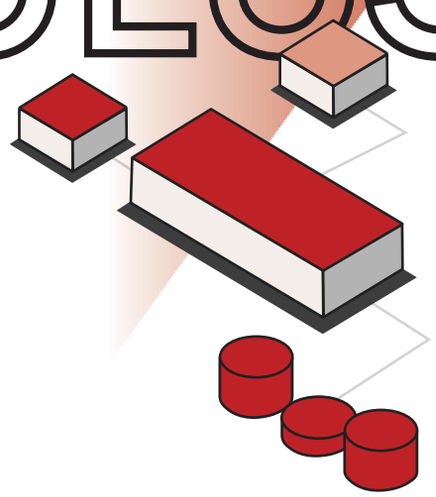
SYSTEM POPULUS



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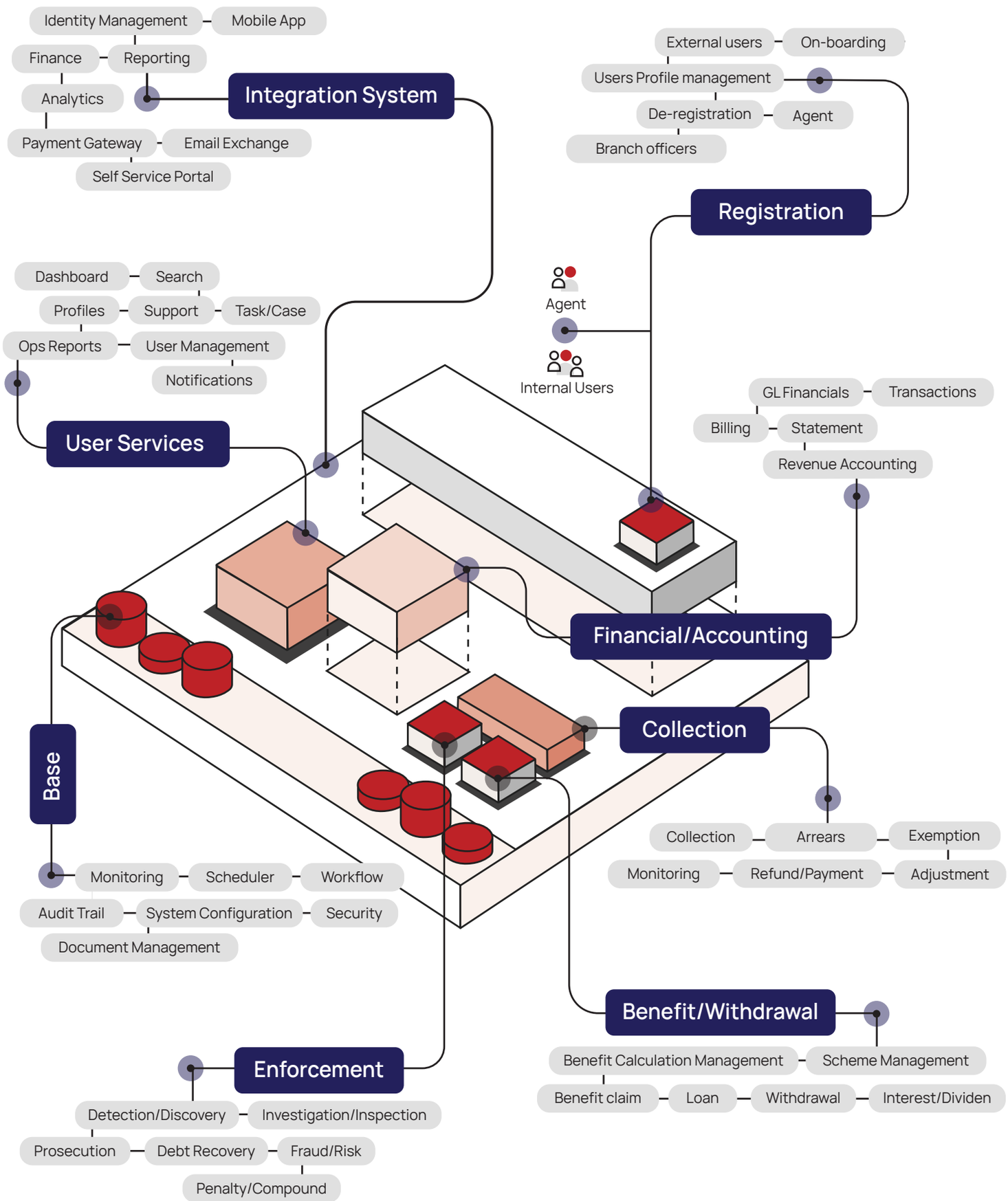
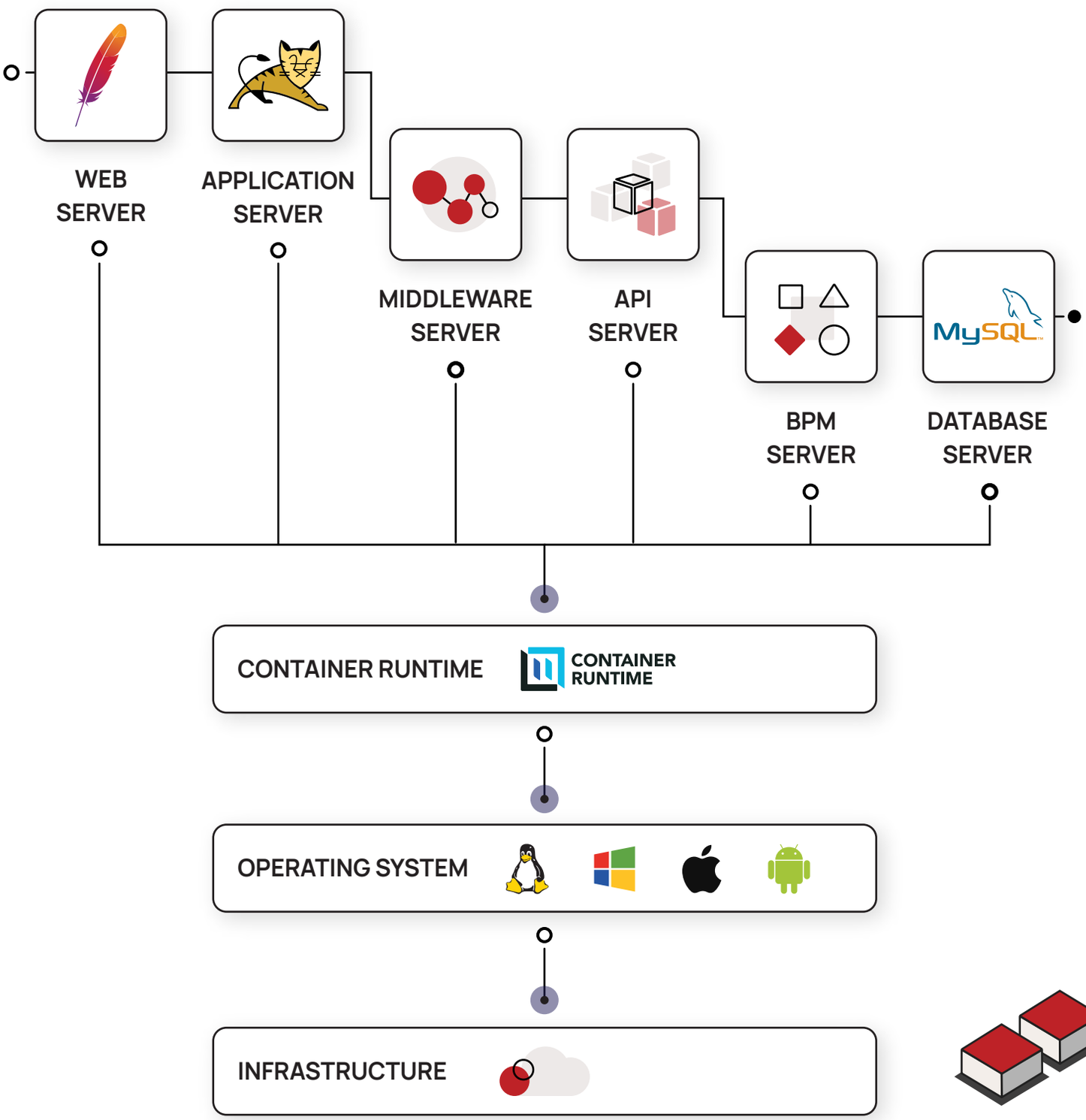
Populus
Modules

