Impact Reporting Connector for Azure Monitor
[Private Preview]
Customer How-To Documentation

About the Preview

Impact Reporting Connector for Azure Monitor enables customers to report potential platform disruptions in the form of Azure Monitor alerts, which may be impacting their Azure workloads through a secure channel to Microsoft. These reported impacts are then used by our internal Microsoft AIOps systems to identify correlations of customer signals to Azure events and provide actionable insights back to the customers.

Pre-Requisites for Onboarding

1. To ensure the onboarding script works seamlessly, the following permissions are required:
   a. **Contributor Permissions**: At the subscription level, this role is needed for executing steps related to:
      i. Resource provider registration
      ii. Feature flag registration
      iii. Impact reporting connector resource creation
   b. **User Access Administrator Permissions:** At the subscription level, this role is needed for executing steps related to:
      i. Create the custom role that enable us to read alerts
      ii. Assign the custom role to the Azure service principal 'AzureImpactReportingConnector'

   In summary, a combination of these permissions will be sufficient to run the script effectively.

2. Ensure any one of the following command line interfaces is installed in your system:

   a. For running the bash script on local: [How to install the Azure CLI | Microsoft Learn](#)
   b. For running PowerShell script on local: [How to install Azure PowerShell | Microsoft Learn](#)
   c. For running the scripts on Cloud Shell: No additional installation required

