**SNIATM Swordfish Power BI Sample Integration User Documentation**

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# Introduction

A Power BI dashboard is a single page, often called a canvas that uses visualizations to tell a story. Because it is limited to one page, a well-designed dashboard contains only the most-important elements of that story.

Install the downloaded Powerbi.msi in your own desktop then our source will be JSON web service That’s why developer use web as a data source as shown in the below figure.

## 1.1) Purpose

The purpose of the User specification document is Power-Bi dash board Explanation.

## 1.2) Overview

Power BI is a suite of business analytics tools to analyze data and share insights. Power BIdashboards provide a 360-degree view for business users with their most important metrics in one place, updated in real time, and available on all of their devices. With one click, users can explore the data behind their dashboard.

# 2) Main Dashboard

The Main dashboard shows count of all Swordfish Services, all storage pools consumed capacity based on allocated capacity and child dashboard navigated URL’S.

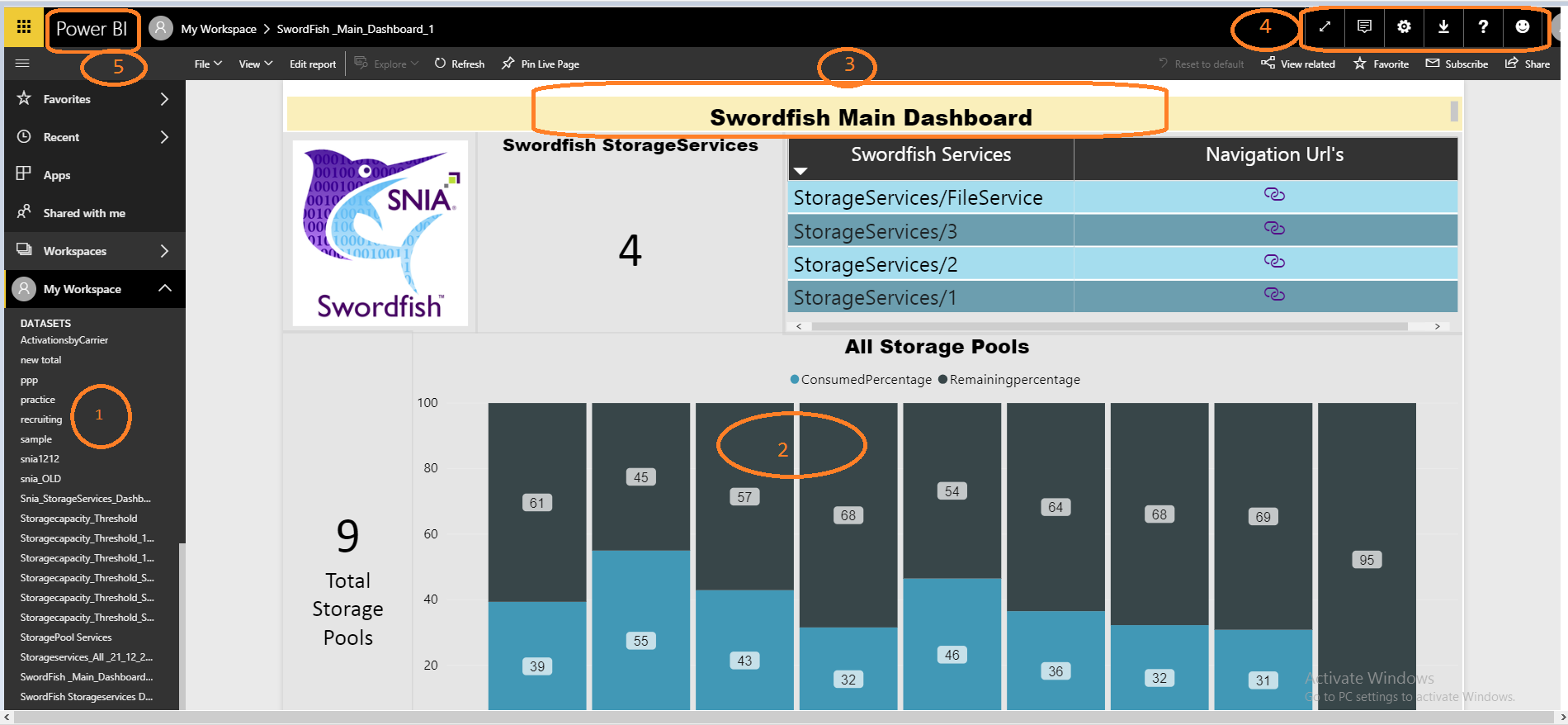


Fig: - Main Dashboard

1. Navigation pane

2. Dashboard with tiles

3. Dashboard title

4. Help and feedback buttons

5. Power BI home

## 2.1) Sample Source URL’S for Swordfish Main dashboard:-

The below URL’s are main dashboard Navigated URL’s. Note that the exact URLs will likely be different for your environment.

