



Power BI Audit App – As-Built Document

9 February 2022

Prepared for WAPOL



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Revision History

Date	Version	Author	Changes
09/11/2021	0.1	Emlyn Rice	Initial Draft
09/02/2022	0.2	Emlyn Rice	Update diagrams and component descriptions

Document Review

The following stakeholders have reviewed this documentation for completeness & suitability.

Date	Version Reviewed	Role	Person
08/02/2022	0.1	Reviewer	L Shayler
09/02/2022	0.2	Reviewer	J Ginnivan

Overview

Arkahna developed the Power BI audit App to support WAPOL's desire to audit data that is retrieved through Power BI reports. It does this by proxying the reports through a web app and forwarding a copy of any data that passes through it to an Azure Function for further processing into a CSV file, which is stored in blob storage.

Intended Audience

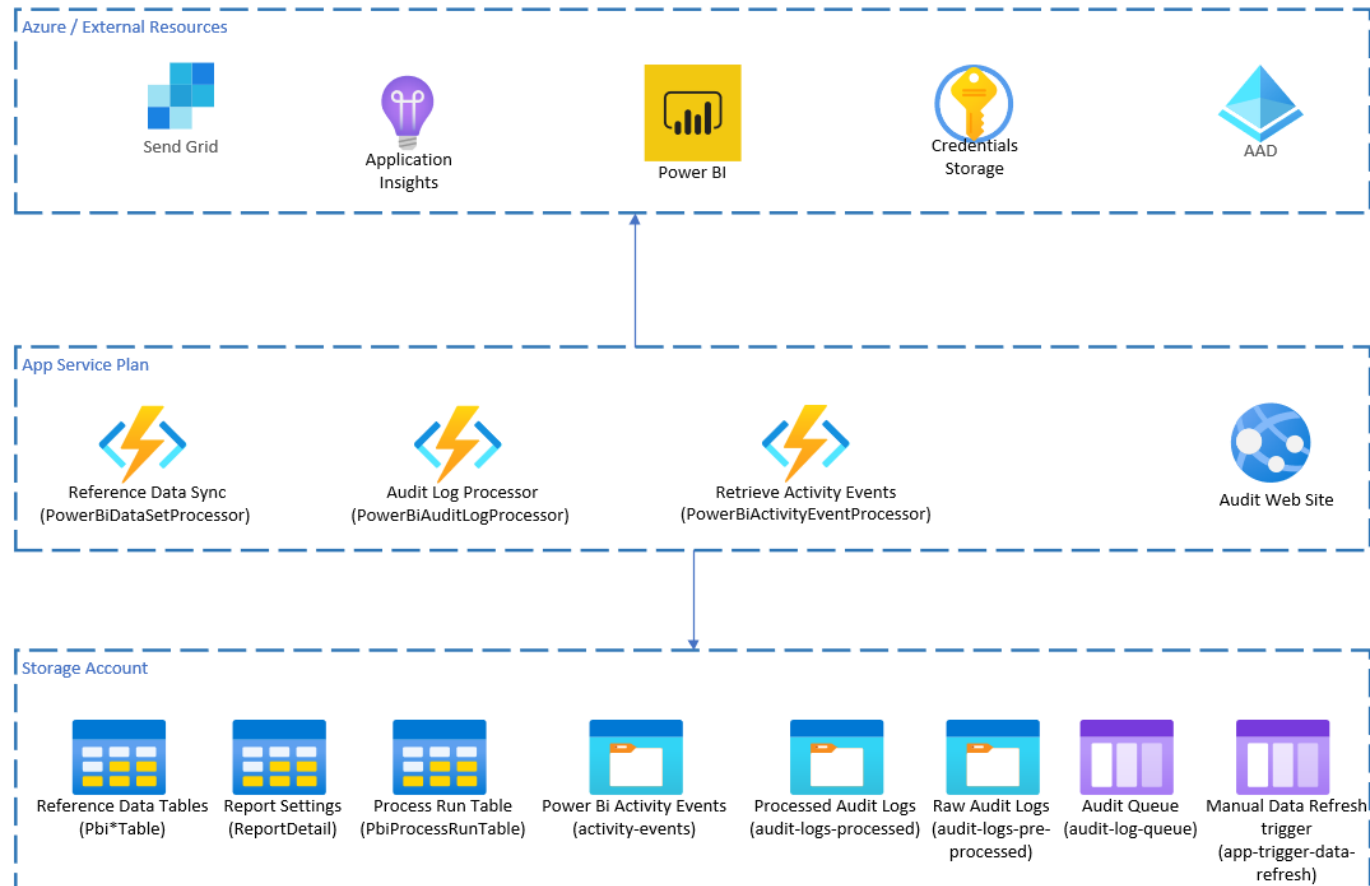
The intended audience of this document is the IT team and Product Owner from WAPOL.

