Update Conditional Access policy to update IPV6 Named Location using the Graph Explorer

An Azure AD Solution Guide

This guide walks you through how to modify an existing Conditional Access Policy to update the NameLocation.

**Note :**

The current guide is based on the **Private Preview** and some options might change in future

This user is required to have appropriate roles to complete the operations, example Global admin/Conditional Access Administrator. However, you might need Global Admin the first time if you need to enable the Canary endpoint.

# Desired Outcome

You should be able to update the existing CA Policies and verify the change using the Graph Explorer.

# Pre-requisites

1. Enable Canary Endpoint for the Graph Explorer.

Enable and assign permissions to Access the CA APIs using the Canary endpoint.

1. Login as **Global Administrator**
2. Navigate to [https://developer.microsoft.com/graph/graph-explorer/#mode=canary](https://nam06.safelinks.protection.outlook.com/?url=https%3A%2F%2Fdeveloper.microsoft.com%2Fgraph%2Fgraph-explorer%2F%23mode%3Dcanary&data=04%7C01%7Cjeevan.bisht%40microsoft.com%7Cec5c4feb91364f1b7ccc08d6a1c25145%7C72f988bf86f141af91ab2d7cd011db47%7C1%7C0%7C636874253293385317%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C-1&sdata=2j3f6Sf4l6OHd0W05CIUh7cMJ%2B0F%2BgsZ3eYWRr9sYl8%3D&reserved=0)
3. Sign in by clicking the “Sign In with Microsoft” button on the sidebar to the left
4. After signing in, the button should be replaced with the user’s name and UPN. Below the UPN, there should be a link called *modify permissions*
5. Select *Directory.AccessAsUser.All* and *Policy.ReadWrite.ConditionalAccess*  in the list that comes up and click on *Modify Permissions*
6. You might need to sign-in again and consent to the permissions being granted to the app

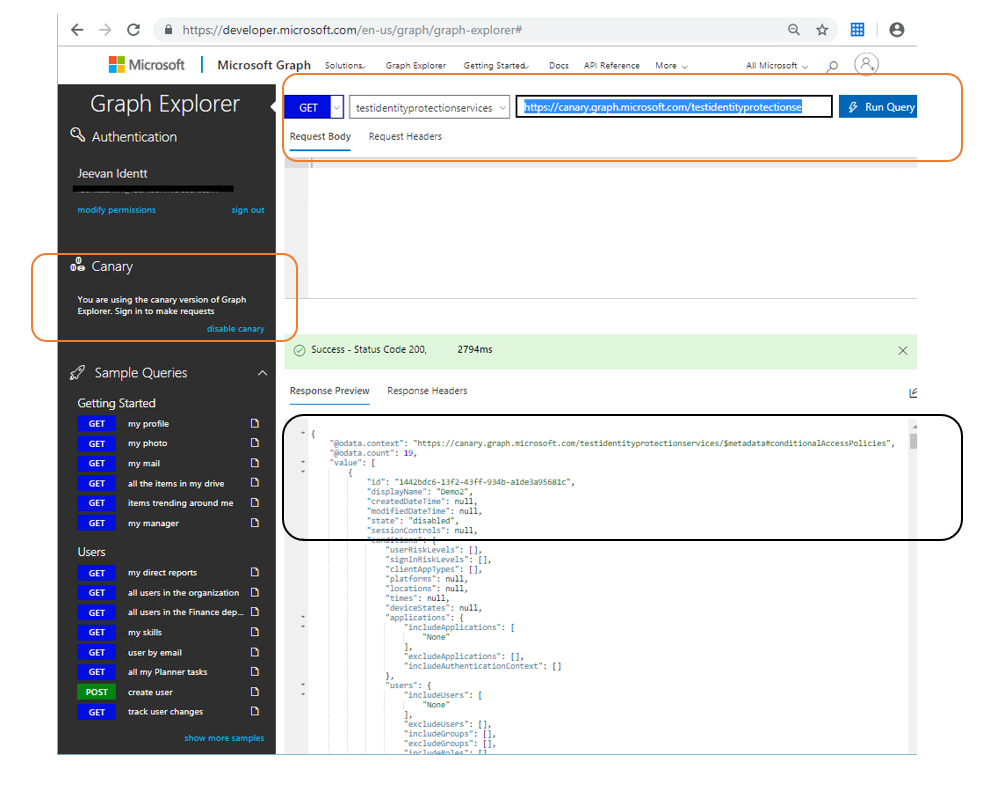
You should now be able to query the CA ([https://canary.graph.microsoft.com/testidentityprotectionservices/conditionalaccesspolicies](https://nam06.safelinks.protection.outlook.com/?url=https%3A%2F%2Fcanary.graph.microsoft.com%2Ftestidentityprotectionservices%2Fconditionalaccesspolicies&data=04%7C01%7Cjeevan.bisht%40microsoft.com%7Cec5c4feb91364f1b7ccc08d6a1c25145%7C72f988bf86f141af91ab2d7cd011db47%7C1%7C0%7C636874253293395309%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C-1&sdata=8Qy87oI%2F%2BMK8g%2Fqc5RSHjJUbZ2p63Qw3nzJpyWVeGHg%3D&reserved=0))

