Version 1.5

1. Revision Log

Version No.	Date	Prepared / Updated by	Significant Changes
1.0	25-Feb-2021	Development Team	Initial version

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2. Introduction

2.1. Overview

The purpose of this document is to provide the steps required to configure BackupAddict O365 backup and restore. This document explains the preliminary application permissions that is required for O365 backup and restore. To perform the following configurations, the user must be signed in as a Global administrator for their O365 account.

2.2. Application Registration

- 1. Login to azure portal from <u>https://portal.azure.com.</u>
- 2. Sign up with o365 Global administrator account.
- 3. Click App Registration from the list of Azure services on the home page.



- 4. In the App registrations page, click New Registration
- In the Register application screen enter the name of the application and under supported account types, select "Accounts in any organizational directory (Any Azure AD directory - Multitenant) and personal Microsoft accounts (e.g. Skype, Xbox)".

Register an application
* Name
The user-facing display name for this application (this can be changed later).
test app registration 🗸
Supported account types
Who can use this application or access this API?
O Accounts in this organizational directory only (Remote Backup Systems only - Single tenant)
 Accounts in any organizational directory (Any Azure AD directory - Multitenant)
 Accounts in any organizational directory (Any Azure AD directory - Multitenant) and personal Microsoft accounts (e.g. Skype, Xbox)
O Personal Microsoft accounts only
Help me choose
n Hounnaith N
By proceeding, you agree to the Microsoft Platform Policies 🖉
Register

- 6. Click Register
- 7. The application registration process completes and displays the application details.

賎 test app registrati	ion	¢ …		>
P search (Ctrl+/)	«	🏽 Delete 🌐 Endpoints 🔤 Preview features		
Overview	^	Got a second? We would love your feedback on Microsoft identity pl	llatform (previously Azure AD for developer). $ ightarrow$	
🗳 Quickstart 🕺 Integration assistant	l	Essentials Display name : test app registration	Supported account types : All Microsoft account users	
Manage	L	Application (client) ID : e674ef5f-cb83-4bf4-aff5-c10e4c0c3434	Redirect URIs : Add a Redirect URI	
 Branding Authentication 		Directory (tenant) ID : c650f425-84b0-49f1-86a6-bad39f8a29a2 Object ID : d9fb32ae-7d77-4bf3-9ed3-7be8027eafef	Application ID URI : Add an Application ID URI Managed application in L : test app registration	
Certificates & secrets Token configuration	l	Welcome to the new and improved App registrations. Looking to learner	arn how it's changed from App registrations (Legacy)? Learn more	×
API permissions Expose an API	l	Starting June 30th, 2020 we will no longer add any new features to A support and security updates but we will no longer provide feature u Graph. Learn more	sure Active Directory Authentication Library (ADAL) and Azure AD Graph. We will continue to provide technical updates. Applications will need to be upgraded to Microsoft Authentication Library (MSAL) and Microsoft	×
App roles Preview	ł	A Starting November 9th, 2020 end users will no longer be able to gran	nt consent to newly registered multitenant apps without verified publishers. Add MPN ID to verify publisher	×
 Roles and administrators Pr Manifest 	~	Call APIs	Documentation	

- 8. Make a note of Application (Client ID).
- 9. In the left navigation pane, click "Certificates & Secrets" link.

test app registration 🖉 🐇							
	🖲 Delete 🕀 Endpoints 📴 Preview features						
Overview	Got a second? We would love your feedback on Microsoft identity platform (previous)	Got a second? We would love your feedback on Microsoft identity platform (previously Azure AD for developer). →					
🗳 Quickstart							
🚀 Integration assistant	Display name : test app registration	Supported account types : All Microsoft account users					
Manage	Application (client) ID : e674ef5f-cb83-4bf4-aff5-c10e4c0c3434	Redirect URIs : Add a Redirect URI					
Branding	Directory (tenant) ID : c650f425-84b0-49f1-86a6-bad39f8a29a2	Application ID URI : Add an Application ID URI					
Authentication	Object ID : d9fb32ae-7d77-4bf3-9ed3-7be8027eafef	Managed application in I : test app registration					
📍 Certificates & secrets	Certificates & secrets						
Token configuration							
API permissions	Starting June 30th, 2020 we will no longer add any new features to Azure Active Di	irectory Authentication Library (ADAL) and Azure AD Graph. We will continue to provide technical	×				
🙆 Expose an API	support and security updates but we will no longer provide feature updates. Appli Graph. Learn more	support and security updates but we will no longer provide feature updates. Applications will need to be upgraded to Microsoft Authentication Library (MSAL) and Microsoft Graph. Learn more					
🚨 App roles Preview							
Owners	Starting November 9th, 2020 end users will no longer be able to grant consent to	Starting November 9th, 2020 end users will no longer be able to grant consent to newly registered multitenant apps without verified publishers. Add MPN ID to verify publisher ×					
Roles and administrators Pr							
Manifest	Call APIs	Documentation					