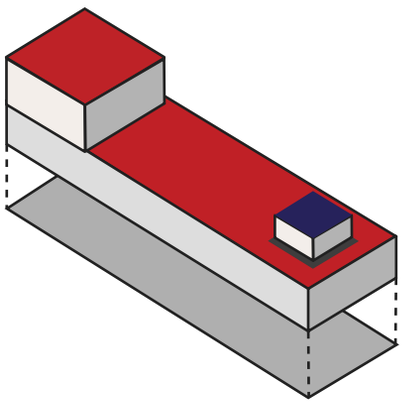


System Architecture

Our solution is a Web Architecture Framework (WAF) Off the Shelf application that is developed based on containerization architecture.

It is configured based on collection of containers with segregation by functions and operated by the following technology stacks:





Application Architecture

There are 2 types of model architecture provided :

Type 1

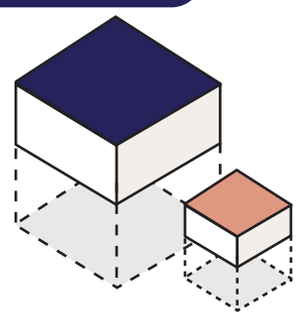
Liferay service builder

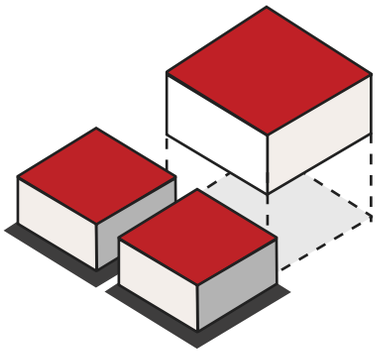
- Service Builder is a model-driven code generation tool built by Liferay that allows developers to define custom object models.
- Can be configured to use separated database.
- Platform dependency, unique to Liferay and run within Liferay.

