



SECURE YOUR GROWTH

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Data is the new oil

"Data is the new oil. It's valuable, but if unrefined it cannot really be used. It has to be changed into gas, plastic, chemicals, etc to create a valuable entity that drives profitable activity; so must data be broken down, analyzed for it to have value."

Clive Humby, UK Mathematician and architect of Tesco's Clubcard, 2006

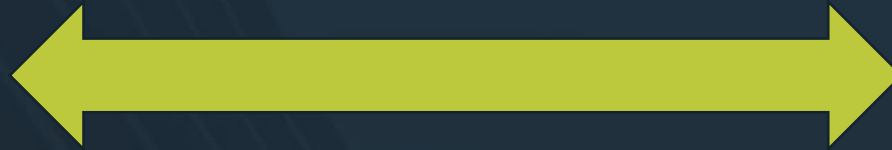


The Data Pond in NonStop



- Advanced Monitoring and Alerting
- SIEM
- Fraud Detection
- Machine Learning / AI
- Forensic Searching
- Business Intelligence

The Data Bridge

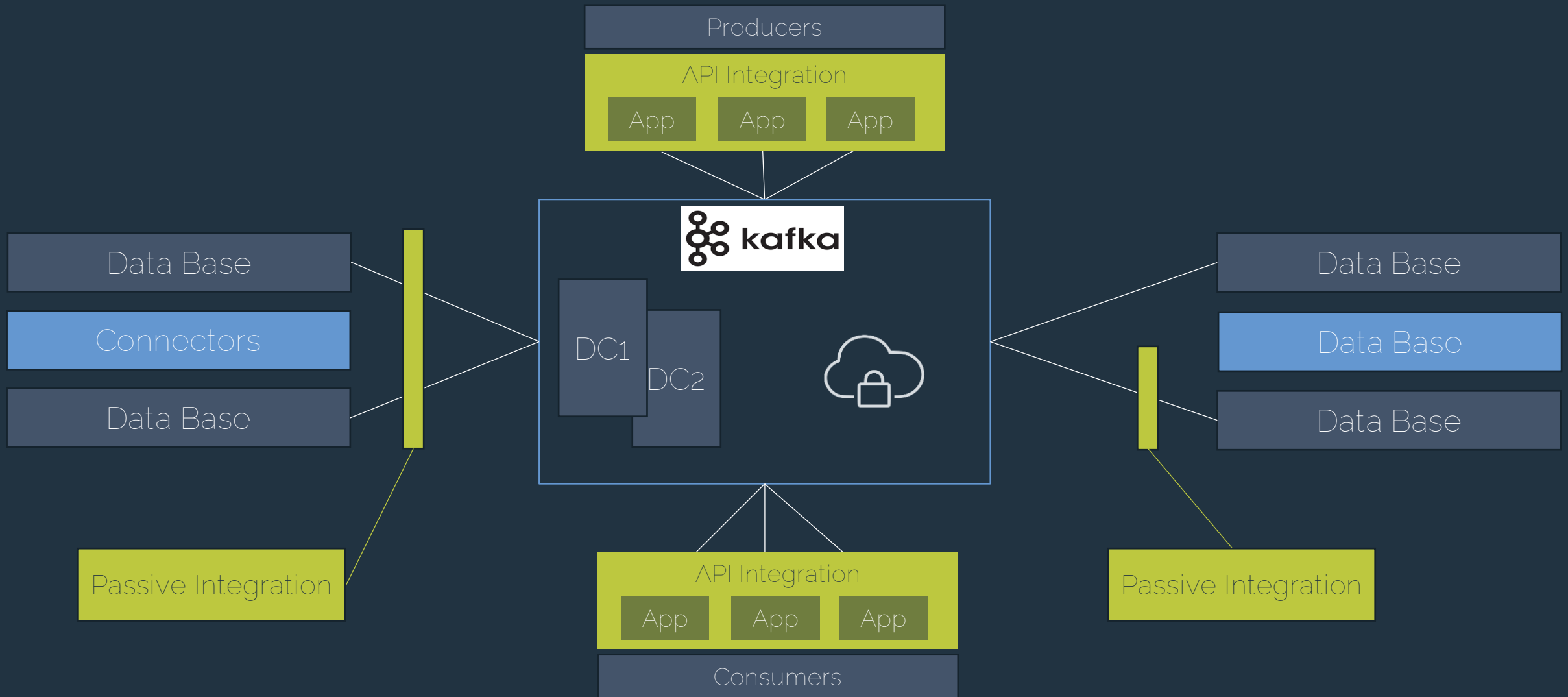


- Secure Integration to cloud based Applications
- And On-Prem
- Microservice Based Integrations
- Data propagation to cloud