<http://localhost:5000/redfish/v1/StorageServices/1>/StoragePools

<http://localhost:5000/redfish/v1/StorageServices/2>/StoragePools

<http://localhost:5000/redfish/v1/StorageServices/3>/StoragePools

<http://localhost:5000/redfish/v1/StorageServices/FileService/StoragePools>

## 2.2) Sample Source URL’S for Swordfish Child-dashboard:-

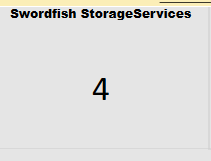
The below URL’s are child dashboard URL’s. Note that the exact URLs will likely be different for your environment.

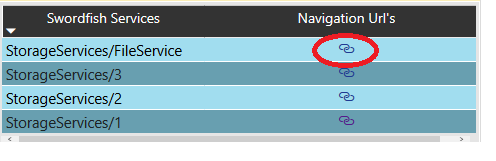
<http://localhost:5000/redfish/v1/StorageServices/1/Volumes>/1

<http://localhost:5000/redfish/v1/StorageServices/1/StoragePools>/Sp1

## 2.3) Swordfish Storage Services: -

The below figure shows the count of all Swordfish storage services.



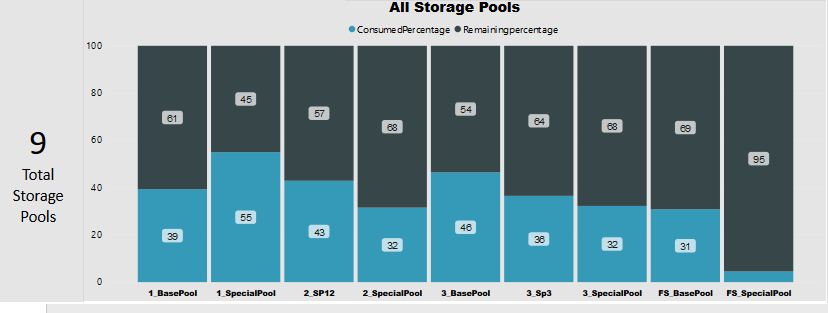
2.4) Navigated URL’s of Swordfish storage services:-

The above figure shows the all Swordfish Storage Services Navigated URL’s.

Note: -After clicking the Navigated URL’s, it will go to Child-dashboard.

## 

## 2.5) All storage Pools capacity data:-



The swordfish storage services of all the storage pools merged into one place and shown the consumed capacity percentage out of allocated percentage.

# 3) Child Dashboard: -

In the child dashboard shows the Count of Storage Services (volumes, filesystems and Storage Pools) and Consumed capacity based on allocating capacity.