1. Login as a Global Administrator or Conditional Access Administrator if your canary endpoint is already enabled.

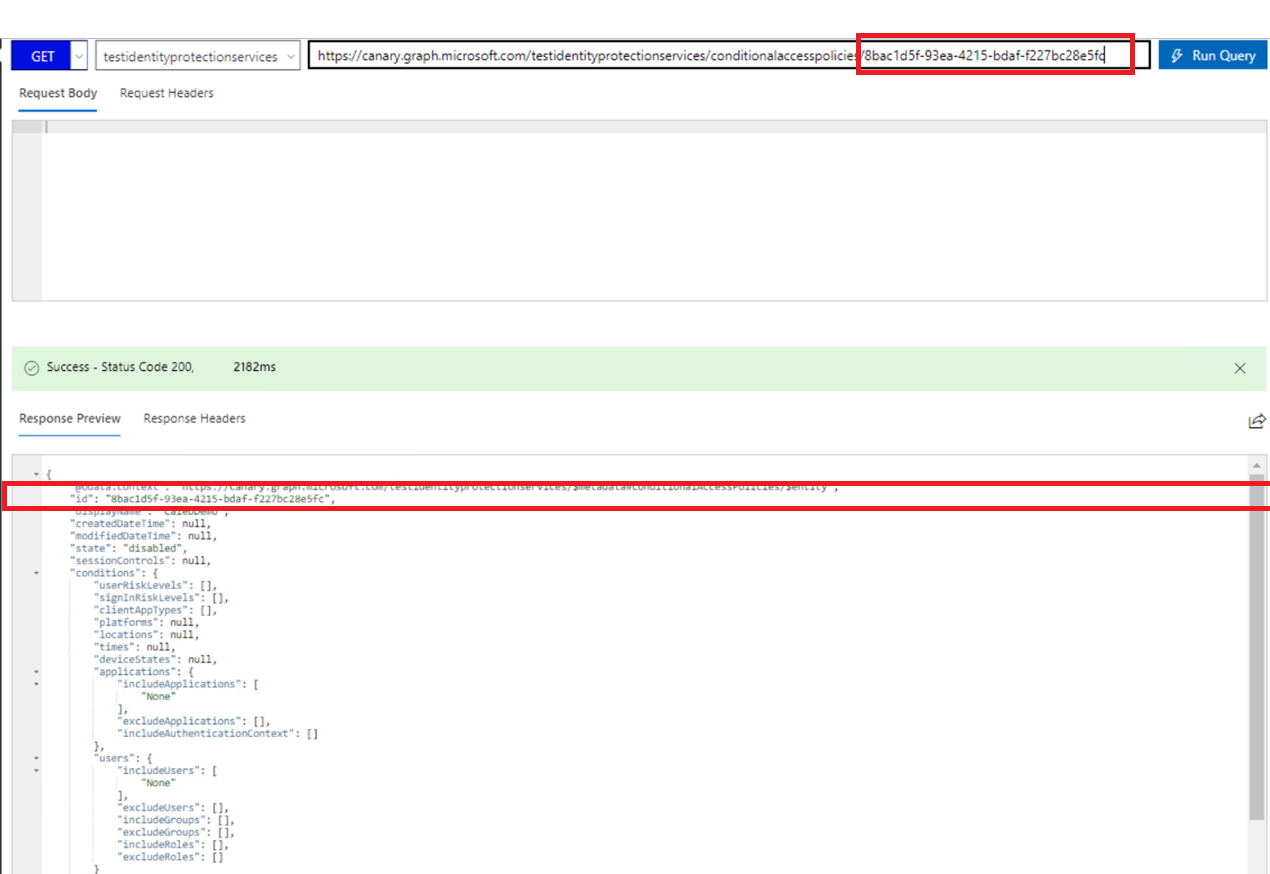
# Steps to implement

***Task 1: Get the required Policy Conditional Access Policies***

1. Log in to [https://developer.microsoft.com/en-us/graph/graph-explorer#](https://developer.microsoft.com/en-us/graph/graph-explorer)
2. Run the **GET** query against the [https://canary.graph.microsoft.com/testidentityprotectionservices/conditionalaccesspolicies](https://nam06.safelinks.protection.outlook.com/?url=https%3A%2F%