A Potential Pipeline



SecurDPS Kafka Integration Overview



Potential Uses

**Machine
Learning**

**Data
Visualisation**

Alerting

Monitoring

**SIEM
Functions**

**Forensic
Investigation**





Google

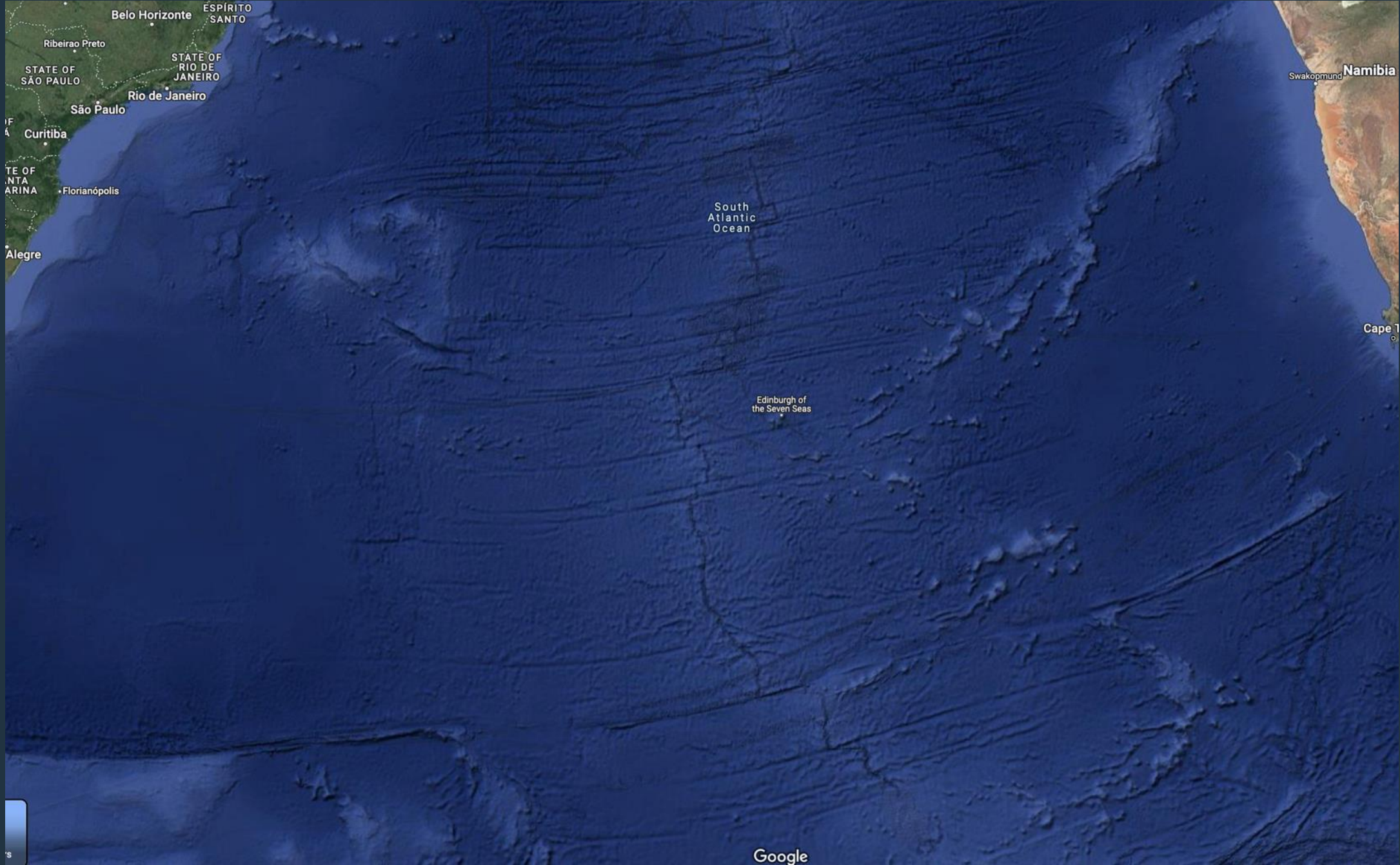


Edinburgh of
the Seven Seas
Tristan
da Cunha

Inaccessible
Island

Google







+ Add filter

atmtranslog

Search field names

Filter by type 0

Selected fields

_source

Available fields

Popular location

_id

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Address

Approved

BIN

campaign

carderrorflag

CODE

description

DISPENSE

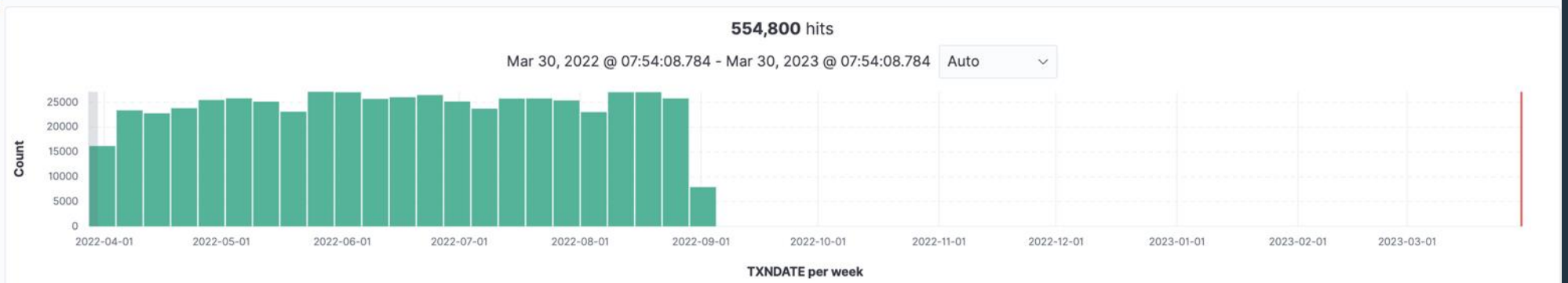
Foreign_Card

issuer_country_code

Issuer_type

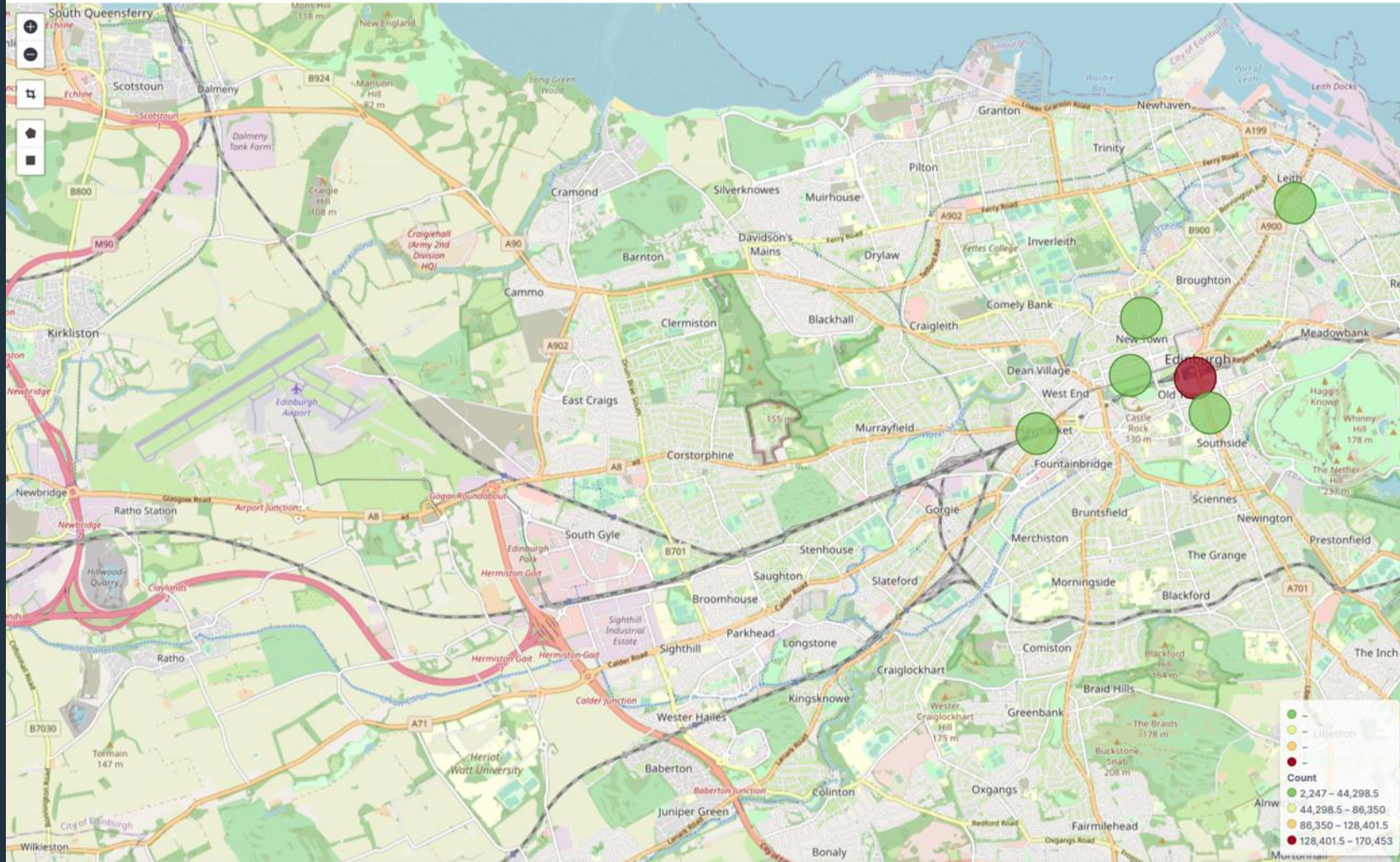
lat

long



Time	_source
> Aug 31, 2022 @ 01:59:49.000	TXNDATE: Aug 31, 2022 @ 01:59:49.000 TRCATI: BAN0001 TRTRTY: 4 TRCRDNUM: 400050*****4826 TRTRN: 4,000 TRRSPC: 00 BIN: 400050 Owner: Binkleys Issuer_type: Debit Scheme: VISA issuer_country_code: 826 Foreign_Card: false ONUS: true DISPENSE: true termid: BAN0001 seqno: 9.99,120,300,153,639e-309 ROUTE: ONUS Approved: true RETRACT: false Responsecode: 00 Responsetext: Approved and completed successfully Networkoutflag: false carderrorflag: false CODE: TXN-ON-US ncard1hr: 1 ncard1hrapproved: 1 ncard1hrdenied: - nATM1hr: 5 nATM1hrapproved: 5 nATM1hrdenied: - thour: 23 tday: 3 tquarter: 95 campaign: 2 Address: Kalliness, Weisdale, Shetland ZE2 9LQ, United Kingdom description: ATM lat: 60.233 long: -1.301 location: 60.2334559,-1.3012263 terminaldatetime: 2022-08-30 23:59:49 _id: zAg0HocBBS9nmWdr8w1y