Onboarding Impact Reporting Connector for Azure Monitor – Documentation Guide

1. Navigate to GitHub and choose your Onboarding script

Navigate to this GitHub repo [impact-reporting-samples/Onboarding/Connector/Scripts at main · Azure/impact-reporting-samples (github.com)](#)
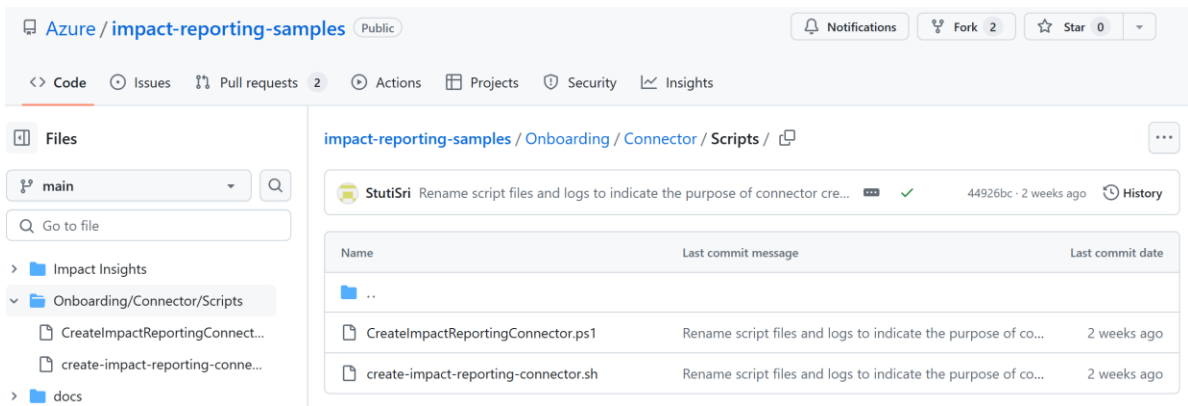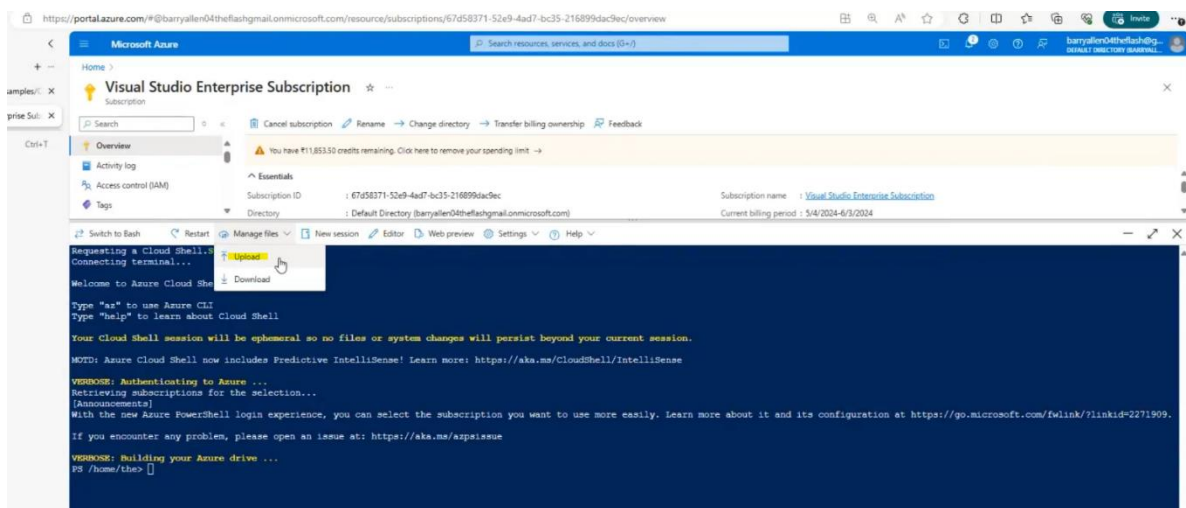
a. Choose and download either one of the ps1 or sh onboarding scripts present in the folder
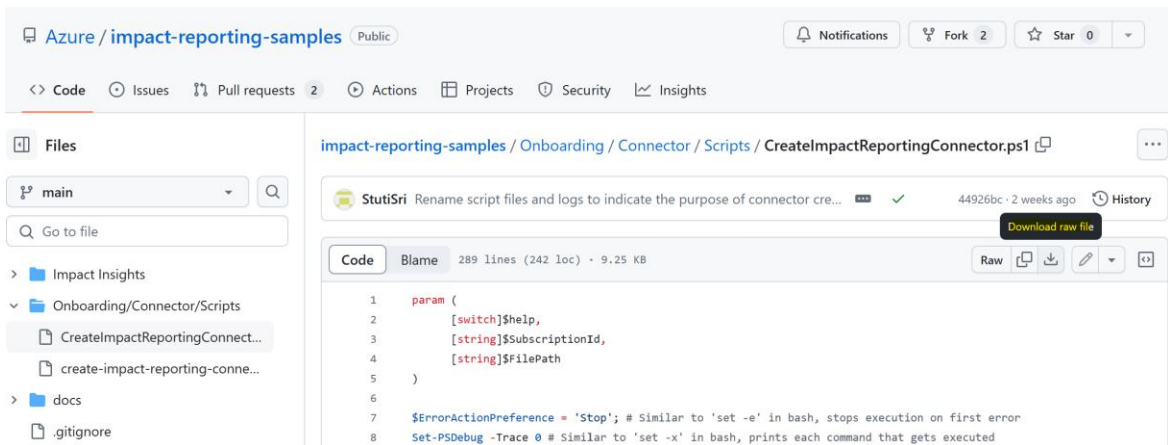
2. Execute the Onboarding script

a. Upload the downloaded onboarding script to your PowerShell/CLI/CloudShell interface

b. For onboarding the Connector to a single Azure subscription, follow the below steps:

i. Run the Onboarding script by providing the subscription ID by running the following command:

