



NonStop
Innovation

FUTURE-PROOFING NONSTOP
MODERNIZATION THROUGH INTEGRATION

Phil Ly



NonStop
Innovation



WHERE WERE YOU IN 2019?











NonStop
Innovation



FUTURE-PROOFING NONSTOP

MODERNIZATION THROUGH INTEGRATION

Continued to help customers modernize NonStop



Completed more modernization Use Cases

Identified new solution and software tools



Modernization through Integration



Modernization through Integration

A Cost-Effective Approach

- Simplify architecture
 - Integrate services, microservices, data and system
- Add more functions via connectivity
 - Open-source solutions
 - Cloud services
- Leverage API and API-led connectivity
 - Connect with internal and partner applications (Mobile. Cloud. Big Data.)



Modernization through Integration



API Integration



API Integration facilitates Modernization

API-led connectivity is a methodical way to connect apps to data

Use API-led connectivity to add functionality while hiding the complexity

APIs eliminate any tight coupling between applications and systems



NuWave



Server-side middleware (NonStop as server)

Expose NonStop applications as REST services

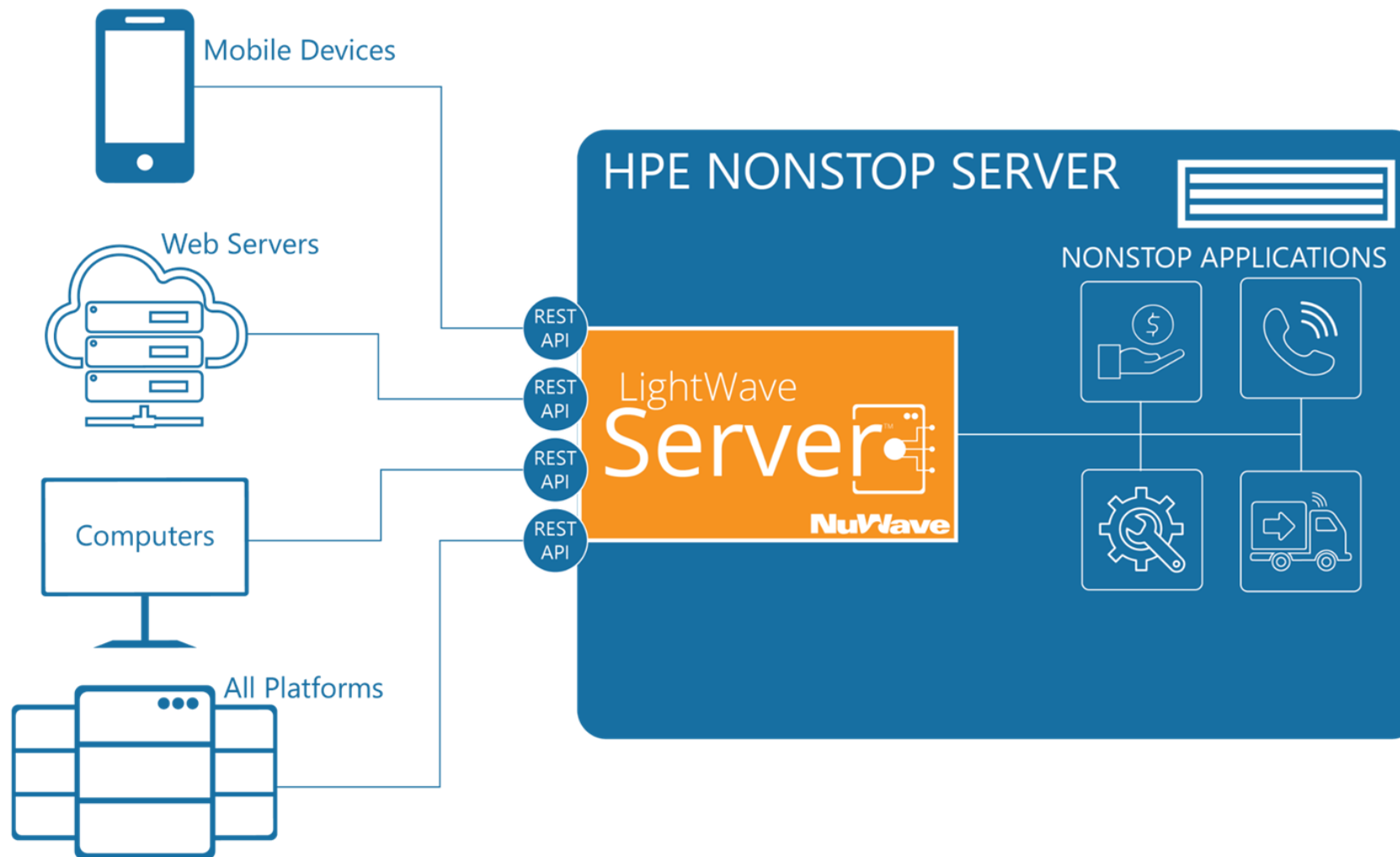


Client-side middleware (NonStop as client)

