
How to survive cloud implementations and be successful

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Success

Success is no accident. It is hard work, perseverance, learning, studying, sacrifice, and most of all, love of what you are doing and learning to do.

Pele

Retrieved from:

<https://www.brainyquote.com/authors/pele>

Presentation Objectives

- Project Managers need to be able to understand and appreciate the issues related to cloud concepts and implementations;
- Many project problems are related to misconceptions when it comes to cloud implementations;
- Cloud applications provide the same implementation challenges as applications implemented on-premise.

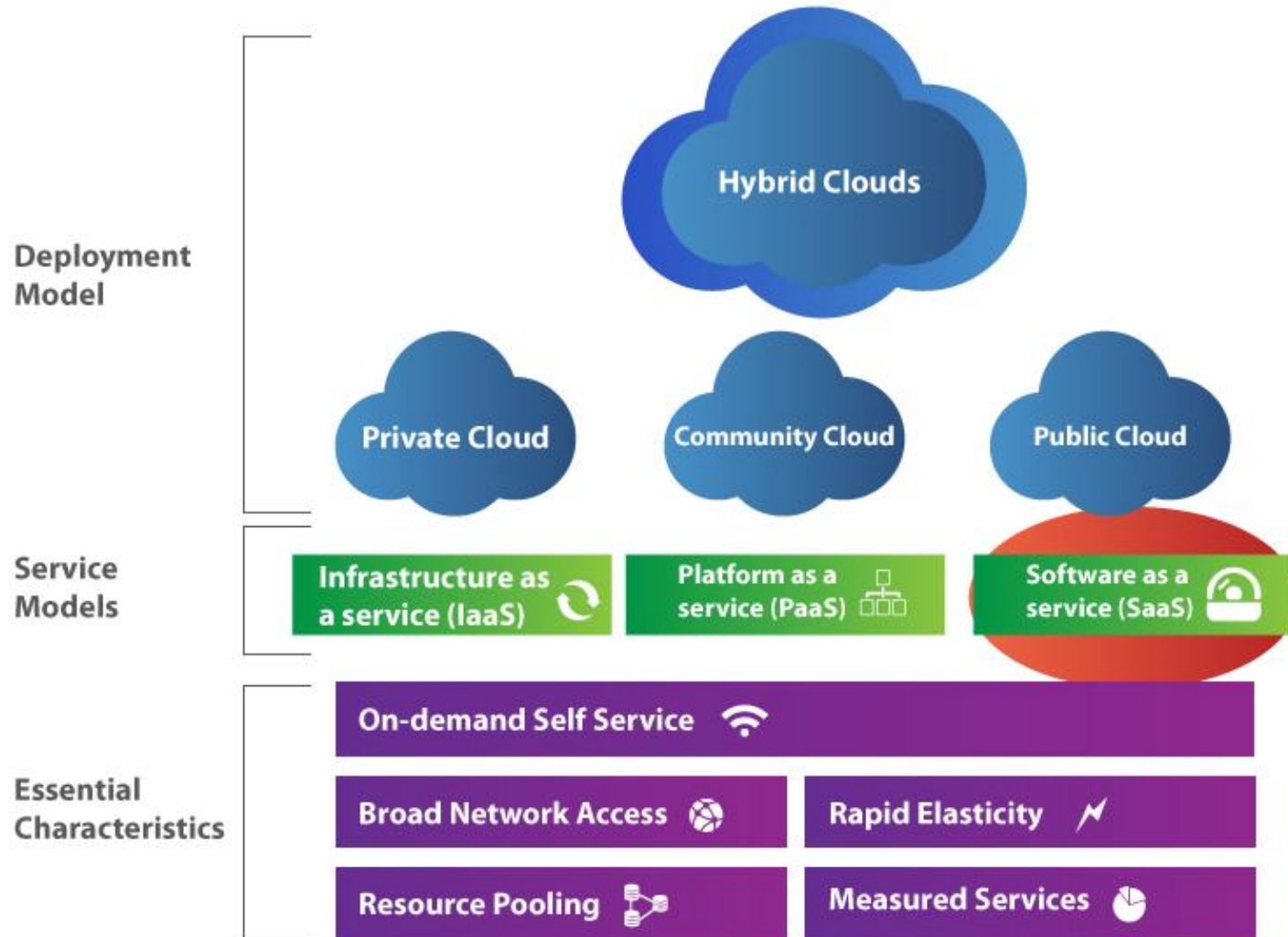
Six Major Cloud Characteristics

- On-demand
- Ubiquitous access
- Multitenancy (and resource pooling)
- Elasticity
- Measured usage
- Resiliency (Not included in the NIST definition)

Cloud Delivery Models

Cloud Delivery Model	Typical level of control granted to cloud consumer	Typical functionality made available to cloud consumer
SaaS	Usage and usage-related configuration	Access to front—end user-interface
PaaS	Limited administrative	Moderate level of administrative control over IT resources relevant to cloud consumers' usage of platform
IaaS	Full administrative	Full access to virtualized infrastructure-related IT resources and possibly, to underlying physical IT resources