2Fcanary.graph.microsoft.com%2Ftestidentityprotectionservices%2Fconditionalaccesspolicies&data=04%7C01%7Cjeevan.bisht%40microsoft.com%7Cec5c4feb91364f1b7ccc08d6a1c25145%7C72f988bf86f141af91ab2d7cd011db47%7C1%7C0%7C636874253293395309%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C-1&sdata=8Qy87oI%2F%2BMK8g%2Fqc5RSHjJUbZ2p63Qw3nzJpyWVeGHg%3D&reserved=0) endpoint



1. Get the contents of specific policy by appending the /{ID} in the conditionalaccesspolicies endpoint.



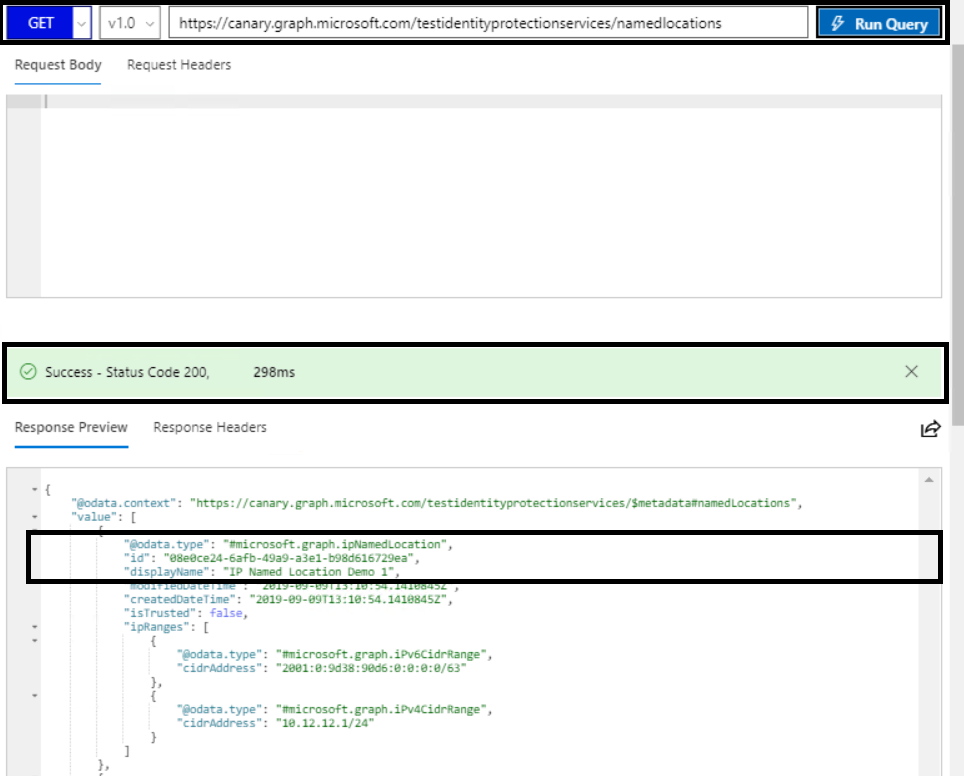
1. Save the contents into a file as .JSON (optional)

