

# Architecture

## Architecture

TUPPER-ext, Todd you can add your stuff here

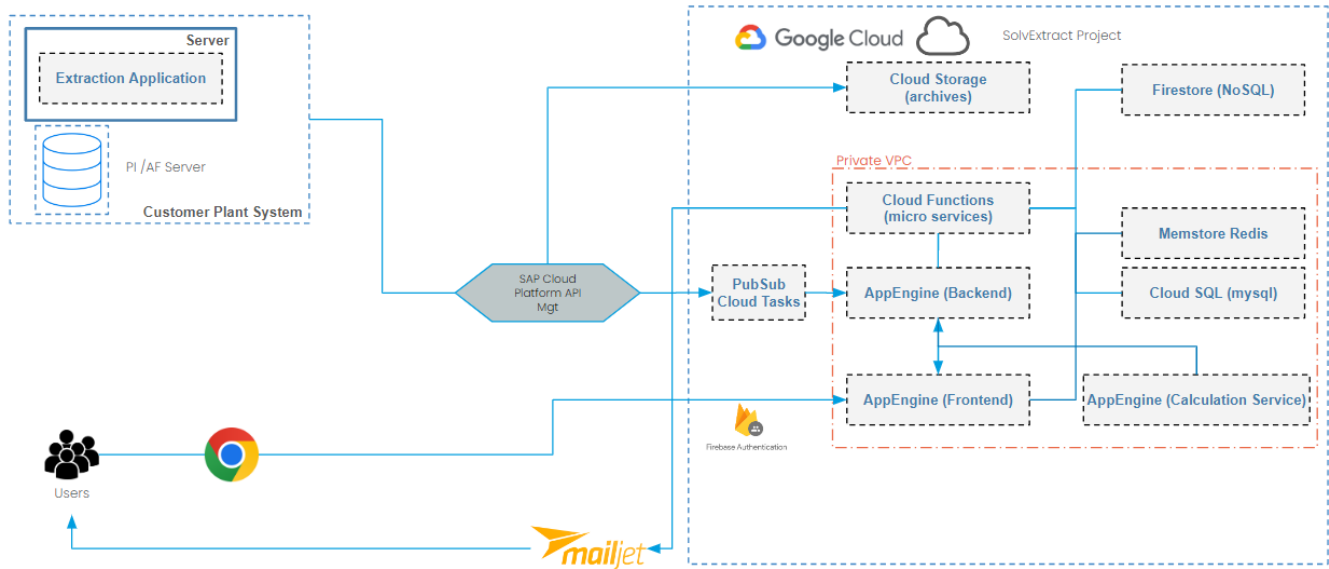
Link to latest Architecture Analysis validated by architecture team (January 2024):

## Syensqo

SolvExtract Web Application is built managed services hosted in Syensqo's Google Cloud Platform organization.

The application frontend (<https://solvextract.syensqo.com>) runs on Google App Engine has been optimized into microservices using Cloud Function to improve resiliency and reduce latency.