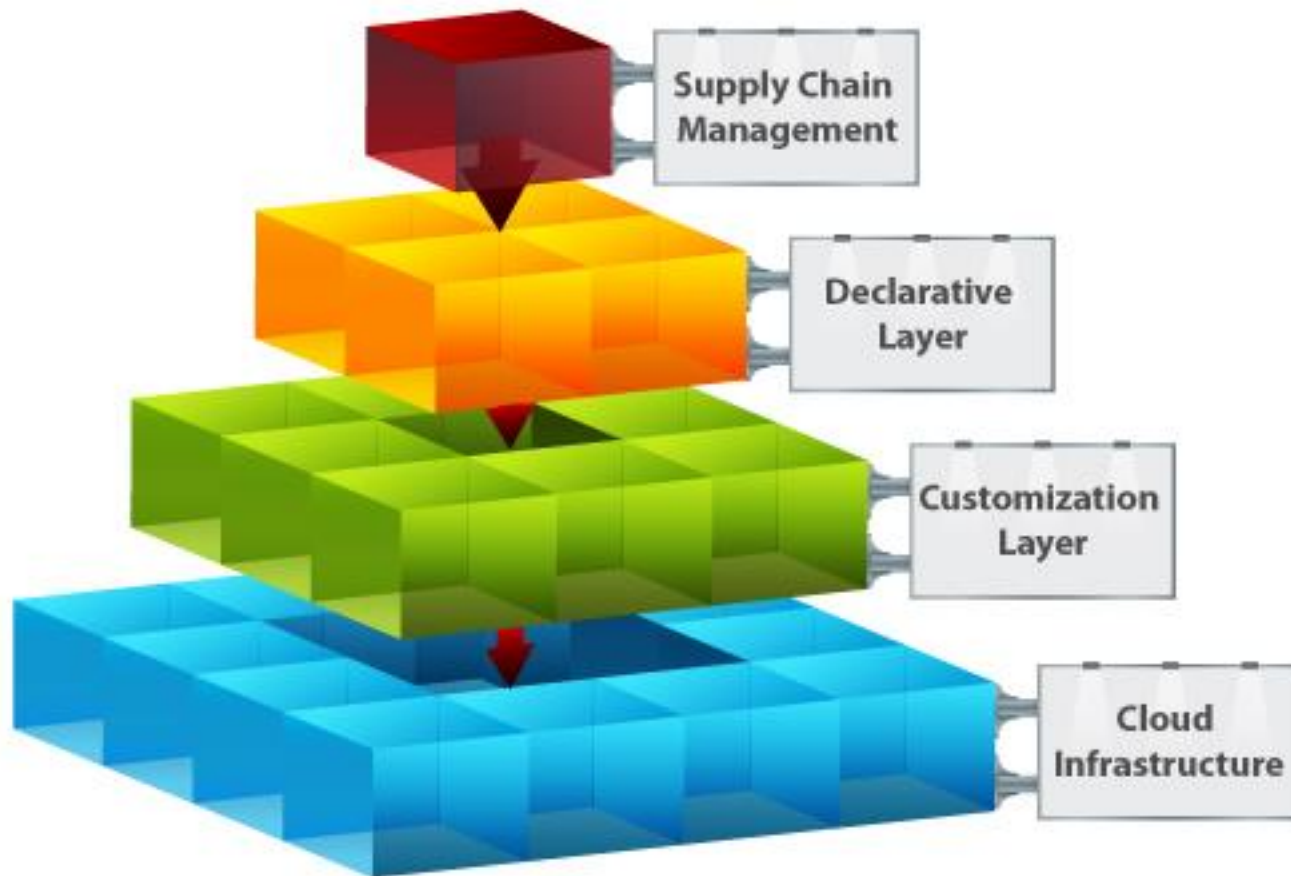
Cloud Architectures



Some Common Misconceptions

- Cloud applications can be used out of the box;
- The cloud application vendor knows what has to be done;
- The cloud application has standard integration points;
- Data loading is easy;
- Data backup is not required since we use the cloud.

