

Peloton

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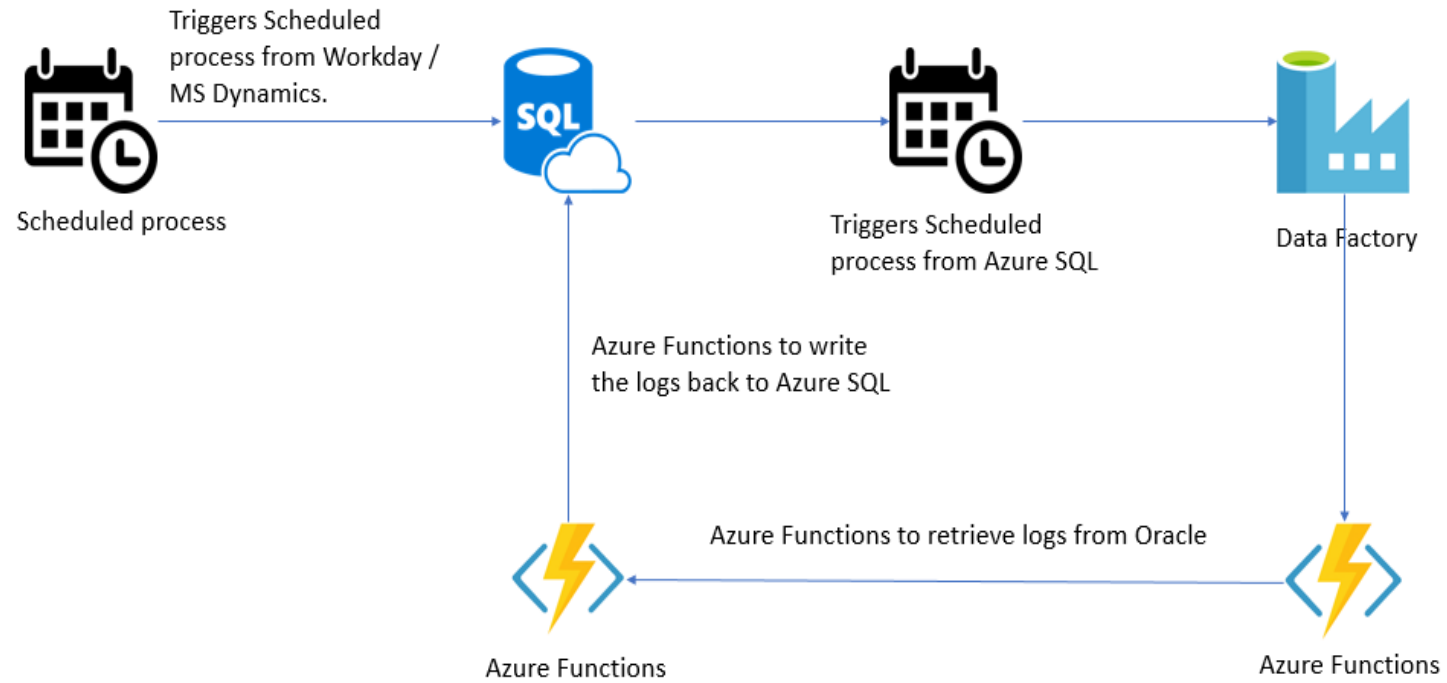
# Business Objectives

- **The client required multiple integrations between Workday, MS dynamics and Oracle**
- **The multiple integrations are done for their cloud ERP implementation using Azure with logging and service now integration**
- **Currently the processes are manual and take up significant effort from the business**