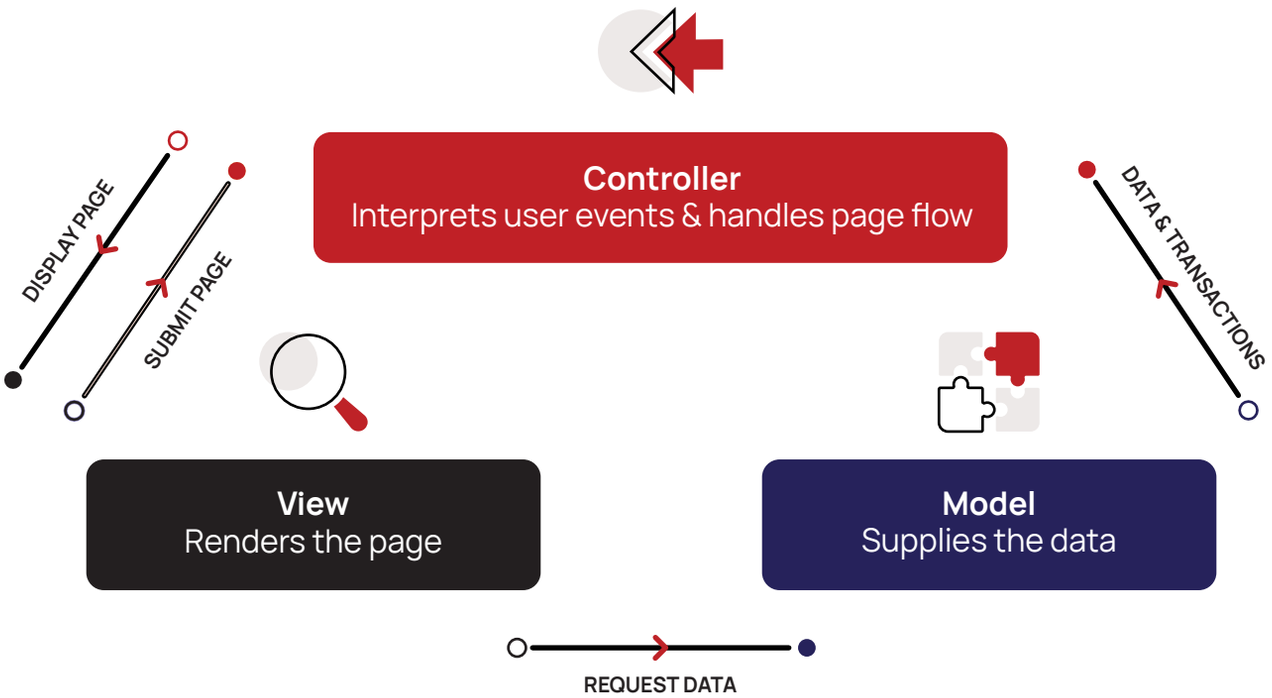
Type 2

REST API

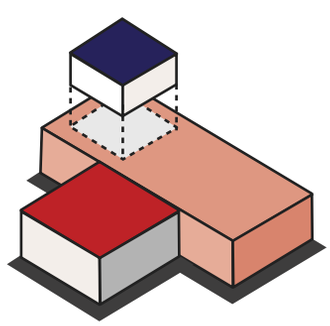
- Utilizing Apache Kafka Integration services to compose microservices and provides the REST API endpoints.
- Implements token-based authentication.
- Developed as Spring Boot microservices-based applications run on containers.

