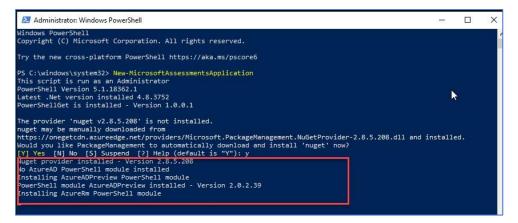
New-MicrosoftAssessmentsApplication

This script will run and then prompt for Global Administrator Credentials

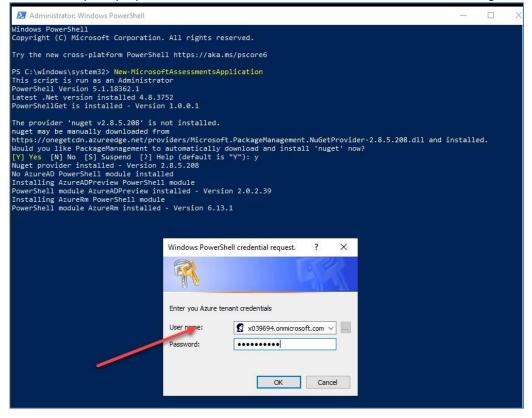
2. Type "Y" to install package.



This will install the AzureAD Preview Module



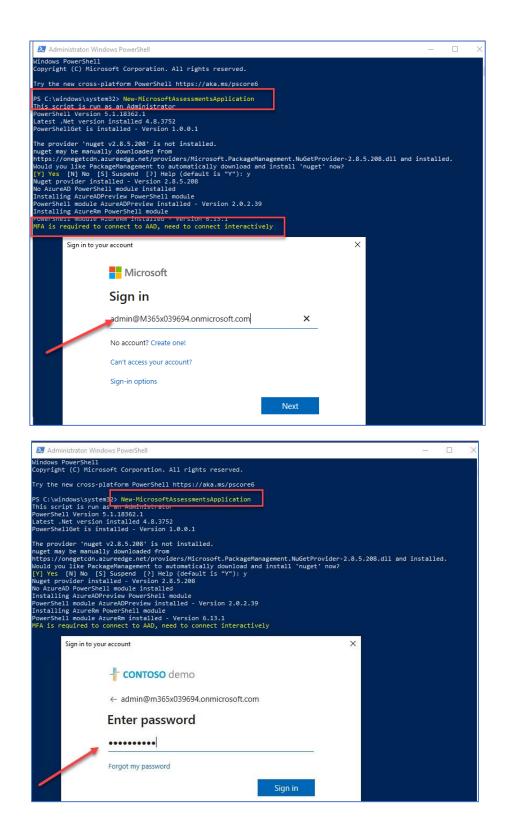
3. At the credential prompt, please enter an account with Global Administrator access rights.



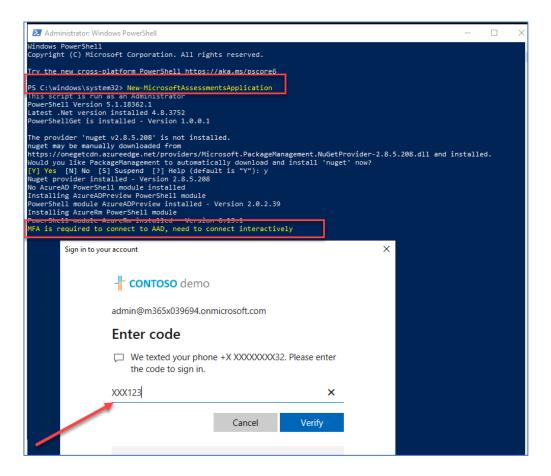
4. PS: for Windows Server 20**, you may be needed to disable IE Enhanced Security

For Win2016DC			
Computer name Workgroup	Win2016DC WORKGROUP	Last installed updates Windows Update Last checked for updates	8/16/2018 10:07 AM Never check for updates 8/16/2018 10:07 AM
Windows Firewall Remote management Remote Desktop NIC Teaming NIC1	Public: Off Enabled Enabled Disabled IPv4 address assigned by DHCP, IPv6 enabled	Windows Defender Feedback & Diagnostics IE Enhanced Security Configuration Time zone Product ID	Real-Time Protection: On Settings Off (UTC-05:00) Eastern Time (US & Canada) 00376-40000-00000-AA636 (activated)
Operating system version Hardware information	Microsoft Windows Server 2016 Datacenter Microsoft Corporation Virtual Machine	Processors Installed memory (RAM) Total disk space	Intel(R) Xeon(R) CPU ES-2630 v2 @ 2.60GHz 3 GB 100 GB

- 5. You will be prompted to Logging, please use the Global Administrator Account, Password and MFA Code
- 6. You will be prompted so Sign-in again after the MFA Requirement message. Use the Global Admin credentials and MFA code



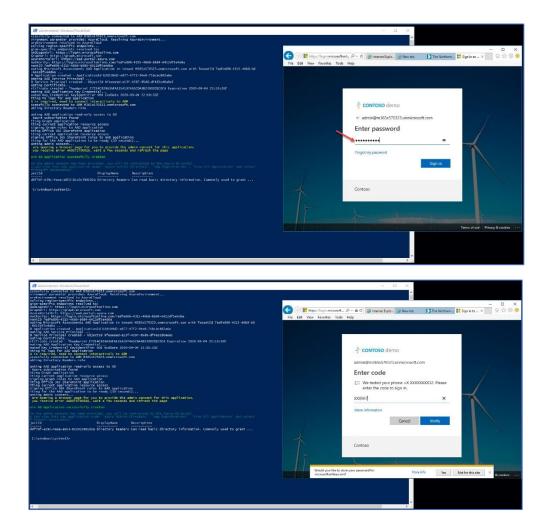
- 7. Enter your MFA code
- 8. You will be prompted to logging again with your GA account, Password and MFA Code



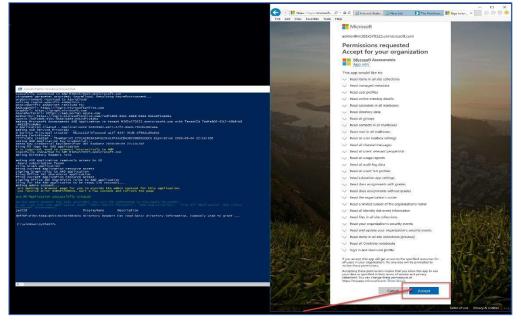
9. After the successful creation of the Azure Application, a browser will be launch and you will be prompted to logging again with your Global Admin Account, Password and MFA Code,

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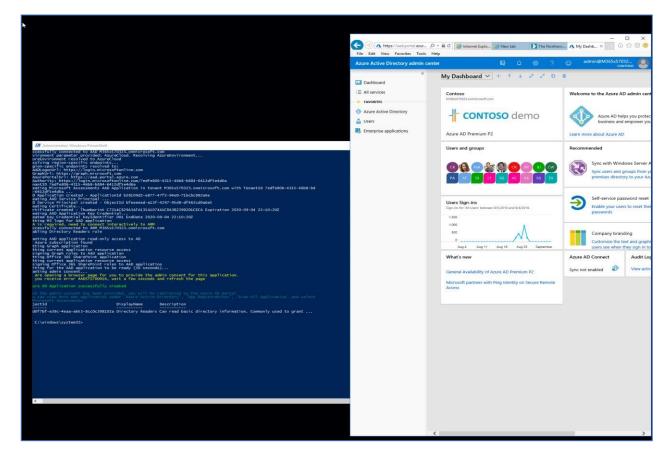
27 Administrator: Windows PowerShell	- a ×
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10. You will be prompted to accept the permission request