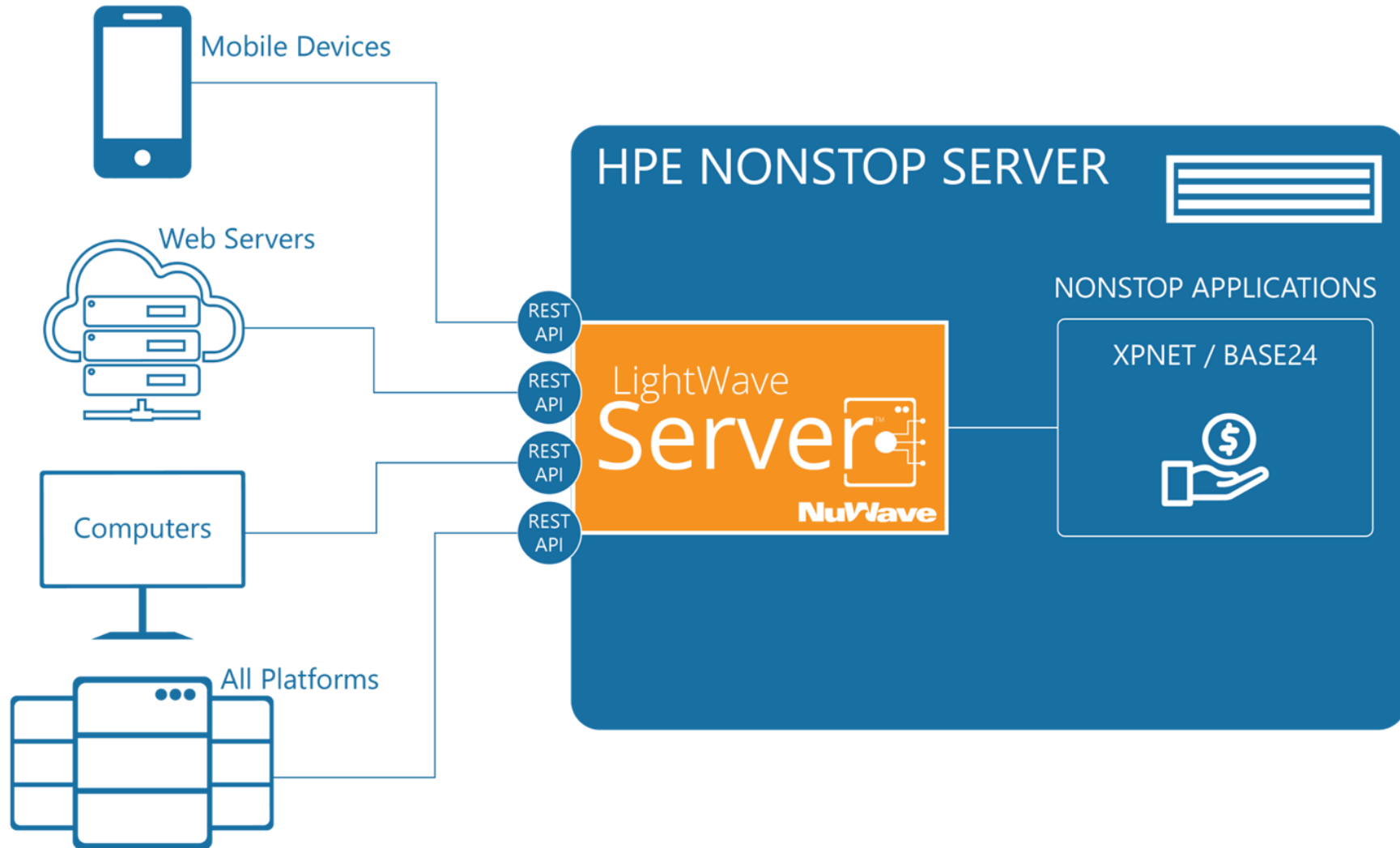
Access REST services from NonStop

Run entirely on Guardian

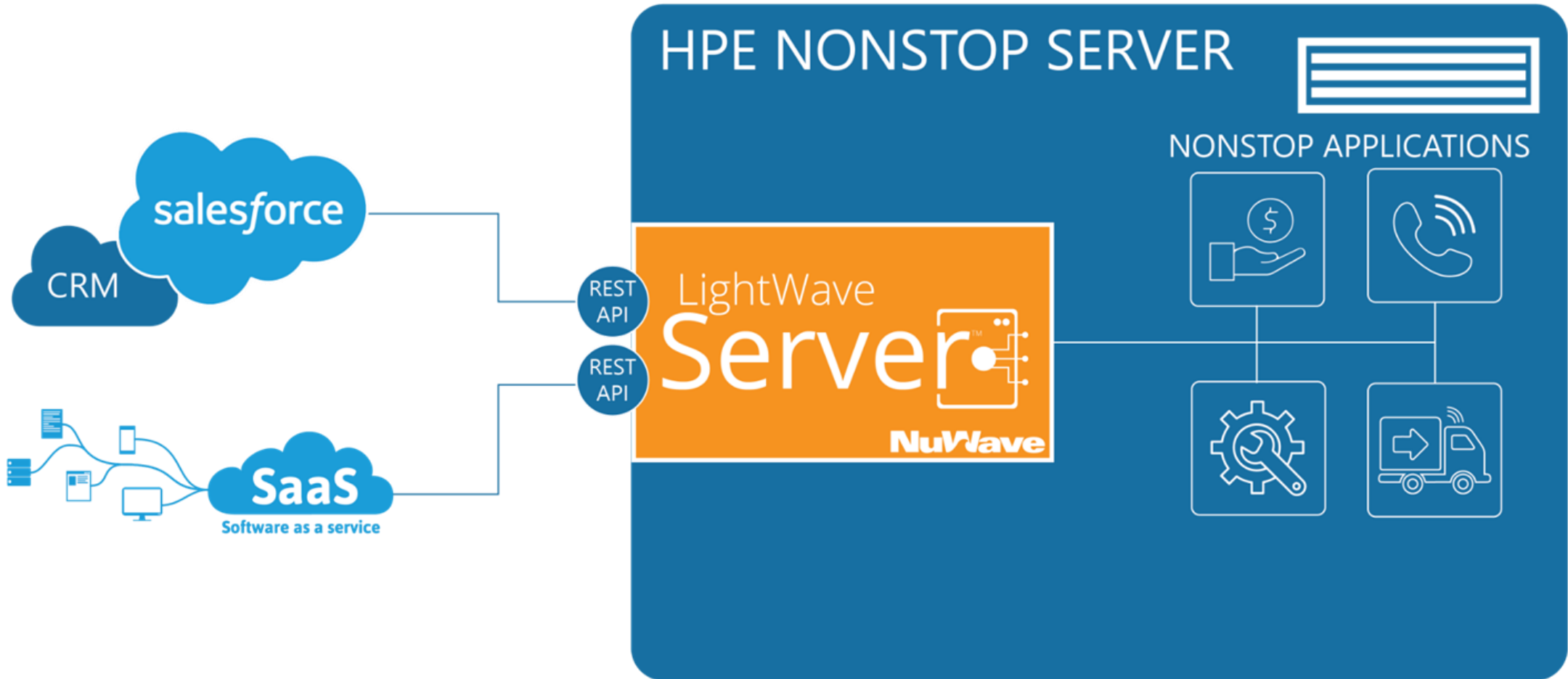
LIGHTWAVE SERVER™



INTEGRATE LIGHTWAVE SERVER™ WITH BASE24



CONNECT TO CRM OR SAAS

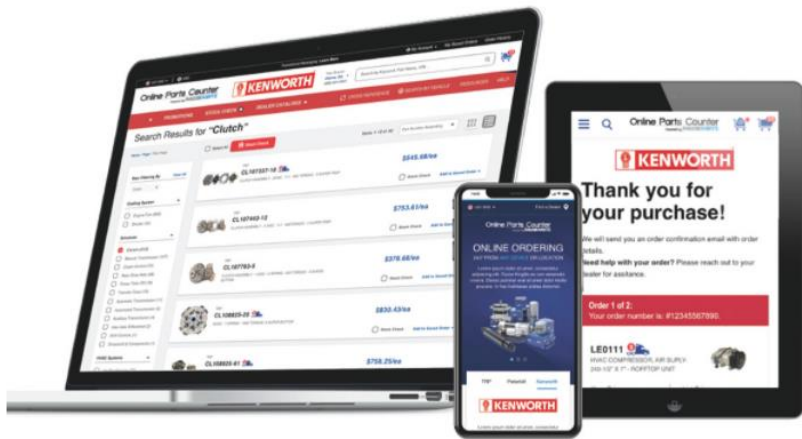


Modernize UI via RESTful API Integration

Customer Use Case

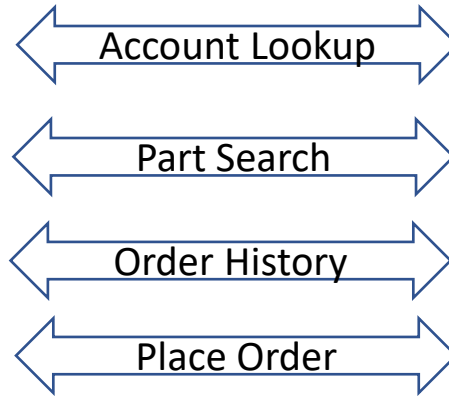


DESIGNED FOR
YOUR BUSINESS. AND YOUR
BOTTOM LINE.



Next Generation of PACCAR Parts eCommerce program, Online Parts Counter (OPC)

