

Method	Scopes	Client / Tenant ID	Unattended	AAD App configuration	Token refresh
Device-code logon (default)	Selected via -Scopes parameter, or via Set-GraphConnectionOptions (in AuthSettings.PS1). Consent dialog.	Always Microsoft Graph PowerShell Tenant optional	No	Always uses Microsoft Graph PowerShell. (Consent may be pre-approved)	Inside. Authentication module (refresh token saved)
Username/Password (-Credential)	Must be assigned to app (scopes option ignored)	Any client Tenant required	Yes (if credentials available)	Well know or registered apps (consent must be granted)	Inside PlusPlus module (refresh token not saved)
As App (-AsApp) (using app secret)	Must be assigned to app (scopes option ignored)	Registered App & Tenant required	Yes	Registered app, with secret (consent must be granted)	Inside PlusPlus module (refresh token not saved)
As App (-Certxxx) (using app certificate)	Must be assigned to app (scopes option ignored)	Registered App & Tenant required	Yes (if certificate & private key available)	Registered app, with cert (consent must be granted)	Inside. Authentication module (no refresh token)
Existing Azure Session (-FromAzureSession)	Fixed	Always Microsoft Azure PowerShell	Yes (if Azure logon is unattended)	None	Inside PlusPlus module. (no refresh token)
Custom Token (-Token)	Grant method dependent	Grant method dependent	Grant method dependent	Grant method dependent	Manual

For details of certificate configuration see <https://docs.microsoft.com/en-us/graph/powershell/agpp-only>.

This page also gives a useful guide to creating the app for use with secrets, simply skip the creation of the certificate and at the step “Select Certificates & secrets under Manage, select” select the add secret button instead of the Upload certificate button”.

Connect-Graph in the Microsoft.Graph.PlusPlus module is a wrapper for the Connect-MgGraph cmdlet from the Microsoft.Graph.Authentication module to add the following:

- Automatic requesting of the same set of scopes for each session
- Logging on with user credentials
- Logging on as the app using a secret
- Using an existing Azure PowerShell session (with the Az.Accounts module)
- Caching of extra account information for performance
- Confirmation of the account used to logon.

If you only use interactive device-code logon or app logon using certificates, or you create tokens in your own code , you are free to go directly to Connect-MgGraph.