System Architecture

5.1 Summary

The application architecture is designed to be cloud-hosted deployed to the Azure environment. It consists of a Web Site to allow users to access and manage reports and three Azure Functions that process the raw audit logs generated by the web app and retrieve and store data from Power BI.

5.1.1 Deployed Infrastructure Overview



5.2 Components

5.2.1 Application / functions

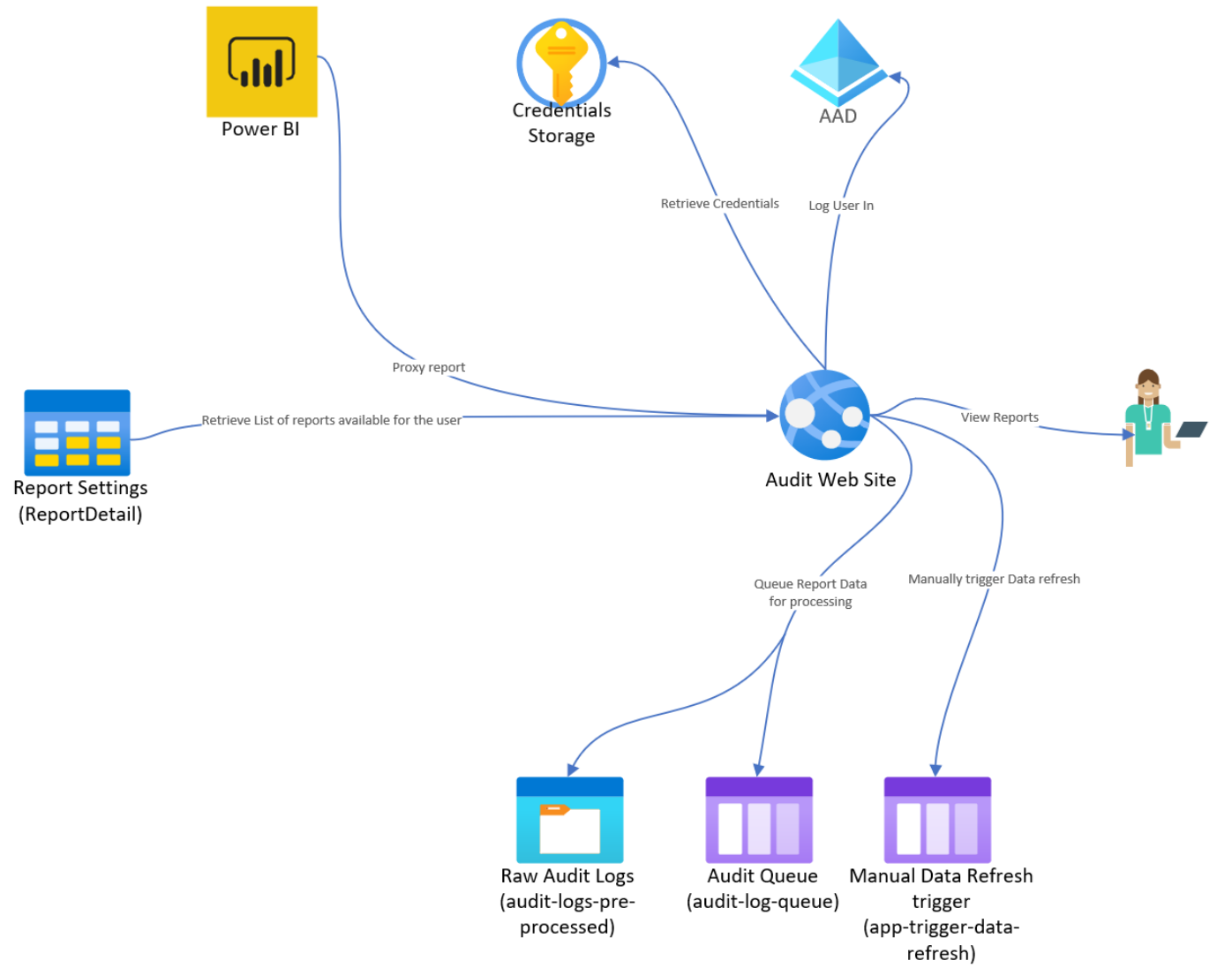
Component Name	Description
Audit Log Web Site (MVC App)	The frontend application. Allows users to view power BI reports, and administrators to define a user's available reports.
Reference Data Sync Function App	Synchronises meta data from Power BI (Groups, Dashboards, Data flows, Reports) and updates the websites settings based this data.
Audit Log Processor Function App	Process the audit logs generated by the website.
Retrieve Activity Events Function App	Retrieves and stores activity events from Power BI