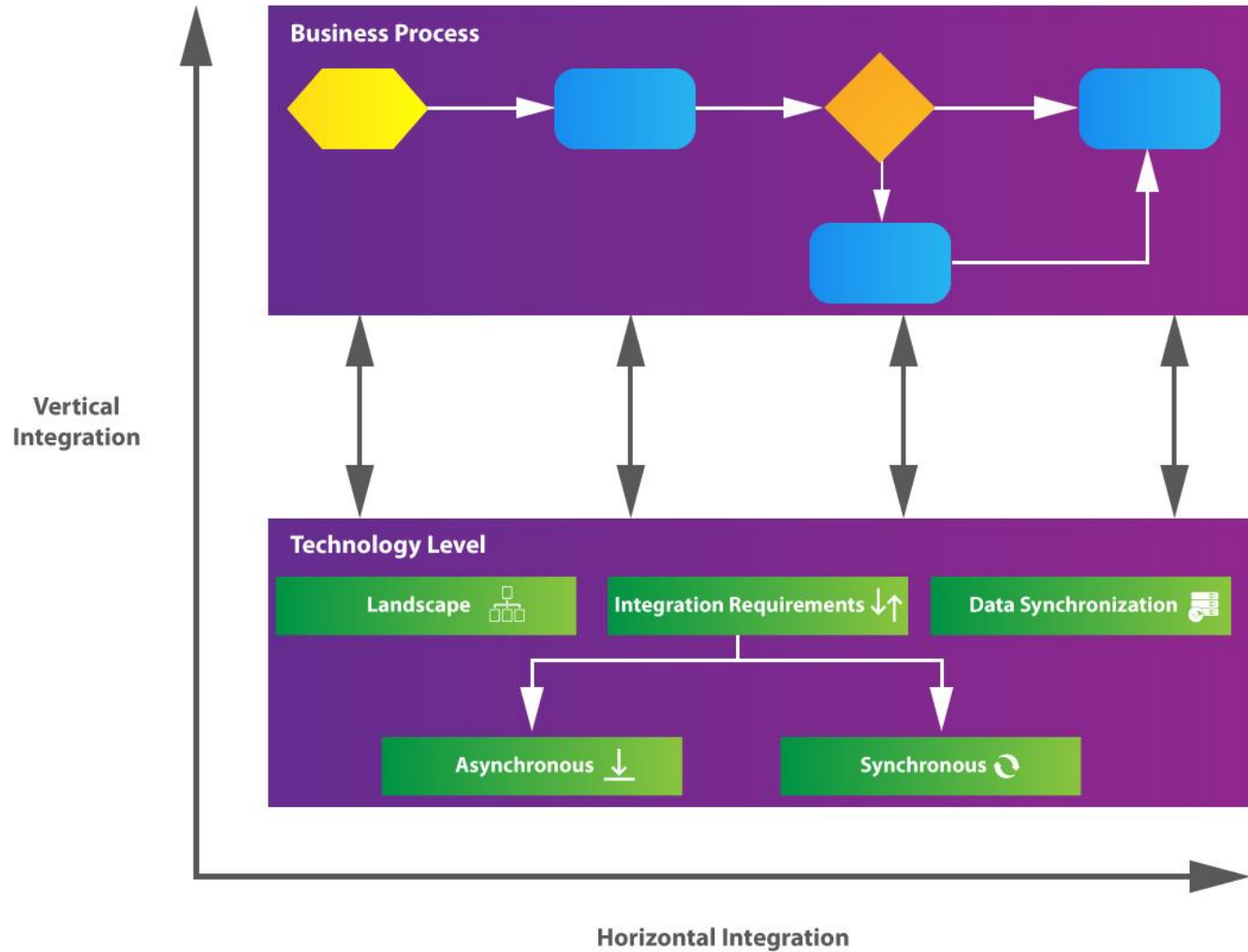
The ideal SaaS service model