> Aug 31, 2022 @ 01:59:32.000	TXNDATE: Aug 31, 2022 @ 01:59:32.000 TRCATI: BAN0026 TRTRTY: 4 TRCRDNUM: 482604*****0919 TRTRN: 16,000 TRRSPC: 00 BIN: 482604 Owner: TCZ Issuer_type: Debit Scheme: MasterCard issuer_country_code: 826 Foreign_Card: false ONUS: false DISPENSE: true termid: BAN0026 seqno: 9.99,120,300,153,639e-309 ROUTE: LOCAL SWITCH Approved: true RETRACT: false Responsecode: 00 Responsetext: Approved and completed successfully Networkoutflag: false carderrorflag: false CODE: TXN-NOT-ON-US ncard1hr: 2 ncard1hrapproved: 2 ncard1hrdenied: - nATM1hr: 35 nATM1hrapproved: 27 nATM1hrdenied: - thour: 23 tday: 3 tquarter: 95 campaign: 2 Address: Edinburgh South Bridge Local, 79 South Bridge, Edinburgh EH1 1HN, United Kingdom description: ATM lat: 55.949 long: -3.187 location: 55.9485946,-3.1869337 terminaldatetime: 2022-
> Aug 31, 2022 @ 01:59:28.000	TXNDATE: Aug 31, 2022 @ 01:59:28.000 TRCATI: BAN4025 TRTRTY: 29 TRCRDNUM: 544000*****2257 TRTRN: 8,000 TRRSPC: 00 BIN: 544000 Owner: Lithuania Issuer_type: Debit Scheme: MasterCard issuer_country_code: 440 Foreign_Card: true ONUS: false DISPENSE: true termid: BAN4025 seqno: 9.99,120,300,153,639e-309 ROUTE: MasterCard Approved: true RETRACT: false Responsecode: 00 Responsetext: Approved and completed successfully Networkoutflag: false carderrorflag: false CODE: TXN-NOT-ON-US ncard1hr: 1 ncard1hrapproved: 1 ncard1hrdenied: - nATM1hr: 4 nATM1hrapproved: 4 nATM1hrdenied: - thour: 23 tday: 3 tquarter: 95 campaign: 2 Address: 95 Charleston Dr, Dundee DD2 2HB, United Kingdom description: ATM lat: 56.47 long: -3.025 location: 56.4699064,-3.0251529 terminaldatetime: 2022-08-30 23:59:28