1. For PowerShell: `<download folder>/CreateImpactReportingConnector.ps1 -SubscriptionId <subid>`
2. For Bash: `<download folder>/create-impact-reporting-connector.sh --subscription-id <subid>`
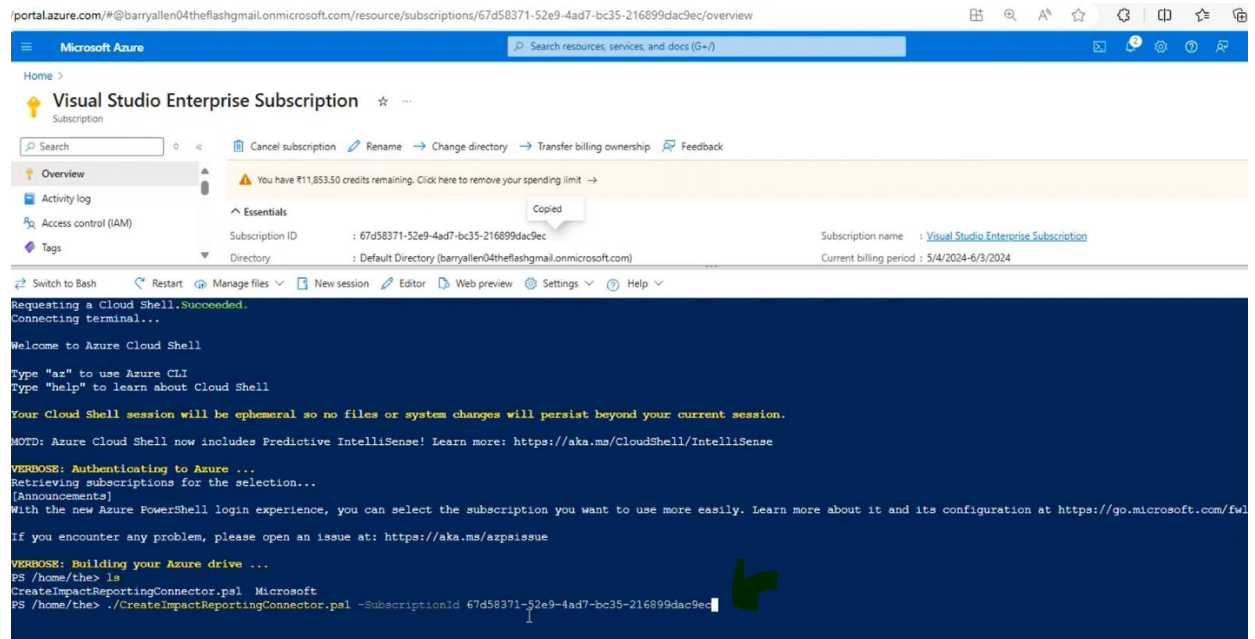
c. For onboarding the Connector to multiple Azure subscriptions at once, follow the below steps:
   i. Create a file: 'subscription_ids' which has a list of new line separated subscription ids
   ii. Run the Onboarding script by providing the file containing the subscription IDs by running the following command:
      1. For PowerShell: `<download folder>/CreateImpactReportingConnector.ps1 -FilePath './subscription_ids'`
      2. For Bash: `<download folder>/create-impact-reporting-connector.sh --file_path './subscription_ids'`

3. Wait for the Connector to be deployed

a. After the onboarding script is executed, the script will register the required resource provider, set up the required permissions, and deploy the Connector in your subscription(s)
b. Wait till you receive the confirmation message of your Connector deployment completion: 'Impact reporting Connector is successfully created on your subscription'
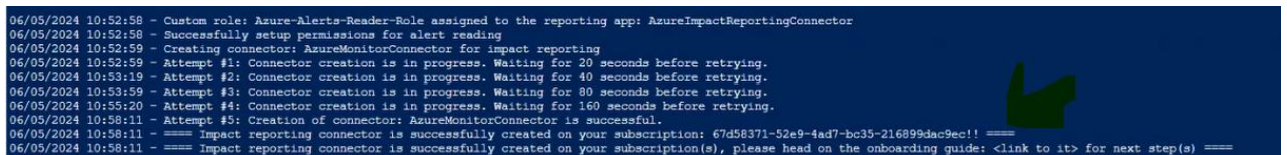
c. Drop an email to impactrp-preview@microsoft.com and let us know that the onboarding has been completed successfully.

4. What after the Impact Reporting Connector is created

Till our portal experience is ready, you can follow the below steps to check the impacts reported and the insights generated

Step 1. Navigate to [Azure Resource Graph Explorer](#)

Step 2. Run the below query to get the impacts reported

```
impactreportresources
| where ['type'] == "microsoft.impact/workloadimpacts"
```

Step 3. Run the below query to get the insights generated

```
impactreportresources
| where ['type'] == "microsoft.impact/workloadimpacts/insights "
```

FAQs

Q: How do I enable debug mode?