RESTful API



LightWave
Server



Third Party Partner Portal

Sales and Inventory System

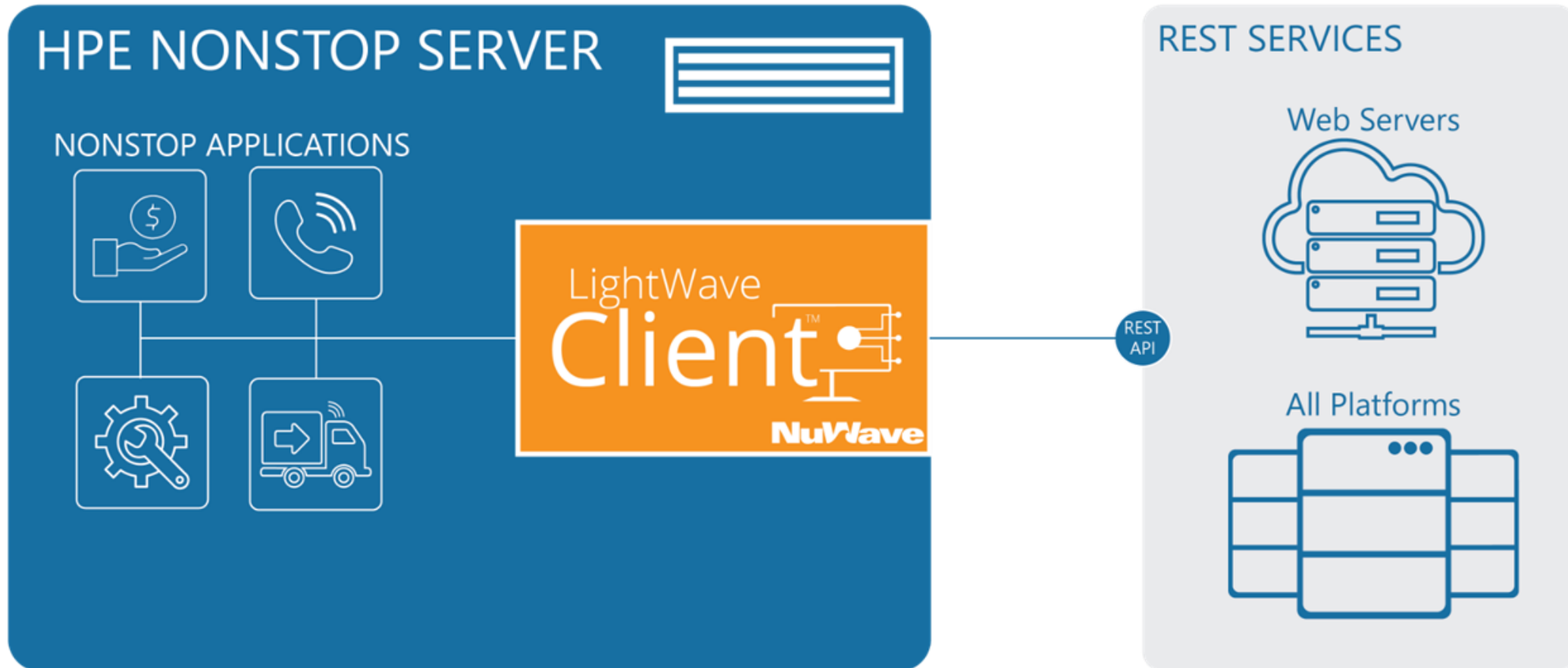
NuWave



Securely access REST services from your HPE Nonstop

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FOR HPE PARTNERS AND HPE CUSTOMERS ONLY

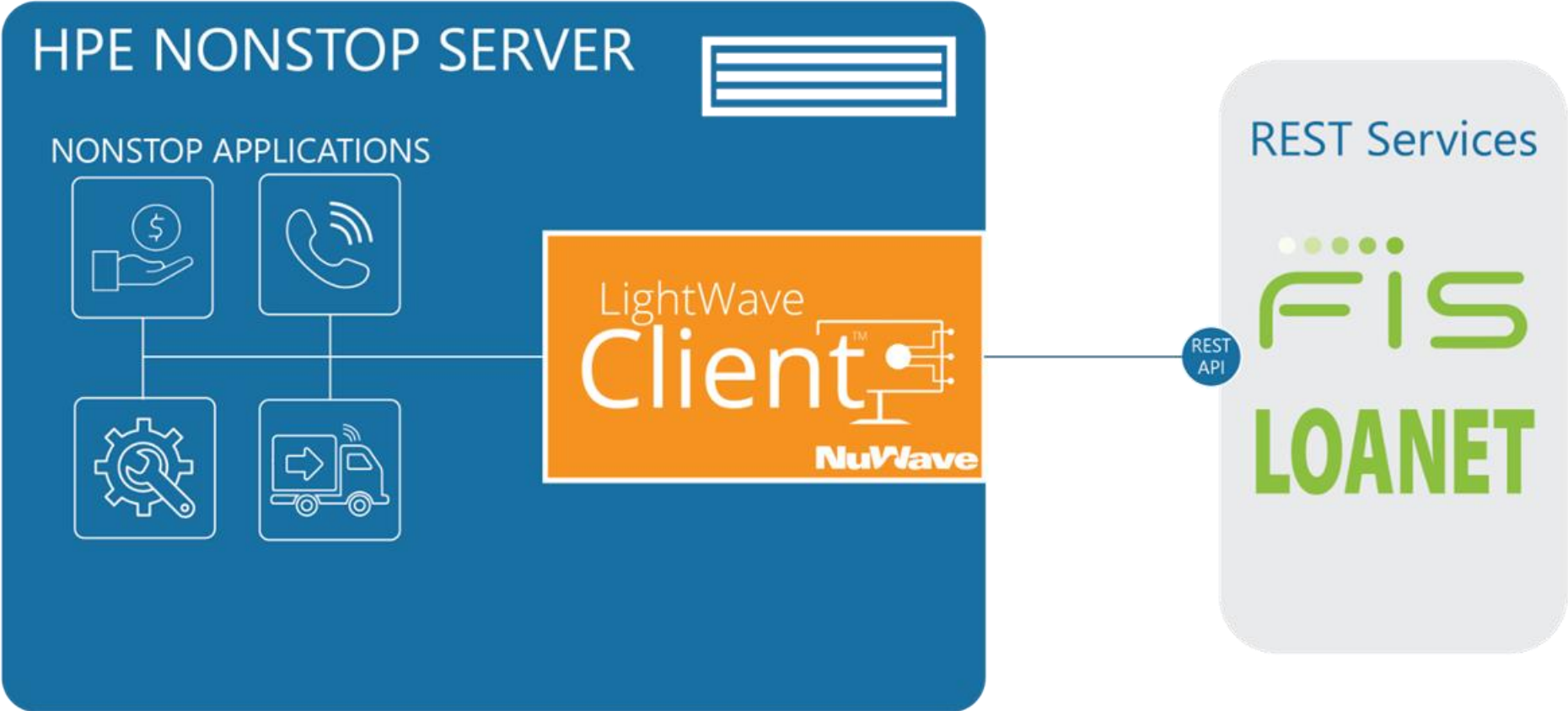
LIGHTWAVE CLIENT™



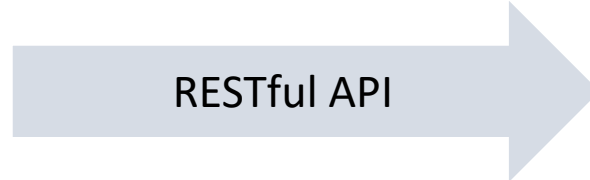
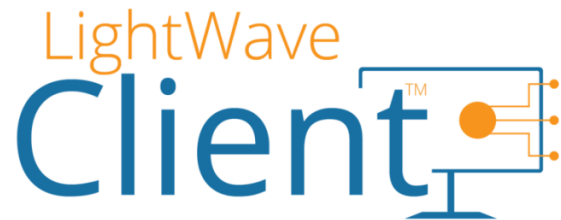
LIGHTWAVE CLIENT™ CONNECTS NONSTOP TO FINANCIAL SERVICES