atmtranslog

Data Options

Map type

Shaded circle markers

Color schema

Green to Red

Legend position

Bottom right

Show tooltip

Desaturate tiles

Base layer settings

WMS map server

Layers

road_map

uLinga Product Suite



uLinga for DLSw



uLinga for x25



uLinga Gateway



uLinga for CICS



uLinga for EE



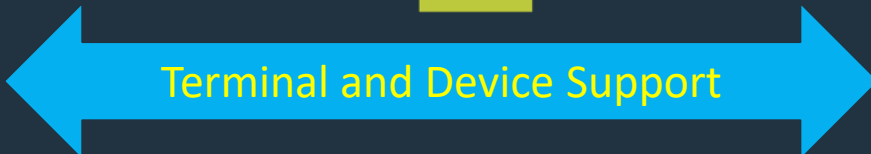
uLinga for IMS



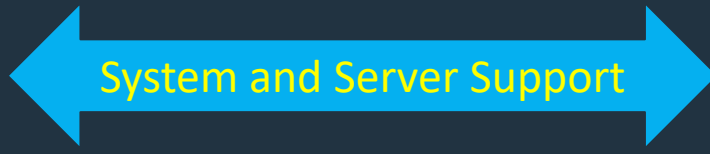
uLinga for Kafka



SNAX/HLS SNAX/APC, PTP
TCP/IP, IPC, Pathsend,
File reader



Terminal and Device Support

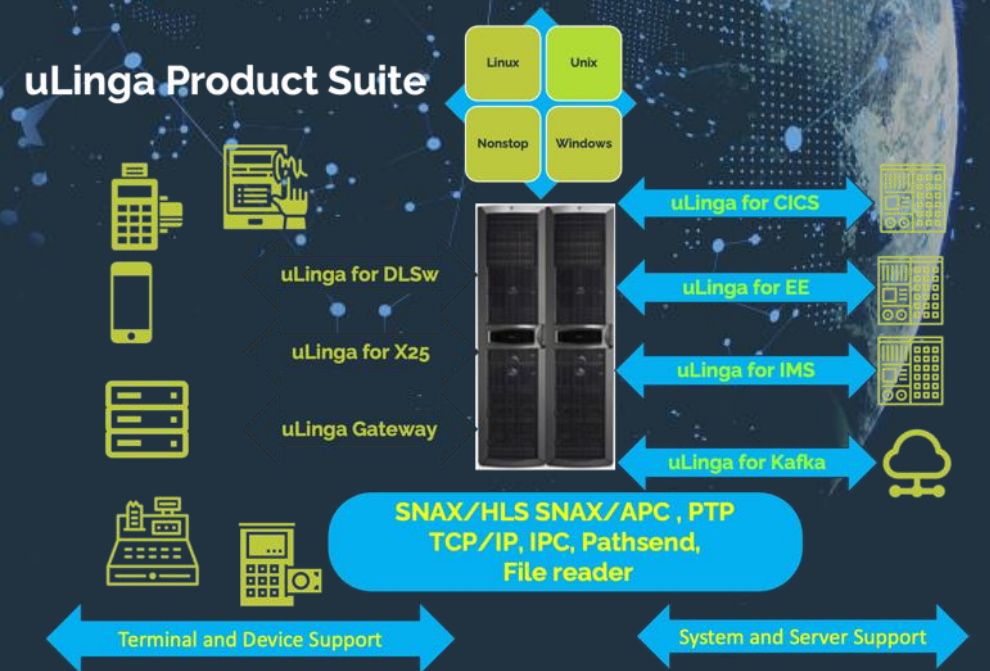


System and Server Support

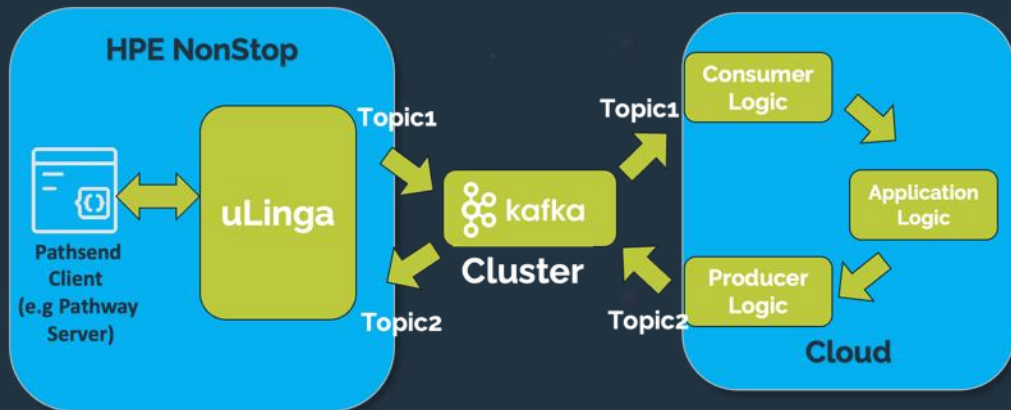


uLinga Features

- Uses Industry Standard Protocols incl. TCP/IP, HTTP
- Simplified Management - IP end to end allows for easier problem determination
- Extensive security options (e.g. SSL/ TLS, IPSEC)
- Modern intuitive web-based graphical user interface (WebCon)
- RESTful interface for command, control and metrics
- Provides a wide range of APIs to support any application
- Extensive inbuilt tracing and logging
- Completely multi-platform – NonStop, Linux, Unix and Windows

