Power BI Fabric Capacity Metric steps

Purpose

This document serves to confirm the process to monitor the Power BI capacity metric trends for VAConnects reports. This metric tracking is necessary to support VLP report performance. Specifically, to ensure report runs and tenant capacity limits do not negatively impact the VAConnects UI availability. Currently, VAConnects has an A2 Power BI Pro license that allows for 5 GB RAM memory.

Glossary and Terms

**Power BI Service** is a cloud-based Microsoft service, or *software as a service* (SaaS). It supports report editing and collaboration for teams and organizations. You can connect to data sources in the Power BI service, too, but modeling is limited. The Power BI service is used to do things such as creating dashboards, creating, and sharing apps, and analyzing and exploring your data to uncover business insights.

**Power BI Workspaces** are located within the Power BI Service platform and are folders that allow users with permissions to collaborate to create collections of dashboards, reports, semantic models, and paginated reports.  Apps from Power BI Services, such as those that return Fabric Capacity Metrics (known as: ***VAConnects Fabric Capacity Metrics*** in Workspaces) can be added as a Workspace to allow you to run and subscribe to reports.

**Capacity**: Defines the ability of a resource to perform an activity or to produce output. Different items consume different capacity at a certain time. Capacity needs are based on analytics workload size that can be monitored through Power BI Fabric Capacity Metric subscription(s).

**Data Activator** (in preview since May 2023) is a generative AI tool that alerts users to changes in their data instantly by setting up a system of detection that automatically alerts the team with the right context to take action.

Open Power BI Services in your browser (<https://app.powerbi.com/>), then on left sidebar, click on the icon “Workspaces”. At the bottom of the available Workspaces, you will see one named: **VAConnects Fabric Capacity Metrics**.

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Open it and this view will display:

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Click on the type = “Report” file and this screen will appear *the first time you run the app*. **To note**: you must select a “Capacity Name” by clicking 2nd tier underneath “Fabric Capacity Metrics” from top left side > “select a capacity from dropdown”– otherwise, the first time, it defaults to none selected.

Once you select a capacity name, this report in subsequent runs will default to this capacity selection unless you change it. The selection options are:

* uvarptnonprodeus2pbi (Staging)
* uvarptprodeus2pbi (Production)

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Once you are successfully connected, this output will appear:

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You can schedule an auto run of this report to deliver to your email by:

Click on “Subscribe to report” 🡪 to add a new subscription

Next to “edit”, click on ‘…’ and select “Subscribe to this report” where you can manage existing subscriptions or add new ones:

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Click button “Create a subscription” or “New Subscription” and provide subscription name, recurrence of run, time and time zone (Microsoft automatically knows your email address and populates it).

When the Fabric Metric Capacity emails arrives, it looks like this:

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From this email, you can go directly to Power BI Services to view/interact with the actual report run (click on Go to Report button), or manage your subscription (click on link at the bottom of the email). To note: there is a slight delay from actual email delivery time to requested delivery time, approximately 10 minutes.

Tips:

<https://learn.microsoft.com/en-us/power-bi/create-reports/service-set-data-alerts>

<https://www.youtube.com/watch?v=EuBA5iK1BiA>

The report object contains several hidden icons that once revealed, can be helpful to reference to understand what the metrics mean. See below for examples:

Unless you hover your mouse across to the space from the text “Multi Metric Ribbon Chart”, the icons below are hidden. Once revealed, they will appear under the Operations and Users buttons but contain definitions that apply to all 4 buttons:

* CU
* Duration
* Operations
* Users

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Information contained in these hidden icons:

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This help icon provides the operational definitions of abbreviations and terms used to define the metric output by button. See below for transcribed details:

* CU is capacity units in seconds.
* Duration is processing time in seconds.
* Operations counts the number of operations that took place.
* Users counts the number of users that performed operations.

By clicking on the x axis for a specific “date”, the module to the right will display granular details broken out by a specific date over time range for that date. For example, in the screenshot below, I clicked on Mon 8 and in the module to the right, I selected the Utilization button. This is what displayed:

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This shows me the usage for all report run on Monday, April 8th from 3a to 9p. If you click on a flare, more details are revealed:

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Filtering reports from the Item by Workspace module beneath the dashboard:

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You can add optional column(s) to output (click on the dropdown “Select optional column(s) > tick those you want to display. At this point, the report will dynamically update). For example, I’ve added Failed Count and Successful count to track metrics of # of times a report was run and # of times it failed on any given date.

Clicking on the ‘…’ elipses gives you more options such as export and set alert.

Failed Count alert steps I configured to deliver to Workspace VA Connects – Datasets – Test (Feature):

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I got an error creating trigger? No other details and error msg disappeared.

I also tried importing exported Fabric Capacity Metric data into PBI Desktop, created 2 visualizations I saved to My Workspace. There is an MSLearn vid, but it is outdated from Feb 2023, released prior to the Nov 2023 Data Activator “preview” so that those steps no longer work to create an alert (I get same error msg since Data Activator is not activated by admin).

It appears that preview Data Activator does not allow you to create an alert like this right now?

The first step in using Data Activator is for your administrator to enable Data Activator for your organization. The following image shows where to enable Data Activator in the Admin portal.

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<https://learn.microsoft.com/en-us/fabric/data-activator/data-activator-get-data-power-bi>

<https://learn.microsoft.com/en-us/fabric/data-activator/data-activator-get-started>

<https://blog.fabric.microsoft.com/en-US/blog/announcing-the-data-activator-public-preview/>

Process History

<document all final versions, revisions and reason for version and date>

|  |  |  |
| --- | --- | --- |
| Name/  Title | <signature of author, reviewers, PI approver(s)> | Initial version <create date> |
| Name/  Title |  |  |