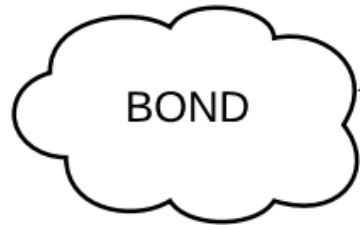
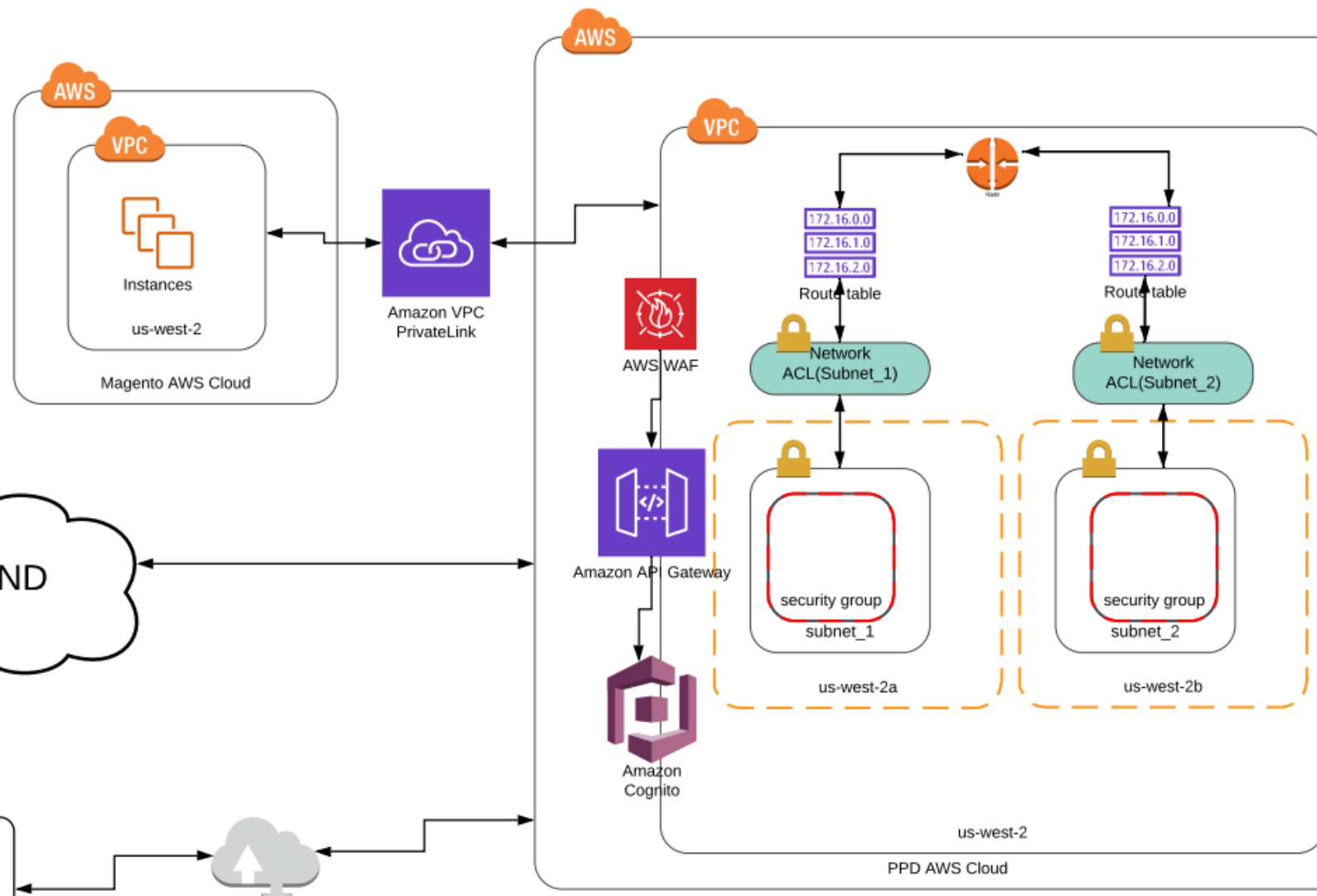
FINANCIAL CLIENT INTERFACES TO FIS USING LIGHTWAVE CLIENT WITH OAUTH2



Modernize IT Management via Integration ^{TIC}



Generate events to update IT Management Workflows and Monitoring systems



LightWave
Client



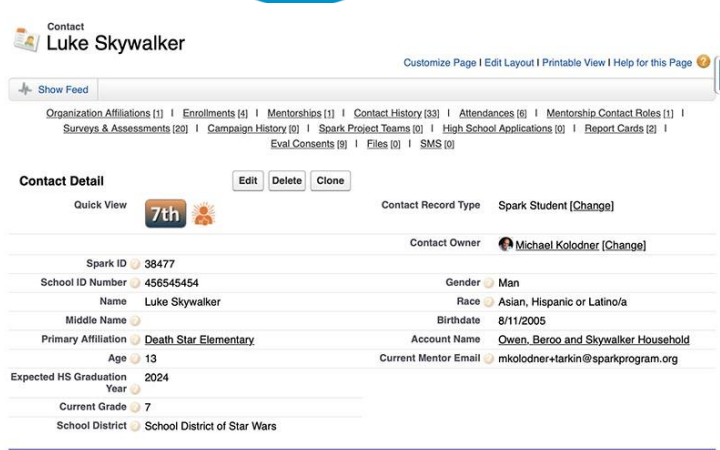
Dealer Business Systems

Internet

us-west-2
PPD AWS Cloud

Modernize UI via RESTful API Integration

Customer Use Case



RESTful API

Sync Account and Inventory

LightWave
Client



Sales and Inventory System

Data Integration





Modernize with JSON

JSON is the preferred data format for all web and application interfaces

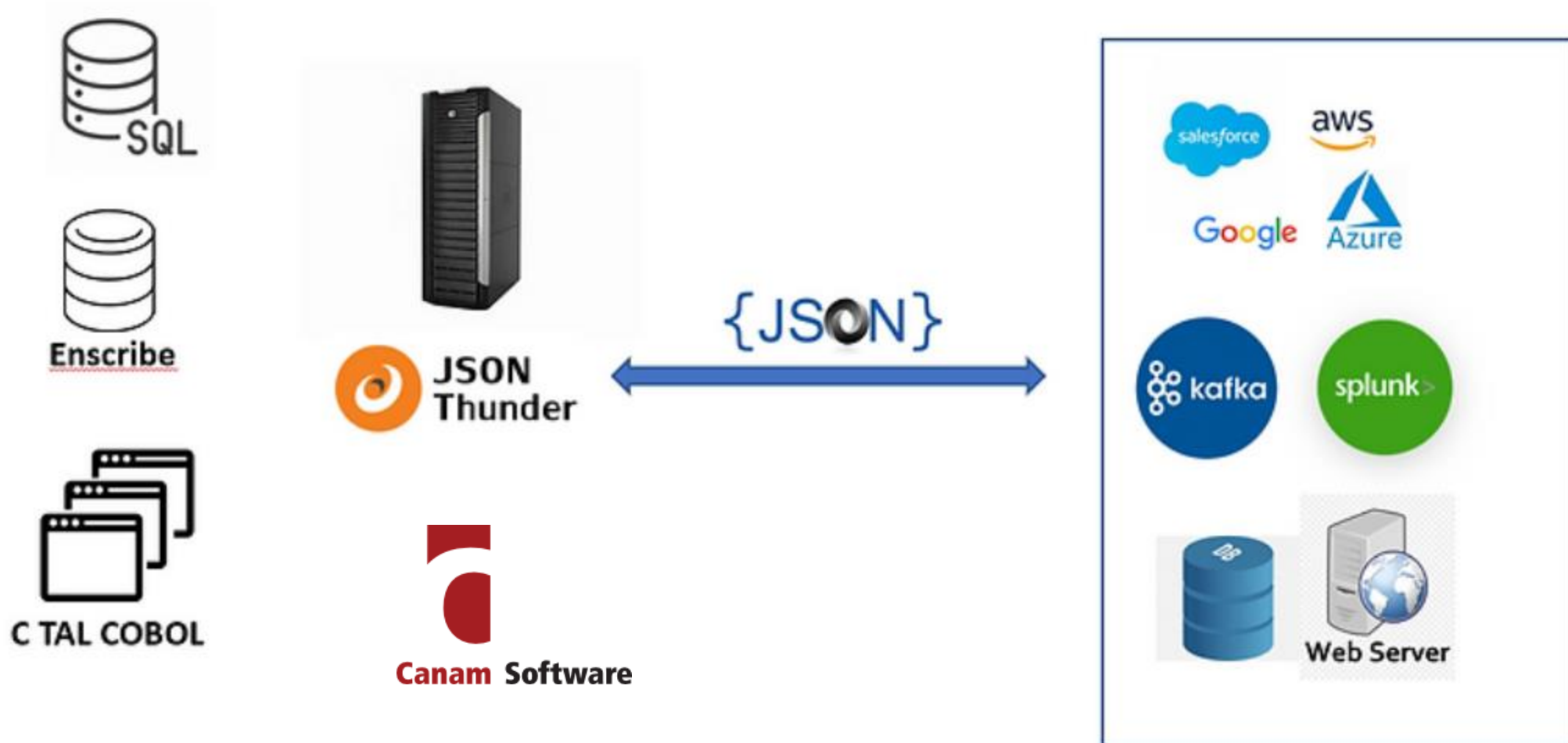
Available natively or through libraries for all major programming languages

Supported natively by many popular databases: SQL Server, Oracle, MYSQL, etc.

