

Architecture

Architecture

TUPPER-ext, Todd you can add your stuff here

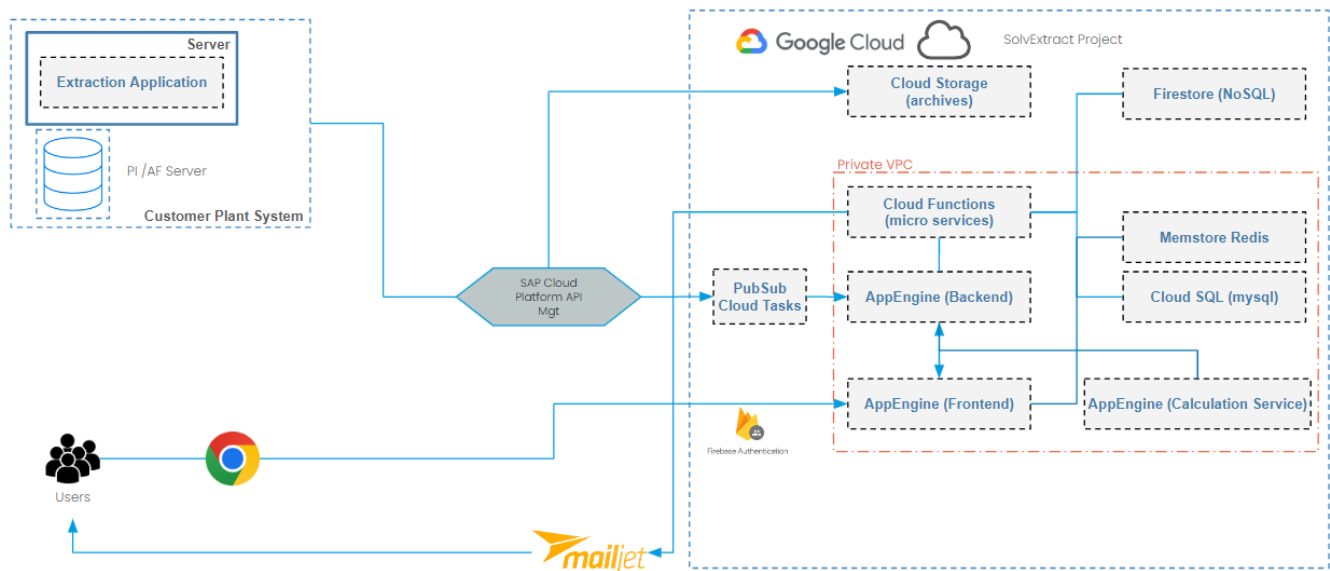
Link to latest Architecture Analysis validated by architecture team (January 2024):

Syensqo

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

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

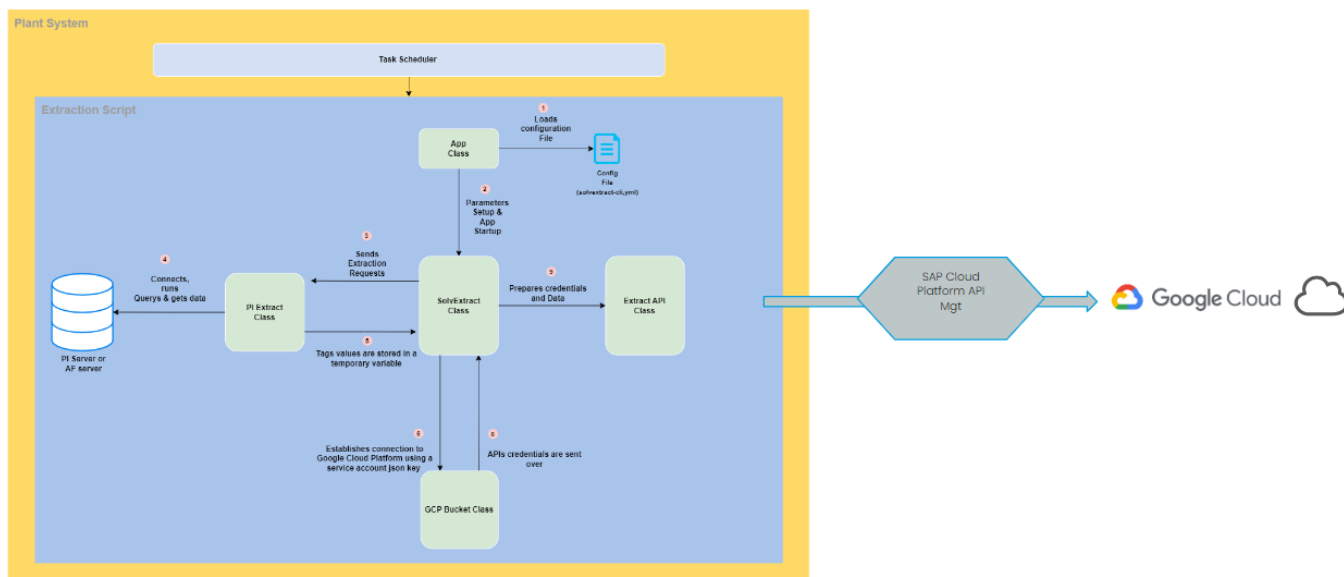
High level Technical blueprint



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

 Jul 1, 2024 - Jul 31, 2024 							
Plant Data Insert Frequency							
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, 2:00:44PM	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, 7:03:45PM	14	850	1440	false	false

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



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