



# Cloud Migration

# Agenda



Digibee and its integration platform



Digibee approach to cloud migration: Enabler



The data avenue: Flexibility



The data avenue: steps to cloud migration



The data avenue: modern integration architecture



Digibee unique model



We are redefining systems integrations

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# Who we are



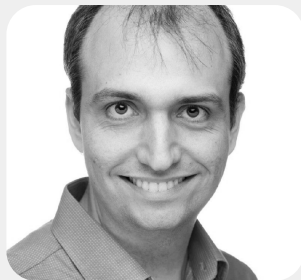
Rodrigo  
Bernardinelli

CEO



Vitor  
Sousa

COO



Peter  
Kreslins

CTO



Paulo Veras



Geraldo Neto



Laércio Albuquerque

# What we have accomplished

+ 150 clients

+ 4.000 integrations running

+380 MM monthly requests

## Business results

Time to Market

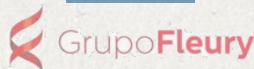
Security

Data migrations

Application Migrations

API strategy

Control and Visibility



The background features a large, dark purple shape on the left side, which has a wavy, organic edge. A bright orange, teardrop-shaped element is positioned within the upper part of this purple shape. The rest of the background is a light grey, textured surface, resembling paper or fabric, with some subtle variations in tone and texture. The overall composition is modern and minimalist.

**Digibee  
platform**

Fewer Roles: smaller, lean and efficient Integration Teams

Integration Functional Analysts  
Jr Developers

On-Premise  
Proprietary  
Protocols  
Built-In  
Security

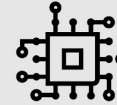


Legacy Platforms  
& Traditional  
Approach

## DIGIBEE INTEGRATION MODEL

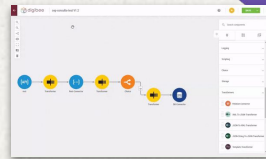


HYBRID INTEGRATION PLATFORM

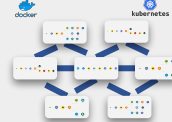


Modern, Fast  
Connected Digital  
Ecosystems

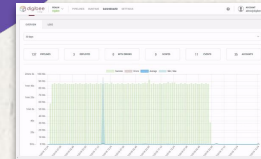
Cloud/Mobile  
Internet  
Security  
Open  
Protocols



BUILD



RUN



OPERATE



# **Digibee approach to cloud migration**

**Enabler**

# DIGIBEE APPROACH TO ENABLE CLOUD MIGRATION



The cloud migration strategy begins with the creation of an architecture base that enables the project and ensures **FLEXIBILITY** for the customer.

Build the road, before building the house.



**DIGIBEE** is precisely this **ENABLING INFRASTRUCTURE**, based on a modern integration architecture.



## PROJECT ACCELERATOR

- Faster system implementation in cloud
- SaaS platform “ready to use”
- **Reuse of legacy interfaces**
- Reusable capsules
- Low code integrations
- **Interfaces mocks**



## COST REDUCTION

- Faster projects
- **Low initial investment**
- **Scalable business model**
- Decreasing operating costs
- **Frees up resources for the core business**
- **Construction, execution and operation included in Digibee offer**



## RISK REDUCTION

- Environment stability
- Endpoints preservation
- Transactional Monitoring
- Smoother troubleshooting
- **Zero downtime**
- **No cut-off / phased cut-off**



**The data  
avenue**

**Flexibility**

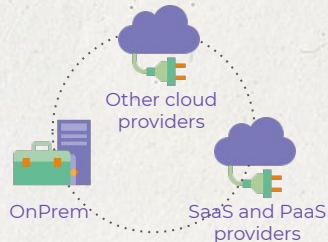
# THE DATA AVENUE: FLEXIBILITY

## STRATEGY

- The data journey (business flow) defines the migration strategy
- **Security** for all endpoints

## BARRIERS TO INNOVATION (and migration)

- **Rigid systems**
- High coupling between systems
- Long and risky projects



## FLEXIBILITY

- Not all systems need to be migrated
- You define what migrates, when it migrates, where it migrates to and if it migrates.