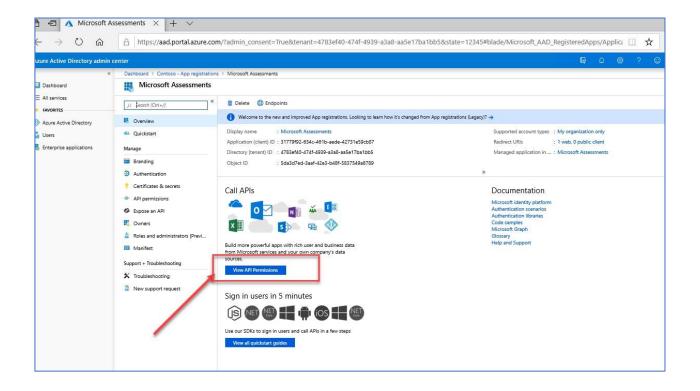
11. And you be logging into your Azure Environment.



12. In Azure Select "Azure Active Directory" **1** "App Registrations" **1** and confirm the "Microsoft Assessments" app is present

🔁 🔨 Contoso -	- App registrat \times + \vee					<u> </u>	o >
→ Ŭ ŵ	A https://aad.portal.azure.c	com/?admin_consent=True&tenant=4783ef40-4	474f-4939-a3a8-aa5e17ba1bb5&state=12345#blade/Microsoft_AAD	_IAM/ActiveDirectoryMe	☆ ☆	= <i>l</i> ~	¢.
ire Active Directory admi	in center			G 0 ©	? 😳 ad	min@M365x	51698 CONTOSO
	« Dashboard > Contoso - App registrati	ions					
ashboard	Contoso - App registra	ations					\$
services orites	,D Search (Ctrl+/)	≪ 🕂 New registration ⊕ Endpoints 💥 Troublesho	ooting Got feedback?				
re Active Directory	Overview	 Welcome to the new and improved App registrations ((now Generally Available). See what's new 🤿				
	Getting started	A Looking to learn how it's changed from App regist	trations (Legacy)? Learn more				
- rprist applications	Manage	Still want to use App registrations (Legacy)? Go be	ack and tell us why				
	Users	All applications Owned applications					
/	Groups						
	Groups Organizational relationships	Start typing a name or Application ID to filter these result					
	Boles and administrators	DISPLAY NAME	APPLICATION (CLIENT) ID	CREATED ON	CERTIFICATES & SI	ECRETS	
		BrowserStack	64e0128e-ef90-437a-b736-57d85ad07273	8/9/2019	-		
	 Enterprise applications Devices 	eo Box	0dfdd9d6-79fe-4b4a-a28b-b1830a4e8a7d	8/9/2019	-		
	Devices App registrations	Microsoft Assessments	31779f92-634c-461b-aede-42731e59cb87	8/20/2019	O Current		
	Identity Governance	TW Twitter	d8ec7a9e-0b6f-48db-b3f7-db83764c1af6	8/9/2019			
	Application proxy	u LinkedIn	b18d5ffd-d5e0-41b5-8258-3c575fbeead4	8/9/2019	1		
	🛔 Licenses	Salesforce	9cbe0b45-51bc-471d-891d-a58700597649	8/9/2019			
	Azure AD Connect						
	💭 Custom domain names						
	Ø Mobility (MDM and MAM)						
	Password reset						
	Company branding						

13. Click on the Microsoft Assessment Application to open it and click on "View API Permissions"



14. Confirm the SharePoint App Permissions section was also created.

Azure Active Directory admin	center				G Q	@? ©	admin@vibobics.com/oso CONTOSO
«	Dashboard > Contoso - App registrations	> Microsoft Assessments - API permissions					
Dashboard	— Microsoft Assessments	API permissions					*
All services	«						
* FAVORITES	→ Search (Ctrl+/)	Directory.Read.All	Application Read directory data	Yes	Granted for Contoso		
Azure Active Directory	Overview	EduAdministration.Read.All	Application Read Education app settings	Yes	🥝 Granted for Contoso		
Users	4 Quickstart	EduAssignments.Read.All	Application Read class assignments with grades	Yes	Granted for Contoso		
Enterprise applications	Manage	EduAssignments.ReadBasic.All	Application Read class assignments without grades	Yes	🧑 Granted for Contoso		
	Branding	EduRoster.Read.All	Application Read the organization's roster	Yes	Granted for Contoso		
	Authentication	EduRoster.ReadBasic.All	Application Read a limited subset of the organization's ros	Yes	🥝 Granted for Contoso		
	Certificates & secrets	Files.Read.All	Application Read files in all site collections	Yes	🥝 Granted for Contoso		
	API permissions	Group.Read.All	Application Read all groups	Yes	Granted for Contoso		
-	Expose an API	IdentityRiskEvent.Read.All	Application Read all identity risk event information	Yes	Granted for Contoso		
	Owners	Mail.Read	Application Read mail in all mailboxes	Yes	Granted for Contoso		
	Roles and administrators (Previ	MailboxSettings.Read	Application Read all user mailbox settings	Yes	Granted for Contoso		
	Manifest	Notes Read All		Yes	Granted for Contoso		
	Support + Troubleshooting		Application Read all OneNote notebooks		Granted for Contoso		
	X Troubleshooting	OnlineMeetings.Read.All	Application Read online meeting details	Yes			
	New support request	People.Read.All	Application Read all users' relevant people lists	Yes	Granted for Contoso		
		Reports.Read.All	Application Read all usage reports	Yes	Granted for Contoso		
		SecurityEvents.Read.All	Application Read your organization's security events	Yes	Granted for Contoso		
		SecurityEvents.ReadWrite.All	Application Read and update your organization's security	Yes	Granted for Contoso		
		Sites.Read.All	Application Read items in all site collections (preview)	Yes	🤣 Granted for Contoso		
		User.Read.All	Application Read all users' full profiles	Yes	Granted for Contoso		
		 SharePoint (3) 					
		Sites.Read.All	Application Read items in all site collections	Yes	🤣 Granted for Contoso		
		TermStore.Read.All	Application Read managed metadata	Yes	Granted for Contoso		
		User Read All	Application Read user profiles	Yes	Granted for Contoso		
		These are the permissions that this application able permissions dynamically through code. Se	equests statically. You may also request user consent-				
		Grant consent					
		As an administrator, you can grant consent on b users will not be shown a consent screen when	whalf of all users in this directory. Granting admin consent for all u using the application.	sers means that end			

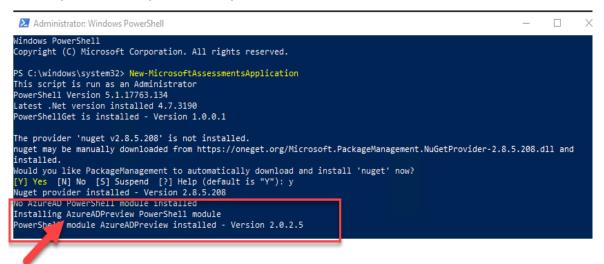
With the disabled MFA account

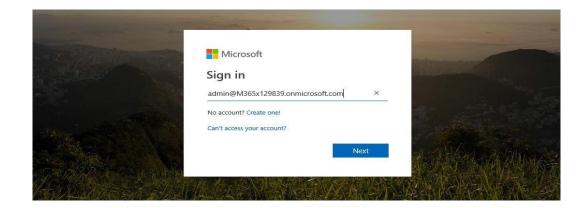
1. Open PowerShell as an Administrator and then run the following on the Data Collection Machine.

