

Architecture

Architecture

TUPPER-ext, Todd you can add your stuff here

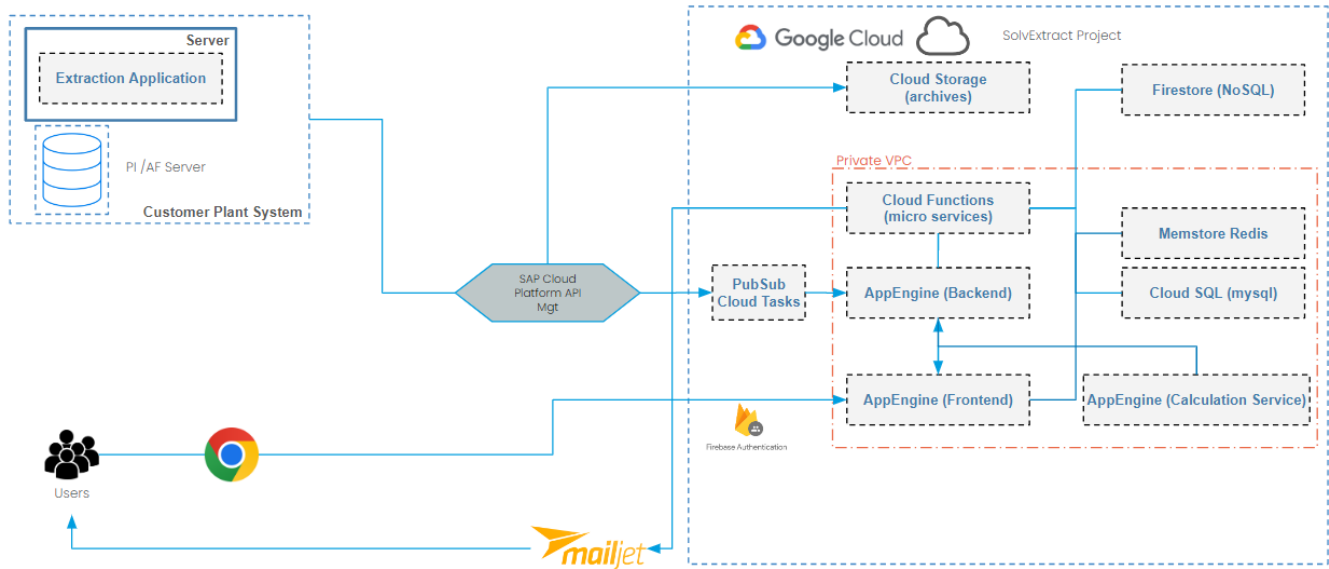
Link to latest Architecture Analysis validated by architecture team (January 2024):

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.

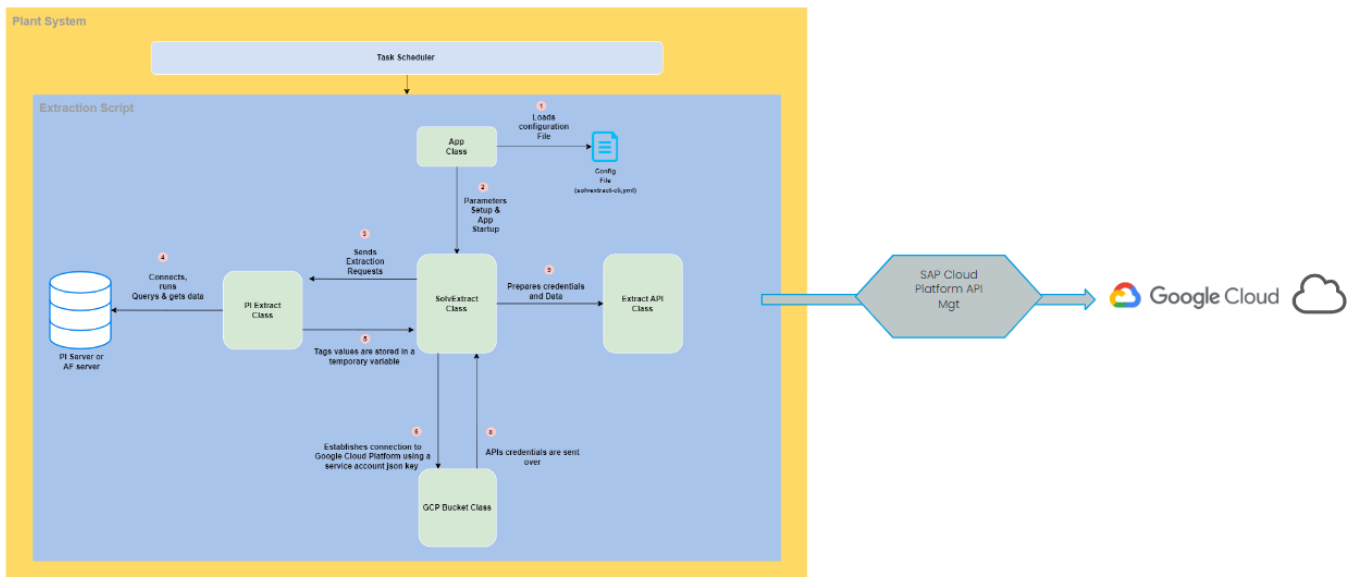
High level Technical blueprint



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