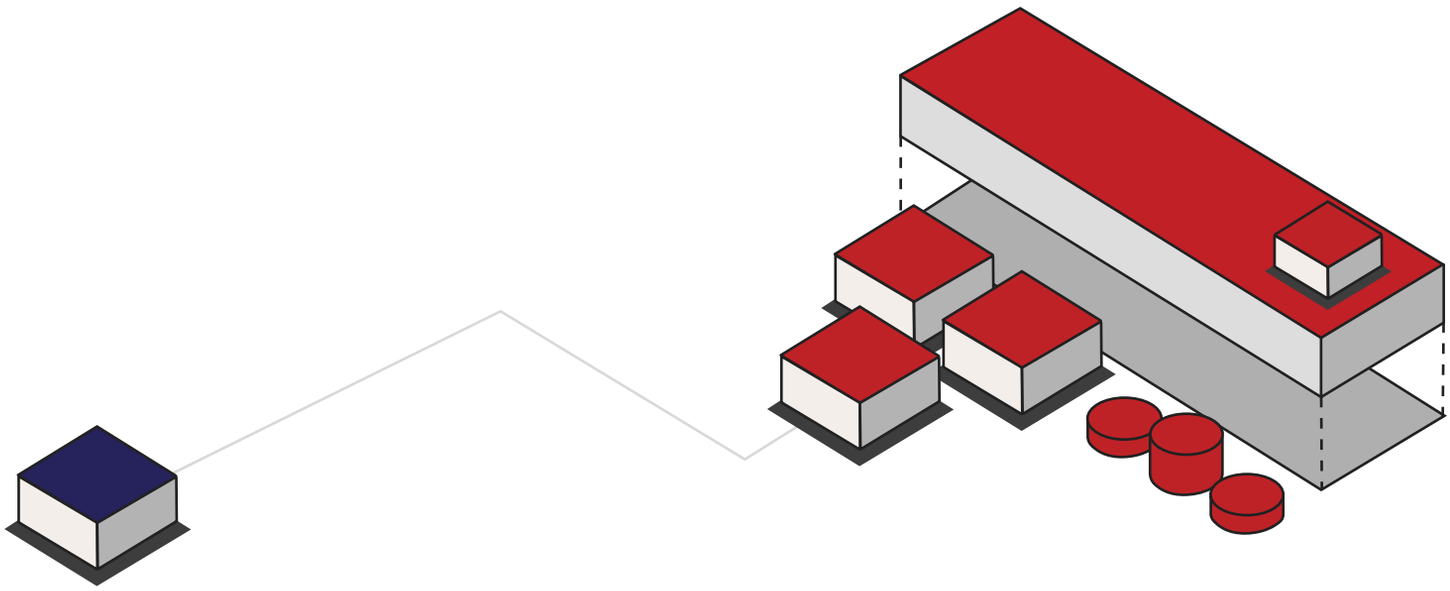






MVC Pattern	Technology
Model	• Liferay Service Builder • REST API
View	• JSP • Jquery • Angular
Controller	• Liferay Framework





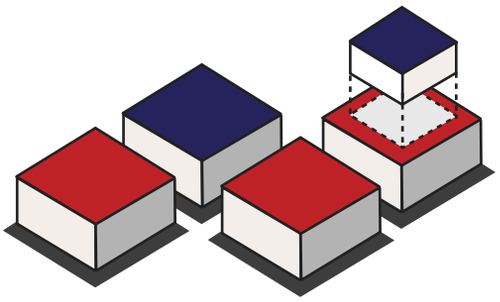
Microservices Architecture

Microservices Architecture

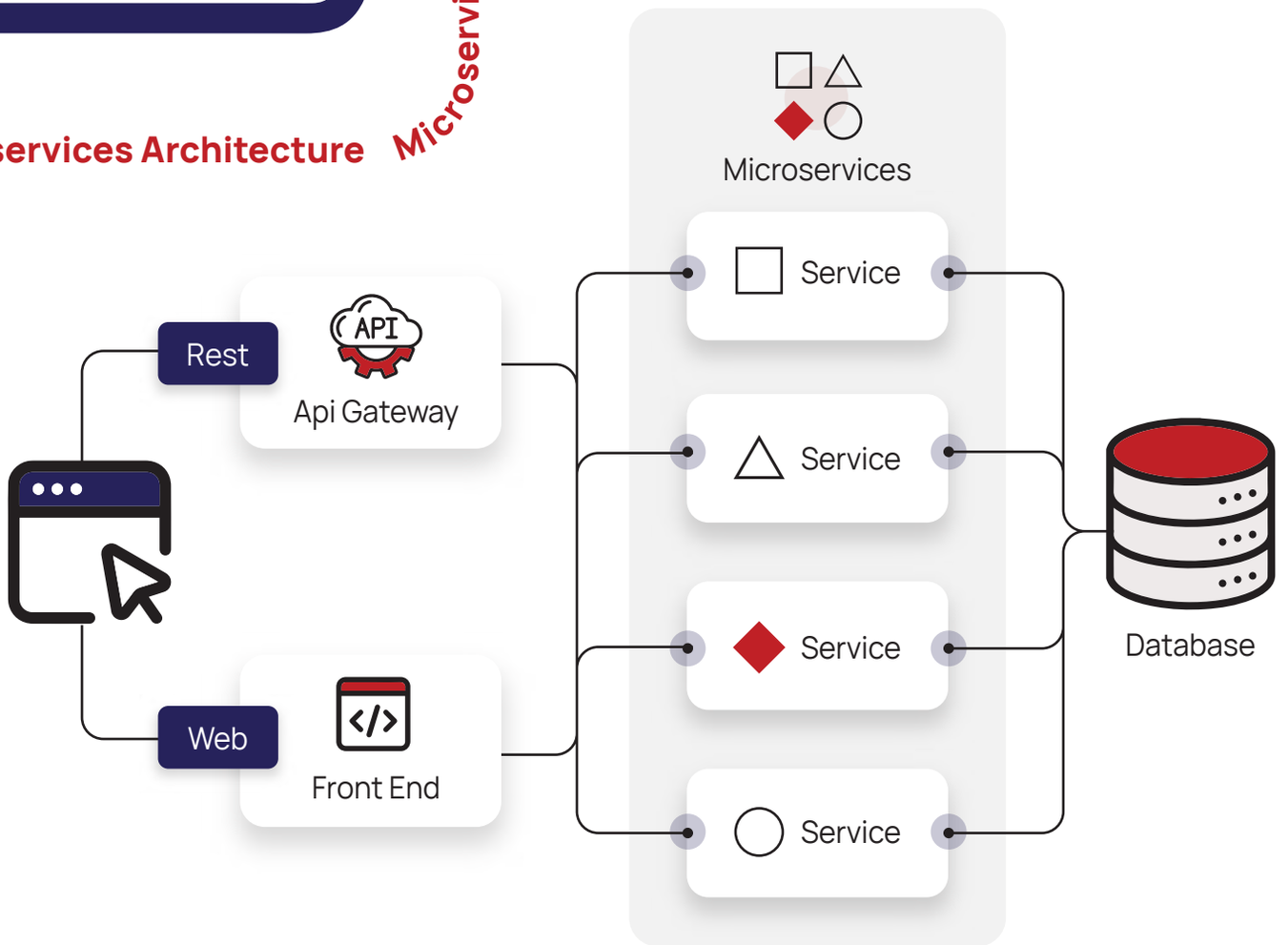
Microservices Architecture is an architectural style that structures an application as a collection of services that are