10. In the Certificates & Secrets page, Click New Client Secret under Client Secrets section.

🔶 test app registration Certificates & secrets 👒 🚥						
Search (Ctrl+/)	🛇 Got feedback?					
Overview						
🍊 Quickstart	↑ Upload certificate					
💉 Integration assistant	Thumbprint		Start date	Expires	ID	
Manage	No certificates have been added for this application	ation.				
🚍 Branding						
Authentication						
📍 Certificates & secrets	Client secrets					
Token configuration	A secret string that the application uses to prov	e its identity when rec	uesting a token. Also car	n be referred to as applic	ation password.	
API permissions	+ New client secret					
🔷 Expose an API	Description	Expires	Value		ID	
🔉 App roles Preview	Description	Expires	value			
Owners	No client secrets have been created for this app	plication.				
Roles and administrators Pr						
🔟 Manifest						

11. In the Add a Client Secret window, enter the description of the client secret and select "Never" under expired options and click Add button.

🛉 test app registration Certificates & secrets 🛷 …							
₽ Search (Ctrl+/)	« 🛇 Got feedback?						
Overview	Add a client secret						
📣 Quickstart	Description						
💉 Integration assistant	test secret						
Manage	Expires						
🔤 Branding	O in 1 year						
Authentication	Never						
📍 Certificates & secrets							
Token configuration	Add						
API permissions	A number of the second s						
🙆 Expose an API							
🐣 App roles Preview	Description Expires Value ID						
B Owners	No client secrets have been created for this application.						
Roles and administrators Pr							
10 Manifest	v						

12. New client secret is added. Copy the value of the client secret.

💡 test app registration Certificates & secrets 🛷 🚥						>
Search (Ctrl+/)	🛇 Got feedback?					
Overview	Copy the new client secret value. You work	n't be able to retrieve it a	fter you perform another opera	tion or leave this blade.		
 Quickstart Integration assistant 	T					
Manage	↑ Upload certificate Thumbprint		Start date	Expires	ID	
Branding	No certificates have been added for this app	blication.				
Certificates & secrets						
Token configuration	Client secrets					
 API permissions Expose an API 	A secret string that the application uses to p	rove its identity when	requesting a token. Also can	be referred to as appli	cation password.	
🎥 App roles Preview	+ New client secret					
Owners	Description	Expires	Value		ID	
Roles and administrators Pr	test secret	12/31/2299	69kjQ37K-MG1rq.scB~	9cKUS63-ihK3l9a 🗈	1dc55613-efa5-4c91-9208-dd1913fb1285	D 📋
🔟 Manifest						

Note: Copy the client secret value. You will not be able to retrieve this value later.

2.3. Configuring Permissions

The administrator needs to add a specific set of application permissions to perform O365 backup and restore. The following are the steps to add API permissions:

1. Click API permissions link on the left navigation pane from the newly registered application.

Version 1.5

眼 test app registrati	on 🖈				×
Search (Ctrl+/)	🚺 Delete 🌐 Endpoint	ts 💀 Preview features			
Overview	Got a second? We would	ld love your feedback on Microsoft identity platform (pre	eviously Azure AD for developer). \rightarrow		
QuickstartIntegration assistant	▲ Essentials Display name : tes	t app registration	Supported account types	: All Microsoft account users	
Manage	Application (client) ID : e6	74ef5f-cb83-4bf4-aff5-c10e4c0c3434	Redirect URIs	: Add a Redirect URI	
Branding	Directory (tenant) ID : c6 Object ID : d9	50f425-84b0-49f1-86a6-bad39f8a29a2 fb32ae-7d77-4bf3-9ed3-7be8027eafef	Application ID URI Managed application in I.	: Add an Application ID URI : test app registration	
Certificates & secrets Token configuration	Welcome to the new a	nd improved App registrations. Looking to learn how it's	changed from App registrations (Legacy)? Lo	earn more	×
 API permissions Expose an API 	Starting June 30th, 202 support and security u Graph. Learn more	0 we will no longer add any new features to Azure Active pdates but we will no longer provide feature updates. Ap	Directory Authentication Library (ADAL) and plications will need to be upgraded to Micros	Azure AD Graph. We will continue to provide technical oft Authentication Library (MSAL) and Microsoft	×
App roles Preview	A Starting November 9th	, 2020 end users will no longer be able to grant consent t	o newly registered multitenant apps without	verified publishers. Add MPN ID to verify publisher	×
 Roles and administrators Pr Manifest 	 Call APIs 		Documentation		

The API permission page appears.