# Application Overview

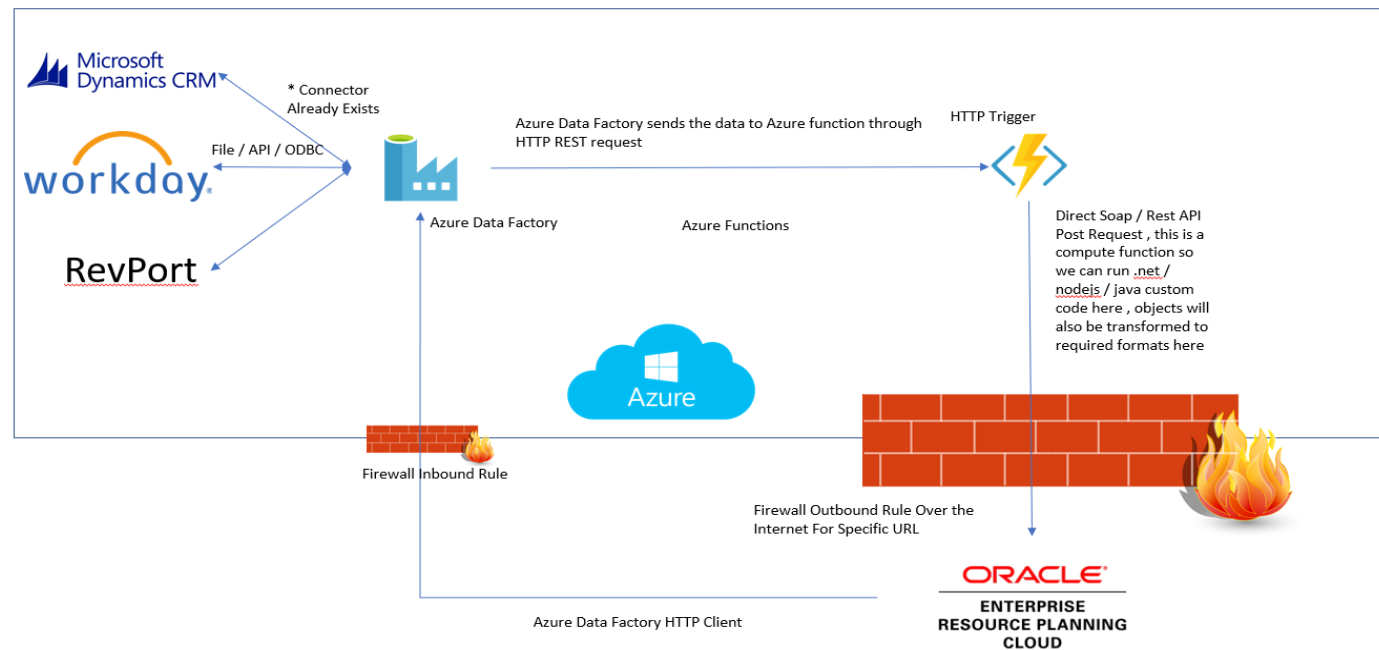
- **A new employee is created in Workday and MS Dynamics**
- **On successful employee creation, a scheduled process exports the data from Workday and Oracle and updates in Azure SQL database**
- **Once it is in Azure SQL database, the scheduled process triggers the individual pipeline to create/ update information regarding employees and customers from Venus to Oracle**
- **The data transformation and mapping are taken care by Data Factory and Azure Functions, data import into Oracle through set of SOAP API calls**
- **On successful process completion, the entire log is retrieved from Oracle and Azure and stored in SQL database**
- **Exception handling is also available i.e a service now ticket is raised if any process failure is occurred**

# Process Flow



# Our Solution

- There are two resources that play vital role in this integration
  - a. Data Factory
  - b. Azure Functions



# Key Components

## Data Factory

Data factory plays a vital role in our integration which extracts the data from Workday, MS Dynamics and drops it into Azure SQL database. A scheduled process triggers the pipelines that extracts the data from the database and sends it to Azure Functions. The data factory also takes care of logging the pipeline runs and email notifications in case of a failure

## Azure Functions

Azure functions receives the data through a HTTP POST request, retrieves the credentials for Oracle from the Key vault, Sends the data through SOAP API request. If there is an error at Oracle the Azure functions retrieve the error from Oracle and sends it to the Data Factory as a response

# Advantages

**Azure Functions are server less that scale to meet demand. The advantages are as follows:**

- **Azure functions saves cost because it is billed by the exact amount of time used by the application and it runs only when needed (triggered by data factory)**
- **Azure functions can scale to handle huge surges of traffic**
- **Using Data factory we can invoke pipelines with on-demand and trigger-based scheduling**
- **We can visually monitor pipeline activity with logging and pipeline history and track error sources**