**Investigate High Memory Utilization in Container**

Use [Windows Perf Counter dashboard](https://cosmicmonitoring-b6a0cza8a4ghfnda.scus.grafana.azure.com/d/f5035b83-bb8d-41ac-808b-65635396a8a1/windows-performance-counter?orgId=1) and [Linux Utilization dashboard](https://cosmicmonitoring-b6a0cza8a4ghfnda.scus.grafana.azure.com/d/rYdddlPWk/linux-utilization?orgId=1) to identify the process responsible for the highest memory consumption within the container. This can be challenging since metrics lack direct links between processes and containers. However, you can find the correlations by reviewing memory panels for both Container and Process. Typically, the primary process of container tends to be the biggest consumer of resources, leading to high memory utilization in the container.

Once you have identified the problematic process, please refer to the [trigger configuration document](https://eng.ms/docs/products/efficiency-pack/monitoring/triggers/configure-triggers) for instructions on creating a new trigger on [EP portal](https://epportal.azurewebsites.net/trigger?teamName=Cosmic) to capture memory dumps with the following adjustments.

* Trigger Scenario: Process -> Memory Usage.
* Instance Name: NamespaceName#ContainerName\ProcessName, such as Microsoft.IC3.DirectoryCache.PartnerApi.Cosmic.Console#ic3-auth-runtimeapi\ic3-auth-runtimeapi-partnerapi.
* Threshold Value: Depends on the high memory scenario (unit: bytes).
* Trigger Action: Memory Dump.
* Max Daily Collections: 5.

If your main application is a .NET process and it consumes the most memory in your container, you can create a trigger with the following settings.

* Trigger Scenario: Container -> Memory Usage.
* Instance Name: NamespaceName\ContainerName, such as ic3-auth-runtimeapi\ic3-auth-runtimeapi-partnerapi.
* Threshold Value: Depends on the high memory scenario (unit: percentage of container memory limit).
* Trigger Action: Memory Dump.
* Max Daily Collections: 5.

This trigger will be deployed automatically within 10 minutes, and you can review the performance data through the dashboard link from the EP portal. Contact [Efficiency Pack Team](mailto:EfficiencyPackTeam@microsoft.com) for any inquiries about creating triggers, and contact [Cosmic Perf](mailto:CosmicPerf@microsoft.com) for any inquiries about performance issues.