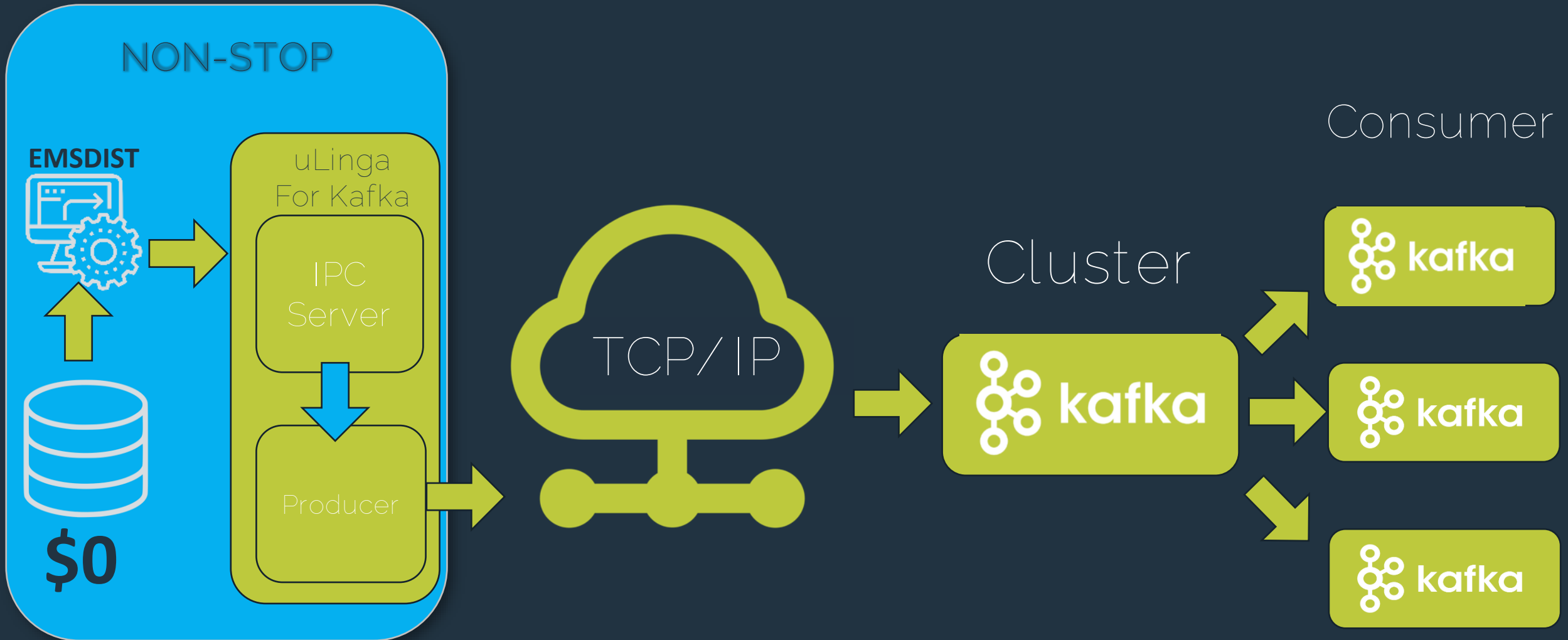


uLinga for Kafka



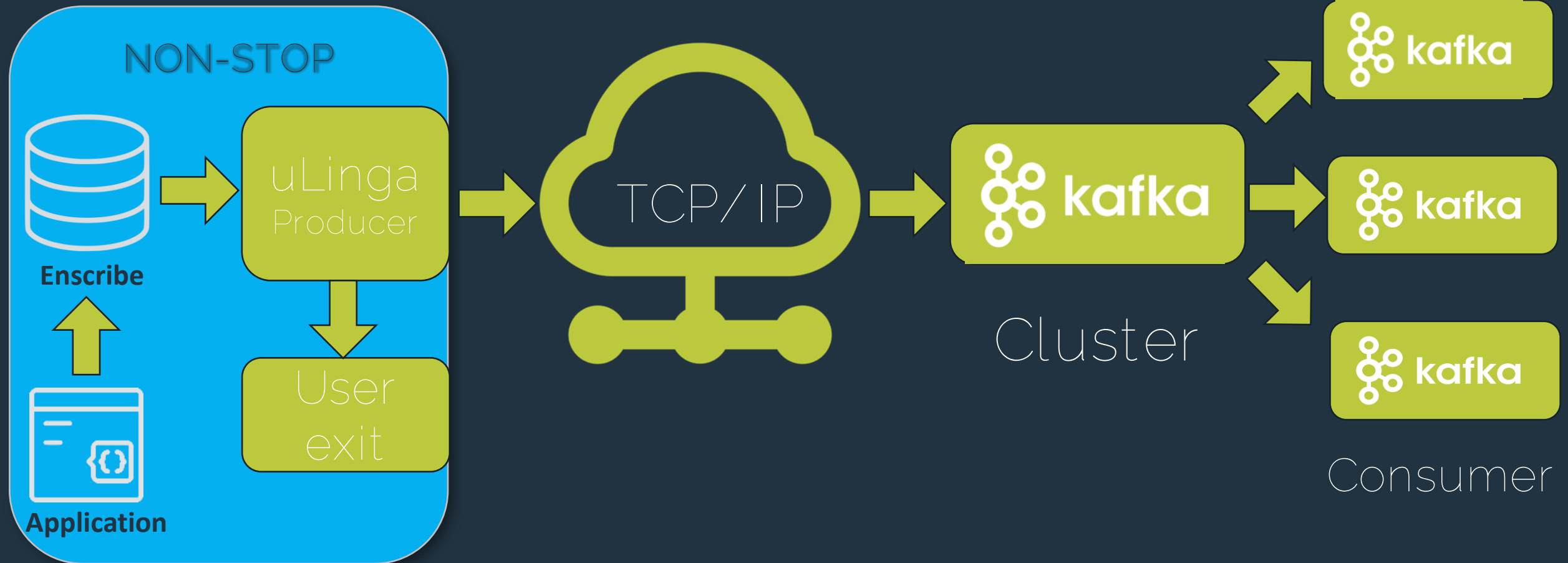
- uLinga for Kafka acts as a Kafka Producer and Kafka Consumer
- Supports native Kafka wire protocols, meaning no additional software required
- No single point of failure
- Runs like any other uLinga product