## A LARGE BOARD OF PIECES

- Technology imposes no limits
- Data flow is the center of decision making

## CLOUD MIGRATION “TO DOs”

- Focus cloud investments in **business domains**
- Select Technology to delivery **flexibility**.
- Change operating models to **capture cloud value**:
- Make everything a **product**
- **Secure** by design
- Scalable, repeatable patterns and composable services



**The data  
avenue**

**Steps to cloud migration**

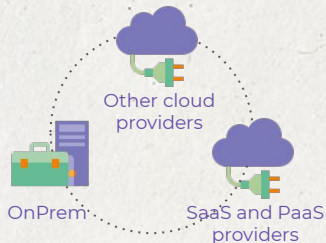
# THE DATA AVENUE: STEPS TO CLOUD MIGRATION

## COEXIST AND MIGRATE

- One way core services integrations and synchronization (legacy and new instance)
- One way other services integrations and synchronization (legacy and new instance)
- Core data migration
- Turn one way coexistence (legacy and new instance)
- Define utilization functional strategy for the new instance
- Test the new instance
- Turn two way coexistence (legacy and new instance)
- Initiate the application services migration to the new instance
- Turn legacy application integrations off

## MAPPING

- Define application to be migrated
- Map system's business functions and it's data domain
- Map systems / processes integrated to this system
- Map integration contracts and it's technologies
- Map all integration flows (sequence diagrams)



## PREPARE FOR MIGRATION

- Define core services to be synchronized with the new application instance
- Build exposure services with the Digibee platform
- Build the digital integration layer with all satellites services
- Map environment variables, access, firewall, etc.
- Mock all interfaces for testing

## INSTALLATION AND CONNECTIVITY

- Define environments (PROD, TEST) and coexistence strategy
- If possible, use the PROD environment during the test phase
- Establish connectivity and perimeter security
- Test connectivity and mock all standard system interfaces
- Install the new application instance (in cloud)
- Build the digital exposure layer with services to be integrated
- Mock all interfaces for testing

## INTEGRATION ARCHITECTURE

- Define the application migration model ("as is" or "modernization")
- Define connectivity, access control and exposure model
- Define integration model (Synchronous; Asynchronous; Persistence)
- Define integration triggers (API; Events; File; Data Extraction)
- Define the optimization, scalability and productivity digital layer - reusability; core services; data exchange model (online; near real time; batch; events)