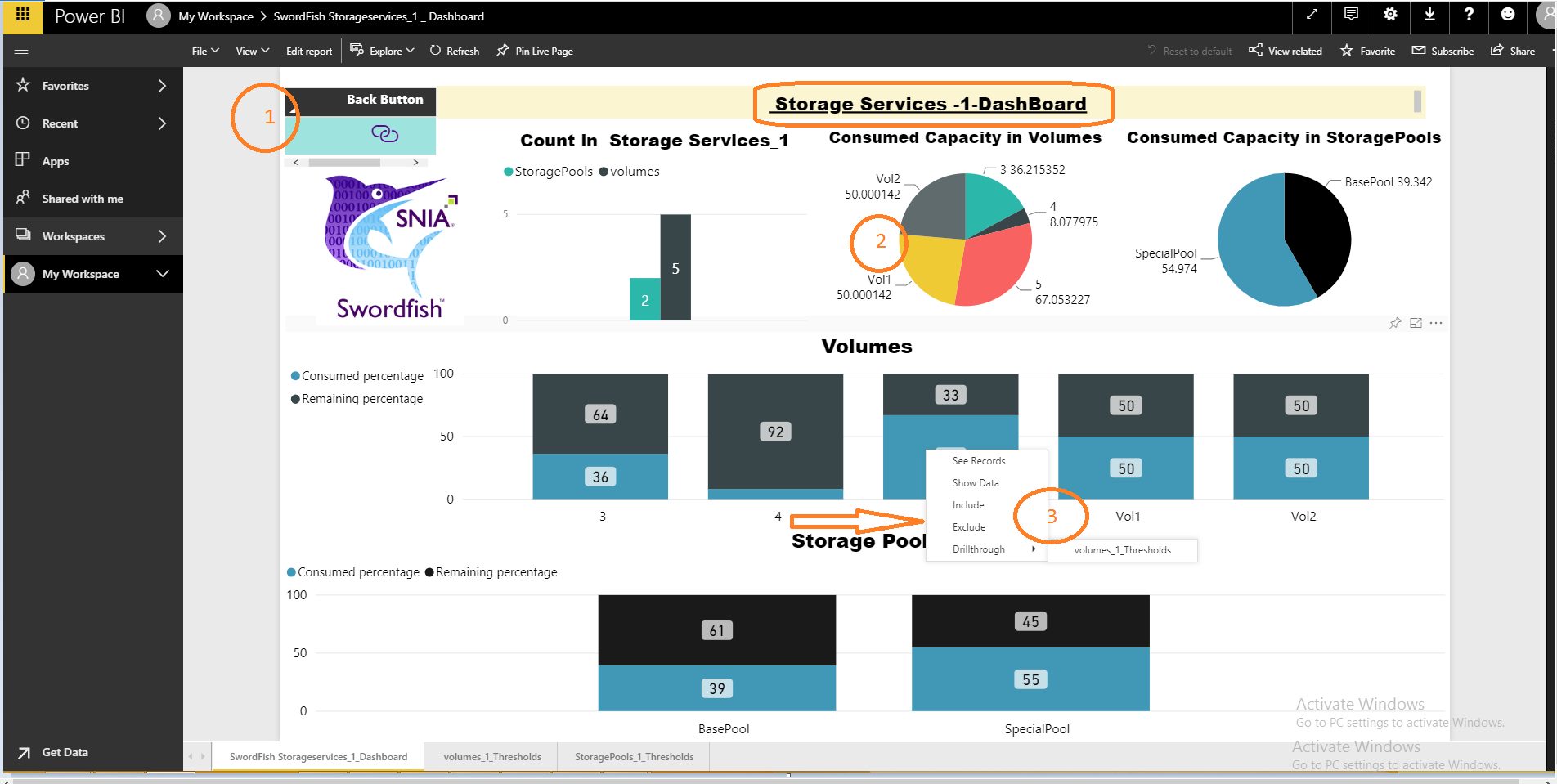


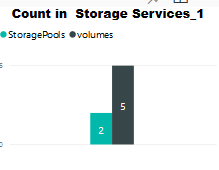
Fig: -Child Dashboard

1. Back to Main Dashboard Button
2. Dashboard tile
3. Drill Through.

When user wants threshold of each volume separately Right click on any volume or Storage Pool and click on the “Drill through” tab as shown in the above figure.

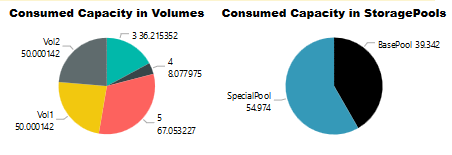
## 3.1) Count of Storage services-1(volumes and Storage Pools): -

The below figure shows the count of volumes and storage pools using Bar-chart



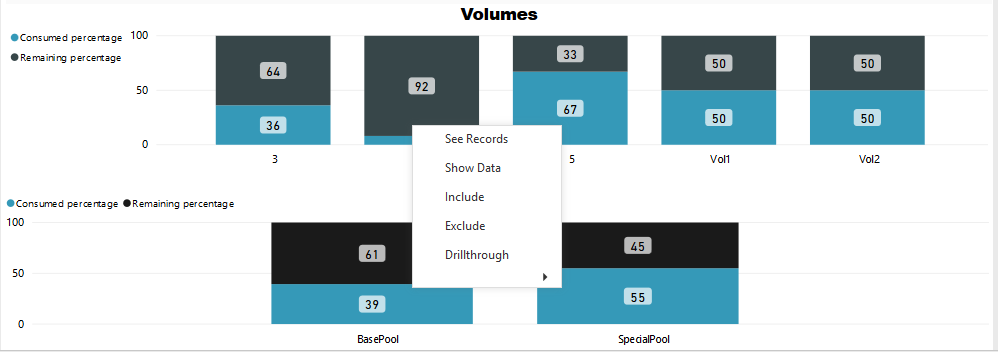
## 3.2) consumed capacity of volumes and Storage pools:-

The below figures shows the consumed capacity of volumes and Storage pools in Storageservices\_1 by using pie chart.



## 3.3) Usage of volumes and Storage Pools Capacity:-

The below figure shows Storage services\_1 volumes and Storage Pools When we want thresholds for each one separately, we can right click on the volume as shown in the below figure



After click on selected drill through will get the Thresholds page and it shows the usage percentage of consumed capacity.