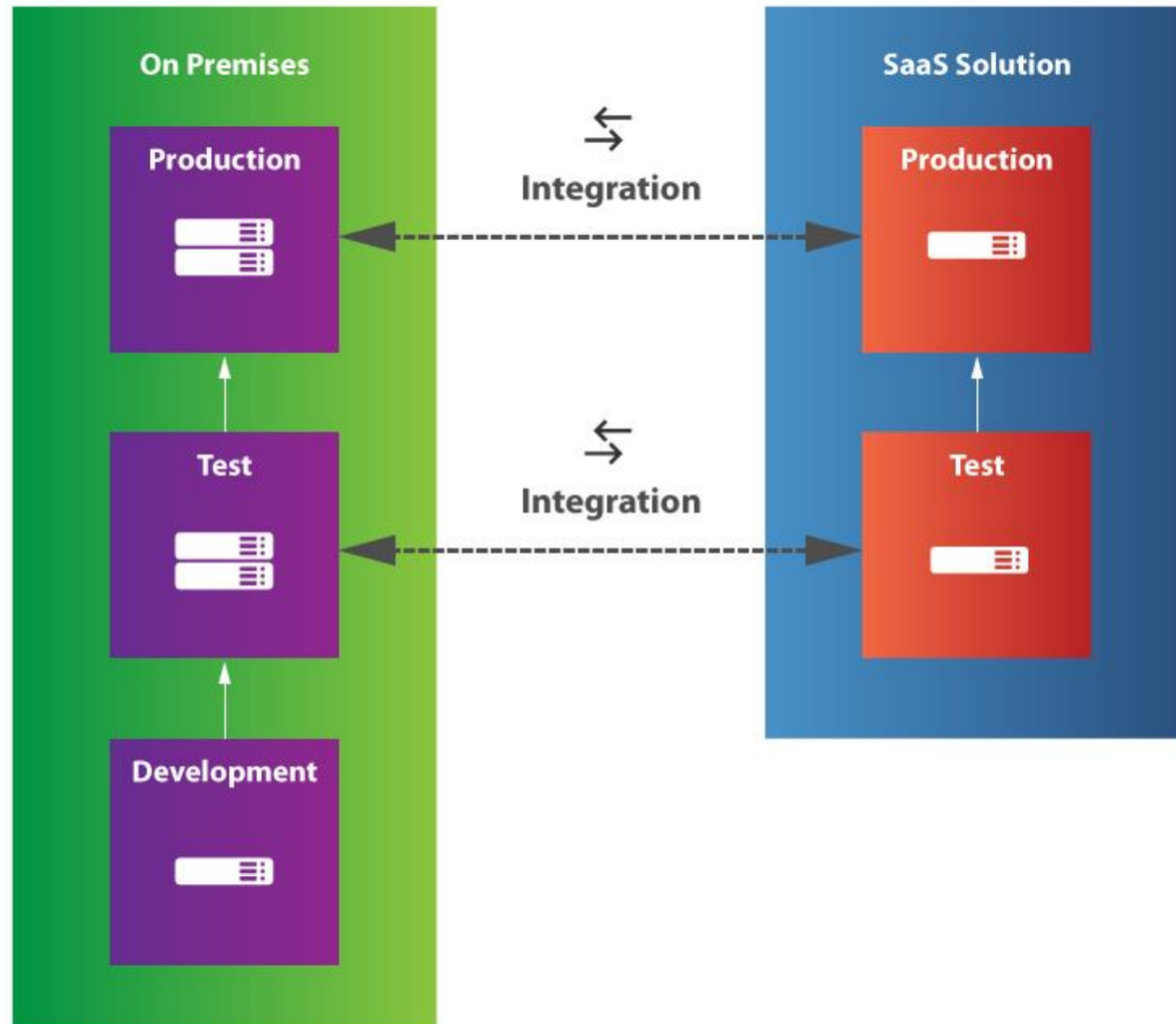
Vertical & Horizontal Implementation Model