5.2.2 External Dependencies

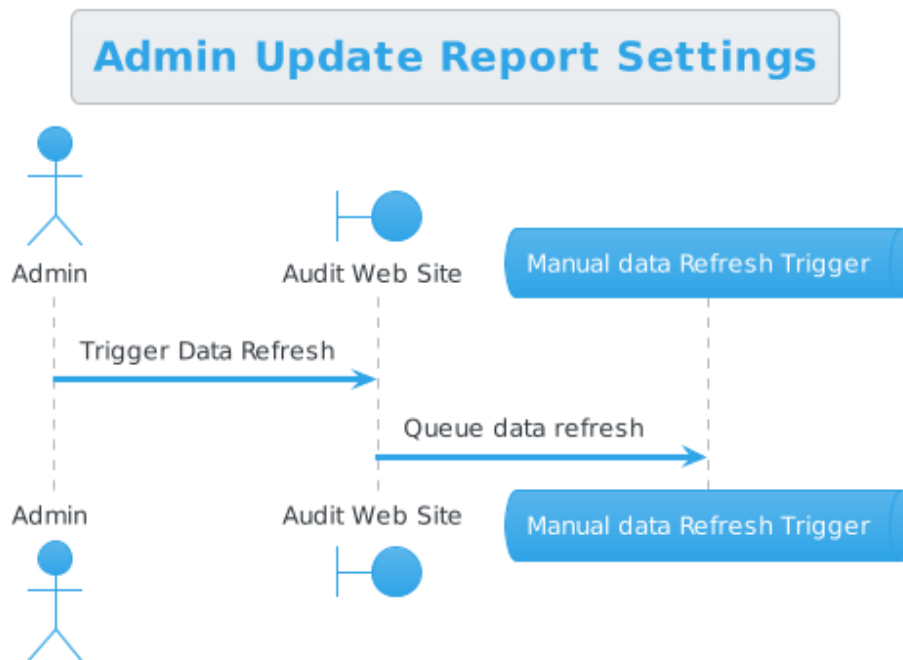
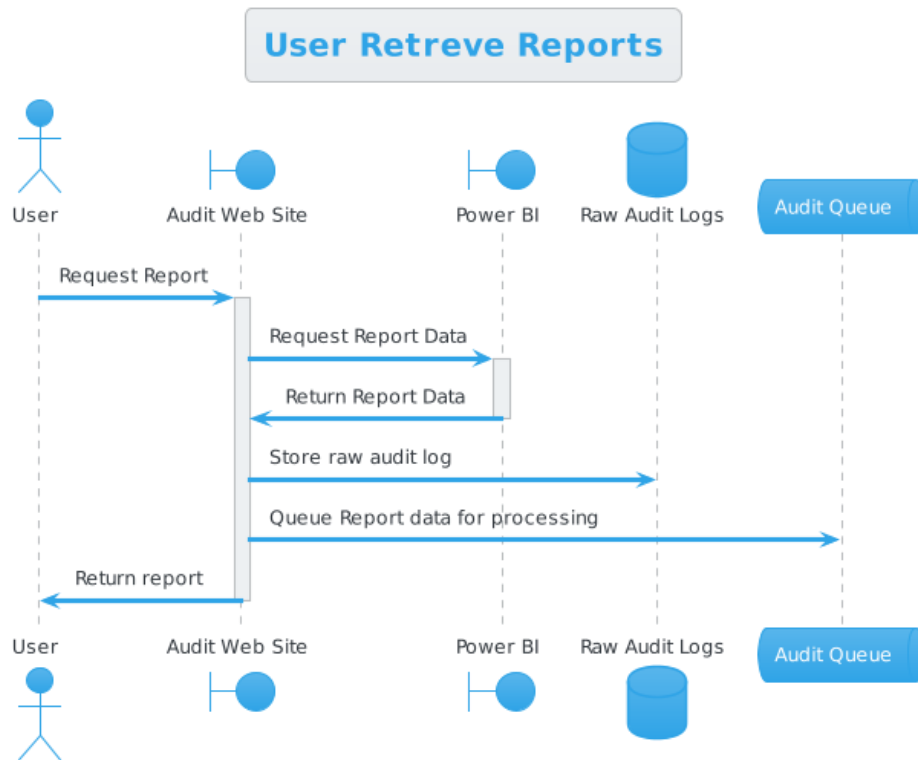
Component Name	Description
Storage Account	Storage for data retrieved from Power BI, audit logs and storing report settings.
Send Grid	Used to send an email alert in the case the audit log processor fails to read the audit logs.
AAD	Provides authorisation for access to reports and administration.
Key Vault	Secure secret store for application secrets.
Power BI	The reporting service