	API permissions 🖈 …	×
✓ Search (Ctrl+/) «	🕐 Refresh 🔰 🛇 Got feedback?	
Overview		
 Quickstart Integration assistant 	▲ Starting November 9th, 2020 end users will no longer be able to grant consent to newly registered multitenant apps without verified publishers. Add MPN ID to verify publisher	×
Manage	The "Admin consent required" column shows the default value for an organization. However, user consent can be customized per permission, user, or app. This column may not reflect	athe ×
Branding	value in your organization, or in organizations where this app will be used. Learn more	
Authentication Certificates & secrets Token configuration	Configured permissions Applications are authorized to call APIs when they are granted permissions by users/admins as part of the consent process. The list of configured permissions should include all the permissions the application needs. Learn more about permissions and consent	
API permissions	+ Add a permission ✓ Grant admin consent for Remote Backup Systems	
🗠 Expose an API	API / Permissions name Type Description Admin consent reg., Status	
🐣 App roles Preview	✓Microsoft Granh (1)	
Owners	Iker Read Delegated Sign in and read user profile No	
 Roles and administrators Pr Manifest 		

2. Click Add a Permission. Request API permissions screen appears.



3. Under Microsoft APIs tab, click Microsoft Graph API.



Microsoft Graph API permissions window appears.

4. In the Microsoft Graph API permissions window, click Application Permissions.



This select permissions option is now available. The administrator can search the permissions from the search box and add them.

Home > App registrations > test app registration		Request API permissions	×
test app registrat Search (Ctrl+/) overview	ion API permissions ☆ « C Refresh ♡ Got feedback?	C All APIs Microsoft Graph https://graph.microsoft.com/ Docs C ² What type of permissions does your application require?	
 Quickstart Integration assistant 	A Starting November 9th, 2020 end u:	Delegated permissions Your application needs to access the API as the signed-in user.	Application permissions Your application runs as a background service or daemon without a signed-in user.
Manage Branding	 The "Admin consent required" colu value in your organization, or in org 	Select permissions	expand all
 Authentication Certificates & secrets 	Configured permissions Applications are authorized to call APIs	P Start typing a reply url to filter these results Permission	Admin consent required
 Token configuration API permissions 	include all the permissions the applicat + Add a permission ✓ Grant ad	> AccessReview	
Expose an API App roles Preview	API / Permissions name	AdministrativeUnit AgreementAcceptance	
Owners Roles and administrators Pr	User.Read		
ivianitest	 To view and manage permissions and i 	Add permissions Discard	

5. In the search box, type files. The list of permissions related to files appears.

Home > App registrations > test app registration		Request API permissions	×
🔔 test app registration API permissions 🛷			
Search (Ctrl+/)	Refresh \heartsuit Got feedback?	K All APIS Microsoft Graph https://graph.microsoft.com/ Docs of What type of permissions does your application require?	
 Quickstart Integration assistant 	A Starting November 9th, 2020 end u:	Delegated permissions Your application needs to access the API as the signed-in user.	Application permissions Your application runs as a background service or daemon without a signed-in user.
Manage	1 The "Admin consent required" colu		
🔜 Branding	value in your organization, or in org	Select permissions	expand all
Authentication	Configured permissions	,₽ files	×
📍 Certificates & secrets	Applications are authorized to call APIs	Permission	Admin consent required
Token configuration	include all the permissions the applicat	X etc.	
- API permissions	+ Add a permission ✓ Grant ad	/ Files	
🗠 Expose an API	API / Permissions name	> OnPremisesPublishingProfiles	
🎥 App roles Preview	Misraraft Grank (1)		
Owners	 Microsoft Graph (1) 		
Roles and administrators Pr	User.Read		
Manifest	 To view and manage permissions and i 	Add permissions Discard	