Embraced by Cloud services like AWS and Azure



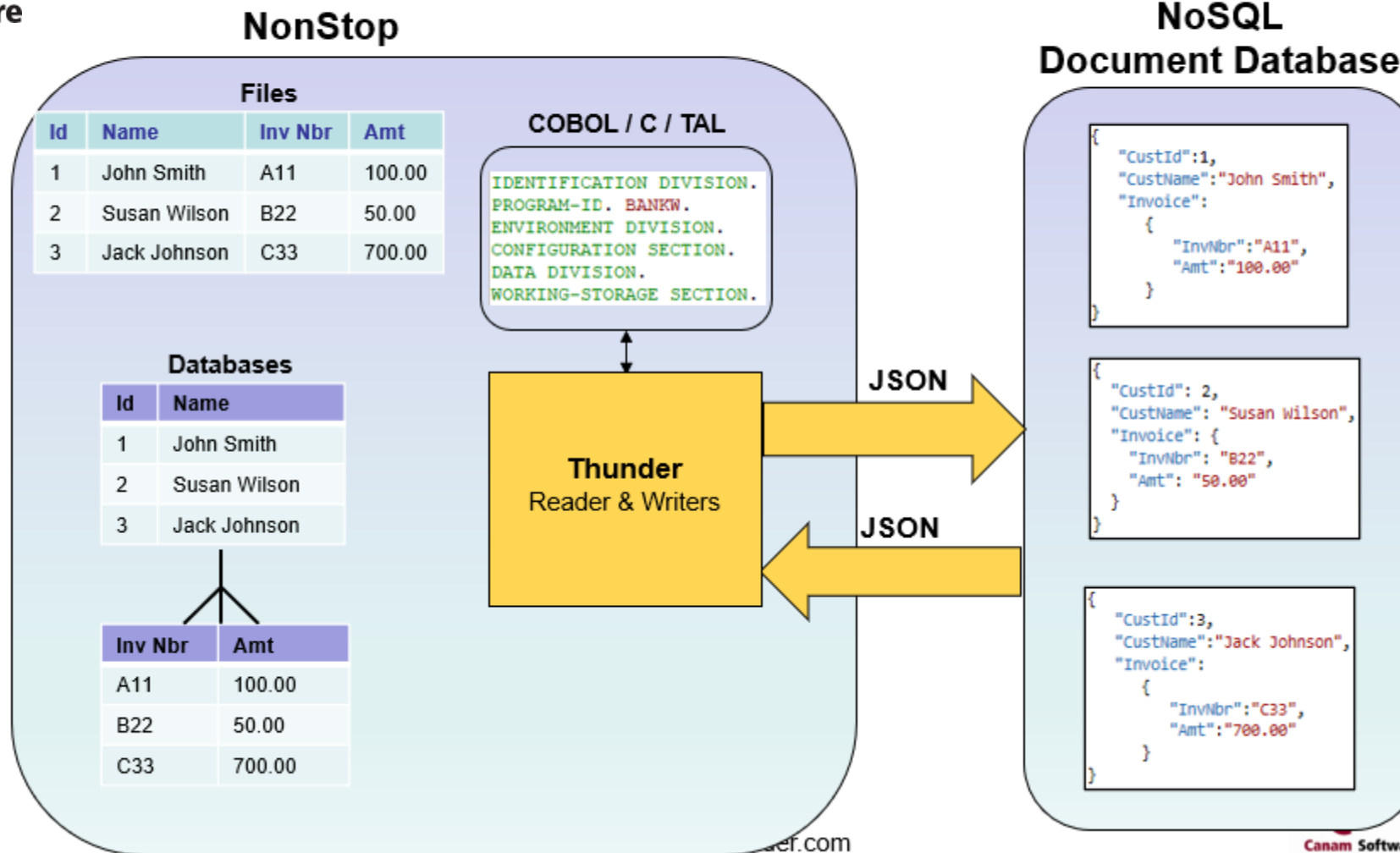
JSON Thunder on NonStop



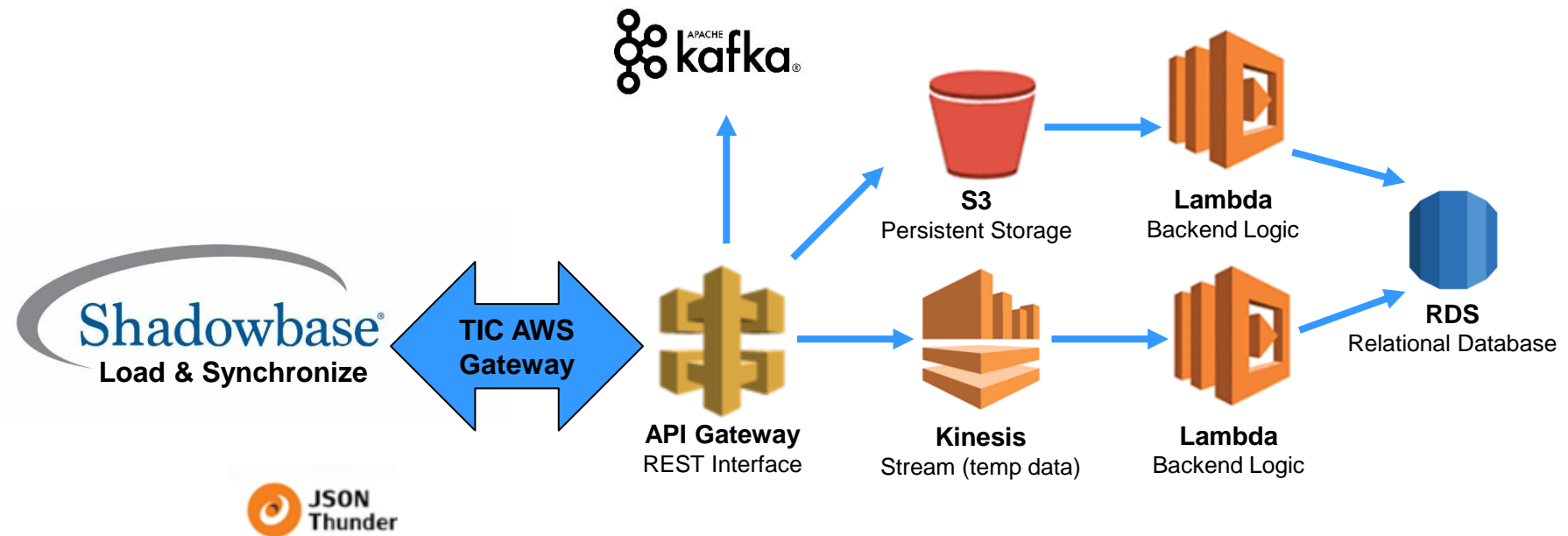
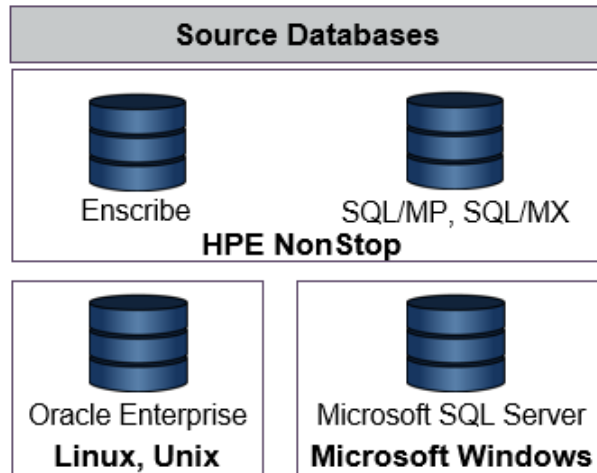


Canam Software

NonStop to NoSQL



TIC AWS Gateway (TAG)



Integration with Enterprise Tools



What is Splunk?