5.2.3 Web Application

5.2.3.1 Connected Services

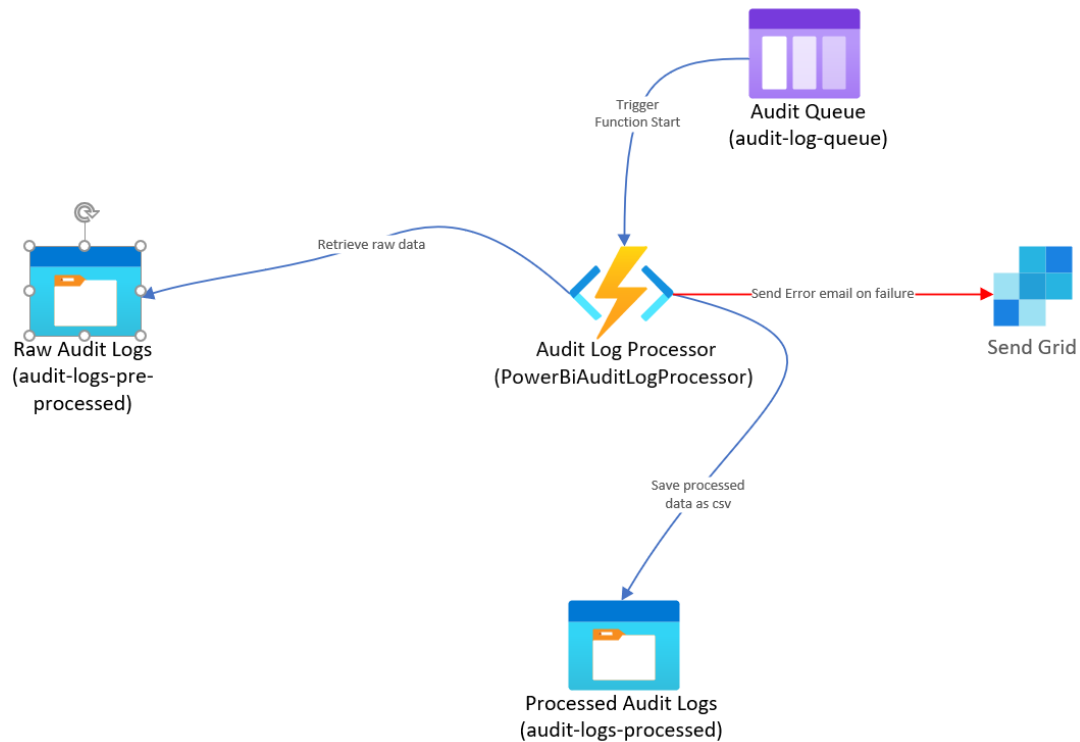


5.2.3.2 Activity Diagrams

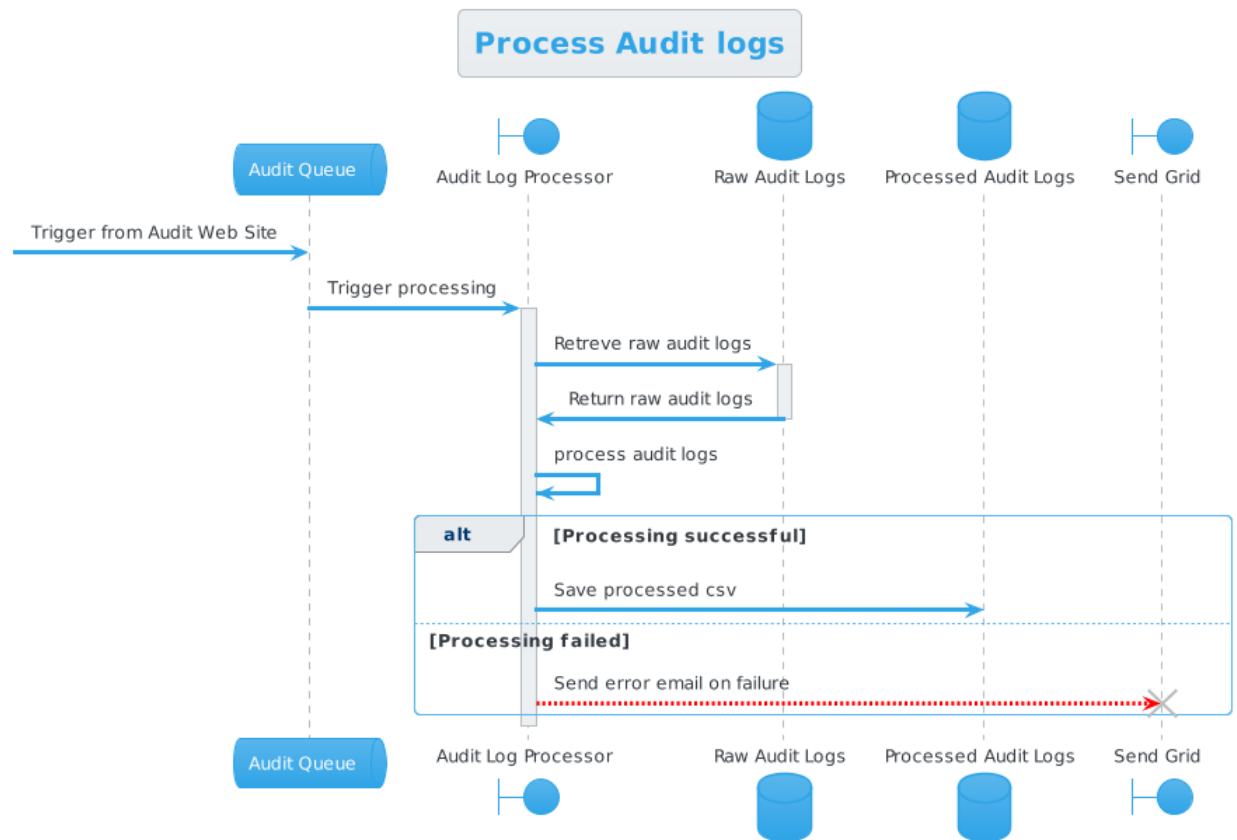