- Vertical Integration
 - Concerned with business process alignment and underlying technology concepts;
 - Example: Async versus sync integration for spending limits on cost centers
- Horizontal Integration
 - Concerned with technology alignment across environments;
 - Example: Cloud and on-premise landscape alignments

Vertical & Horizontal Implementation Model cont'd



Example of Landscape Alignment



Technology Issues

- Web service support is limited
 - The body of the message contains a csv structure.
- Exchange of files (Mostly CSV format)
 - Dynamic changes of file structure
- Landscape misalignment
- Configurations are managed by the vendor
- No common integration architecture

Response messages compared

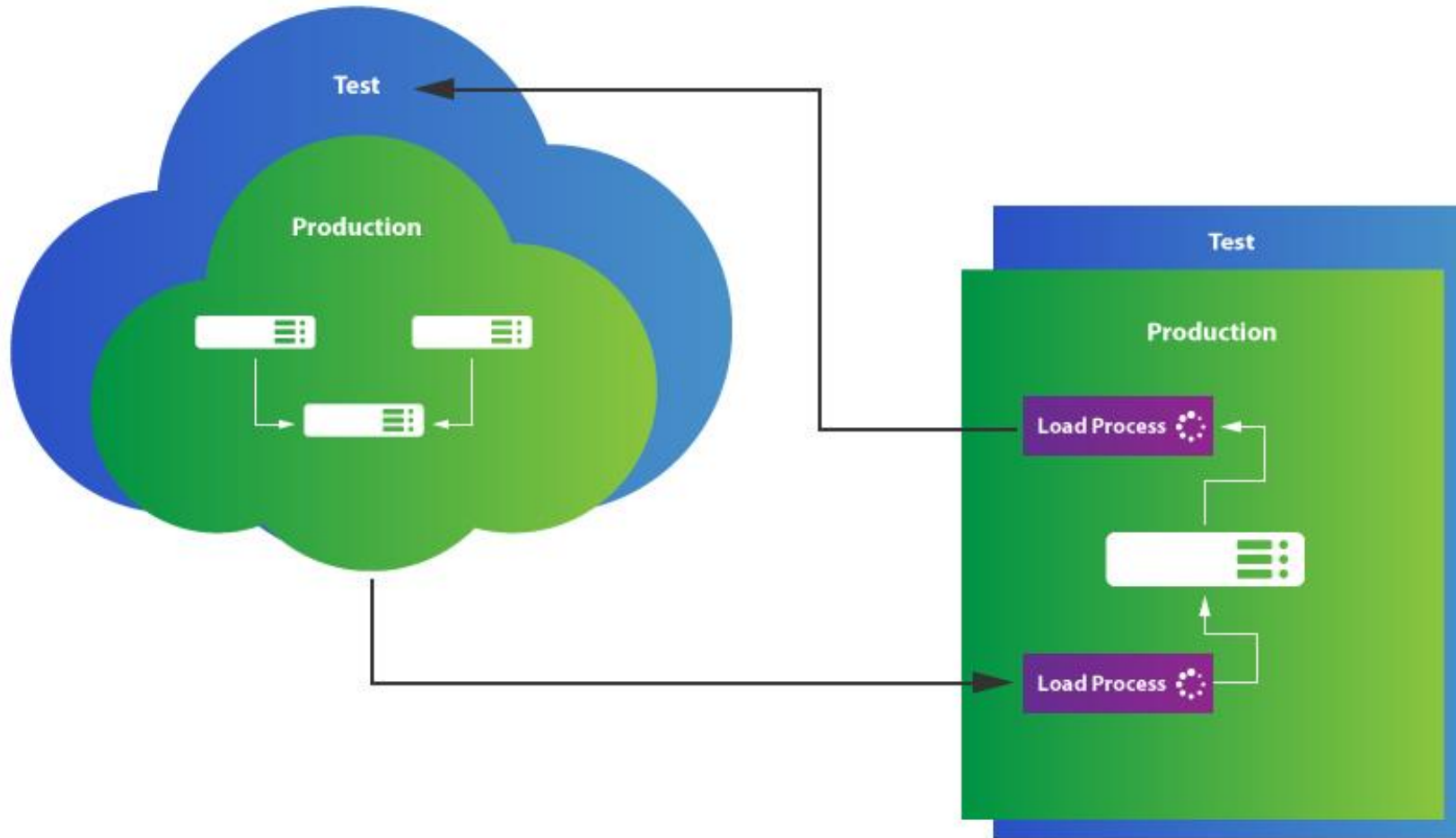
```
1 <?xml version="1.0" encoding="UTF-8"?>
2 <soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns="http://soap.sforce.cc
3 <soapenv:Body>
4 <getVendorsResponse>
5 <result>
6 <acctgrp>Z012</acctgrp>
7 <searchTrm>BU</searchTrm>
8 <type>Offshore</type>
9 <vendorId>1036974</vendorId>
10 <vendorname>CP VIETNAM CORPORATION</vendorname>
11 <vendorname2 xsi:nil="true"/>
12 <vendorstatus>Active</vendorstatus>
13 </result>
14 <result>
15 <acctgrp>Z012</acctgrp>
16 <searchTrm>BU</searchTrm>
17 <type>Offshore</type>
18 <vendorId>1035140</vendorId>
19 <vendorname>CAPILANO HONEY LIMITED</vendorname>
20 <vendorname2 xsi:nil="true"/>
21 <vendorstatus>Active</vendorstatus>
22 </result>
23 </getVendorsResponse>
24 </soapenv:Body>
25 </soapenv:Envelope>
26
27
```

