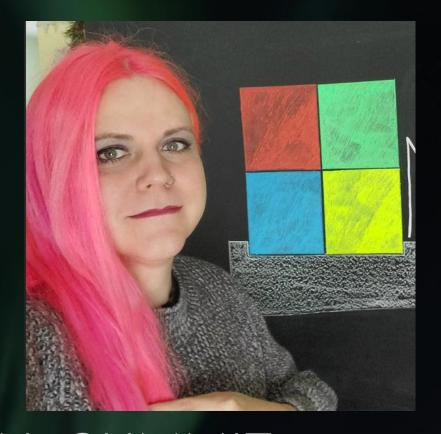
# Graph and PowerShell with Windows 365

- Donna Ryan
- Senior PM Microsoft
- Windows 365 CxE CAT
- Former MVP
- @TheNotoriousDRR

Official sponsors







ORDC - VIRTUAL SUMMIT -

## **Graph API Basics**



- Graph Connection
  - Connects to Azure
  - Works over HTTP
  - Needs Tenant ID/App ID/Auth(Cred, cert, secret) to get Auth Token
  - Request sent as URL
- Two Versions (Profiles)
  - V1.0
  - Beta

Windows 365 feature parity

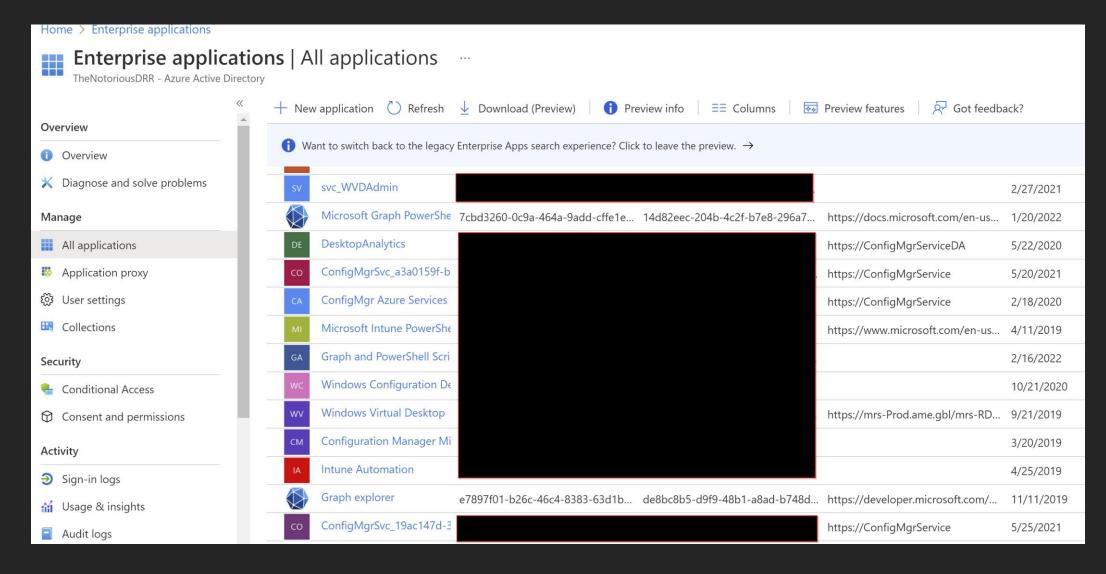
### Access and Scopes

NORDIC - VIRTUAL SUMMIT -

- Graph Connection Type
  - Delegated Access
    - User Auth
    - Credential Prompt
  - App-Only Access
    - Secrets/Certs
- Scopes for Windows 365
  - CloudPC.Read.All
  - CloudPC.ReadWrite.All

# Public Apps





#### Demo



- Graph Explorer Demo
  - Beta vs v1.0
  - Get Cloud PC
- API Docs vs PowerShell Docs

#### PowerShell Graph SDK



- PowerShell Graph SDK
  - Microsoft.Graph Module
  - Default uses Public Enterprise App
    - No need for App or Tenant ID uses user auth
    - Delegated
  - Automation
    - Custom App Registration
    - Certificate Auth
    - Self Signed or PKI

#### PowerShell Modules



- Native Graph API Calls via PowerShell
  - Msal.ps
- PowerShell Commandlets for Windows 365
  - Microsoft.Graph
    - Microsoft.Graph.DeviceManagement.Functions
    - Microsoft.Graph.DeviceManagement.Administration
    - Microsoft.Graph.DeviceManagement.Enrolment
    - Microsoft.Graph.Users.Functions
    - Microsoft.Graph.DeviceManagement.Actions
    - Microsoft.Graph.Users.Actions