- Highly maintainable and testable
- Loosely coupled
- Independently deployable
- Owned by a small team
- Isolate failures
- Organized around business capabilities
- Scalability will be independent to each microservices

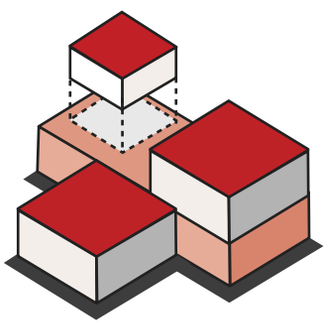
The microservice architecture enables the rapid, frequent and reliable delivery of large, complex applications. It also enables an organization to evolve its technology stack.

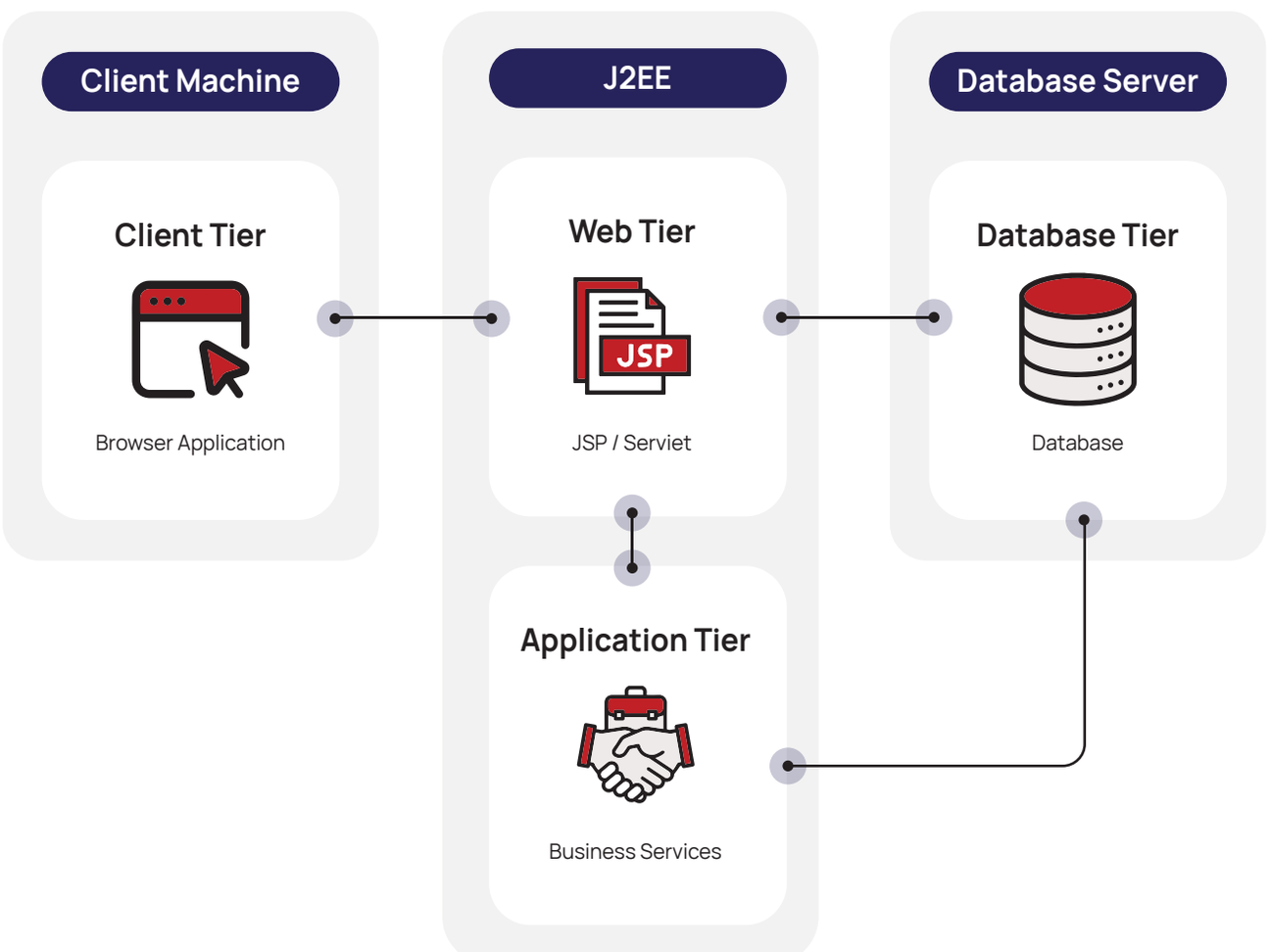


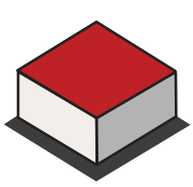
Microservices Architecture Microservices Architecture Microservices Architecture Microservices Architecture Microservices Architecture Microservices Architecture Microservices Architecture Microservices Architecture