A: For Bash: Uncomment the `set -x` at the beginning of the script to enable debug mode.

For Powershell: Change `Set-PSDebug -Trace 0` to `Set-PSDebug -Trace 1` at the beginning of the script to enable debug mode

Q: What should I do if I encounter a permission error?

A: Verify your Azure role and permissions. You may need the help of your Azure administrator to grant you the necessary permissions or roles as defined in the permissions section.

Q: How can I verify if the connector is successfully created?

A: Option 1:

For Bash:

Step 1: Run the below command:

```
az rest --method get --url https://management.azure.com/subscriptions/<subscription-id>/providers/Microsoft.Impact/connectors?api-version=2024-05-01-preview
```

**Step 2:** You should see a resource with the name: AzureMonitorConnector

For Powershell:

Step 1: Run the below command:

```
(Invoke-AzRestMethod -Method Get -Path subscriptions/<Subscription Id>/providers/Microsoft.Impact/connectors?api-version=2024-05-01-preview).Content
```

Step 2: You should see a resource with the name: AzureMonitorConnector

Option 2:

Step 1: Navigate to Azure Resource Graph Explorer

Step 2: Run the below query:

`impactreportresources | where name == "AzureMonitorConnector" and type == "microsoft.impact/connectors"`

Step 3: The results should look like below, with a row for the connector resource
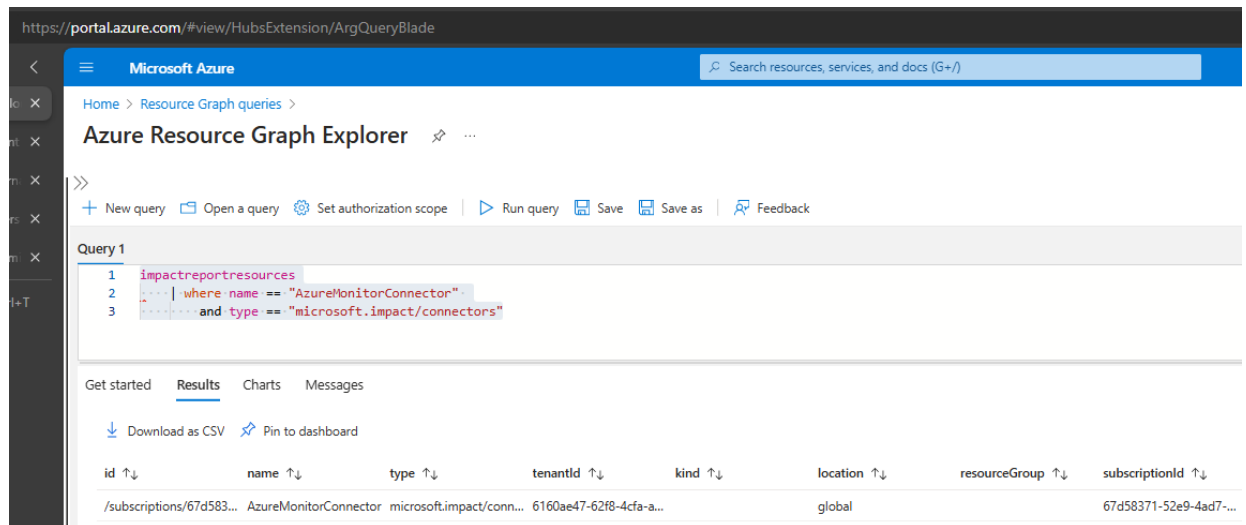
Troubleshooting Guide (TSG)

- **The bash script fails immediately after starting**
  Ensure that the script has execution permissions. Use the below command to make it executable.
  `chmod +x create-impact-reporting-connector.sh`

- **In the bash script, azure login fails (az login command not working)**
  Ensure Azure CLI is installed and updated to the latest version. Try manually logging in using az login to check for any additional prompts or errors.

- **Error "Subscription ID or file path with list of subscription IDs required"**
  For Bash: Make sure you are providing either `--subscription-id` or `--file-path` argument when executing the script. Do not provide both.
  For Powershell: Make sure to provide either the `-SubscriptionId` parameter or the `-FilePath` parameter when invoking the script. Do not provide both.

