



Purview APIs via PowerShell

Sept 2021





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TOC

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- Why we need PS Interface?
- What alternatives are there?
- Pre-Req To Use The Tool
- Interactive Modes Vs Automation
- Sample API : Simple ReadTypeDefs
- Sample API : Read Azure Key Vaults
- > Sample API : Read Scan Rule Sets
- Sample API : Read Scans
- > Sample API : List All Collections
- Metadata-Policy APIs Tutorial (Collections Auth via Purview API)
 - Read All Roles
 - **>** Read All Built-in Permissions and Role Mappings
 - Fetch Policy by PolicyID
 - > Fetch Policy by CollectionName
 - Fetch All Policies
 - > Update Policy (Add or Remove Users or Groups or SPNs)
- Known Limitations
- Future Work





Why PowerShell?

- > For Automation & Scripting.
- > Built For Recurring Tasks like scheduled reports or scanning.
- PowerShell most Windows & Azure friendly command-line.
- Strong Demand from Large Enterprise Customers.
- > Azure Portal Powershell costs money so customers avoid it
- > Easy to get Access-Token to run the APIs
- Use cases that aren't prioritized on Roadmap via UI
 - Due to Planning or Time Constraints
 - Due to Business Reasons
 - For Example: Delete Purview Account is not a business-friendly operation





Alternatives?

Purview CLI (Python)

- Very easy to use
- > Recommended more than generic tools like curl or postman

> Azure ARM Template

> Cons: Not friendly for custom scripts, works very well for pre-determined use cases.

Browser Network Explorer

- Pros: great for debugging
- Cons: not useful for anything other than GET / Read actions.

> cURL

Cons: Difficult & messy to fetch Access Token

Postman

- Cons: Difficult & messy to fetch Access Token
- > Cons: Difficult to code if using automation or scripts

> Other Tools like cURL or Postman





Pre-Requisites To Use The PowerShell Tool

- PowerShell v7 Windows binaries
- ➤ Minimum "Data Reader" Role on the Purview Account → For Read APIs
- Minimum "Data Curator" Role on the Purview Account → For Write APIs (PUT, POST, DELETE, etc.)





UsageTo Run The PowerShell Tool

- Go → https://aka.ms/purview-api-ps
- Download ZIP File
- > Extract To A Folder.
- Open Powershell 7 as Administrator
- CD {Unzipped_Folder}. [Where the files were unzipped]
- Run
- \Purview-API-PowerShell.ps1 -PurviewAccountName {your_purview_account_name}

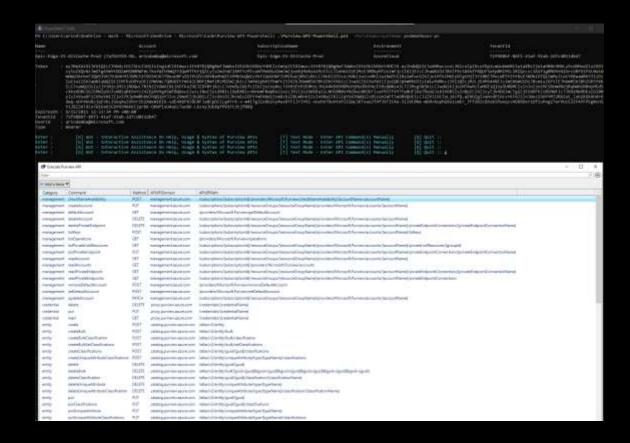




Interactive Mode

Vs

Automation



- >> purview-api-powershell -command "GET https://pvdemohkoxs-pv.scan.purview.azure.com/datasources/AzureSqlDatabase/scans?&api-version=2021-07-01"
- $>> purview-api-powershell \ -command \ "GET \ \underline{https://pvdemohkoxs-pv.scan.purview.azure.com/classificationrules? \& api-version = 2021-07-01"$
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Sample API : Read TypeDefs

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Sample API: Read ScanRuleSets

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"version": 1.		SCR0	readCatasource	GET	eran punies arure com	/datasourras/(datafolorishlems)/scars			
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Sample API : Read AzureKeyVaults

[T] Text Mode -

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API Request :-> https://pvdemohkoxs-pv.scan.purview.azure.com/azureKeyVaults?&api-version=2021-07-01
Domain: pvdemohkoxs-pv.scan.purview.azure.com
Ready To Execute :::::: API Request :-> GEThttps://pvdemohkoxs-pv.scan.purview.azure.com/azureKeyVaults?&api-ve
 Invoking API : Sending Request ...
API Response Received :->
  "value": [
      "properties": {
        "baseUrl": "https://pvdemohkoxs-keyvault.vault.azure.net/",
        "description": "'
       id": "/subscriptions/0543974b-0460-4777-844a-5adfe387f907/resourceGroups/scanning-prod-australiaeast/prou"
iders/Microsoft.Purview/accounts/purview-21b9059a-6c96-4c61-9839-4c8b4e798d3e/linkedservices/keyVault-6Z6",
      "name": "keyVault-6Z6"
  "count": 1
Ticks
                  : 16291047
Days
                  : 0
Hours
                  : 0
Milliseconds
                  : 629
Minutes
                  : 0
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TotalDays
                  : 1.88553784722222E-05
TotalHours
                  : 0.000452529083333333
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                [G] GUI - Interactive Assistance On Help, Usage & Syntax of Purview APIs
                                                                                                    [T] Text Mode -
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[G] GUI - Interactive Assistance On Help, Usage & Syntax of Purview APIs