## **Getting Commandlets**



get-command -module microsoft.graph\* \*cloudpc\*

```
PS C:\Windows\system32> get-command -module microsoft.graph* *cloudpc*
CommandType
                                                                   Version
                                                                              Source
                Name
Function
                Get-MgDeviceManagementComanagedDeviceCloudPcRem... 1.9.3
                                                                              Microsoft.Graph.DeviceManagement.Functions
Function
                Get-MgDeviceManagementDeviceComplianceScriptDev... 1.9.3
                                                                              Microsoft.Graph.DeviceManagement.Functions
                Get-MgDeviceManagementDeviceCustomAttributeShel... 1.9.3
                                                                              Microsoft.Graph.DeviceManagement.Functions
Function
Function
                Get-MgDeviceManagementDeviceCustomAttributeShel... 1.9.3
                                                                              Microsoft.Graph.DeviceManagement.Functions
                Get-MgDeviceManagementDeviceHealthScriptDeviceR... 1.9.3
                                                                              Microsoft.Graph.DeviceManagement.Functions
Function
                Get-MgDeviceManagementDeviceShellScriptDeviceRu... 1.9.3
                                                                              Microsoft.Graph.DeviceManagement.Functions
Function
                                                                              Microsoft.Graph.DeviceManagement.Functions
Function
                Get-MgDeviceManagementDeviceShellScriptUserRunS... 1.9.3
Function
                Get-MgDeviceManagementManagedDeviceCloudPcRemot... 1.9.3
                                                                              Microsoft.Graph.DeviceManagement.Functions
                Get-MgDeviceManagementScriptDeviceRunStateManag... 1.9.3
                                                                              Microsoft.Graph.DeviceManagement.Functions
Function
                Get-MgDeviceManagementScriptUserRunStateDeviceR... 1.9.3
                                                                              Microsoft.Graph.DeviceManagement.Functions
Function
Function
                Get-MgDeviceManagementVirtualEndpointCloudPC
                                                                   1.9.3
                                                                              Microsoft.Graph.DeviceManagement.Administration
Function
                Get-MgRoleManagementCloudPc
                                                                   1.9.3
                                                                              Microsoft.Graph.DeviceManagement.Enrolment
Function
                Get-MgRoleManagementCloudPcResourceNamespace
                                                                   1.9.3
                                                                              Microsoft.Graph.DeviceManagement.Enrolment
                Get-MgRoleManagementCloudPcResourceNamespaceRes... 1.9.3
                                                                              Microsoft.Graph.DeviceManagement.Enrolment
Function
Function
                Get-MgRoleManagementCloudPcResourceNamespaceRes... 1.9.3
                                                                              Microsoft.Graph.DeviceManagement.Enrolment
                Get-MgRoleManagementCloudPcRoleAssignment
                                                                   1.9.3
                                                                              Microsoft.Graph.DeviceManagement.Enrolment
Function
                                                                              Microsoft.Graph.DeviceManagement.Enrolment
                Get-MgRoleManagementCloudPcRoleAssignmentAppScope 1.9.3
Function
```





```
Get-MgDeviceManagementComanagedDeviceCloudPcRemoteActionResult
Get-MgDeviceManagementDeviceComplianceScriptDeviceRunStateManagedDeviceCloudPcRemoteActionResult
Get-MgDeviceManagementDeviceCustomAttributeShellScriptDeviceRunStateManagedDeviceCloudPcRemoteActionResult
Get-MgDeviceManagementDeviceCustomAttributeShellScriptUserRunStateDeviceRunStateManagedDeviceCloudPcRemoteActionResult
Get-MgDeviceManagementDeviceHealthScriptDeviceRunStateManagedDeviceCloudPcRemoteActionResult
Get-MgDeviceManagementDeviceShellScriptDeviceRunStateManagedDeviceCloudPcRemoteActionResult
Get-MgDeviceManagementDeviceShellScriptUserRunStateDeviceRunStateManagedDeviceCloudPcRemoteActionResult
Get-MgDeviceManagementManagedDeviceCloudPcRemoteActionResult
Get-MgDeviceManagementScriptDeviceRunStateManagedDeviceCloudPcRemoteActionResult
Get-MgDeviceManagementScriptUserRunStateManagedDeviceCloudPcRemoteActionResult
Get-MgDeviceManagementScriptUserRunStateDeviceRunStateManagedDeviceCloudPcRemoteActionResult
Get-MgDeviceManagementScriptUserRunStateDeviceRunStateManagedDeviceCloudPcRemoteActionResult
Get-MgDeviceManagementVirtualEndpointCloudPC | fl
```

#### [API/Verb]-Mg[API Path]

#### -Example:

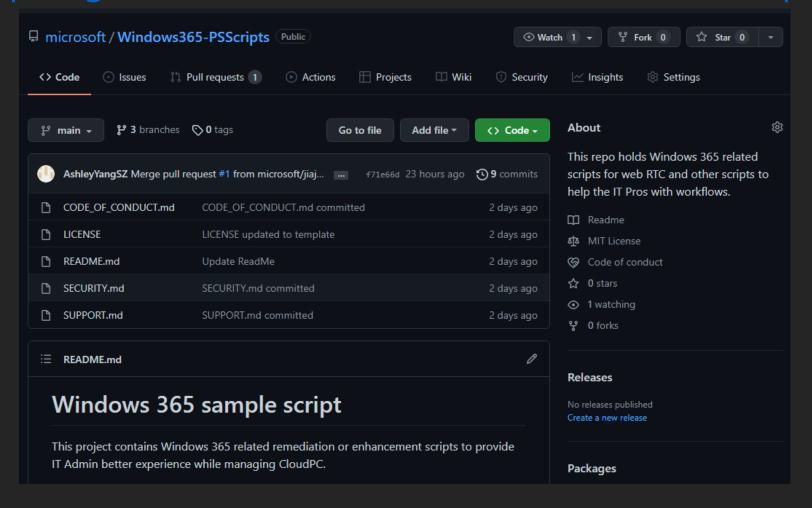
GET https://graph.microsoft.com/beta/deviceManagement/virtualEndpoint/deviceImages

Get-MgDeviceManagementVirtualEndpointDeviceImage

# GitHub Repo



https://github.com/microsoft/Windows365-PSScripts/tree/main



#### Feedback



- We love it
- Used to justify new feature requests
- Give early, give often

#### Supporting Documentation



- Graph and PowerShell commands
  - <u>cloudPC resource type Microsoft Graph beta | Microsoft Docs</u>
- Setup and High Level
  - Install the Microsoft Graph PowerShell SDK Microsoft Graph Microsoft Docs
- Graph Explorer Microsoft Graph

# Demo