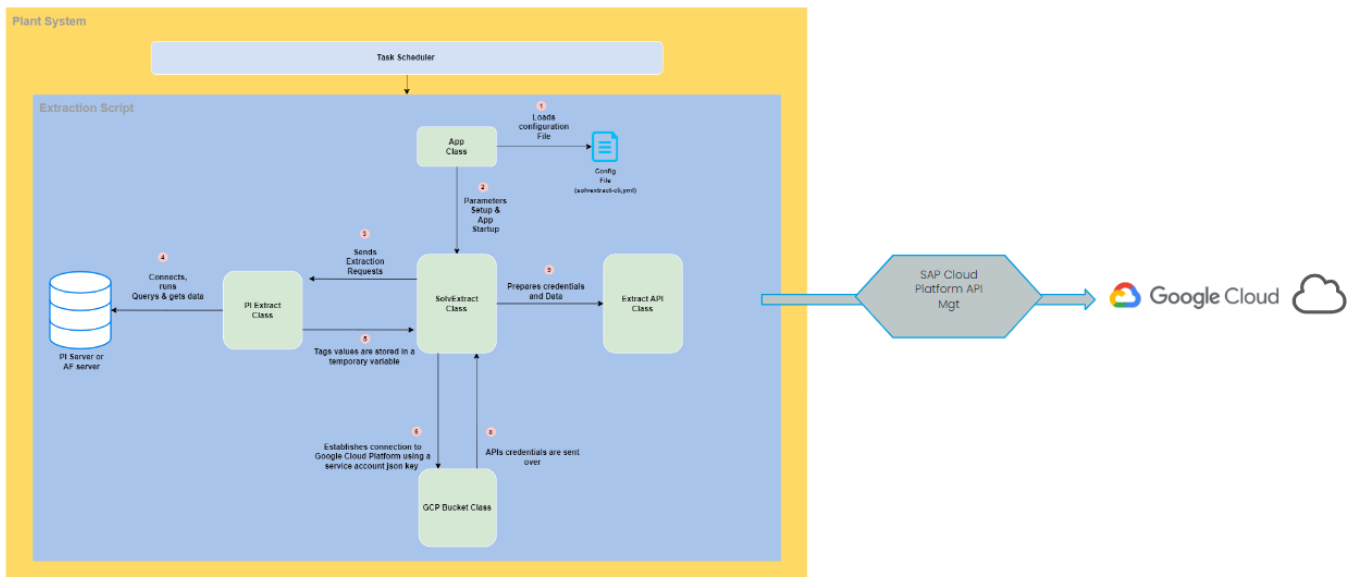
## High level Technical blueprint



Additionally, Syensqo develops custom scripts for each customer adapted to their environment to send the relevant data to the SolvExtract backend for processing.

## Scripts Deployed for Customers

# High level Technical blueprint (Plant System Zoom)



## Supervision & Notifications

For application managers, a dashboard provides visibility of the data reception coming from Customer sites

customer	customer plant	last insert	hours w/o data	minites w/o ...	avg insert minutes	warning	alert
Pampa Camarones	Pampa Camarones V.2	Jul 29, 2024, 2:00:44 PM	67	4033	1277	true	false
MMG	Kinsevere	Aug 1, 2024, 6:00:18 AM	3	194	257	false	false
KAZ Minerals	Aktogay	Aug 1, 2024, 8:32:23 AM	0	41	242	false	false
Glencore	Lomas Bayas	Aug 1, 2024, 7:00:13 AM	2	134	258	false	false
Freeport	El Abra	Aug 1, 2024, 7:03:50 AM	2	130	283	false	false
Freeport	Morenci Metcalf Operations	Aug 1, 2024, 7:01:46 AM	2	132	295	false	false
Freeport	Morenci Central (Interlaced) Operations	Aug 1, 2024, 7:04:00 AM	2	130	279	false	false
Freeport	Safford	Aug 1, 2024, 7:01:58 AM	2	132	315	false	false
Freeport	Chino	Aug 1, 2024, 7:04:15 AM	2	130	281	false	false
Freeport	Morenci Modoc Operations	Aug 1, 2024, 3:02:22 AM	6	371	297	true	false
Codelco	División Gabriela Mistral	Aug 1, 2024, 9:00:29 AM	0	13	69	false	false
Codelco	División Radomiro Tomic	Aug 1, 2024, 9:00:20 AM	0	14	69	false	false
Asarco	Silver Bell Operations	Aug 1, 2024, 12:00:58 AM	9	553	496	true	false
Asarco	Rav Operations	Jul 31, 2024, 7:03:45 PM	14	850	1440	false	false

Additionally, warning and alert notifications are published to a Space to inform administrators and managers or a potential disruption.


# S SolvExtract Notifications ▾

3 members • Private

**Chat** Shared Tasks

## RECOVERY


Customer **Asarco** Connectivity Restored for plant **Silver Bell Operations**, ID **3** last updated at **2024-07-31 16:00:47+00:00 UTC**, 31 minutes ago.

Digital Mining Bot  Yesterday 7:32 PM



## RECOVERY

Customer **Antofagasta Minerals** Connectivity Restored for plant **Antucoya**, ID **47** last updated at **2024-07-31 17:00:23+00:00 UTC**, 31 minutes ago.

Digital Mining Bot  Yesterday 11:32 PM



## WARNING

Customer **Freeport** Data Connectivity Disruption Detected  
No data received from plant **Safford**, ID **32** in **6** hours  
Last update at **2024-07-31 15:01:54+00:00 UTC**  
Average time to receive data is every **5** hours and **15** minutes.

Check logs here:

<https://console.cloud.google.com/logs/query;query=protoPayload.resource%3D%22%2Fapi%2Fimport%2F32%22?project=prd-minchem-solvextract>

## Navigation tree

The root page Marketing & Sales could not be found in space SolvExtract.

## Pages recently viewed