Correct structure

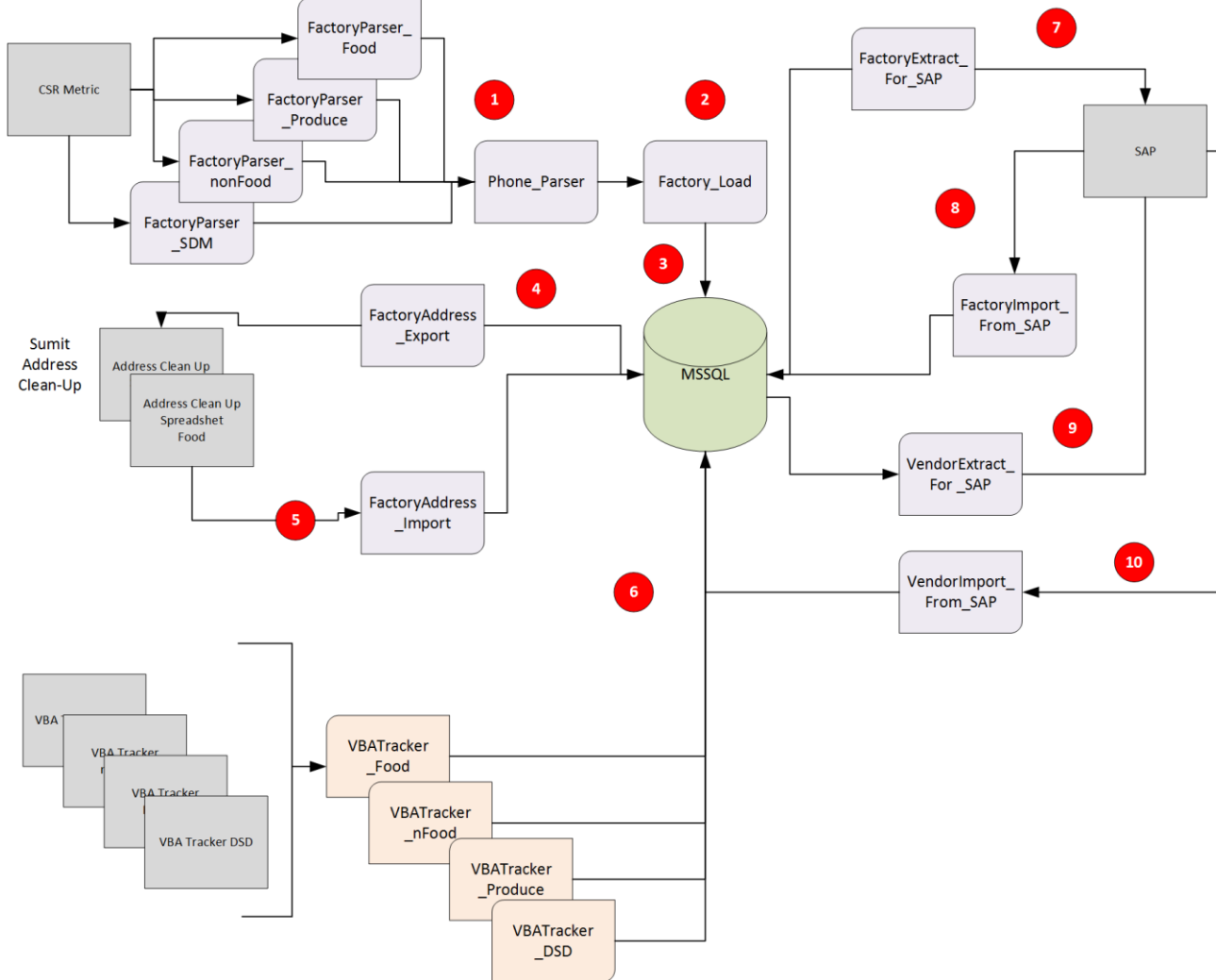
CSV structure embedded

```
1 <?xml version="1.0" encoding="UTF-8"?>
2 <soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns="http://soap.sforce.cc
3 <soapenv:Body>
4 :Account Group","SearchTerm"."Type","Vendor id"."Vendor Name","Vendor Name2","VendorStatus"
5 Z012,BU,Offshore,1036974,CP Vietnam Corporation,True,Active
6 Z012,BU,Offshore,1035140,Capilano Honey Limited,ture,Active
7 </soapenv:Body>
8 </soapenv:Envelope>
9
```