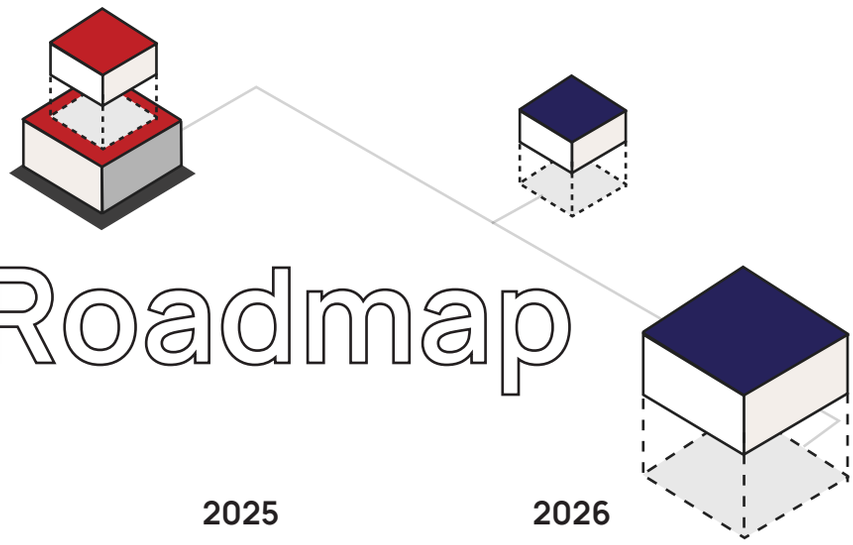
Overview of Software Architecture



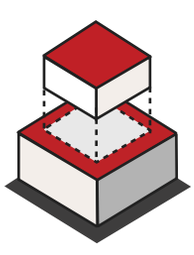




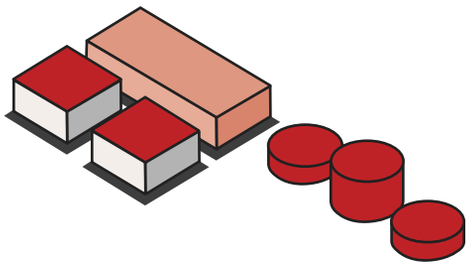
Future Product Roadmap

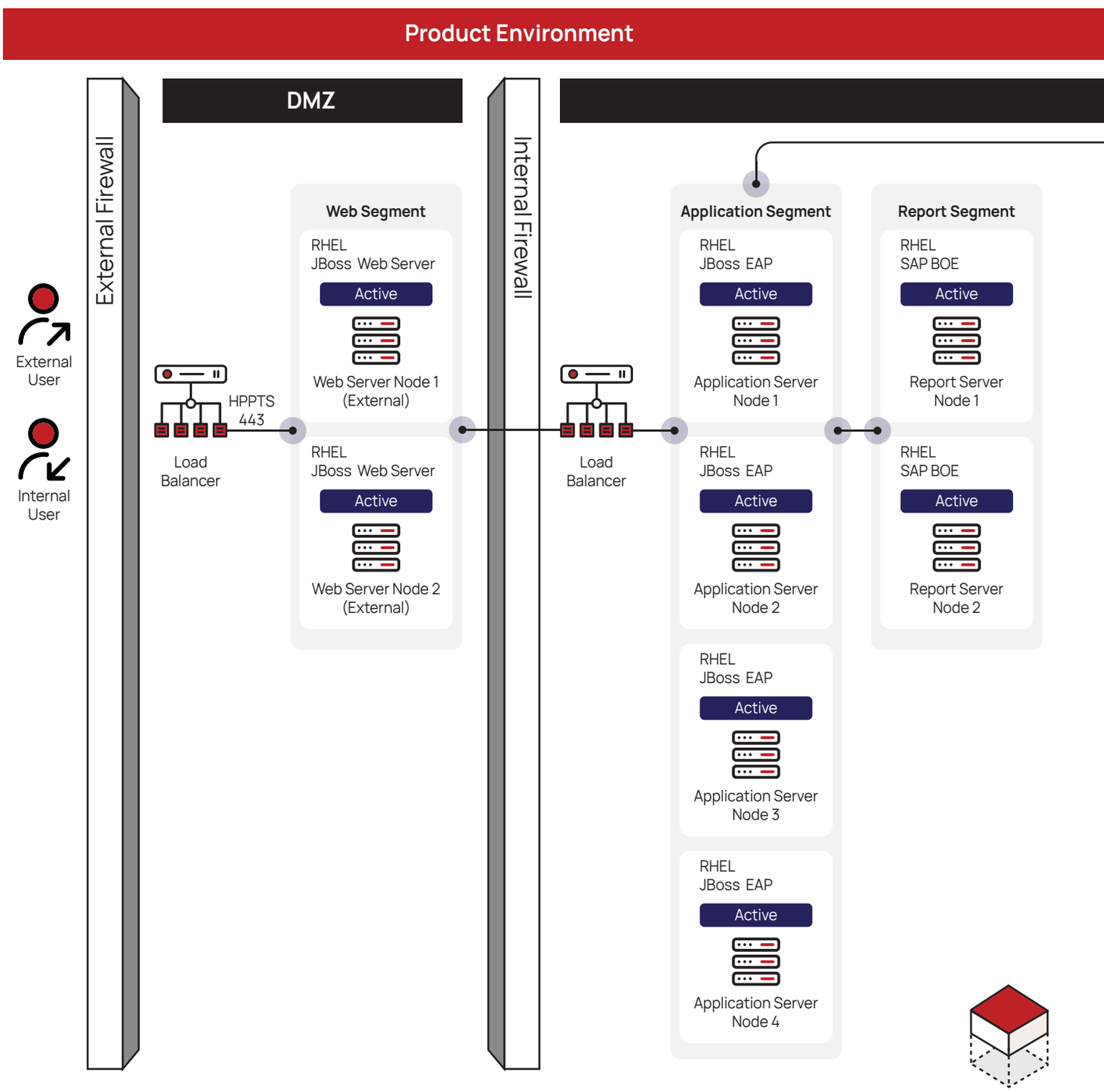


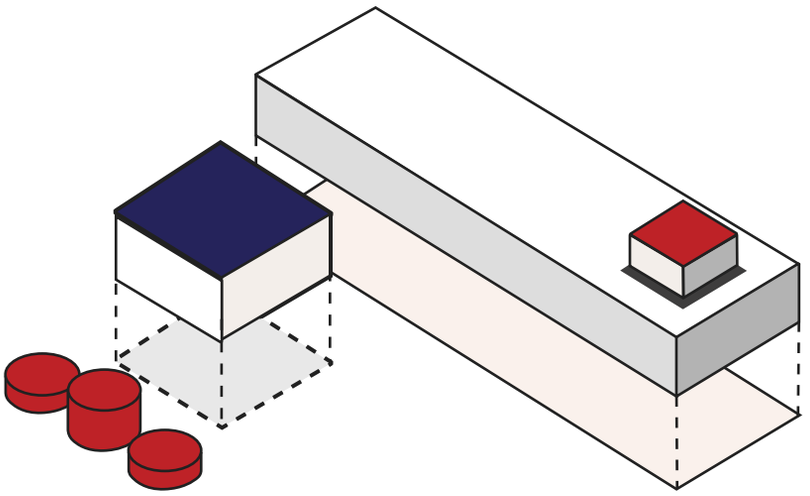
Module	2024	2025	2026
Support of new Container Platform	Support VMWare Tanzu Container Platform.		Support AWS and Azure Container Platform.
Big Data Integration	Allow direct access and replication of historical data for big data analysis.		
eKYC		For real-time online identity verification to ensure fast and easy new customers onboarding process.	
AI / ML Integration		AI / ML based Optical character recognition to digitise form base document into NCS.	
Low Code Workflow Engine			Major upgrade on the workflow module with low code capability which user can easily manage the required workflows.