- **Error "Failed to find file: [file_path]"**

For Bash: Verify the file path provided with `--file-path` exists and is accessible. Ensure the correct path is used.

For Powershell: Verify the file path provided with `-FilePath` exists and is accessible. Ensure the correct path is used and the file is not locked or in use by another process.

- **Script fails to execute with permission errors**
  Ensure you have **Contributor** permission to log in to Azure, register resource providers, and create connectors in the Azure subscriptions. You also need to have **'User Access Administrator'** permission to create and assign custom roles.

- **Script execution stops unexpectedly without completing**
  Check if the Azure PowerShell module is installed and up to date. Use `Update-Module -Name Az` to update the Azure PowerShell module. Ensure `$ErrorActionPreference` is set to `'Continue'` temporarily to bypass non-critical errors.

- **Namespace or feature registration takes too long or fails**
  These operations can take several minutes. Ensure your Azure account has the Contributor access on the subscription(s). Re-run the script once the required access has been provided. If the issue persists on re-running reach out to the Impact RP connectors team

- **Custom role creation or assignment fails**
  1. Ensure the Azure Service Principal **'AzureImpactReportingConnector'** exists by entering it into the search box as shown below, if not wait for a few minutes for it to get created. If it does not get created even after an hour, reach out to the Impact RP connectors team.
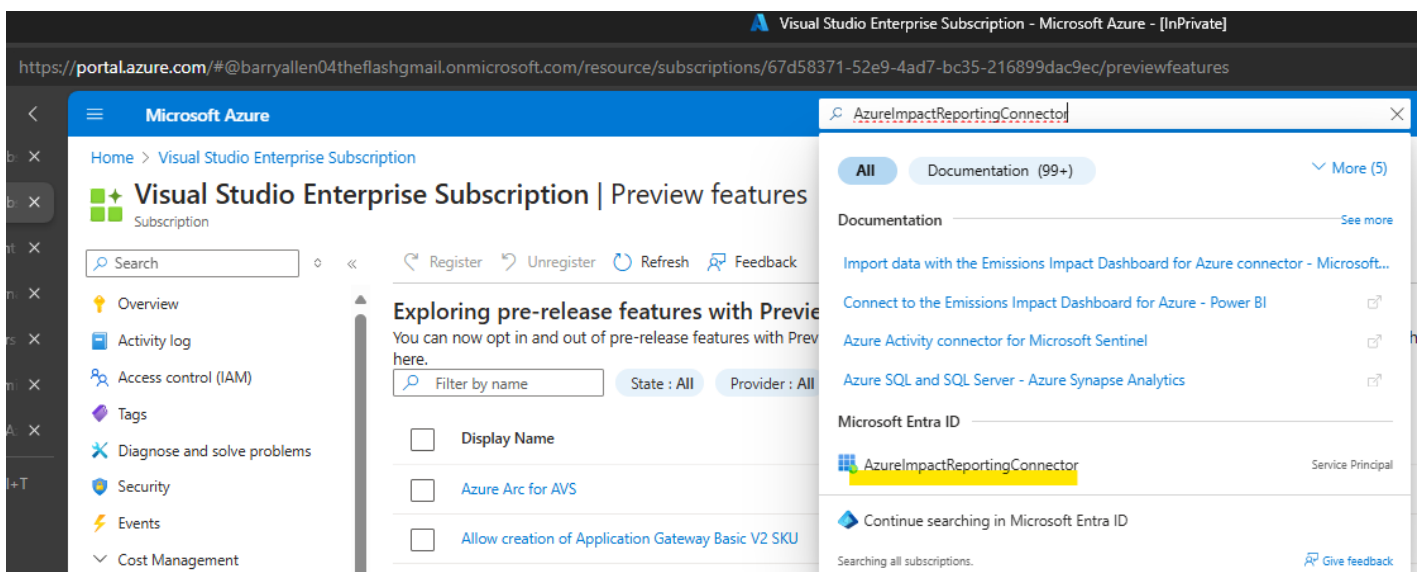
  2. Verify your account has **'User Access Administrator'** permission to create roles and assign them.