New-MicrosoftAssessmentsApplication

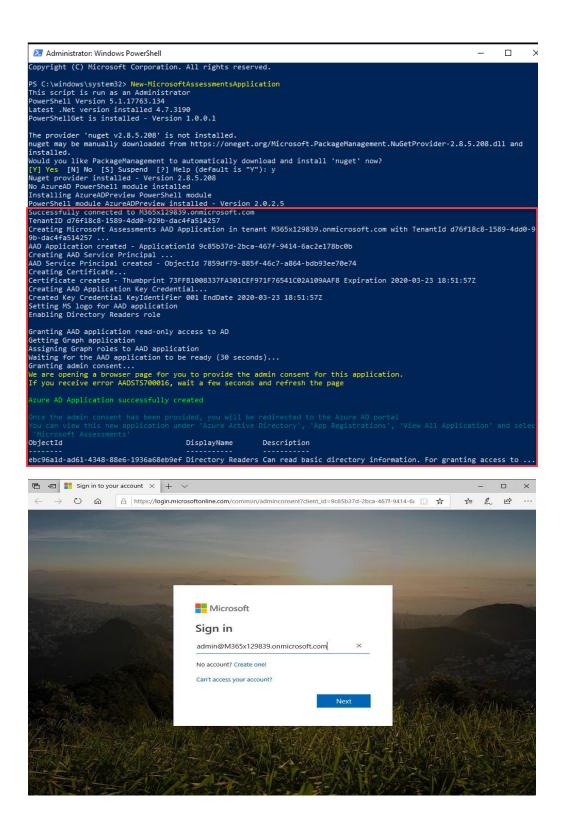
This script will run and then prompt for Global Administrator Credentials:

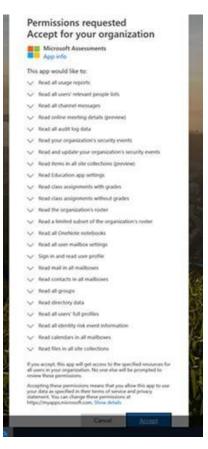
2. Type "Y" to install package. PS: This command will install the AzureADPreview module. If it doesn't get installed as part of this step, make sure you install the Azure AD Preview Module.



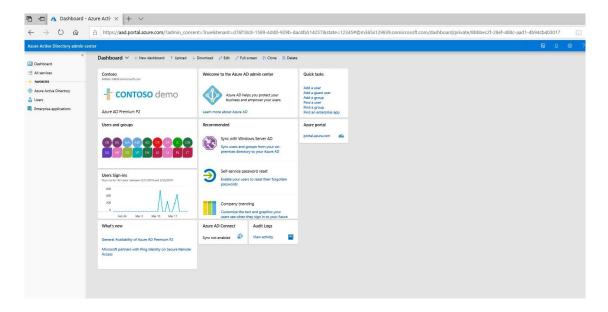


3. Once credentials have been setup, a browser will open that will ask for **Read** access to several objects, check the access requests, and then click **Accept**.





- 4. Now that the App has been setup. After you click on "Accept" the Azure Portal will open.
- 5. In the Azure Portal navigate to Azure Active Directory on the left navigation



6. Click on "All Services" • "App Registration"

Azure Active Directory admi	n center						Q	۵	٥	? @
E All services	e All services Search Everything	By category							Colaps	rali Expand
Acure Active	EXHING: (1)	*								
🔓 Users 🖏 Enterprise apecations	Azure Active Directory	😭 🎿 Groups	*	🔒 Users	*	4 Azure AD Connect Health			*	
	Azure AD Privileged Identity Management	* O Azure AD Identity Protection	*	Enterprise applications	*	App registrations			*	
	Access reviews	* Conditional Access	*							
	Azure Active Directory	*		-						

7. Click on "View All Applications"

zure Active Directory admin ce	Dashboard > App registrations		
Dashboard All services FAMORITES	App registrations Auxe Adve Directory		
All services	+ New application registration 🗮 Endpoints 💥 Troubleshoot		
Azure Active Directory	\checkmark The preview experience for App registrations is available. Click this banner to launch the preview experience. \Rightarrow		
Users	Search by nome or AppID My apps ~		
Users Enterprise applications	DISPLAY NAME	APPLICATION TYPE	APPLICATION ID
		You're no: the owner of any applications in this directory.	

8. The new Microsoft Assessment Application will be listed

ĸ	Dashboard > App registrations		
Dashboard	App registrations Asure Athen Directory		
All services	+ New application registration 🗄 Endpoints 🗙 Troubleshoot		
Azure Active Directory	${\mathscr I}$ The preview experience for App registrations is available. Click this banner to launch the preview experience. $ imes$		
Users	Search by name or AppID All apps		
Enterprise applications	DISPURY NAME	APPLICATION TYPE	APPLICATION ID
	box Box	Web app / API	c51f9881-29bb-4dd2-9f82-a557ec9fa51f
	in LinkedIn	Web app / API	9c1d4ea2-2932-44a0-bb54-365415565c90
	BrowserStack	Web app / API	addc787f-8388-4473-b4ad-d246db8b63b4
	V Twitter	Web app / API	d9176b9d-1b6c-4c42-9f84-0461a5b828c3
-	Microsoft Assessments	Web app / API	9c85b37d-2bca-467f-9414-6ac2e178bc0b
_	Salesforce	Web app / API	b2a78d20-b828-4544-9e4a-9b47d41f6c34

Setting permission to show Classic Workflows (if workflow report is required)

1. On the Azure portal, select *[Azure Active Directory]* > *[App Registrations]* and confirm the "Microsoft Assessments" app is present on the right pane.

e:	Dashboard > App registrations		
Dashboard	App registrations Aux Active Directory		
All services	+ New application registration 🗄 Endpoints 💥 Troubleshoot		
Azure Active Directory	of The preview experience for App registrations is available. Click this banner to launch the preview experience. →		
Users	Search by name or AppID All apps		
Enterprise applications	DISPLAY NAME	APPLICATION TYPE	APPLICATION ID
	box Box	Web app / API	c51f9881-29bb-4dd2-9f82-a557ec9fa51f
	in LinkedIn	Web app / API	9c1d4ea2-2932-44a0-bb54-365415565c90
	BrowserStack	Web app / API	addc787f-8388-4473-b4ad-d246db8b63b4
	Twitter	Web app / API	d9176b9d-fb6c-4c42-9f84-0461a5b828c3
-	Microsoft Assessments	Web app / API	9c85b37d-2bca-467f-9414-6ac2e178bc0b
-	Salesforce	Web app / API	b2a78d20-b828-4544-9e4a-9b47d41f6c34

2. Click on the **Microsoft Assessment** Application to open it and click on **"View API Permissions"**.

Microsoft Assessments 🖈

P Search (Ctrl+/)	« Îl Delete
👯 Overview	Display name : Microsoft Assessments
📣 Quickstart	Application (client) ID : 37eafab7-52e8-4a36-831d-476be9692ff8
💉 Integration assistant (prev	view) Directory (tenant) ID : d653437e-8de6-4fcd-bf06-3a43e3d99ee4
	Object ID : 480b610d-63eb-49ff-af62-5750847b2ba3
Manage	
Branding	
Authentication	Welcome to the new and improved App registrations. Looking to learn how it's changed
📍 Certificates & secrets	
H Token configuration	Call APIs
API permissions	
🚳 Expose an API	
R Owners	
Roles and administrators	(Previe 🚺 🚺 👳 🔨 💽
0 Manifest	Build more powerful apps with rich user and business data
Support + Troubleshooting	from Microsoft services and your own company's data sources.
Troubleshooting	View API permissions

3. Under configured permissions in the middle of the page, click on "**Add a permission**" button, on the right pane select "**SharePoint**" under the Microsoft APIs tab.