5.2.4 Audit Log Processor Function App

5.2.4.1 Connected Services

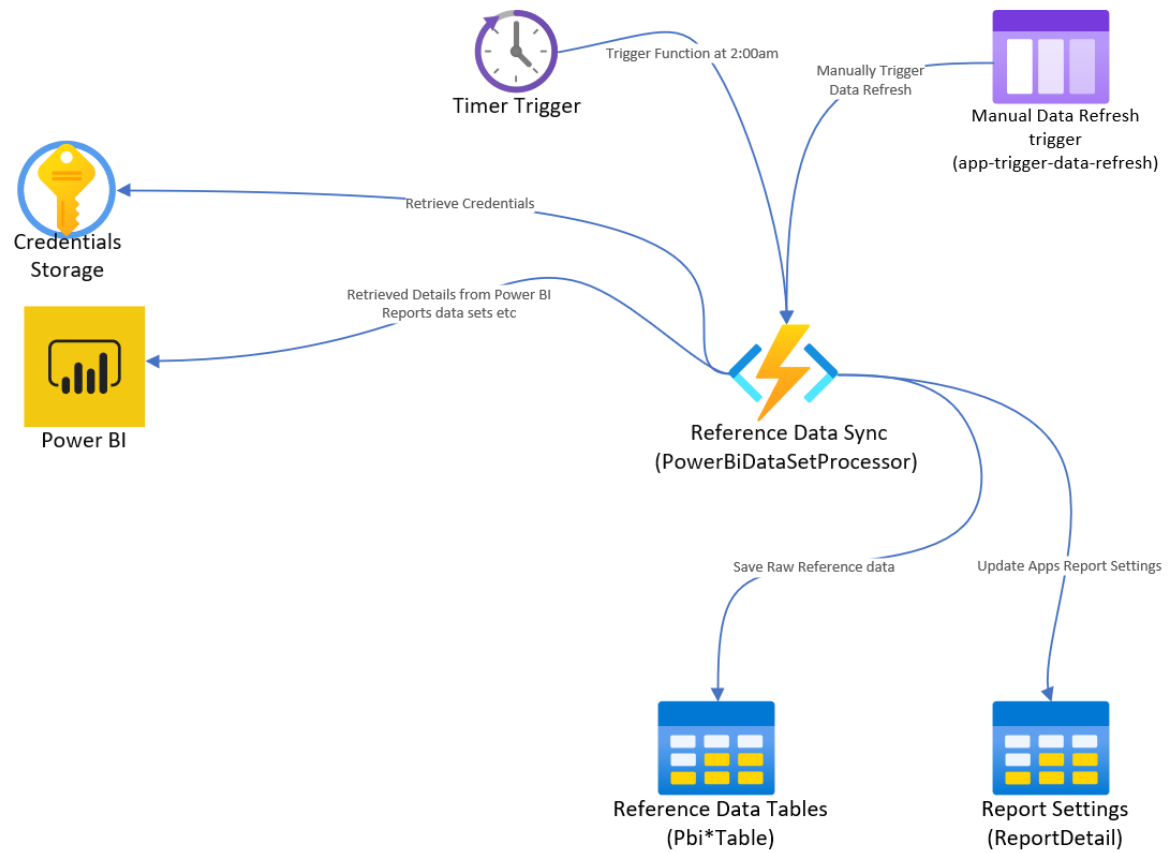


5.2.4.2 Activity Diagram