Sample of **On-prem Production Environment**

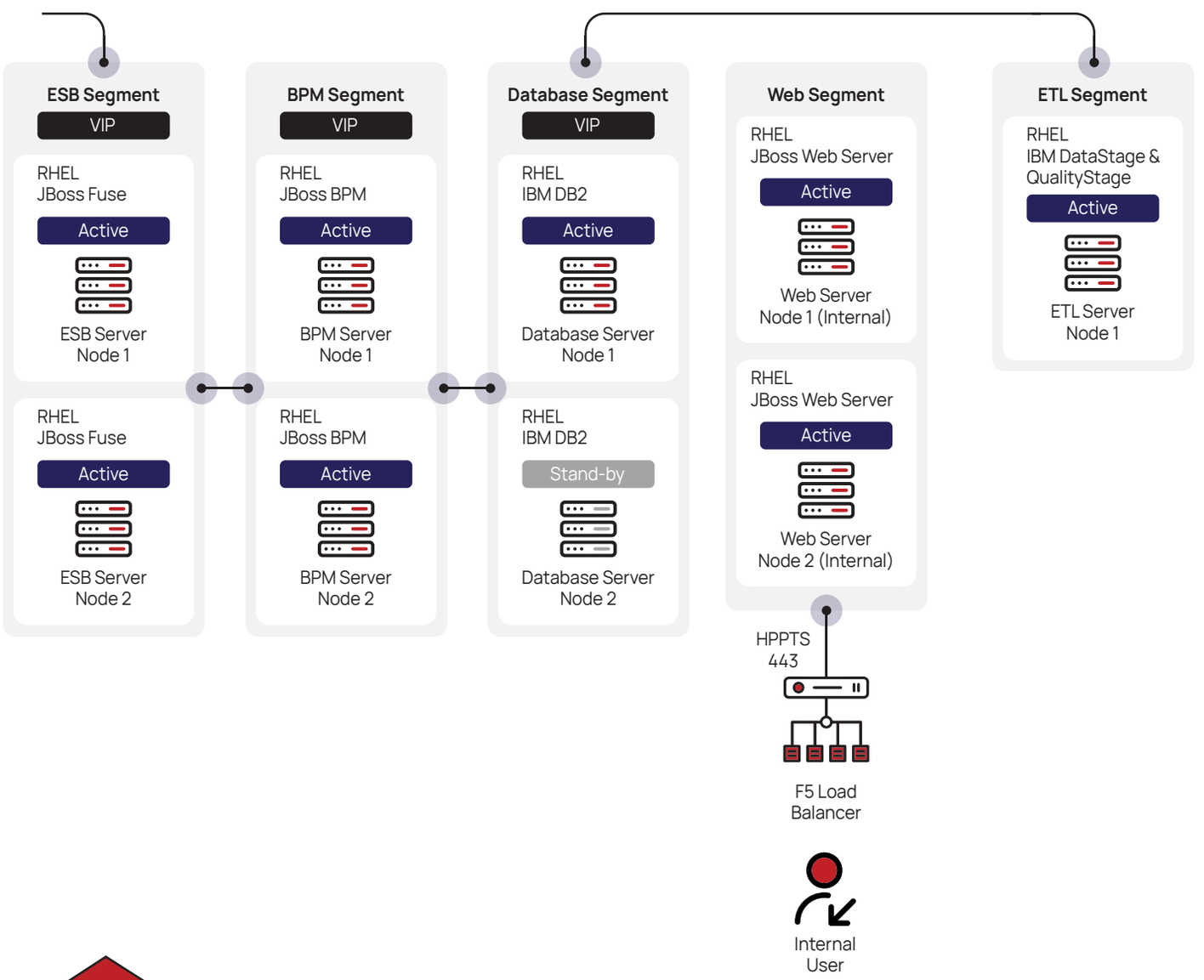


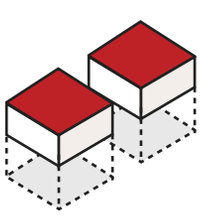




Product Environment

Internal Network





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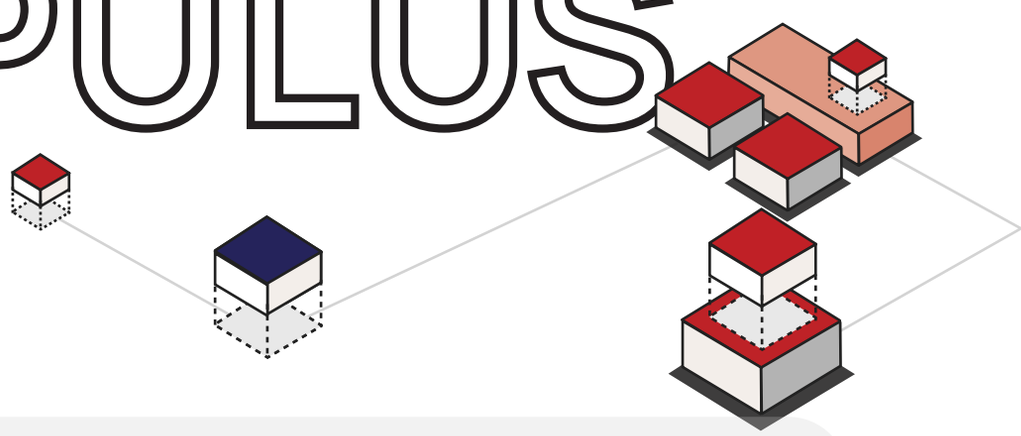

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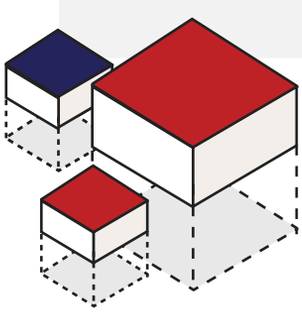

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