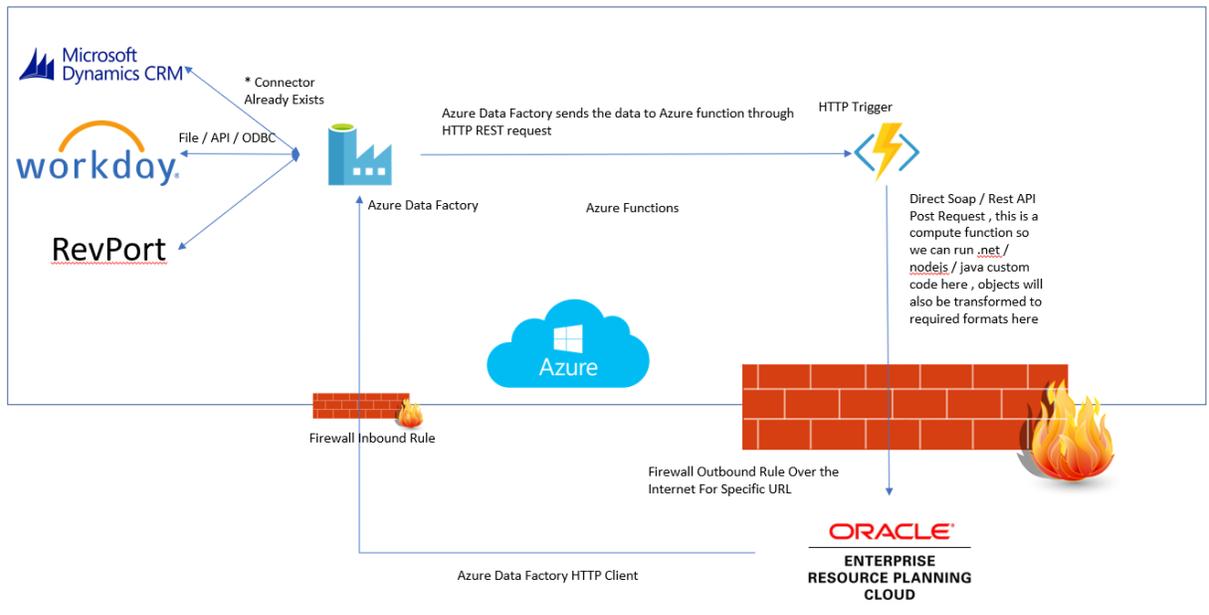


Requirement

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

Our solution

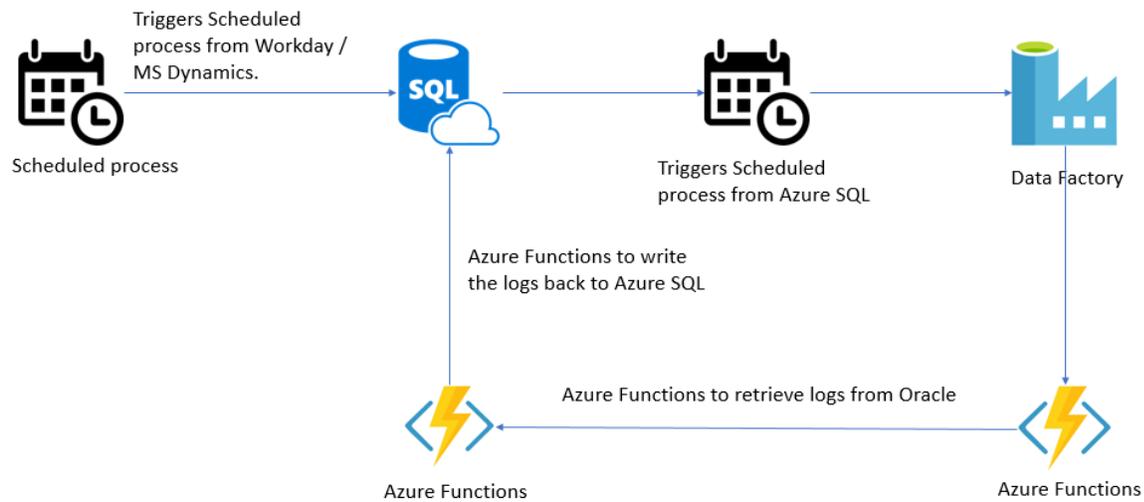


There two resources that play vital role in this integration

- Data Factory
- Azure Functions

Working

Once a new employee is created in Workday and MS Dynamics, a scheduled process exports the data from Workday and Oracle and updates in a Azure SQL database. Once it is in Azure SQL database Scheduled process triggers the individual pipelines to create / update employees and customers information from Venus to Oracle. These Data Factory and Azure Functions takes care of the Transformation and Data Mapping, imports the data into Oracle through series of SOAP API calls. Once the process is complete the complete log from Oracle and Azure are retrieved and stored in SQL database. In case of a failure a ServiceNow ticket is also created.



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 Keyvault, 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 to our approach

- Azure Functions is serverless that scale to meet demand.
- 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.