₽ Search (Ctrl+/) «	🕐 Refresh					
Overview	Configured permissions					
🝊 Quickstart	5	han they are	granted permissions by users/admins as part of the	and the second The list of sec	forward a section in the data	
🚀 Integration assistant (preview)	all the permissions the application needs			consent process. The list of con	ingurea permissions snoaid ii	nciuue
Manage	+Add a permission Grant	admin conse	nt for Contoso			
Branding	API / Permissions name	Туре	Description	Admin consent req	Status	
Authentication	✓ Microsoft Graph (18)					
📍 Certificates & secrets	AccessReview.Read.All	Application	Read all access reviews	Yes	🥝 Granted for Contoso	
Token configuration	AdministrativeUnit.Read.All	Application	Read all administrative units	Yes	📀 Granted for Contoso	
API permissions	AuditLog.Read.All	Application	Read all audit log data	Yes	Sranted for Contoso	
Expose an API	Directory.Read.All	Application	Read directory data	Yes	Sranted for Contoso	
💀 Owners	Group.Read.All	Application	Read all groups	Yes	Granted for Contoso	
Roles and administrators (Preview)	IdentityProvider.Read.All	Application	Read identity providers	Yes	Sranted for Contoso	
11 Manifest	IdentityRiskEvent.Read.All	Application	Read all identity risk event information	Yes	Sranted for Contoso	
Support + Troubleshooting	IdentityRiskyUser.Read.All	Application	Read all identity risky user information	Yes	Sranted for Contoso	
Troubleshooting	IdentityUserFlow.Read.All	Application	Read all identity user flows	Yes	Sranted for Contoso	
New support request	Organization.Read.All	Application	Read organization information	Yes	Sranted for Contoso	
	Policy.Read.All	Application	Read your organization's policies	Yes	Granted for Contoso	
	Reports.Read.All	Application	Read all usage reports	Yes	📀 Granted for Contoso	
	RoleManagement.Read.Directo	Application	Read all directory RBAC settings	Yes	📀 Granted for Contoso	
	SecurityActions.Read.All	Application	Read your organization's security actions	Yes	Granted for Contoso	
	SecurityEvents.Read.All	Application	Read your organization's security events	Yes	📀 Granted for Contoso	
	Sites.Read.All	Application	Read items in all site collections (preview)	Yes	📀 Granted for Contoso	
	TrustFrameworkKeySet.Read.A	Application	Read trust framework key sets	Yes	Granted for Contoso	
	User.Read.All	Application	Read all users' full profiles	Yes	Sranted for Contoso	

Microsoft Assessments | API permissions 🖈

Dashboard > App regist					Request API permission	าร	
×	Microsoft Assessme	ents API permissions	\$P		Select an API		
	P Search (Ctrl+/) ≪	🕐 Refresh			Microsoft APIs APIs my organizatio	n uses My APIs	
ertificates & secrets	Overview Quickstart // integration assistant (preview) Manage Branding	Configured permissions Applications are authorized to call APIs v all the permissions the application needs the Add a permission Grant API / Permissions name	Learn more abo admin consent f	out per		endous amount of data in Office 365, Enterprise ne, Outlook/Exchange, OneDrive, OneNote, Sh	
Current	Authentication	✓ Microsoft Graph (18)					
Current	📍 Certificates & secrets	AccessReview.Read.All	Application R	Read al	Azure Rights Management Services	Azure Service Management	Data Export Service for Microsoft Dynamics 365
-	III Token configuration	AdministrativeUnit.Read.All	Application R		Allow validated users to read and write protected content	Programmatic access to much of the functionality available through the Azure	Export data from Microsoft Dynamics CRM organization to an external
-	API permissions	AuditLog.Read.All	Application R	Read al		portal	destination
	Expose an API	Directory.Read.All	Application R	Read di			
	Coners	Group.Read.All	Application R	Read al	Oynamics 365 Business Central	Dynamics CRM	Flow Service
	Roles and administrators (Preview)	IdentityProvider.Read.All	Application R	Read id	Programmatic access to data and functionality in Dynamics 365 Business	Access the capabilities of CRM business software and ERP systems	Embed flow templates and manage flow
	III Manifest	IdentityRiskEvent.Read.All	Application R	Read al	Central	software and EKP systems	
	Support + Troubleshooting	IdentityRiskyUser.Read.All	Application R	Read al			
	Troubleshooting	IdentityUserFlow.Read.All	Application R	Read al	Intune	Office 365 Management APIs	N OneNote
	New support request	Organization.Read.All	Application R	Read or	Programmatic access to Intune data	Retrieve information about user, admin.	Create and manage notes, lists, pictures,
		Policy.Read.All	Application R	Read yo		system, and policy actions and events from Office 365 and Azure AD activity	files, and more in OneNote notebooks
		Reports.Read.All	Application R	Read al		logs	
		RoleManagement.Read.Directo	Application R	Read al			
		SecurityActions.Read.All	Application R	Read yo	Power BI Service	SharePoint	Skype for Business
		SecurityEvents.Read.All	Application R	Read yo	Programmatic access to Dashboard resources such	Interact remotely with SharePoint data	Integrate real-time presence, secure messaging, calling, and conference
		Sites.Read.All	Application R	Read ite	as Datasets, Tables, and Rows in Power BI		capabilities
		TrustFrameworkKeySet.Read.A	Application R	Read tr			
		User.Read.All	Application R	Read al	Yammer		

4. Select "**Application permissions**" for the type of permissions, this should open bottom part with list of permissions to select.

Dashboard > App regist	rations >		Request API permissions	×
×	🚽 Microsoft Assessm	nents API permissions 🛛 🖈		
	Search (Ctrl+/) « Overview	🖒 Refresh	All APIs SharePoint thtps://microsoft.sharepoint-df.com/ Docs ©	
	Quickstart Integration assistant (preview)	Configured permissions Applications are authorized to call APIs when they are grant all the permissions the application needs. Learn more about		
	Manage	+ Add a permission Grant admin consent for		
Certificates & secrets	Branding	API / Permissions name Type Des	Tour application needs to access the API as the signed-in user.	or daemon without a
🥝 Current	Authentication	∽ Microsoft Graph (18)	signed-in user.	
Current	📍 Certificates & secrets	AccessReview.Read.All Application Rea	la	
	11 Token configuration	AdministrativeUnit.Read.All Application Rea	lal	
	API permissions	AuditLog.Read.All Application Rea	lal	
	🙆 Expose an API	Directory.Read.All Application Rea	l di	
	🗱 Owners	Group.Read.All Application Rea	lal	

5. Select "**Sites.FullControl.All**" option and click on the "Add permissions" button on the bottom. You should receive notification that updating permissions.