- Proven uLinga architecture can handle massive data throughput - >20,000TPS on a single NS X3 processor, with sub-millisecond latency

Streaming EMS Events to Kafka

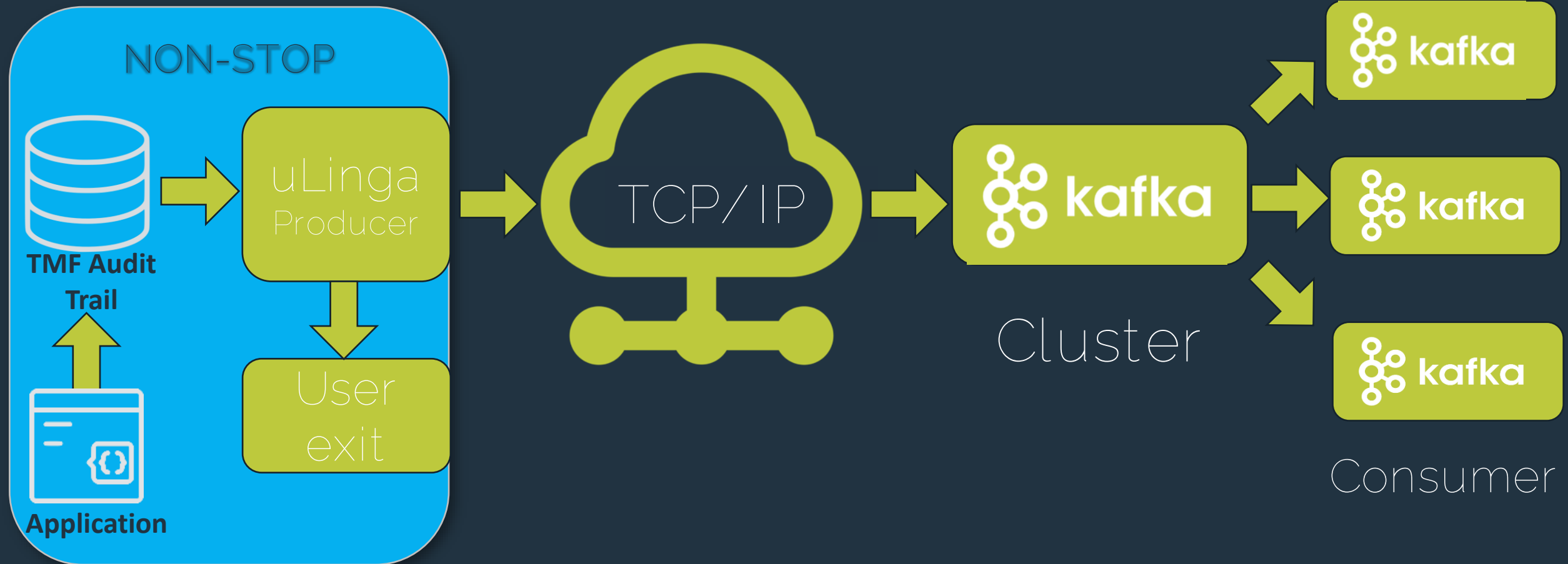


```
TACL> EMSDIST /NOWAIT/ COLLECTOR $0, TYPE PRINTING, TEXTOUT $ULKAF.#KAFKA1
```