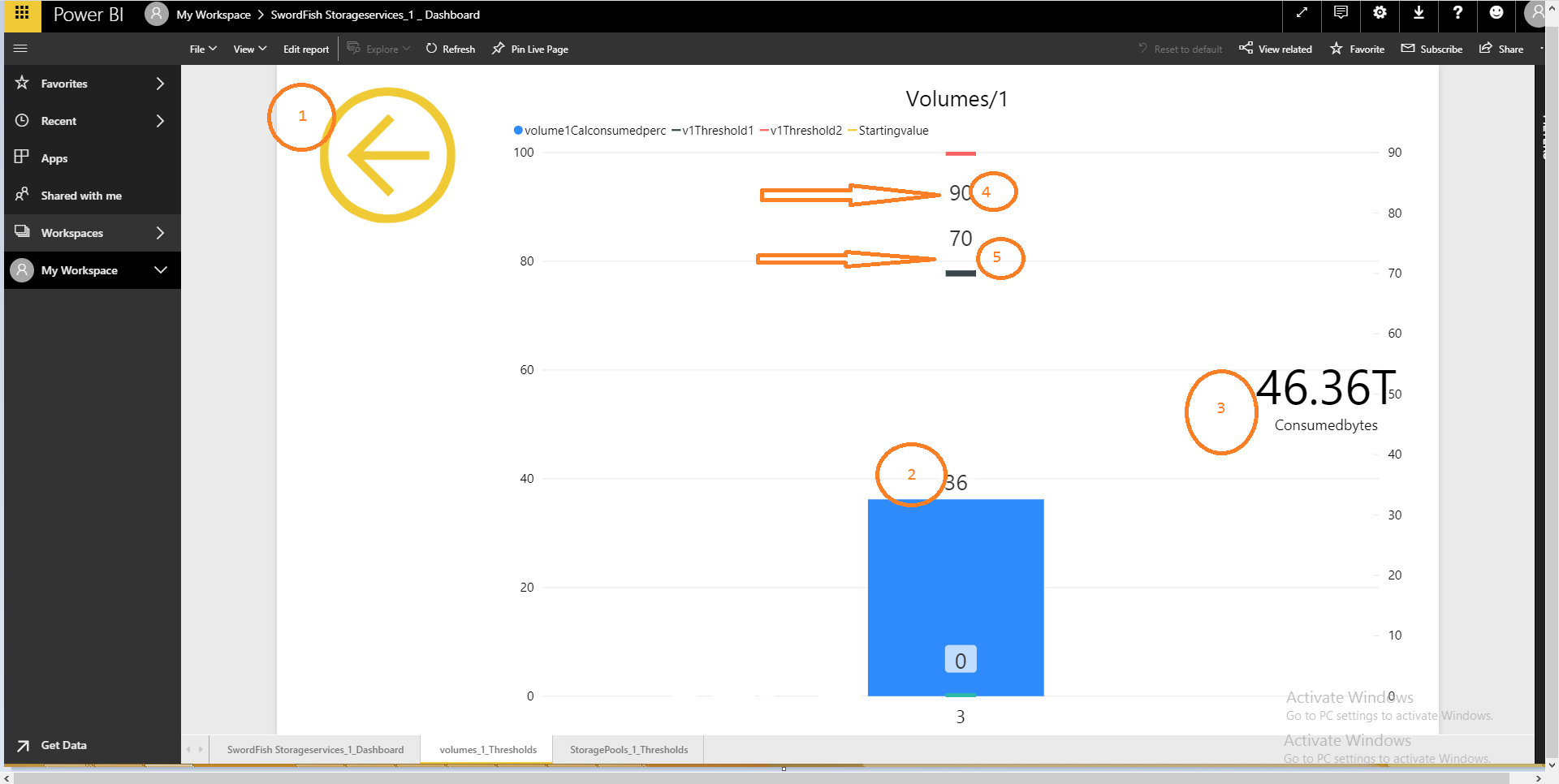


Fig: - Threshold Page

1. Back to Child Dashboard Button.

2. Percentage of Consumed Capacity usage.

3. Consumed Capacity in Terabytes.

4. Threshold line one

5. Threshold line two

* The color lines show the different threshold values and the filled color shows the consumed percentage of selected Drill through service.
* The right side shown usage of Consumed capacity in Terabytes
* When a user wants to navigate to the main Dashboard again, the user can click on the yellow Back Button as shown in the figure below.



For all the swordfish storage services sub dashboards shows same diagrams but the data will change dynamically when it changes on the Swordfish service.