***Task 2. Get the NamedLocation Required.***

1. Perform the **GET** operations against

<https://canary.graph.microsoft.com/testidentityprotectionservices/namedlocations>

endpoint



1. Capture the ID(s) of the NamedLocation

You can directly refer as in this case **08e0ce24-6afb-49a9-a3e1-b98d616729ea**

***Task 3: Updating a CA Policy***

1. Extract the Policy from the Backup or using the GET Operation

**Below is the sample extract**

{

"@odata.context": "https://canary.graph.microsoft.com/testidentityprotectionservices/$metadata#conditionalAccessPolicies/$entity",

"id": "8bac1d5f-93ea-4215-bdaf-f227bc28e5fc",

"displayName": "Policy with IPV6 Demo",

"createdDateTime": null,

"modifiedDateTime": null,

"state": "disabled",

"sessionControls": null,

"conditions": {

"userRiskLevels": [],

"signInRiskLevels": [],

"clientAppTypes": [

"other"

],

"platforms": null,

"times": null,

"deviceStates": null,

"applications": {

"includeApplications": [

"00000002-0000-0ff1-ce00-000000000000"

],

"excludeApplications": [],

"includeAuthenticationContext": []

},

"users": {

"includeUsers": [

"None"

],

"excludeUsers": [],

"includeGroups": [],

"excludeGroups": [],

"includeRoles": [],

"excludeRoles": []

},

"locations": null,

},

"grantControls": {

"operator": "OR",

"builtInControls": [

"block"

],

"customAuthenticationFactors": [],

"termsOfUse": []

}

}

1. Prep the Policy for the **PATCH** operation

2a. We Need to remove 4 Fields while preserving the entire policy

* **@odata.context**
* **id**
* **createdDateTime**
* **modifiedDateTime**

2b. update the required field.

* **Locations (in our example)**

Below is the example of the above policy being prepped for restore/modify.

{

"displayName": "Policy with IPV6 Demo",

"state": "disabled",

"sessionControls": null,

"conditions": {

"userRiskLevels": [],

"signInRiskLevels": [],

"clientAppTypes": [],

"platforms": null,

"locations": {

"includeLocations": [

"**08e0ce24-6afb-49a9-a3e1-b98d616729ea**"

],

"excludeLocations": []

},

"times": null,

"deviceStates": null,

"applications": {

"includeApplications": [

"00000009-0000-0000-c000-000000000000"

],

"excludeApplications": [],

"includeAuthenticationContext": []

},

"users": {

"includeUsers": [

"None"

],

"excludeUsers": [],

"includeGroups": [],

"excludeGroups": [],

"includeRoles": [],

"excludeRoles": []

}

},

"grantControls": {

"operator": "OR",

"builtInControls": [

"mfa"

],

"customAuthenticationFactors": [],

"termsOfUse": []