Splunk creates analytical reports with interactive charts, graphs, and tables

Splunk is scalable and easy to implement

Splunk can automatically find useful information enclosed in your data

Splunk helps in saving your searches and tags so that it can make your system smarter



Modernize Dashboard via Integration



TIC LogWatch

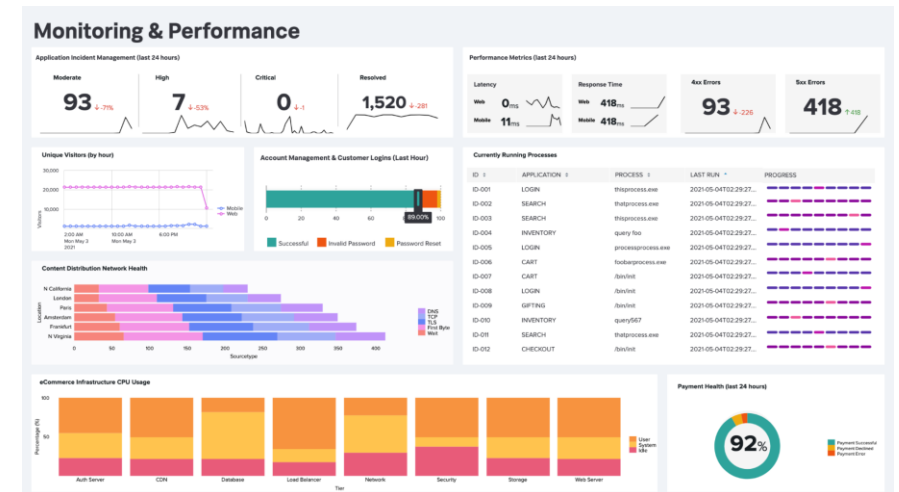
ITP Web Logs

LightWave Stats

NonStop Events

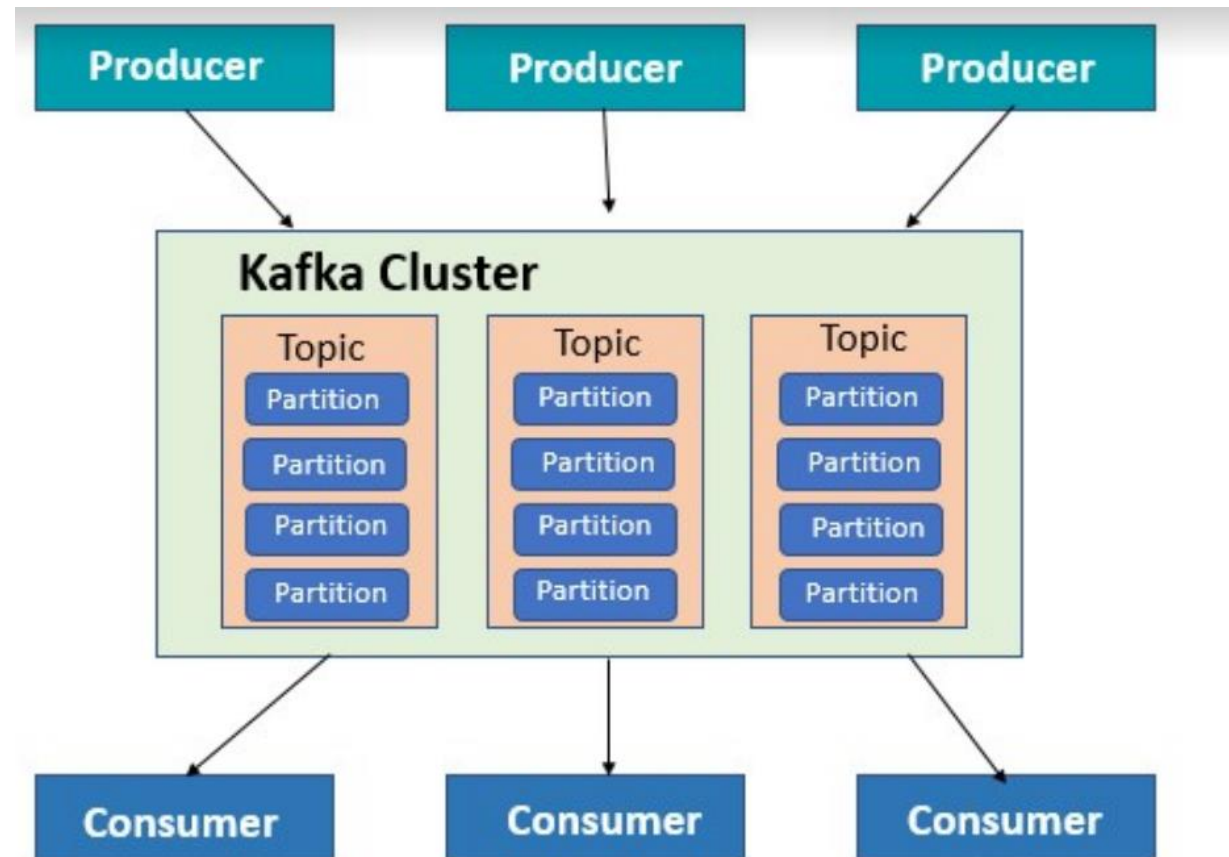


TIC
ipForwarder



What is Kafka?

- Publish-subscribe system
- Guaranteed In-order
- Persistent
- Scalable
- Fault Tolerant
- High Performance



Why use Kafka?