Enscribe Support - Producer

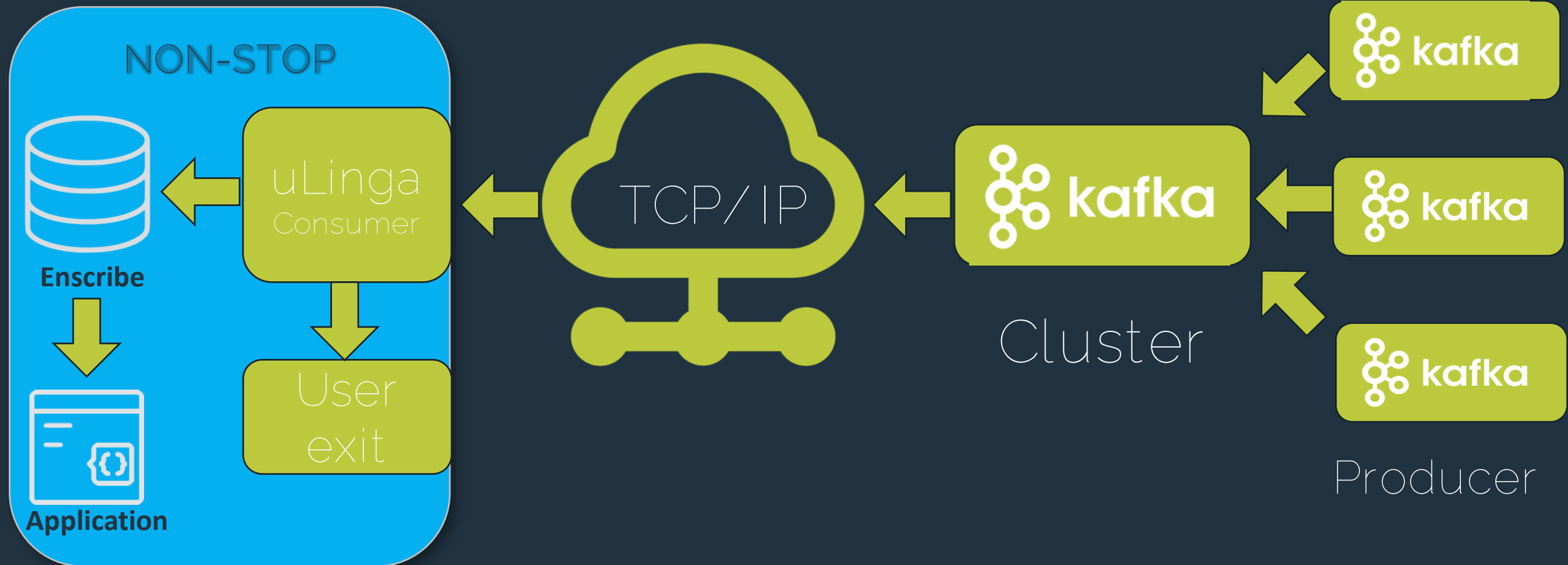


TMF Audit Trail (Enscribe & SQL/MP) - Producer

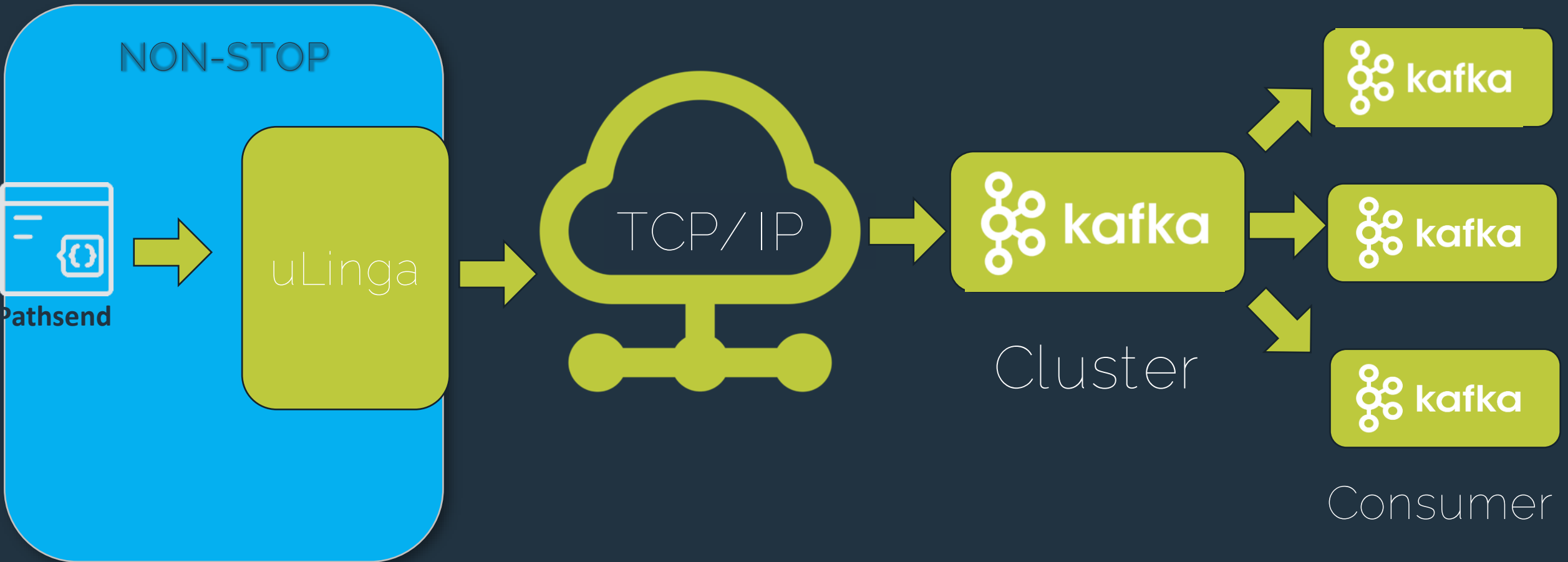


New ENSCRIBE intercept library

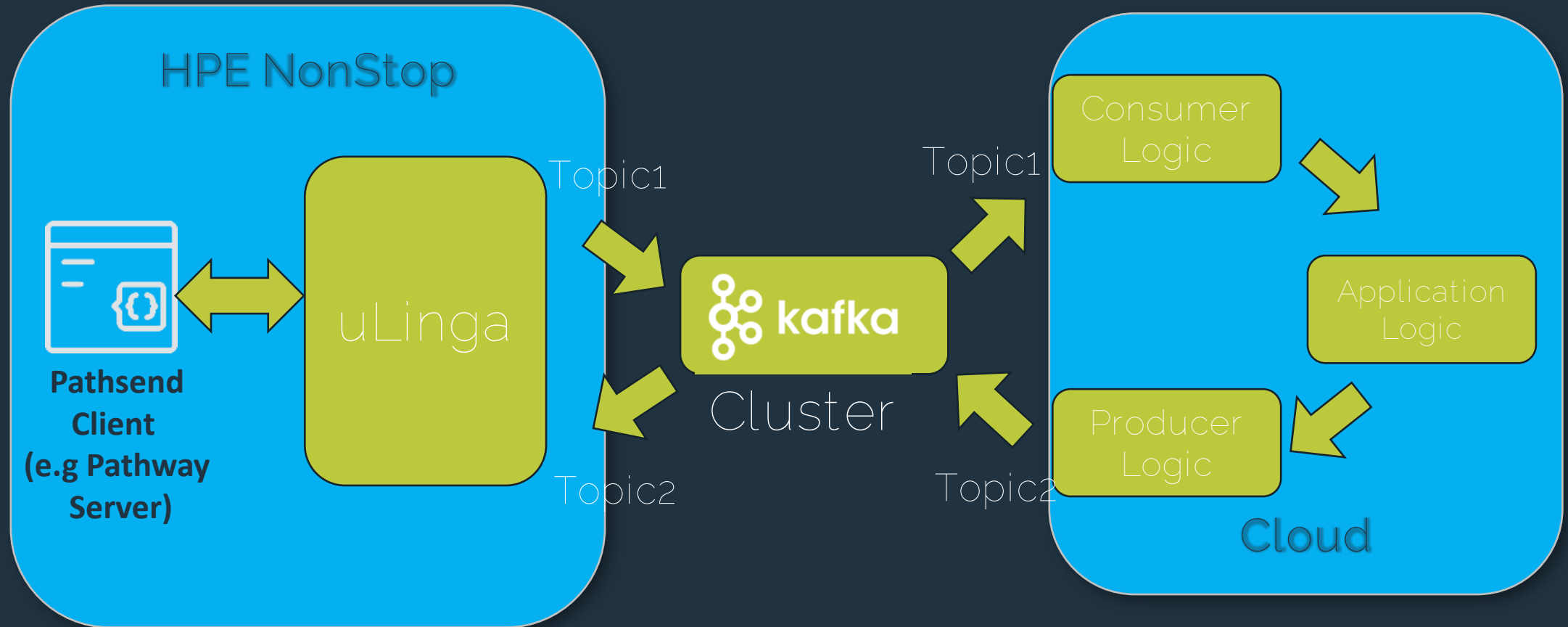
Enscribe Support - Consumer



Pathsend / IPC support



Produce Consume - Example

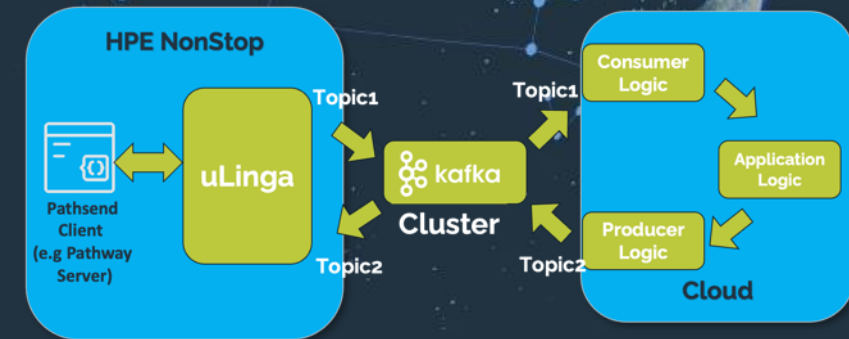


uLinga for Kafka – Additional Features

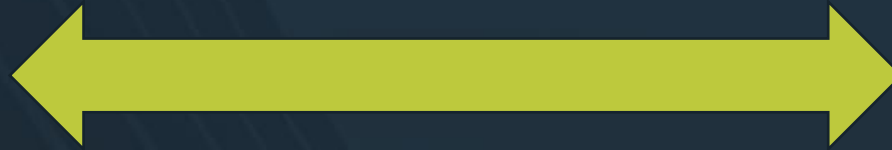
- Authentication with SASL-SCRAM
- Kafka Exactly Once Semantics (EOS)
- Configurable batching support - can increase throughput, depending on application requirements
- Compression support
- Integration with securDPS

uLinga for Kafka - Summary

- uLinga for Kafka provides:
 - Excellent performance, written in C, with no additional components required
 - All the advantages of other uLinga products
 - Support for both Kafka Producer and Consumer functionality
 - Produce/Consume can be paired to provide high performance request/response processing
 - Variety of mechanisms to send/receive data to and from Kafka cluster
 - User exits for custom manipulation of data
 - Integration with SecurDPS



Summary



- Secure Integration to cloud based Applications
- Open up more actionable data
- Enrich data for greater utilisation
- Provide secure transmission and storage of data



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