}

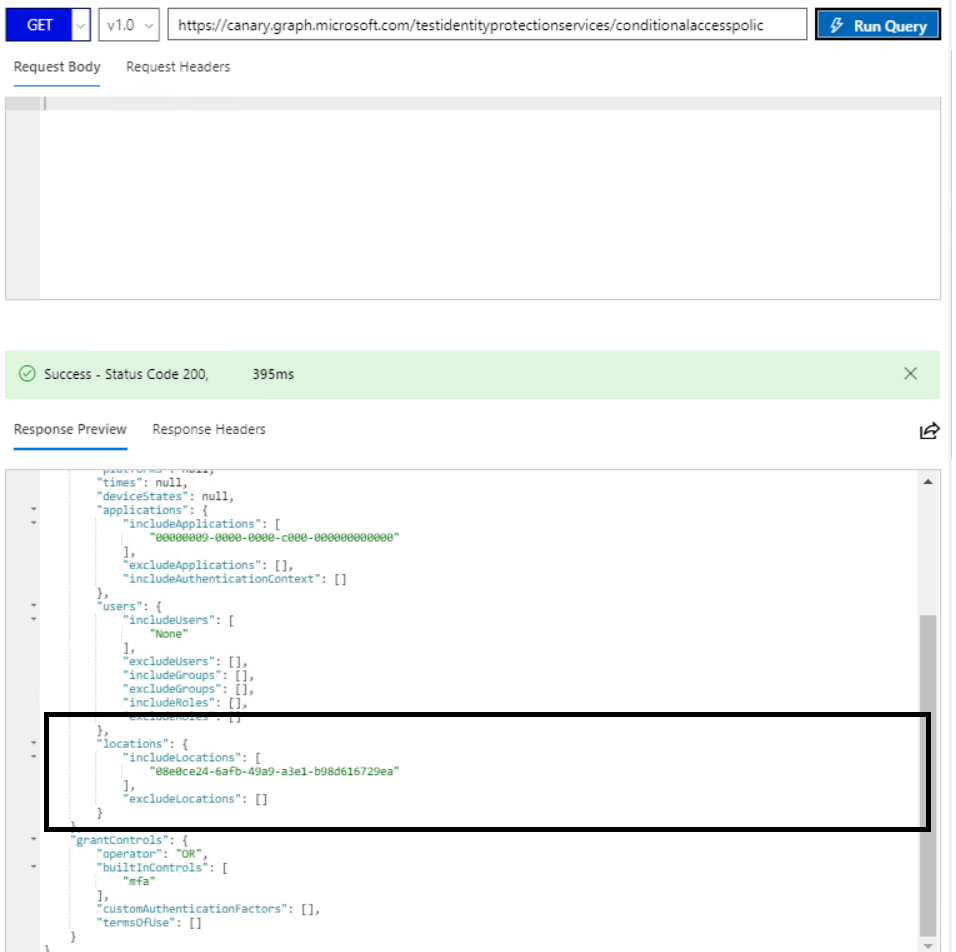
}

1. Perform a **PATCH** Operation with above Policy. Copy the content of the Policy in the **RequestBody** and click on **RunQuery** button



If the operation was successful you will get **HTTP 204** return code

1. Verify in the Azure AD Conditional Access Policy Console or by running the GET query.



# Appendix

Below is the list of common queries that be used to identify the dependent resources.

## ## Applications

Applications supported for Conditional Access ( Excluding 3rd Party SaaS apps and Azure AD Application Proxy)

<https://docs.microsoft.com/en-us/azure/active-directory/conditional-access/technical-reference#microsoft-cloud-applications>

**Using Graph**

https://canary.graph.microsoft.com/beta/serviceprincipals?$select=AppDisplayName,appid

https://canary.graph.microsoft.com/beta/serviceprincipals?$filter=startswith(displayName,'Microsoft Intune')

**Using PowerShell**

Get-MsolServicePrincipal | ft DisplayName, AppPrincipalId -AutoSize

## ## Directory Roles

Role Definition : <https://docs.microsoft.com/en-us/azure/active-directory/users-groups-roles/directory-assign-admin-roles>

**Using Graph**

https://canary.graph.microsoft.com/beta/directoryroles

**Using PowerShell**

Get-AzureADDirectoryRoleTemplate | Where-Object {$\_.DisplayName -eq "B2C IEF Keyset Administrator"}

## ## Group

**Using Graph**

https://canary.graph.microsoft.com/beta/groups?$select=DisplayName,id

**PowerShell**

Get-MsolGroup | ft objectid, signinname, displayname

**Note:** There might be a schema change soon causing some of the fields to have a different name, you might need to modify that if you have an older export of the CA Policies JSON.

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