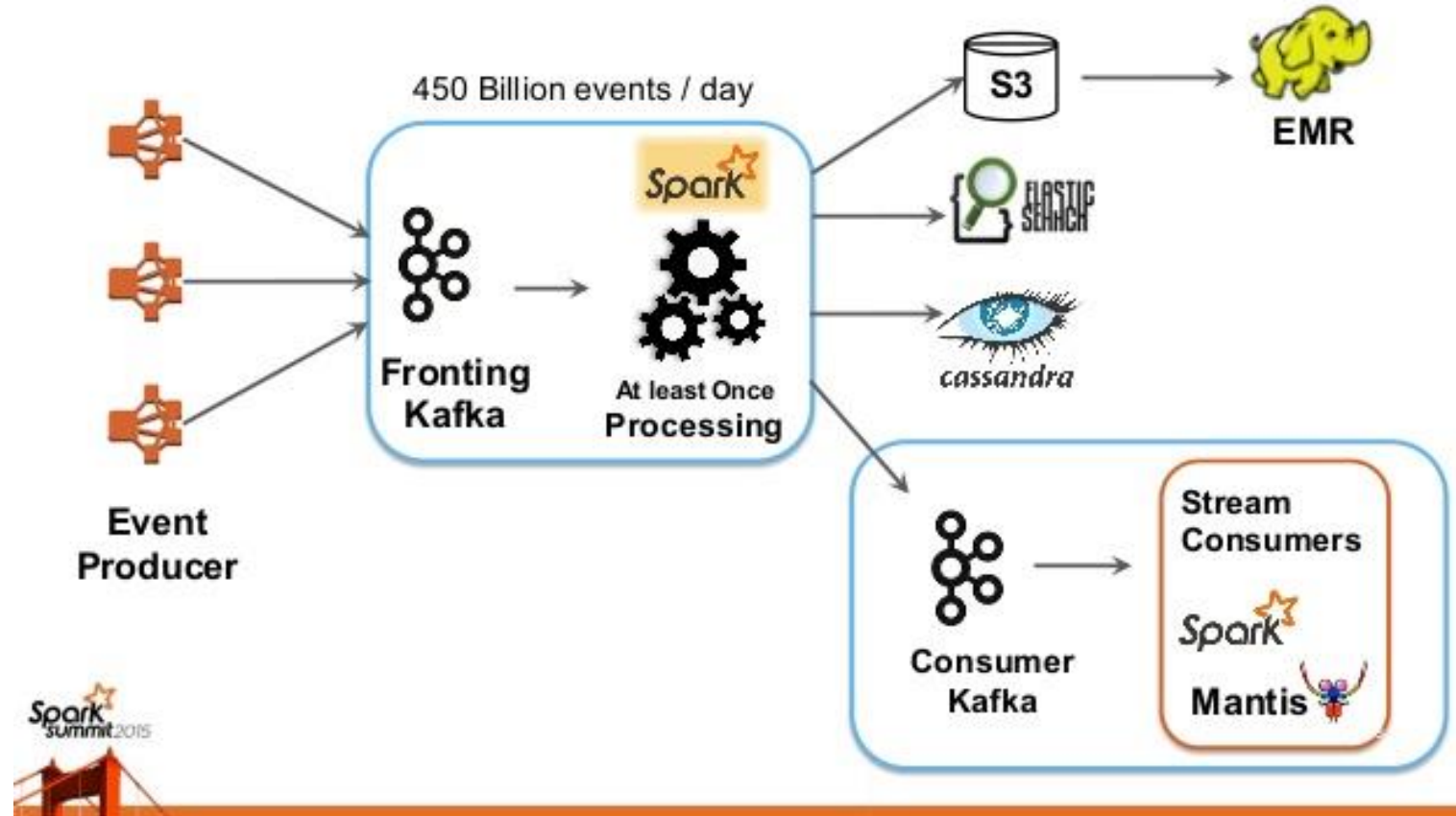


It is fast

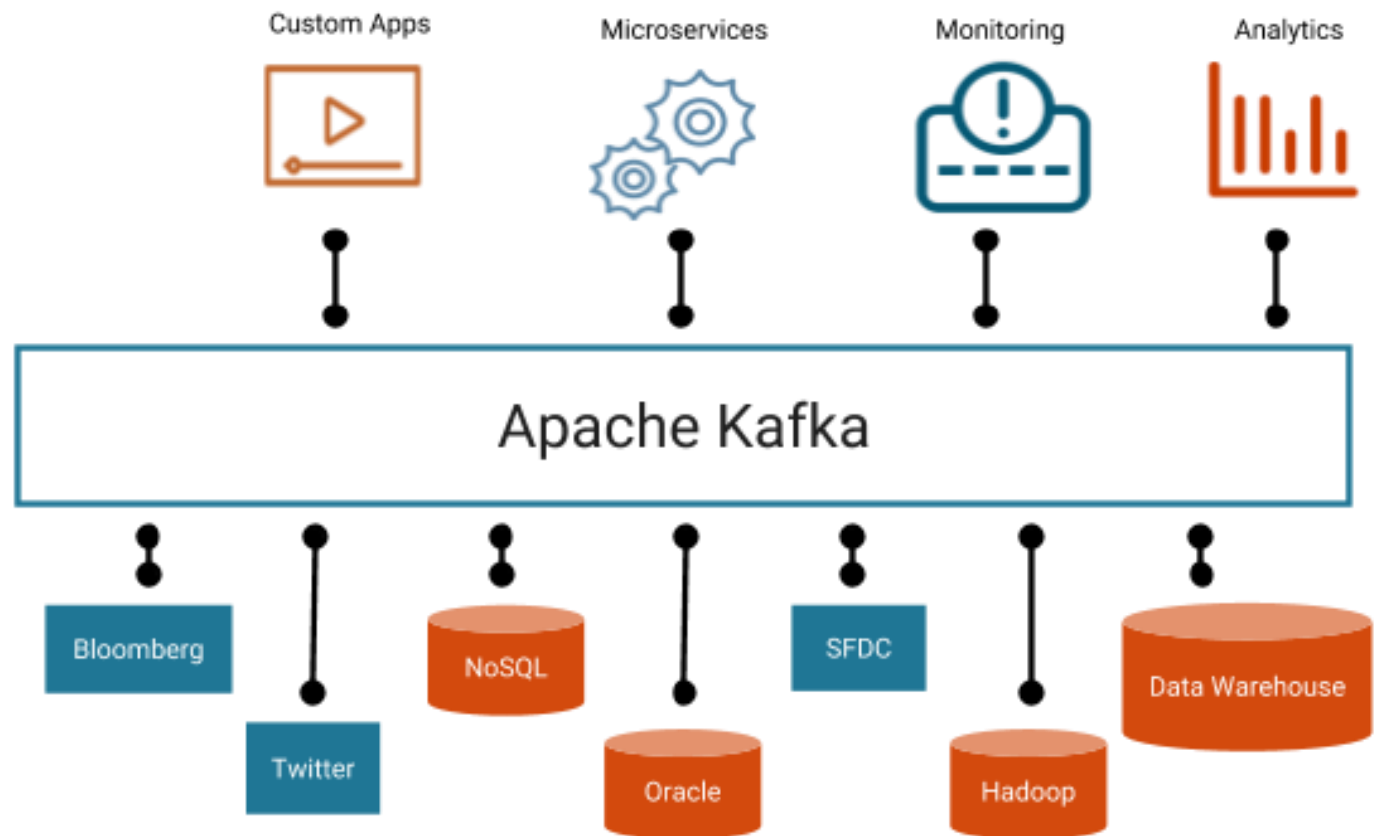
Publish once and reach many Consumers

Widely adopted

Many connectors available



Leverage Kafka Connectors



uLinga for Kafka

NonStop application Kafka Producer

Publishes events to Kafka Cluster

Supports Kafka communication over TCP/IP

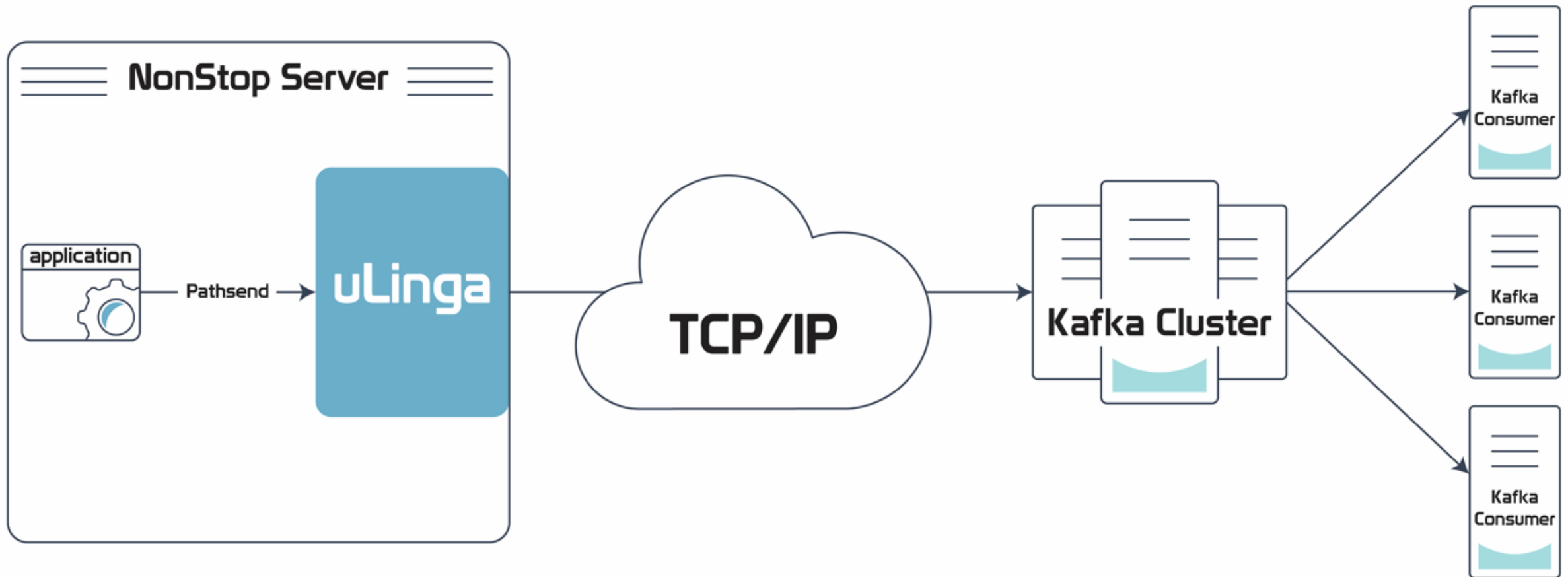
Natively compiled Guardian process pair

No OSS, Java or intermediate databases needed

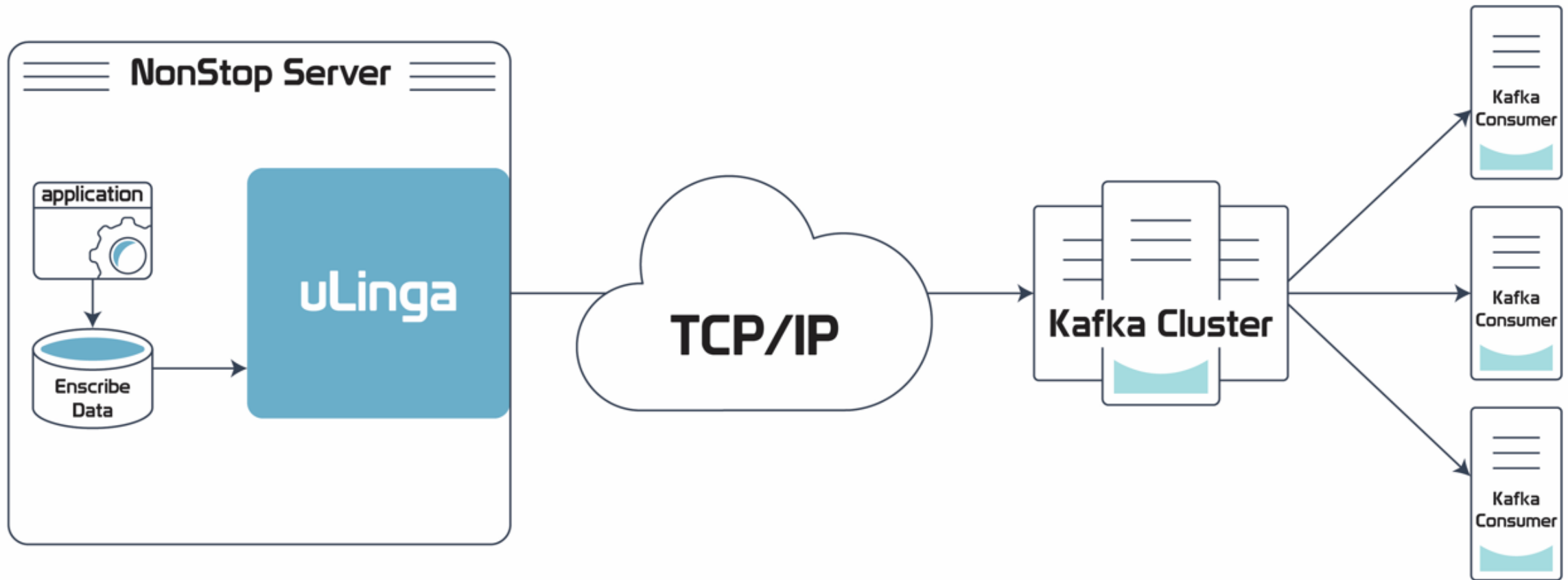
No additional external hardware needed



Publish to Kafka via a simple Pathsend



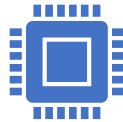
Push data records to Kafka Cluster



NonStop Use Cases



Publish NonStop application logs or system events to Kafka for real time analysis