×	- Microsoft Assessme	ents API permissions	#	Request API permissions	
	Search (Ctrl+/) «	🕐 Refresh		•	
	Overview	Configured permissions		What type of permissions does your application require?	
	 Quickstart Integration assistant (preview) 	Applications are authorized to call APIs all the permissions the application nee			Application permissions Your application runs as a background service or daemon without a signed-in user.
	Manage	+ Add a permission Gra	nt admin consent for		
rtificates & secrets	Branding	API / Permissions name	Type De	Select permissions	expan
Current	Authentication	✓ Microsoft Graph (18)	.,,,,,	Type to search	
Current	Certificates & secrets	AccessReview Read All	Application Rea	Permission	Admin consent required
	Token configuration	AdministrativeUnit.Read.All	Application Rea	V Sites (2)	
2	 API permissions 	AuditLog Read All	Application Rea	at Sites.FullControl.All Have full control of all site collections ①	Yes
÷	Expose an API	Directory.Read All	Application Rea	di Sites.Manage.All Read and write items and lists in all site collections (Ves
	Conners	Group.Read.All	Application Rea	al	
2	Roles and administrators (Preview)	IdentityProvider.Read.All	Application Rea		Ves
	Manifest	IdentityRiskEvent.Read.All	Application Rea	al Sites.ReadWrite.All Read and write items in all site collections ①	Ves
	Support + Troubleshooting	IdentityRiskyUser.Read.All	Application Rea	al	
	Troubleshooting	IdentityUserFlow.Read.All	Application Rea	a	
	New support request	Organization.Read.All	Application Rea	ol Read managed metadata 🕢	Ves
		Policy.Read.All	Application Rea	TermStore.ReadWrite.All Read and write managed metadata ①	Ves
		Reports.Read.All	Application Rea	a	
		RoleManagement.Read.Dire		a line Read All	
		SecurityActions.Read.All	Application Rea	Read user profiles ①	Yes
		SecurityEvents.Read.All	Application Rea	User.ReadWrite.All	Ves
		Sites.Read.All	Application Rea	-	
		TrustFrameworkKeySet.Read	A Application Rea Application Rea		

6. Since this permission requires Admin consent, scroll to the top of the screen, and click the "Grant admin consent" button on the middle. Ensure to click the confirmation prompt "Yes" for granting admin consent.

	Search (Ctrl+/) «	🕐 Refresh					
		- C testan					
	Uverview	Do you want to grant consent for the	requested p	ermissions for all accounts in Contoso? This will	update any existing admin co	onsent records this applicat	ion already has to match wi
	🖴 Quickstart	2					
	💅 Integration assistant (preview)	Yes No					
	Manage	applications are autoinzed to call APIS w all the permissions the application needs.	Learn more a	granted permissions by users/admins as part or the bout permissions and consent	consent process. The list of con	ngurea permissions snoaia il	ciude
tificates & secrets	🗮 Branding	+Add a permission Grant	admin conser	at for Contoso			
Current	Authentication			L			
Current	📍 Certificates & secrets	API / Permissions name	Туре	Description	Admin consent req	Status	
	III Token configuration	Microsoft Graph (18)					
	API permissions	AccessReview.Read.All	Application	Read all access reviews	Ves	Granted for Contoso	
	A Expose an API	AdministrativeUnit.Read.All	Application	Read all administrative units	Yes	🥝 Granted for Contoso	
	Covers	AuditLog.Read.All	Application	Read all audit log data	Ves	🥝 Granted for Contoso	
	 Roles and administrators (Preview) 	Directory.Read.All	Application	Read directory data	Ves	🥝 Granted for Contoso	
20 	Manifest	Group.Read.All	Application	Read all groups	Ves	Granted for Contoso	
		IdentityProvider.Read.All	Application	Read identity providers	Ves	Sranted for Contoso	
	Support + Troubleshooting	IdentityRiskEvent.Read.All	Application	Read all identity risk event information	Ves	Granted for Contoso	
	Troubleshooting	IdentityRiskyUser.Read.All	Application	Read all identity risky user information	Ves	Sranted for Contoso	
	New support request	IdentityUserFlow.Read.All	Application	Read all identity user flows	Yes	Sranted for Contoso	
		Organization Read All	Application	Read organization information	Ves	🥝 Granted for Contoso	
		Policy Read All	Application	Read your organization's policies	Ves	🤣 Granted for Contoso	
		Reports Read All	Application	Read all usage reports	Ves	😋 Granted for Contoso	
		RoleManagement.Read.Direct:	Application	Read all directory RBAC settings	Yes	Granted for Contoso	
		SecurityActions.Read.All	Application	Read your organization's security actions	Yes	Granted for Contoso	
		SecurityEvents Read All	Application	Read your organization's security events	Yes	Granted for Contoso	
		Sites Read All	tention	Read items in all site collections (preview)	Ves	Granted for Contoso	

- 7. If you need to remove this permission after the assessment run is complete, you can certainly remove it, but any later runs will not report classic workflows.
- To revoke admin consent "Sites.FullControl.All" permissions, within API permissions, scroll to bottom under SharePoint category of permissions, select the ellipsis(...) on the right corresponding to "Sites.FullControl.All" and click "Revoke admin consent" and confirm prompt "Yes, remove".

	P Search (Ctrl+/) ≪	Refresh							
	Cverview	Successfully granted admin consent	for the reques	ted permissions.					
	44 Quickstart								
	💉 Integration assistant (preview)	AdministrativeUnit.Read.All	Application	Read all administrative units	Yes	Granted for Contoso			
	Manage	AuditLog Read All	Application	Read all audit log data	Yes	S Granted for Contoso			
es & secrets	E Branding	Directory Read All	Application	Read directory data	Ves	Granted for Contoso			
x.	Authentication	Group Read.All	Application	Read all groups	Yes	Granted for Contoso			
4	Certificates & secrets	IdentityProvider.Read.All	Application	Read identity providers	Ves	Granted for Contoso			
· · · · · · · · · · · · · · · · · · ·	III Token configuration	IdentityRiskEvent.Read.All	Application	Read all identity risk event information	Yes	Granted for Contoso			
	 API permissions 	IdentityRiskyUser.Read.All	Application	Read all identity risky user information	Ves	Granted for Contoso			
	Expose an API	IdentityUserFlow.Read.All	Application	Read all identity user flows	Ves	🥝 Granted for Contoso			
	Conners	Organization.Read.All	Application	Read organization information	Ves	Granted for Contoso			
	Roles and administrators (Preview)	Policy Read All	Application	Read your organization's policies	Ves	Granted for Contoso			
	Manifest	Reports Read, All	Application	Read all usage reports	Ves	🥝 Granted for Contoso			
		RoleManagement.Read Directo	Application	Read all directory RBAC settings	Yes	Granted for Contoso			
	Support + Troubleshooting	SecurityActions.Read.All	Application	Read your organization's security actions	Ves	Granted for Contoso			
	Troubleshooting	SecurityEvents.Read.All	Application	Read your organization's security events	Ves	🤣 Granted for Contoso			
	New support request	Sites Read All	Application	Read items in all site collections (preview)	Yes	Granted for Contoso			
		TrustFrameworkKeySet.Read.A	Application	Read trust framework key sets	Ves	🦁 Granted for Contoso			
		User/Read/All	Application	Read all users' full profiles	Yes	Granted for Contoso			
		SharePoint (4)							
		Sites/FullControLAll	Application	Have full control of all site collections	Yes	🥝 Granted for Contoso			-
		Sites Read All	Application	Read items in all site collections	Ves	🥝 Granted for Contoso	1	ove permission	
		TermStore.Read.All	Application	Read managed metadata	Yes	Signated for Contoso	Revo	ke admin consent	
		User Read All	Application	Read user profiles	Ves	Granted for Contoso		4	