# 6 STEPS METHODOLOGY<sup>®</sup>

SAP ERP migration to cloud

1



Expose legacy  
ERP services

2



Setup S/4HANA  
with mocked  
APIs

3



Synchronize  
ECC datasets  
with S/4HANA

4



Replicate  
third-party  
integrations

5

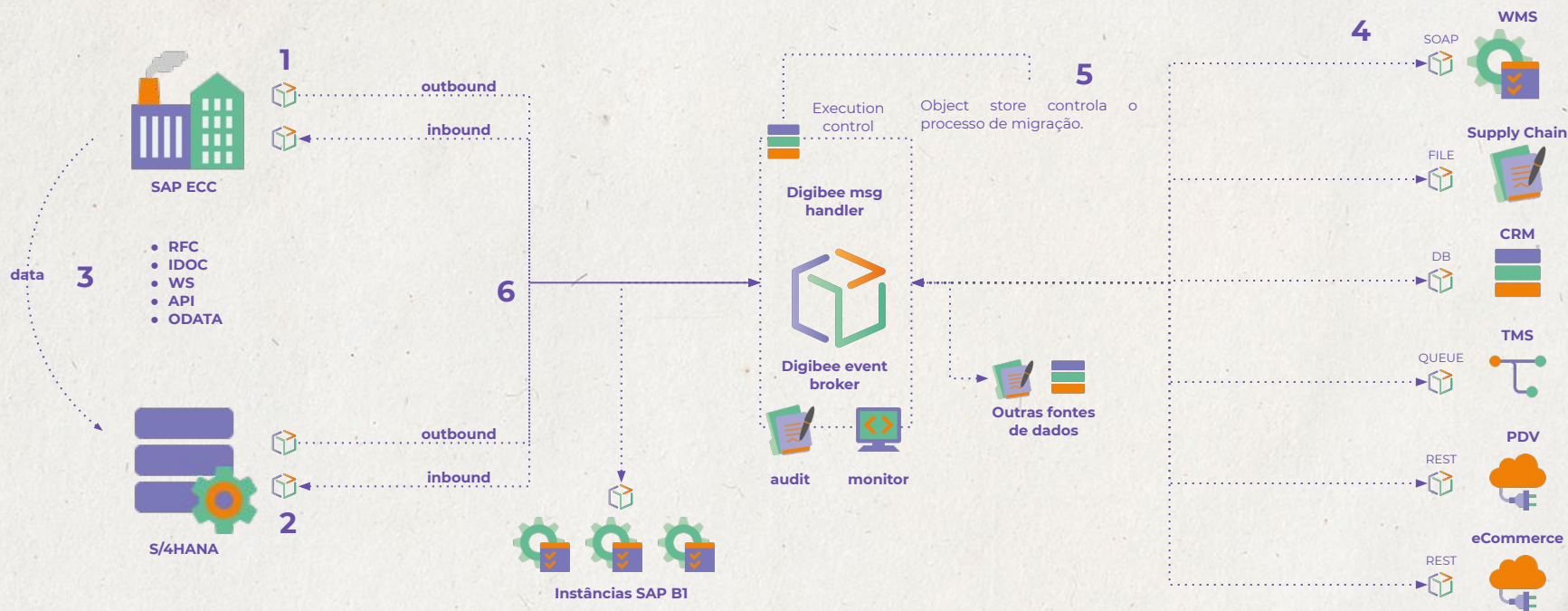


Synchronize the  
complete  
workload

6



Parallel  
execution



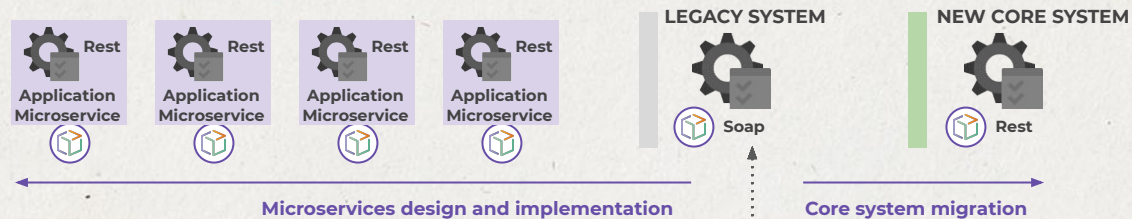


# The data avenue

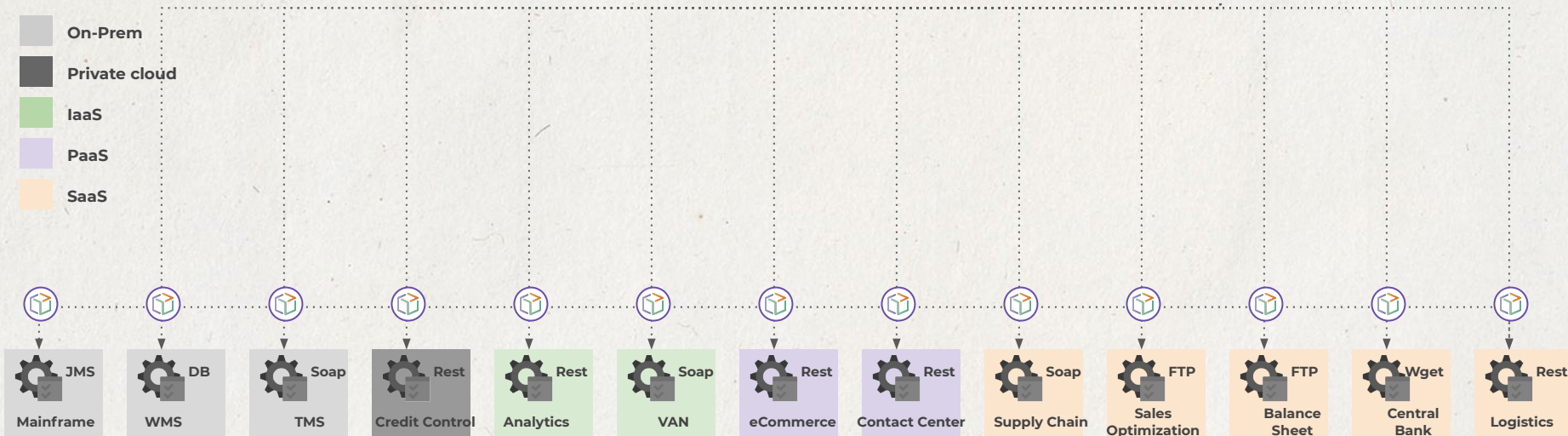
Modern integration  
architecture: how Digibee  
delivers flexibility for cloud  
migration strategies

# THE DATA AVENUE

Based on a modern integration architecture



- Implement integration microservices (micro integrations) as the base for this data avenue
- Gain flexibility to move all pieces as your business demands
- Ensure security for all endpoints



