Legacy to Hybrid Cloud

Event Driven Data Integration

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Hybrid Cloud Challenges

Workloads continue to exist on-premise, SaaS and in multiple clouds

**Service Silos**

How can my apps securely access existing databases (regardless of location)?

How can my apps securely access existing services (regardless of location)?

**Data Integrity**

Data needs to be sync across multi-cloud while real-time event stream processing still requires availability, correctness, and consistency.

**Integration Mess**

Point-to-point lead to a disarray of connections. Changes, upgrades or migrations take more time, resources, and money.
Available Options Today

There are some efforts and patterns used today

Use a VPN and open the gates to every service in the network to connect. Try to limit access using firewall rules.

Keep a single point of contact with an API gateway, but force TLS and add API management burden.
Simplifying Indirect Connectivity for the DMZ with Red Hat Application Interconnect

Providing a safe and efficient way to interconnect Secure Apps
Service Network

- **Public Cloud**
  - Application
  - Service (Virtual)
  - Router
- **Edge / VMs**
  - Router
  - Service (Virtual)
  - Application
  - TCP over AMQP with TLS
- **Datacenter**
  - Router
  - Service
  - Application
  - TCP over AMQP with TLS
APP CONNECTIVITY FOR THE HYBRID CLOUD

ROSAS-US-EAST-2

Superheroes Namespace
- ui-super-heroes
- villains-service
- RHAI Router
- fights-service
- heroes-service
- heroes-db
- philmysql
- Debezium (Kafka Connect)

EKS Kube cluster - US-EAST-1

Villain Namespace
- villains-service
- RHAI Router
- philmysql

Virtual Machine (My laptop)
- Hero App
- RHAI Gateway

MySQL

Camel K Integration

Kafka

mTLS
Red Hat Application Interconnect

A virtual application network
Thank you

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