9. To remove "Sites.FullControl.All" permissions, within API permissions, scroll to bottom under SharePoint category of permissions, select the ellipsis(...) on the right corresponding to "Sites.FullControl.All" and click "Remove permission" and confirm prompt "Yes, remove".
 Microsoft Assessments | API permissions *

Integration assistant (preview)	AdministrativeUnit.Read.All	Application	Read all administrative units	Yes	🥝 Granted for Contoso	
	AuditLog.Read.All	Application	Read all audit log data	Yes	Granted for Contoso	
lanage	Directory.Read.All	Application	Read directory data	Yes	🥝 Granted for Contoso	
Branding	Group.Read.All	Application	Read all groups	Yes	Granted for Contoso	
Authentication	IdentityProvider.Read.All	Application	Read identity providers	Yes	🥝 Granted for Contoso	
Certificates & secrets	IdentityRiskEvent.Read.All	Application	Read all identity risk event information	Yes	🥝 Granted for Contoso	
Token configuration	IdentityRiskyUser.Read.All	Application	Read all identity risky user information	Yes	Granted for Contoso	
API permissions	IdentityUserFlow.Read.All	Application	Read all identity user flows	Yes	Granted for Contoso	
Expose an API	Organization.Read.All	Application	Read organization information	Yes	Granted for Contoso	
Owners	Policy.Read.All	Application	Read your organization's policies	Yes	Granted for Contoso	
Roles and administrators (Preview)	Reports.Read.All	Application	Read all usage reports	Yes	🥝 Granted for Contoso	
Manifest	RoleManagement.Read.Directr	Application	Read all directory RBAC settings	Yes	🥝 Granted for Contoso	
pport + Troubleshooting	SecurityActions.Read.All	Application	Read your organization's security actions	Yes	🥝 Granted for Contoso	
Troubleshooting	SecurityEvents.Read.All	Application	Read your organization's security events	Yes	🥝 Granted for Contoso	
New support request	Sites.Read.All	Application	Read items in all site collections (preview)	Yes	🥝 Granted for Contoso	
	TrustFrameworkKeySet.Read.A	Application	Read trust framework key sets	Yes	🥝 Granted for Contoso	
	User.Read.All	Application	Read all users' full profiles	Yes	🥝 Granted for Contoso	
	✓ SharePoint (4)					
	Sites.FullControl.All	Application	Have full control of all site collections	Yes	🛕 Not granted for Contoso	
	Sites.Read.All	Application	Read items in all site collections	Yes	Granted for Contoso	Remove permission
	TermStore.Read.All	Application	Read managed metadata	Yes	🥝 Granted for Contoso	
	User.Read.All	Application	Read user profiles	Yes	🥑 Granted for Contoso	

Search (Ctrl+/)	×	O Refresh
B Overview		Remove permission
📣 Quickstart		
💉 Integration assistant (preview)	-	Are you sure you want to remove Office 365 SharePoint Online – Sites.FullControl.All from the configured permissions for Microsoft Assessments?
Manage	2	Yes, remove Cancel
🚍 Drandina		

SharePoint (3)					
Sites.Read.All	Application	Read items in all site collections	Yes	🤣 Granted for Contoso	
TermStore.Read.All	Application	Read managed metadata	Yes	🥑 Granted for Contoso	
User,Read,All	Application	Read user profiles	Yes	📀 Granted for Contoso	

10. Ensure final permissions of the SharePoint category looks like the above permissions list after revoking and removing "**Sites.FullControl.All**" permission.

Install Prerequisite Cmdlets

The Azure AD Preview Module is supported on the following Windows operating systems with the default version of Microsoft .NET Framework and Windows PowerShell: Windows 8.1, Windows 8, Windows 7, Windows Server 2012 R2, Windows Server 2012, or Windows Server 2008 R2.

If your computer has all the prerequisites for the installation, the module can be installed with the InstallModule cmdlet via PowerShell 5.0 or greater while Run as Administrator:

```
Set-ExecutionPolicy -ExecutionPolicy RemoteSigned
Install-Module MSOnline
Install-Module Microsoft.Graph
Install-Module -Name Microsoft.Online.SharePoint.PowerShell -AllowClobber -Force
Uninstall-Module SharePointPnPPowerShellOnline -Force -AllVersions
Install-Module PnP.Powershell -AllowClobber -Force
Import-Module MSOnline -Verbose
Import-Module Microsoft.Graph -Verbose
Import-Module PnP.Powershel -Verbose
Import-Module Microsoft.Online.SharePoint.PowerShell -Verbose
```

Setting up the SharePoint Online Assessment

On the designated data collection machine, complete the following:

1. Create the working directory for the Assessment data. i.e. C:\SPOAssessment

'	> Th	is PC > Windows (C:) >		
		Name ^	Date modified	Туре
s		PerfLogs	9/15/2018 3:33 AM	File folder
	*	📙 Program Files	3/23/2019 2:33 PM	File folder
5	Ŕ	Program Files (x86)	3/22/2019 7:29 PM	File folder
s		SPOAssessment	3/23/2019 10:34 PM	File folder

2. Open the Windows PowerShell command prompt as an Administrator



- 3. Run the following command:
 - Where <<u>Directory</u> is the path to an existing directory used to store the files created while collecting and analyzing the data from the environment.

Add-SharePointOnlineAssessmentTask -WorkingDirectory <Directory>

Example:

Add-SharePointOnlineAssessmentTask -WorkingDirectory "C:\SPOOA"

PS C:\windows\system32:	Add-SharePointOnlineAssessmentTask -WorkingDirectory "C:\SPOOA"	
	lineAssessmentTask at command pipeline position 1	
Supply values for the f	ollowing parameters:	
(Type !? for Help.) ScheduledTaskUsername:	Administrator	
ScheduledTaskPassword:		
	ment]Performing Credentials Validation	
[SharePointOnlineAssess	ment]Detected agent configuration for Management Group AOI-b88c58fa	-f16f-4bdc-adc4-829bb231f1ea
	ment][2812]To start an SharePointOnlineAssessment the Administrator ease verify using Local Security Policy manager.	user must have the 'Log on as
Second s second second sec	ment]Creating Windows Schedule task to run assessment	
	ment]Task Creation Successful	
	ment]SharePointOnlineAssessment setup successful.	
[SharePointOnlineAssess 1008_041053.log	ment]Detailed log is at: C:\Users\Administrator\AppData\Local\Temp\	Assessments_Configuration_2019
[SharePointOnlineAssess	ment][2804]To receive continued assessment updates, please close th	is Powershell window

4. You will be promoted to enter an account that will be able to run a scheduled task on the Tools machine. Supply the required user account credentials to tun the Scheduled Task. These credentials are used to run the SharePoint Online Assessment.

Note:

The account used to setup the assessment task needs to be a local admin in the Tool Machine, it can a local account or a Domain account with full admin right on the Tool Machine. if using local account just enter the account name and password, if using a domain account use the format Domain\Account.
 Ensure that when setting up the assessment task, the account that will be used to run the scheduled task is the account that is used to log in and setup the assessment task.