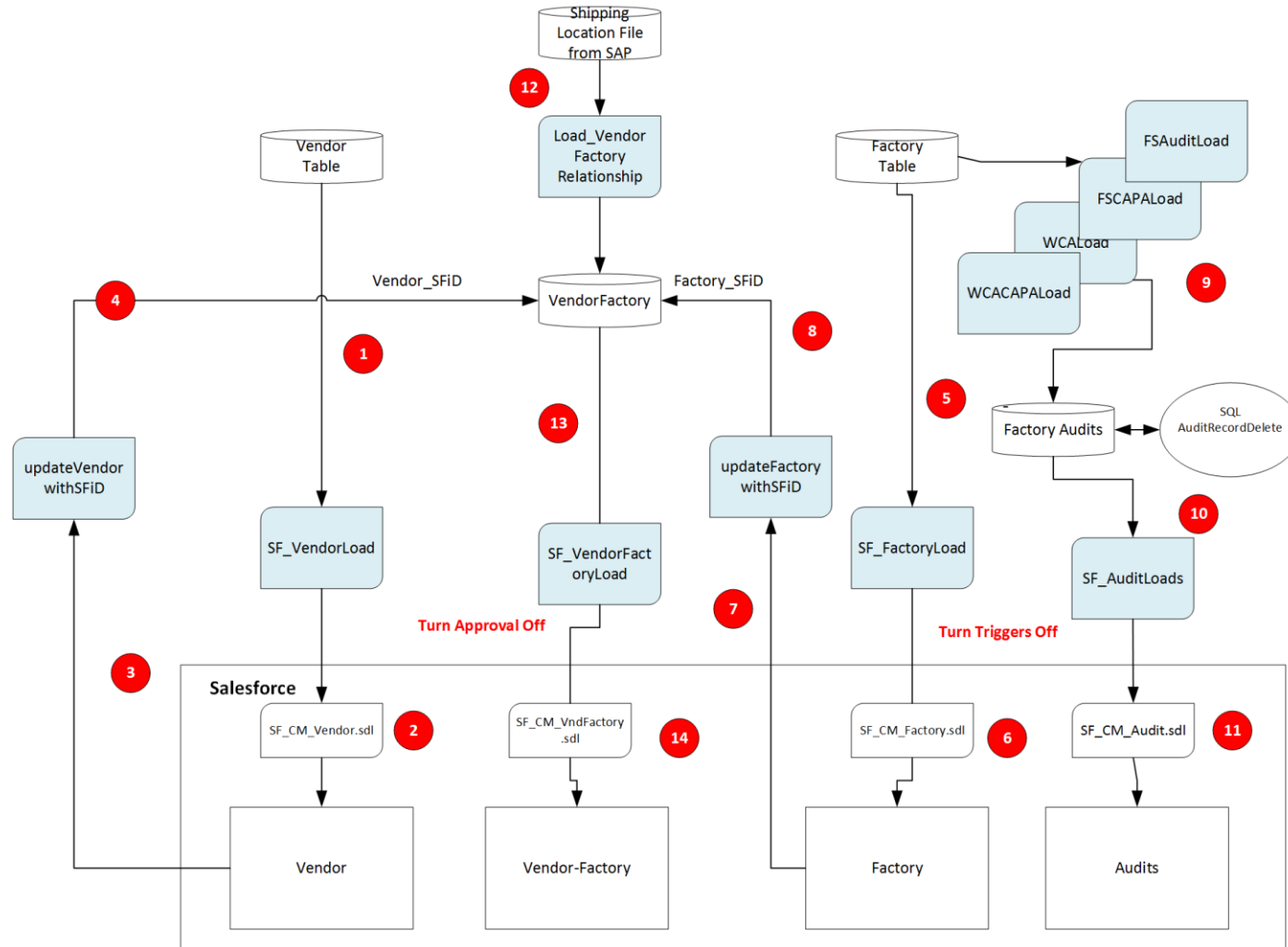
Data contamination scenario



Sample Data Loading Process Part 1



Sample Data Loading Process Part 2



Summary

- Understand conceptually what the cloud vendor is offering
- Make a plan for data conversion
- Ensure a structured migration and deployment approach
- When integrating to on-premise application ensure landscape alignment.
- Develop a backup and recovery plan and test with your cloud application

Questions?