- **Connector creation takes too long**
  It can take about 15-20 minutes for the namespace registration to allow the connector resource creation to take place. Even after 30 minutes if the script has not completed execution, cancel the script execution and re-run it. If this run also get stuck, reach out to the [Impact RP connectors team](#)
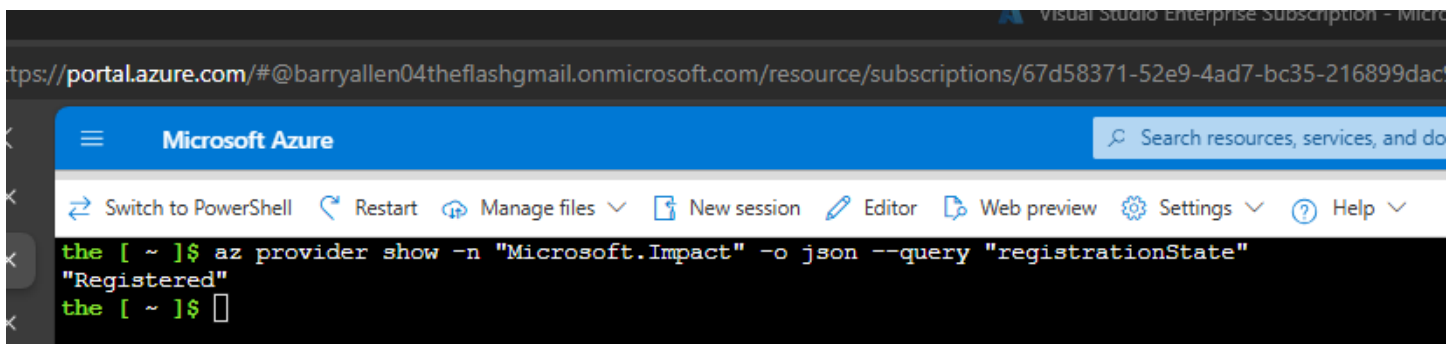
- **Connector creation fails**
  1. Ensure that the RPs: Microsoft.Impact is registered. You can do this in 2 ways -
     a. From the Azure Portal, navigate to your Subscription -> Resource Providers
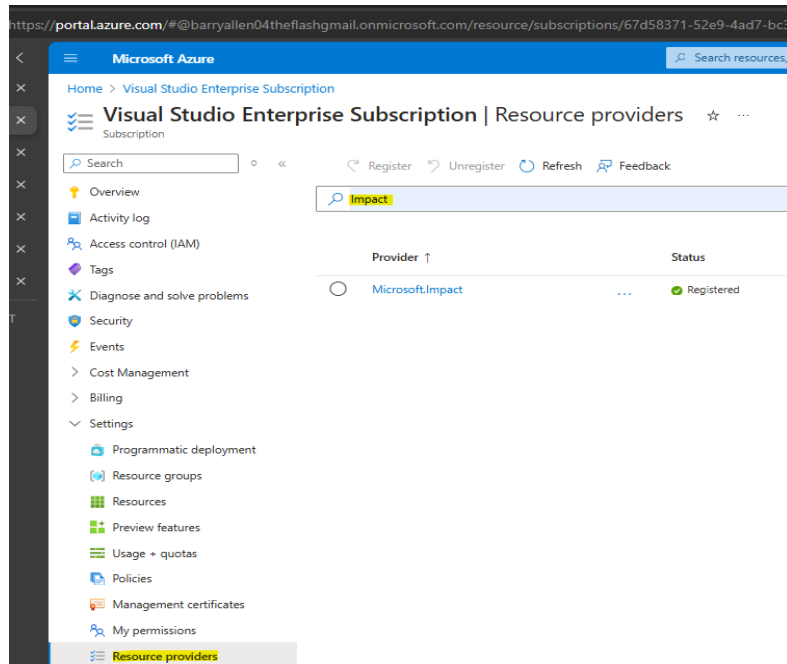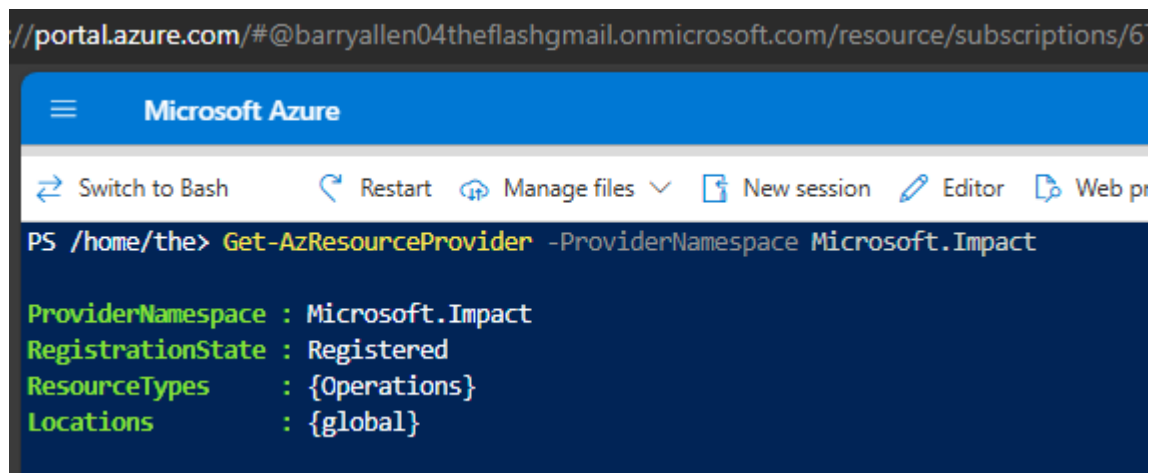
     b. **For Bash:**
        Run the below command:
        ```
        az provider show -n "Microsoft.Impact" -o json --query "registrationState"
        ```