- 5. The script will continue with the necessary configuration. It will create a scheduled task that will trigger the data collection.
- Data collection is triggered by the scheduled task named SharePointOnlineAssessment within an hour of running the previous script and then every 7 days. The task can be changed to run on a different date/time or even forced to run at once.
- 7. You can confirm the Task is created in Task Scheduler and you can "Right Click" on the Task to Run it.

(B) Task Scheduler (Local) 78 Task Scheduler Library	Name	Status	Triggers	Next Run Time	Last Run Time	Last Run Result	Author	Created
Construction C		. Run	At 11:44 PM every Saturday of every month is that in PAZ2010 Run End Disable Export Properties Detete	3/23/2019 11:44:00 PM	11/30/1999 12:00:00 AM	The task has not yet run. (0x41303)	PGERMA609VM\Administrator	3/23/2019 10:44:46 PM

8. During collection and analysis, data is temporarily stored under the **WorkingDirectory** folder that was configured during setup, using the following structure:

→ ~ ↑	> This	PC > Windows (C:) > SPOAssessment > Sha	rePointOnlineAssessm	ent >	
-		Name	Date modified	Туре	Size
A Quick access		2621427	9/19/2019 10:27 AM	File folder	
Desktop	×	Logs	9/19/2019 10:27 AM	File folder	
🕹 Downloads	1	OmsAssessment	9/19/2019 10:27 AM	File folder	
🔮 Documents	A	new.prerequisites.789653db-74ca-4b64-9	9/19/2019 10:27 AM	ASSESSMENTSPO	2 KB
Pictures	*	new.processingmodel.789653db-74ca-4b	9/19/2019 10:28 AM	ASSESSMENTPM	108 KB
This DC	14.5	new.rawdata.789653db-74ca-4b64-975a	9/19/2019 10:28 AM	ASSESSMENTSPO	8 KB
This PC		new.recommendations.789653db-74ca-4	9/19/2019 10:28 AM	ASSESSMENTSPO	152 KB
Network		new.trace.789653db-74ca-4b64-975a-197	9/19/2019 10:28 AM	ASSESSMENTTRA	1,097 KB
and a		sun.cmd	9/19/2019 10:26 AM	Windows Comma	1 KB

9. After the completion of the task, you can Verify the XML files are created under the DataModel folder,

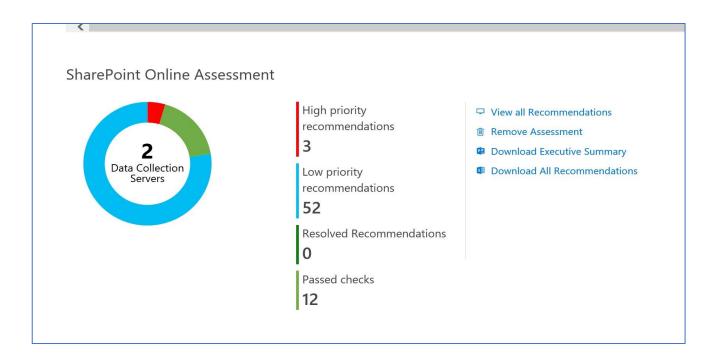
• → • ↑ 📘	SPO	Assessment > SharePointOnlineAssessmer	nt > 830248 > DataModel	> 0365Tenant_036	5 Sharepoint Service	
		Name ^	Jate modified	Туре	Size	
🖈 Quick access		20190323_104905.00000003	3/23/2019 10:49 PM	XML Document	1 KB	
Desktop	#	20190323 104907.00000004	3/23/2019 10:49 PM	XML Document	2 KB	
👆 Downloads	A	20190323 104911.00000005	3/23/2019 10:49 PM	XML Document	3 KB	
Documents	#	20190323 104913.00000006	3/23/2019 10:49 PM	XML Document	357 KB	
E Pictures	#	20190323_104918.00000007	3/23/2019 10:49 PM	XML Document	1 KB	
h Music		20190323_104920.00000008	3/23/2019 10:49 PM	XML Document	2 KB	
Videos		20190323_104922.00000009	3/23/2019 10:49 PM	XML Document	19 KB	
		20190323_104924.00000010	3/23/2019 10:49 PM	XML Document	6 KB	
left OneDrive		20190323_104926.00000011	3/23/2019 10:49 PM	XML Document	1 KB	
This PC		20190323_104928.00000012	3/23/2019 10:49 PM	XML Document	6 KB	
3D Objects		20190323_104928.00000013	3/23/2019 10:49 PM	XML Document	1 KB	
		20190323_104930.00000014	3/23/2019 10:50 PM	XML Document	87 KB	
Desktop		20190323_105015.00000015	3/23/2019 10:50 PM	XML Document	1 KB	
Documents		20190323_105016.00000016	3/23/2019 10:50 PM	XML Document	10 KB	
👆 Downloads		20190323_105018.00000017	3/23/2019 10:50 PM	XML Document	2 KB	
Music						
E Pictures						
Videos						
Windows (C:)						

10. You will notice under the SharePointAssessment folder a file with prefix of "new"

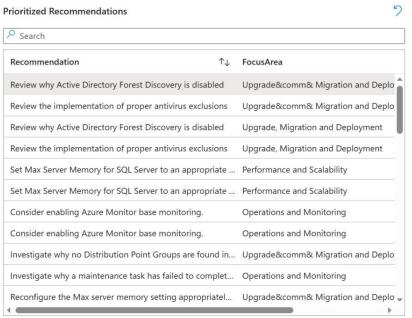
→ * ↑	× 1111.		harePointOnlineAssessr	inenc		√ Ū	Search SharePointOnlineAsse
		Name	Date modified	Туре	Size		
Quick access		2472258	9/4/2019 6:58 PM	File folder			
Desktop	A	Logs	9/4/2019 6:58 PM	File folder			
Downloads	A.	OmsAssessment	9/4/2019 6:58 PM	File folder			
Documents	*	new.prerequisites.3c3209bf-5f9f-4759-88.	9/4/2019 6:58 PM	ASSESSMENTSPO	2 KB		
Pictures	1	new.processingmodel.3c3209bf-5f9f-475.	9/4/2019 6:59 PM	ASSESSMENTPM	108 KB		
This PC		new.rawdata.3c3209bf-5f9f-4759-88ca-52	9/4/2019 6:59 PM	ASSESSMENTSPO	8 KB		
This PC		new.recommendations.3c3209bf-5f9f-47.	9/4/2019 6:59 PM	ASSESSMENTSPO	152 KB		
Network		new.trace.3c3209bf-5f9f-4759-88ca-5216f	9/4/2019 6:59 PM	ASSESSMENTTRA	1,103 KB		
		💿 run	9/4/2019 6-55 PM	Windows Comma	1 KB	-	

11. After data collection and analysis is completed on the tools machine, it will be submitted to your Azure Log Analytics Workbooks.

12. Your assessment results will be available to view on your **Service hub** Dashboard. Click the **SharePoint Online Assessment** and click on "View All Recommendations" to review:



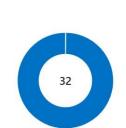
13. You will then be presented with findings grouped by the focus area.





Low Priority Recommendation

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Appendix

Data Collection Methods

The **Office 365 SharePoint Assessment** uses multiple data collection methods to collect information from your environment. This section describes the methods used to collect data from your environment. No Microsoft Visual Basic (VB) scripts are used to collect data.