Sample API: Read Atlas Types Statistics

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   "typeStatistics": (
     "azure_sql_view": (
"count": 3
     "ature_sql_server": (
"count": 1
     "azure_sql_schema": (
"count": 2
     "adf_copy_activity": (
"coont": 1
      "azure_datalake_gen2_service": (
       "coont": 1
     "AtlasGlossary": (
"count": 1
     "azure_datalake_gen}_filesystem": (
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     "azure_sql_table": (
"count": 12
      "azure_datalake_gen2_path": (
     "azure_data_factory": (
      "azure_datalake_gen2_resource_set": {
     "AtlasGlossaryTerm": (
"count": $1
     "azure_sql_db": (
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                       11090580
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                     : 1.28363194444444E-05
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Sample API: List All Collections

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#y3moKA10E3KY3QCCC3mpGe1053Shc13H5Le5mgidCl6Cmuc+1E3H103QdgmcC3mhcdYc67b3AcSycrymcCs2mtp2Cl1Cmuc+LE4FE3QdgmcC3AbcxYc63b1b8shc44HC39, #y3moKQ10L3mmHc2xyA3BLcn7p2Xcuy
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        My To Security [1111] API Report 1:5 667/ https://doi.org/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10.pr/10
         value": I
                        Createdby, 27038202-8400-8601-850-299031

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                           InstitudifiedhyType": "User",
Lastfestifiedat": "2021-00-36717:23:53.04484142"
                     collectionProvisionIngState": "Nucroeded"
                 "nome": "spabdf",
"friendlyNume": "Sales":
"seconticallection": |
"type": "CollectionSeference".
                     cystembuta": {
    "createdBy": "3f856762-e440-4563-5e56-e503e37d6458";
                           createdat" "Deuz em 19737 BB: 35.0187Merz"
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                     collection@rowiningingState": "Socceeded"
                  "nume": "qu45fb",
"fr]endlybase": "Burketing",
"parentialization": {
   type", "collectionEnferency",
   "referenceHam": "fabrikamporision"
                             resteaby": "21656762-8848-8563-9858-889341746468",
                         lastModifiedBy*vpe*; "Uses";
'lastModifiedAt': "2021-09-15717:38:49.73418927'
                     callection#modsioningstate": "Succorded"
                           crestedByType": "Hest",
crestedAt": "2021-09-16T17:39:00-1521A542".
                         lestrodifiedBy", "yfeborko e4de 4beo mehe ambilitzande",
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lastrodifiadB4": "2021-09-18717:30-03.10214882"
                     collection@rowlklumingState": "Surreeded"
                  "name": "gaquet",
"FriendlyNume": "inglementing",
"purentCollection" {
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"referencement": "fabrikampure
                         Createdpityer, "User",
Createdpit', '2001 au 16737 39:17-13070481",
LastMoolfiadsy: '27640762 e448-4562-9466-890101/46458",
LastMoolfiadsyType': "User",
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Metadata-Policy-API Tutorial

MetadataPolicy Collection Auth APIs Tutorial.docx

TUTORIAL HOW-TO STEPS

- 1. Read All Roles
- 2. Read All Built-in Permissions and Role Mappings
- 3. Fetch All Policies In The Purview Account.
- 4. Select PolicyID to Modify.
- 5. Fetch Policy by PolicyID.
- 6. Fetch Policy by CollectionName.
- 7. Update Policy (Add or Remove Users or Groups or SPNs)

API Function	REST Method	API Endpoint	Description
readMetadataRoles		https://{your-purview-account- name}.purview.azure.com/policystore/metadataroles	Reads all metadata roles from your purview account
readMetadataPolicyByCollection GET		name}.purview.azure.com/policystore/collections/{collectionName}/m	Reads MetadataPolicy by a given collection name (not friendly/display name but the name generated by Purview while creating the policy)
		, , ,	Reads MetadataPolicy by a given PolicyID. Policy ID is in GUID format.
readAllMetadataPolicies GET		name}.purview.azure.com/policystore/metadataPolicies	Reads all metadata policies from your purview account. You can pick a certain policy to work with from the JSON output list emitted by this API.
putMetadataPolicy PUT		, , ,	Updates MetadataPolicy by a given PolicyID. Policy ID is in GUID format.





Known Limitations

- ➤ Not 100% automation friendly yet
- ➤ Need to add the ability to save intermediate JSON outputs on disk and let them be used for subsequent API calls.
- > Parsing JSON.





Future Work

Coming Soon

- ➤ Non-Interactive Batch Operation Mode & Batch Command Execution
- Cron-Jobs / run on specified time or scheduled run
- > Recommendations to customer on scan frequency

Future Work