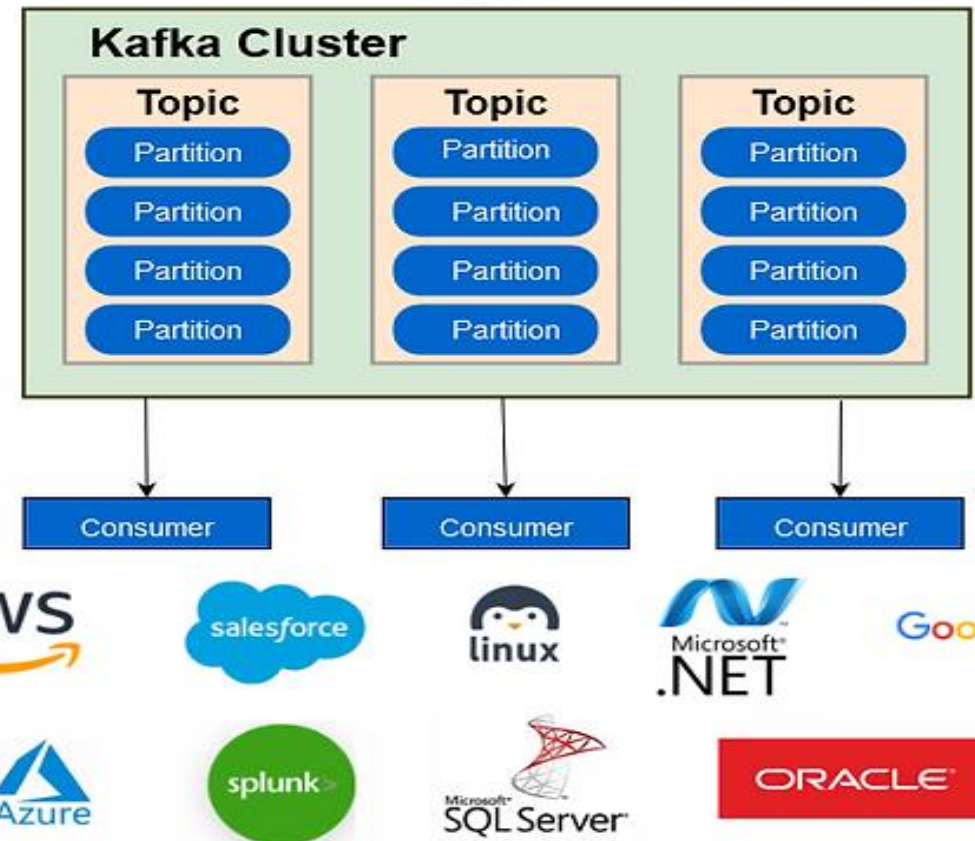
Push NonStop data changes to other database platforms such as SQL Server or Oracle



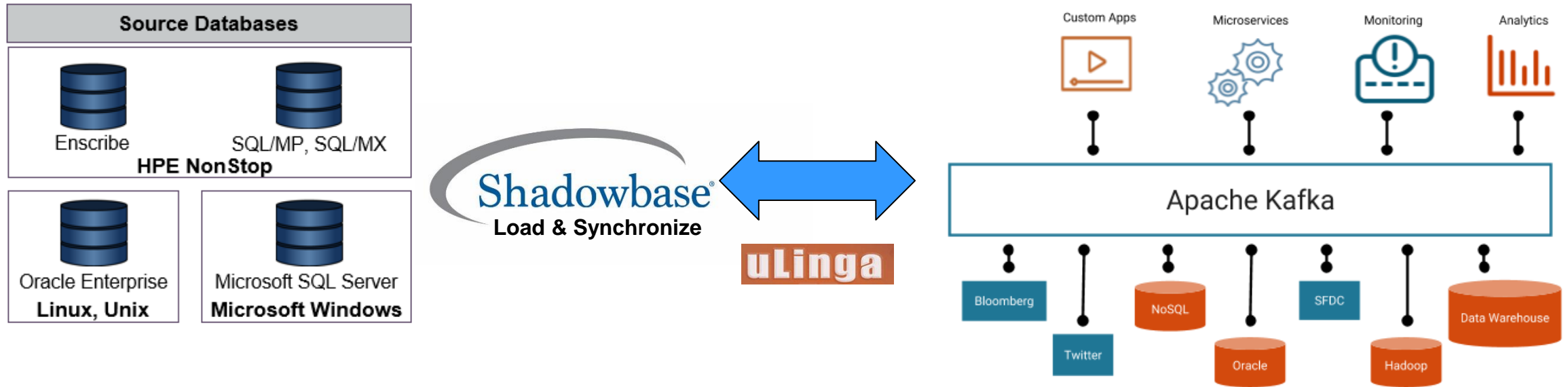
Publish NonStop data to sync with Cloud Services



Asynchronous messaging interface to applications on other platforms such as Windows or Linux



Replicate NonStop Data to Kafka



Modernization through Integration



One of the most cost-effective modernization approaches is to integrate applications with other software, platforms and cloud services

This can add value to NonStop applications and underscores the flexibility of the platform

Integration can provide better performance while lowering risks





TOP Reasons
to partner
with us!

FULL SERVICE



TRUSTED
ADVISOR





Other
TOP Reasons
to partner
with us!