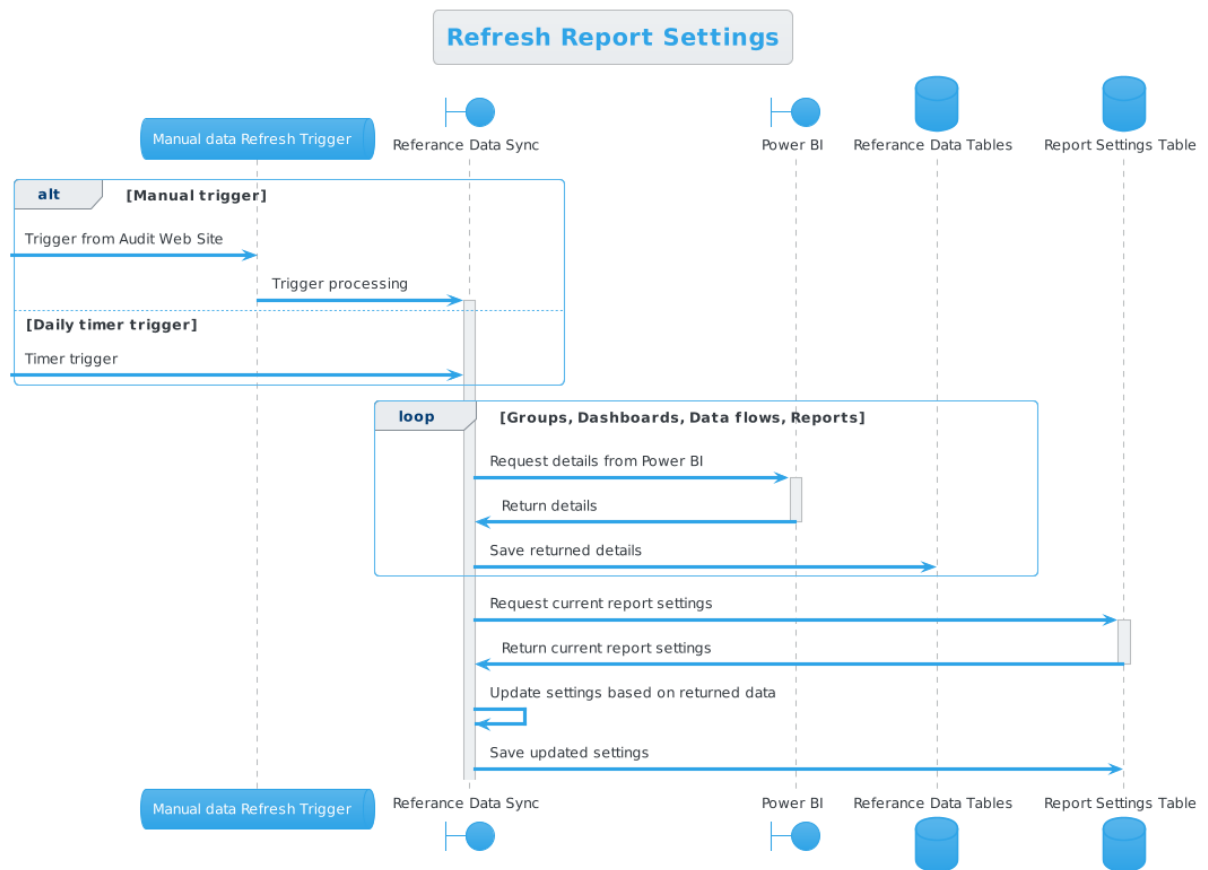


5.2.5 Reference Data Processor Function App

5.2.5.1 Connected Services

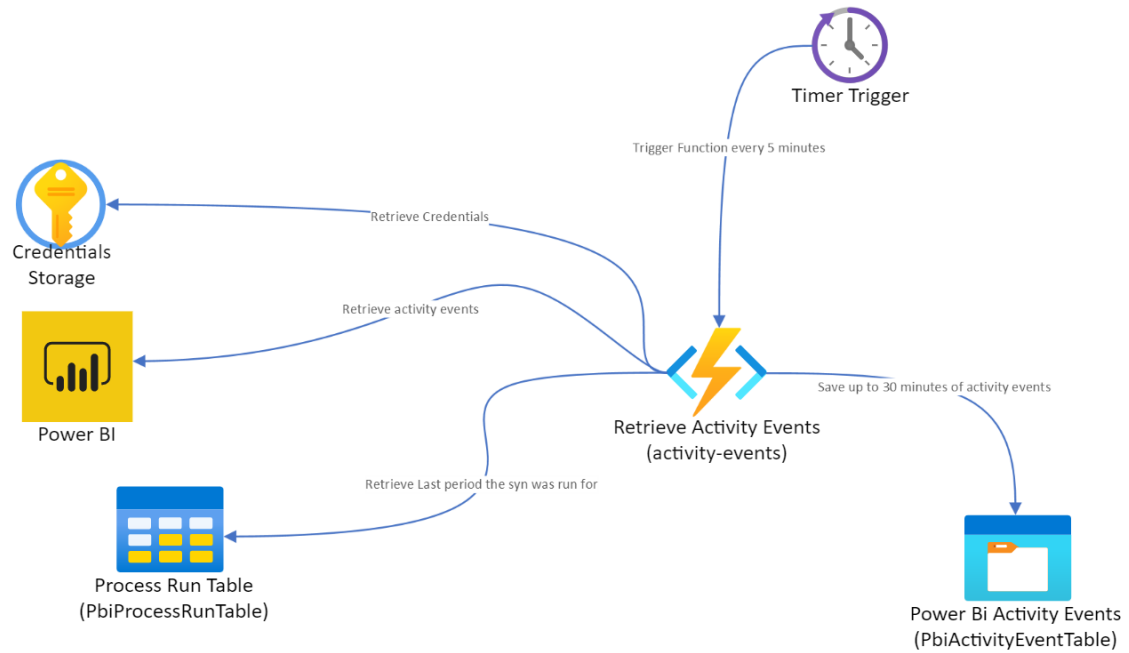


5.2.5.2 Activity Diagram



5.2.6 Activity Events Processor function App

5.2.6.1 Connected services



5.2.6.2 Activity Diagram