6. Click the arrow next Files to expand and display files permissions.

Home > App registrations > test app registration		Req	uest API permissions	×
_{->-} test app registration API permissions 🛷			·	
P Search (Ctrl+/) «	🖒 Refresh 🛛 🛇 Got feedback?	K All AP	Pls ype of permissions does your application require?	
 Overview Quickstart 		Deleg Your	gated permissions application needs to access the API as the signed-in user.	Application permissions Your application runs as a background service or daemon without a signed-in user.
🚀 Integration assistant	A Starting November 9th, 2020 end us	Select	permissions	expand all
Manage	1 The "Admin consent required" colu	O file	·	
🔲 Branding	value in your organization, or in org	prine Dr	ermission	Admin consent required
Authentication	Configured permissions			Autorit Consent required
📍 Certificates & secrets	Applications are authorized to call APIs	∨ Fi	les	
Token configuration	include all the permissions the applicat		Files.Read.All 💿	Vec
-@- API permissions	+ Add a permission 🗸 Grant ad		Read files in all site collections	125
Expose an API	API / Permissions name		Files.ReadWrite.All ① Read and write files in all site collections	Yes
App roles Preview				

- 7. Select Files.Read.All and Files.ReadWrite.All and click Add Permissions.
- 8. In the similar way, add the following permissions.

-						
	✓ Microsoft Graph (16)					
	Directory.Read.All	Application	Read directory data	Yes	🤣 Granted for Remote Bac	
	Directory.ReadWrite.All	Application	Read and write directory data	Yes	🥑 Granted for Remote Bac	
	Files.Read.All	Application	Read files in all site collections	Yes	🥑 Granted for Remote Bac	
	Files.ReadWrite.All	Application	Read and write files in all site collections	Yes	🥑 Granted for Remote Bac	
	Mail.Read	Application	Read mail in all mailboxes	Yes	🥑 Granted for Remote Bac	
	Mail.ReadBasic	Application	Read basic mail in all mailboxes	Yes	🥑 Granted for Remote Bac	
	Mail.ReadBasic.All	Application	Read basic mail in all mailboxes	Yes	📀 Granted for Remote Bac	
	Mail.ReadWrite	Application	Read and write mail in all mailboxes	Yes	📀 Granted for Remote Bac	
	Mail.Send	Application	Send mail as any user	Yes	📀 Granted for Remote Bac	
	Sites.FullControl.All	Application	Have full control of all site collections	Yes	📀 Granted for Remote Bac	
	Sites.Manage.All	Application	Create, edit, and delete items and lists in all site collec	Yes	📀 Granted for Remote Bac	
	Sites.Read.All	Application	Read items in all site collections (preview)	Yes	Sranted for Remote Bac	
	Sites.ReadWrite.All	Application	Read and write items in all site collections (preview)	Yes	🤣 Granted for Remote Bac	

Directory.Read.All

- Directory.ReadWrite.All
- Files.Read.All
- Files.ReadWrite.All
- Mail.Read
- Mail.Read.Basic
- Mail.ReadBasic.All
- Mail.ReadWrite
- Mail.Send
- Sites.FullControl.All
- Sites.Manage.All
- Sites.Read.All
- Sites.ReadWrite.All
- 9. After adding all the permissions, the admin consent should be granted for all the selected permissions. Click " Grant admin consent for user"

-⊕- test app registration API permissions 🛷 …								
	earch (Clr1+/) « C Refresh C Got feedback?							
Overview								
Integration assistant	The "Admin consent required" co	olumn shows the d	efault value for an organization. Howev	er user consent can be customized per per	mission user or app. This column may not reflect	×		
Manage	the value in your organization, or	in organizations v	where this app will be used. Learn more	-,				
🔜 Branding	Configured permissions							
Authentication	Applications are authorized to call APIs when they are granted permissions by users/admins as part of the consent process. The list of configured permissions should							
📍 Certificates & secrets	include all the permissions the applic	include all the permissions the application needs. Learn more about permissions and consent						
Token configuration	🕂 Add a permission 🗸 Grant a	admin consent fo	r Remote Backup Systems					
 API permissions 	API / Permissions name	Туре	Description	Admin consen	at req Status			
Expose an API	✓ Microsoft Graph (3)			1		- 1		
🚑 App roles Preview	Files.Read.All	Application	Read files in all site collections	Yes	🤡 Granted for Remote Bac 🚥			
Owners	Files.ReadWrite.All	Application	Read and write files in all site colle	ections Yes	🤡 Granted for Remote Bac 🚥			
Roles and administrators Pr	User.Read	Delegated	Sign in and read user profile	No	🤡 Granted for Remote Bac 🚥			
11 Manifest						-		

- Similarly, API permissions should be added to Office 365 Exchange Online. Click API Permissions from left navigation pane and click Add Permission (Refer Steps 1 and 2).
 In the Description of the Permission (Refer Steps 1 and 2).
- 11. In the Request API Permissions screen, click on "APIs my organization uses" tab.