Data collection uses workflows and collectors. The collectors are:

- 1. Microsoft Graph API
- 2. Microsoft PowerShell
- 3. SharePoint Modernization Scanner

Microsoft Graph API

The Microsoft Graph API is used to get data pertaining to Office 365 Secure Score.

Microsoft PowerShell

PowerShell is used to collect data from both Azure AD and Office 365. PowerShell uses the cmdlets from Azure PowerShell, SharePoint Management Shell and Patterns and Practices PnP) cmdlets to connect to and pull the required configuration settings pertaining to the tenant.

SharePoint Modernization Scanner

SharePoint Modernization Scanner under the covers uses SharePoint Online CSOM to collect site level configurations which will be used for analysis and recommendation towards modernizing the sites. By default, the scanner collects data only from classic sites on the tenant. If you have a need to report more than just classic sites, you can configure custom csv input file with list of site URLs for the scanner to collect data from.

Setting up Custom Input File for the scanner (Optional):

By default, when you run the OnDemand Assessment first time, this will create a
 "SPOModernizationScannerData" folder under working directory (e.g.: C:\ODA_SPO5) you configured for
 SharePoint Online Assessment task creation under the scheduler. In the example below, "C:\ODA_SPO5" is the
 working directory for SharePoint Online Assessment.

s PC > Windows (C:) > ODA_SPO5 >) 🔎 Search C	Search ODA_SPO5		
Name	Da	te modified	Туре	Size	
* SharePointOnlineAssessment	11,	/19/2020 11:09 PM	File folder		
SPOModernizationScannerData	11,	/24/2020 4:38 PM	File folder		

• Inside the "SPOModernizationScannerData" folder, you will see that "SPOScannerDefaultInput.csv" file is generated every time when data collection starts from Task Scheduler manually or as scheduled.

This PC > Windows (C:)	> ODA_SPO5 > SharePointOnlineAssessment	> SPOModernizationScar	nnerData	~ 3
* ^	Name	Date modified	Туре	Size
*	SharePoint.Modernization.Scanner.exe	11/19/2020 9:47 PM	Application	15,034 KB
	SPOScannerDefaultInput.csv	11/19/2020 9:46 PM	CSV File	1 KB

• SPOScannerDefaultInput.csv contains classic site URLs within the tenant. This will be used by the SharePoint Modernization Scanner tool by default for scanning.

• If you wish to change to different list of sites to scan, you can make a copy of the SPOScannerDefaultInput.csv or create your own file with list of URLs with the name: SPOScannerCustomInput.csv like the following:

his PC 🔹 Windows	(C:)	> ODA_SPO5 > SharePointOnlineAssessment	> SPOModernizationScar	nnerData	~	G
*	^	Name	Date modified	Туре	Size	
*	*	SharePoint.Modernization.Scanner.exe	11/19/2020 9:47 PM	Application	15,034 KB	
		SPOScannerCustomInput.csv	11/19/2020 9:46 PM	CSV File	1 KB	
		SPOScannerDefaultInput.csv	11/19/2020 9:46 PM	CSV File	1 KB	

- If you want your assessment to start the first time with custom list of sites for scanner to use, you will have to create the "SPOModernizationScannerData" folder manually and place the custom csv file with filename you see on the previous step as SPOScannerCustomInput.csv.
- Sample of SPOScannerCustomInput.csv files will look like the following:

🥘 s	POSci	annerCust	ominpu	ut.csv - Notepad
File	Edit	Format	View	Help
http	s://	contos	o.sha	<pre>repoint.com/sites/clssite1</pre>
http	s://	contos	o.sha	repoint.com/sites/Classic3
http	s://	contos	o.sha	repoint.com/sites/modernsites
http	5://	contos	o sha	repoint.com/sites/HR

Office 365 Assessment – Authentication Model

The Office 365 Assessment collects data using 2 methods:

- 1. Microsoft Graph
- 2. PowerShell Cmdlets
- 3. SharePoint Modernization Scanner

Graph API

The assessment connects to and extracts data form Microsoft Graph using an App created in Azure. The App is granted read permissions using OAuth. The data collection machine will have a certificate which is used to connect to the Azure App, which in turns gets the data from Microsoft Graph.

During the setup of the assessment, a Global Admin is required in order to create the App and grant it the relevant Read permissions so that it can query Microsoft Graph.

Once the setup is completed this part of the assessment will collect data with the App via the certificate with no account requirement. The App has only read access, which helps collect data using a least privileged model.

PowerShell Cmdlets

The assessment also collects data from Office 365 using the following cmdlets:

- Azure AD cmdlets
- SharePoint Online cmdlets
- SharePoint Online PnP cmdlets

Whilst these cmdlets currently support modern authentication to login, they are designed to run manually. This means the support of Modern Authentication is handled for accounts with MFA by a prompt to handle the authentication.

The assessment collects the data in an automated manner via a scheduled task. As this data collection is designed to run autonomously no prompts are generated. This causes an issue with account having MFA enabled, as when authenticating the account prompt for MFA does not appear and thus account cannot authenticate.

We are currently working with the PG on cmdlets that will support OAuth. With cmdlets that fully support OAuth we can use the Azure App to authenticate the requests made from the cmdlets. In doing so this will remove the requirement to use a Global Admin account, as well as the current requirement to use an account that does not have MFA.

SharePoint Modernization Scanner

SharePoint Modernization Scanner tool uses Azure AD App based authentication using OAuth authentication mechanism. As mentioned previously, SPO Scanner will by default will use only Sites.Read.All API permissions of Azure AD App for collection. Optionally, if you need to collect workflow related data, you will need to provide the Azure AD App, Sites.FullControl.All.

SharePoint Modernization Scanner will also be downloaded automatically using .NET web client when assessment is run the first time. After the first time run, the scanner version check will happen every time the assessment is run. Scanner check will ensure to check the version and download the latest only if the current version is not latest.

Download is performed the <u>GitHub repository</u> of the SharePoint Modernization Scanner. As you can see, we use only https endpoints for the downloads and on top of that we also ensure the SHA512 bit checksum matches to ensure data integrity and security.

View Prerequisite Errors

You can check the event viewer to view errors pertaining to prerequisites.

	Operational Number of	of events: 9				
Custom Views	Level	Date and Time	Source	Event ID	Task Category	
	 Information 	3/2/2019 4:32:54 AM	Prerequisites	1100	SuccessRate_Success	
	(1) Information	3/2/2019 4:32:44 AM	Prerequisites	1200	MVE_Success	
🛃 Internet Explorer	Error	3/2/2019 2:18:22 AM	Prerequisites	1101	SuccessRate_Failed	
F Key Management Service	Information	3/2/2019 2:18:08 AM	Prerequisites	1200	MVE_Success	
Microsoft	Error	3/1/2019 8:30:00 AM	Prerequisites	1101	SuccessRate_Failed	
> 🔛 AppV	() Information	3/1/2019 8:29:50 AM	Prerequisites	1200	MVE_Success	
✓	Error	3/1/2019 7:34:26 AM	Prerequisites	1101	SuccessRate_Failed	
V 🔛 Prerequisites	() Information	3/1/2019 7:34:12 AM	Prerequisites	1200	MVE_Success	
Operational	Error	3/1/2019 7:30:25 AM	Prerequisites	1201	MVE Failed	
User Experience Virtui Windows	Event 1100, Prerequisites	5				
Microsoft-Automation Microsoft-SMA	General Details					
Operations Manager VMAS Agent Windows PowerShell Subscriptions	Prerequisite success	rate: 100.0%				