For Powershell:

Run the below command

`Get-AzResourceProvider -ProviderNamespace Microsoft.Impact`
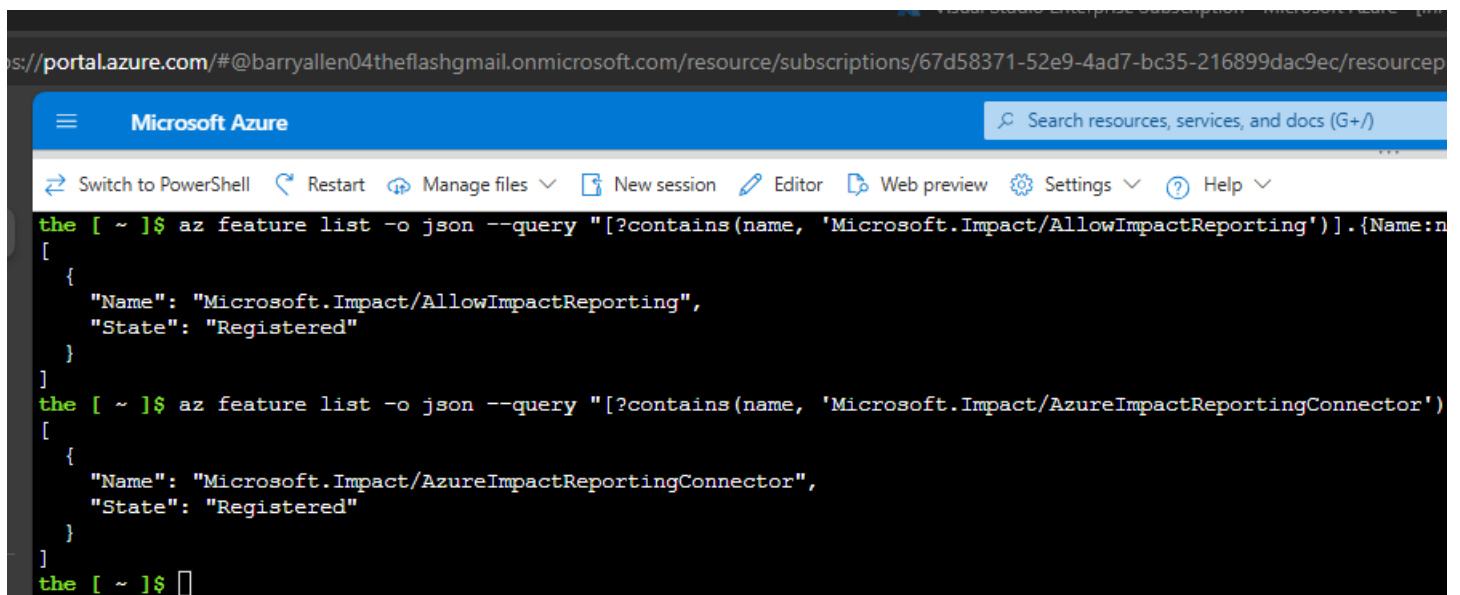
2. Ensure that the feature flags: **AllowImpactReporting** and **AzureImpactReportingConnector** are registered against the feature: **Microsoft.Impact** Run the below command
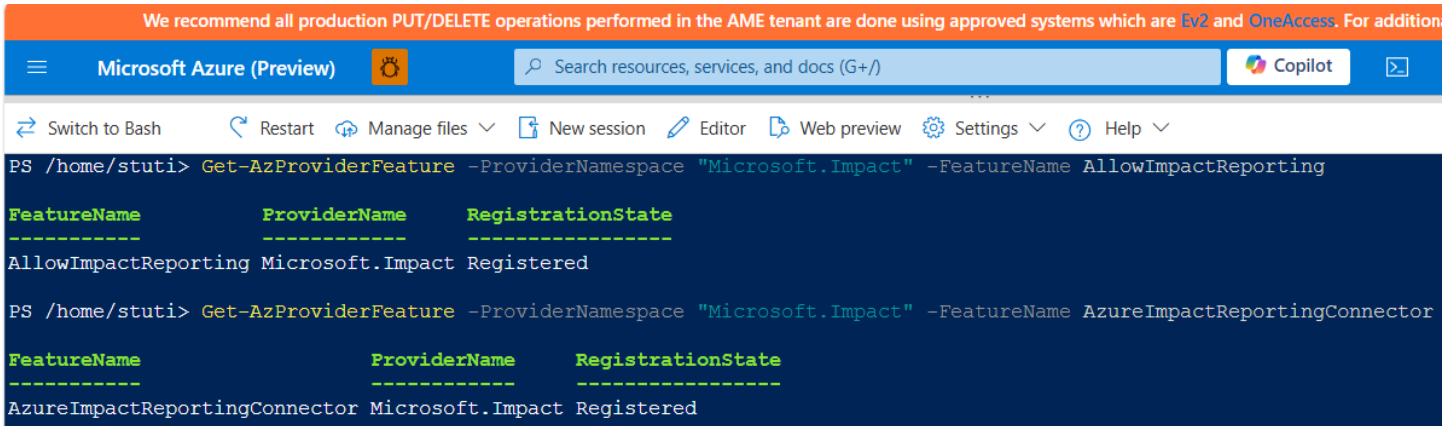
For Bash:

Run the below command

`az feature list -o json --query "[?contains(name, 'Microsoft.Impact/AllowImpactReporting')].{Name:name,State:properties.state}"`
`az feature list -o json --query "[?contains(name, 'Microsoft.Impact/AzureImpactReportingConnector')].{Name:name,State:properties.state}"`

For Powershell:

Run the below command

```
Get-AzProviderFeature -ProviderNamespace "Microsoft.Impact" -FeatureName AzureImpactReportingConnector
Get-AzProviderFeature -ProviderNamespace "Microsoft.Impact" -FeatureName AllowImpactReporting
```


3. Ensure that you have Contributor access to the subscription(s)

This covers the common scenarios encountered while onboarding the connector. For issues not covered here, reach out to the Impact RP connectors team.

Support/Feedback

For any issues during Impact Connectors onboarding, reach out to impactrp-preview@microsoft.com. We will get back to you within 24 business hours. Feel free to also share any feedback regarding the onboarding process to the same alias.