# THE DATA AVENUE

Components to support the data avenue



**Native security (not optional) for all endpoints**

Core connectors and protocols ☐

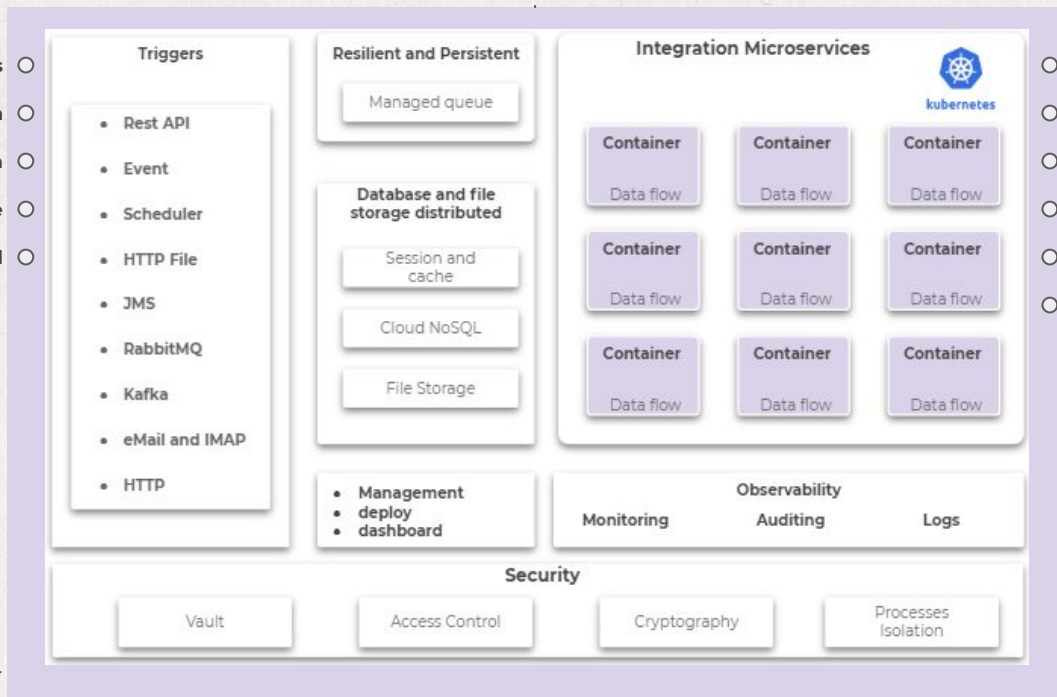
Component extensibility for the ecosystem ☐

Governance and collaboration ☐

Cloud native ☐

Fully managed, monitored and secured ☐

- On-Prem
- Private cloud
- IaaS
- PaaS
- SaaS



- ☐ Data transformation and manipulation
- ☐ Orchestration and Choreography
- ☐ Event based
- ☐ API Based
- ☐ Process isolation
- ☐ Streaming support





**Digibee unique  
model**

# DIGIBEE UNIQUE MODEL

## DIGIBEE

## OTHER SOLUTIONS



### Security

#### Security embedded in the platform design.

Security responsibility rests with the platform; it's not on the application side

Native (non optional) endpoints embedded security

Process isolation in containers

Realms isolated by network policies

Encryption

Sensitive fields

Vault

Composition of all available components, in a secure manner, depends entirely on the customer (or through additional contracting of managed services). Extra infrastructure layers and configurations must be added to ensure the security of the services created (firewalls, certificates, segregation of services by communication networks, etc.)



### Architecture

#### All components delivered through a unique product.

100% cloud native

Microservices and Kubernetes

No single point of failure

API gateway, session cache, message queue, event broker, Cloud NoSQL. All in one

Hybrid environments (on-prem, cloud, multi-cloud)

Embedded monitoring

It is necessary to manage, configure and support each of the pieces of integration architecture to deliver an end-to-end solution. This work must be carried out for each environment (development, test and production). Sizing, capacity and the relationship between components form a separate project, to ensure the setup of the complete solution. This requires a team specialized (long learning curve) or dependence on contracting third party services (additional contract).



### User experience

#### Competition by design. Productivity with abstracted technology

True low code graphical interface with pre-built connectors

Capsules for reuse

No need for senior professionals. Easy to learn

No setup needed; ready to use

Requires lot of coding, impacting speed and maintainability. Requires experienced professionals who know programming languages, in addition to the technologies involved in the integration itself. Long learning curve and high cost to train specialized professionals.



### Business Model

#### All services included in Digibee subscription

SaaS offer with ZERO initial investment

Only ONE product; easy to subscribe

Platform operation

All connectors available and new connectors development

24 x 7 monitoring

Platform evolution; improvements; new features

Integrations development

Integrations management and support

Error handling and execution control automation

observability

Integrations Architecture design

Training for life and always up to date

Pricing model per run time unit capacity. There is no charge per transactions

Installation of all components on-prem or in the customer's cloud subscription. Need for additional monitoring, analysis and security modules. Additional hiring of professional services to create or maintain your integrations (difficult learning curve).

Some vendors have just started including SaaS as an offer, but it's new for them and we need to watch its evolution. Traditional method based on hours of professional services including fees for setup, monitoring and 24x7 support, plus additional hourly charges from integration analysts. Additional charges for maintenance or adjustments to integrations already developed. Support by traditional ticket opening system. Global support team. There is no direct contact with experts. Support hours are contracted separately from the product subscription contract, and are limited. If you need more hours than you hired, you need to pay more.