

Power BI Tenant Export

Quorum Network Resources Ltd

Pbix & json file extraction

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# Overview

## Introduction

**WARNING**

This when this script is run it will export ALL the entities from a clients Power BI tenant. Consider must be given to the content of the Power BI entities that exported, do they contain, client sensitive information.

This script was created to manually export all available files from the Power BI tenant. This document describes this script’s process and highlights its requirements and limitations.

# Requirements

To run this script, you will need to:

Be a Power BI tenant admin.

Have the MicrosoftPowerBIMgmt PowerShell module installed.

Have permission to add yourself as an admin for every workspace in the tenant.

# Limitations

There are some limitations to this script, and it is not possible to export everything from the tenant using the API.

The majority of the export uses the command Export-PowerBIReport. This exports the Power BI report and the dataset it references from the service and combines them into a PBIX file. If multiple reports reference the dataset, then the dataset will be duplicated. Conversely, if the dataset is not referenced, it will not be exported.

There are conditions which make it impossible to export reports using the API. For example, if a report or dataset has been changed using the XLMA endpoint or created in a workspace in a large dataset storage format.

# Process

The steps for the process of the scripts are as follows:

* The user running the script will be asked to sign in. (This should be a tenant admin account) The account details will be stored for later.
* The first API call will retrieve all the info for the tenant‘s workspaces, users, datasets, dataflows and reports.
* The user will be prompted for a file path where they wish to store the exported files, and a directory will be created
* All the datasets will be checked to see if any are not referenced, and if not will be stored in a log file.
* The user will be granted admin rights to all workspaces in the tenant.
* A file will be created storing all the workspace and user details.
* For each workspace, a new directory will be created, and all the dataflows will be exported as a JSON file, and the reports/dataset will be exported as PBIX files, which will be stored in their respective directories.
* If an error is thrown and a file cannot be exported, then this error will be stored in a log.
* Finally, all the error logs and export info will be stored in the export directory.

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