Home \ App registrations \ test app	registration					
nome > App registrations > test app registration		Request API permissions		×		
test app registration	n API permissions 🔗					
		Select an API				
P Search (Ctrl+/) «	C Refresh C Got feedback?	Microsoft APIs APIs my organization uses My APIs				
Source Contraction	 Successfully granted admin consen 	Apps in your directory that expose APIs are shown below				
Quickstart						
🚀 Integration assistant	1 The "Admin consent required" colu	Name	Application (client) ID			
Manage	the value in your organization, or in	Office 365 Management ADIs	c5202580-f805-4401-05e8-04b7a6ef2fc2			
🖬 Branding						
	Configured permissions Applications are authorized to call APIs include all the permissions the applicat	KaizalaActionsPlatform	9DD724a5-4639-438C-969D-e184D2D1e264			
		Office Delve	94c63fef-13a3-47bc-8074-75af8c65887a			
Certificates & secrets	include on the permissions the uppress	App Studio for Microsoft Teams	e1979c22-8b73-4aed-a4da-572cc4d0b832			
Token configuration	+ Add a permission 🗸 Grant ad	Microsoft SharePoint Online - SharePoint Home	dcad865d-9257-4521-ad4d-bae3e137b345			
API permissions	API / Permissions name	Office Agent Service	5225545c-3ebd-400f-b668-c8d78550d776			
Expose an API	✓ Microsoft Graph (3)	Office 365 Search Service	66a88757-258c-4c72-893c-3e8bed4d6899			
🐣 App roles Preview	Files.Read.All	Windows.Azure.DeviceRegistration	01cb2876-7ebd-4aa4-9cc9-d28bd4d359a9			
Owners	Files.ReadWrite.All	Skype and Teams Tenant Admin API	48ac35b8-9aa8-4d74-927d-1f4a14a0b239			
Roles and administrators Pr	Licer Read	Nicrosoft Customer Engagement Portal	71224da4.b02f.420d.b0ec.6e62652a50d7			
Manifest	osennedu	microsoft customer engagement roltal	/1254084-0921-4290-0802-080205285007			
~		Cortana at Work Bing Services	22d7579f-06c2-4baa-89d2-e844486adb9d			

12. In the search box type "Office 365 Exchange Online".

Home > App registrations > test app registration		Request API permissions	×
👴 test app registration API permissions 👒			
		Select an API	
	🕐 Refresh 🛛 💙 Got feedback?	Microsoft APIs APIs my organization uses My APIs	
Overview	Successfully granted admin consen	Apps in your directory that expose APIs are shown below	
📣 Quickstart			
d Internation assistant			
Integration assistant	The "Admin consent required" colu	Name	Application (client) ID
Manage	ine teles in your organization, or n	Office 365 Exchange Online	0000002-0000-0ff1-ce00-000000000000
🚍 Branding			

13. Click Office 365 Exchange Online from search results.

- 14. Click Application Permissions.
- 15. Add the following permissions. Refer Steps 5 to7 to add permissions.

>0	ffice 365 Exchange Online (7)					
	full_access_as_app	Application	Use Exchange Web Services with full access to all mail	Yes	🤡 Granted for Remote Bac	
	Mail.Read	Application	Read mail in all mailboxes	Yes	🤣 Granted for Remote Bac	
	Mail.ReadWrite	Application	Read and write mail in all mailboxes	Yes	🥑 Granted for Remote Bac	•••
	MailboxSettings.Read	Application	Read all user mailbox settings	Yes	🤣 Granted for Remote Bac	
	MailboxSettings.ReadWrite	Application	Read and write all user mailbox settings	Yes	🤣 Granted for Remote Bac	
	User.Read.All	Application	Read all users' full profiles	Yes	📀 Granted for Remote Bac	•••
	User.ReadBasic.All	Application	Read all users' basic profiles	Yes	🤡 Granted for Remote Bac	

- Full_access_as_app
- Mail.Read
- Mail.ReadWrite
- MailboxSettings.Read
- MailboxSettings.ReadWrite
- User.Read.All
- User.ReadBasic.All
- 16. After adding all the permissions, the admin consent should be granted for all the selected permissions. Click " Grant admin consent for user". Refer step 9.
- 17. The API permissions are added.