



# ING Türkiye

28.11.2023



# Meet with Team



## Enterprise Architect:

- 13 years of experience on infrastructure and platform services
- Loves to work on automation, containers and microservices
- Working in ING Türkiye more than 4 years



## Infra Architect:

- 16 years of experience in Infrastructure & Automation systems
- Work 12 years for ING Türkiye
- Opensource contributor, enthusiastic for automation, containers

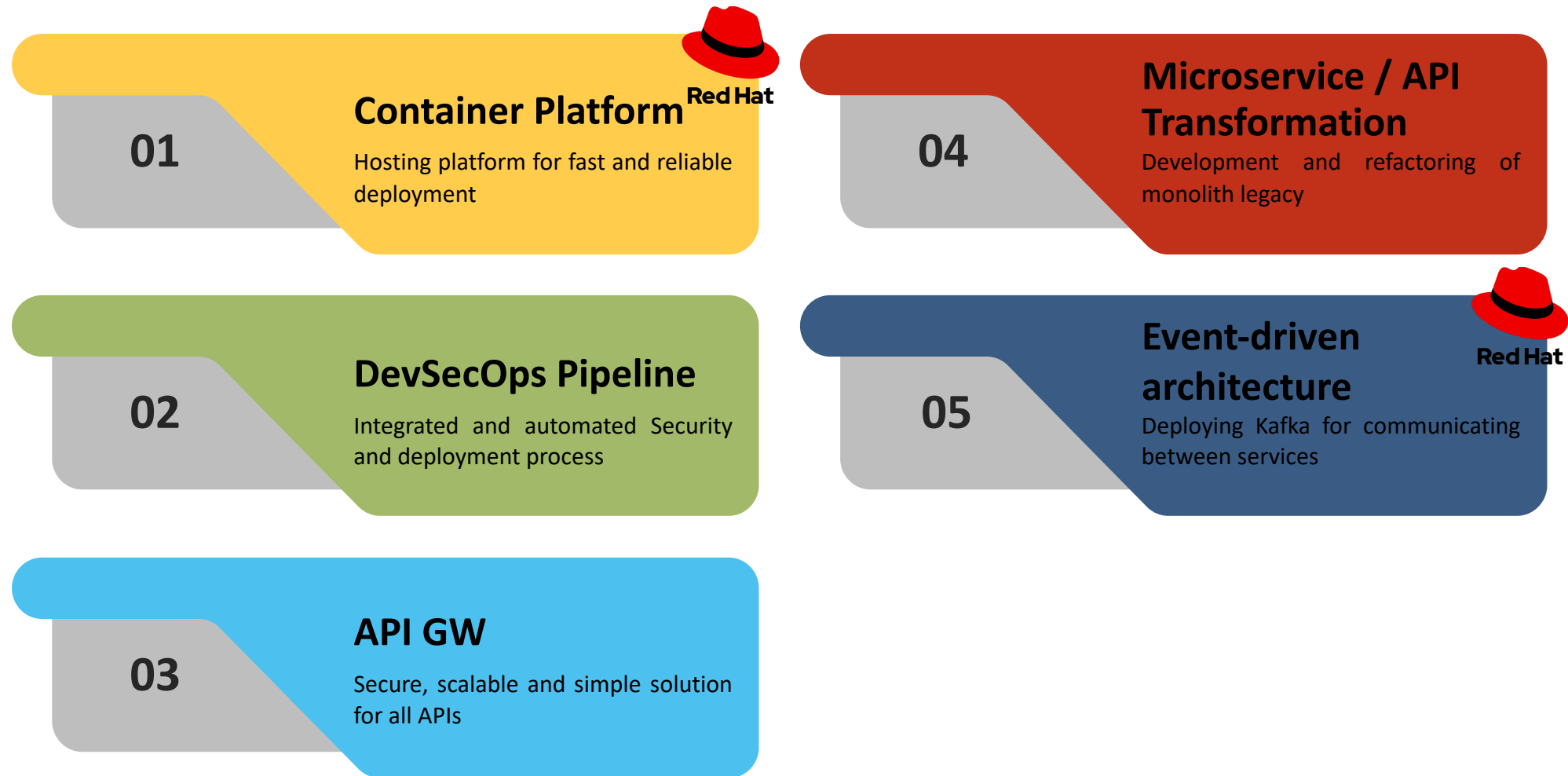
# Strategy & Gains of TechBox Transformation

The strategy of the TechBox program is implementation of Platform Banking for ING Turkey

The targets behind the strategy are ...

- **Renewing and consolidating our legacy systems with new and more compliant technologies.**  
Less tool more capability, less maintenance and operation costs, focused experience
- **Reducing complexity and using latest industry practices and standarts.**  
Secure, resilliant and scaleable environments, increasing availability
- **Increasing speed of time to market**  
Being more productive in shorter time

# TechBox Initiatives



The image displays five TechBox Initiative cards arranged in two columns. Each card features a colored header, a grey corner, a number, a title, a description, and a Red Hat logo. The cards are: 01 Container Platform (yellow), 02 DevSecOps Pipeline (green), 03 API GW (blue), 04 Microservice / API Transformation (red), and 05 Event-driven architecture (dark blue).

- 01 Container Platform**  
Hosting platform for fast and reliable deployment
- 02 DevSecOps Pipeline**  
Integrated and automated Security and deployment process
- 03 API GW**  
Secure, scalable and simple solution for all APIs
- 04 Microservice / API Transformation**  
Development and refactoring of monolith legacy
- 05 Event-driven architecture**  
Deploying Kafka for communicating between services

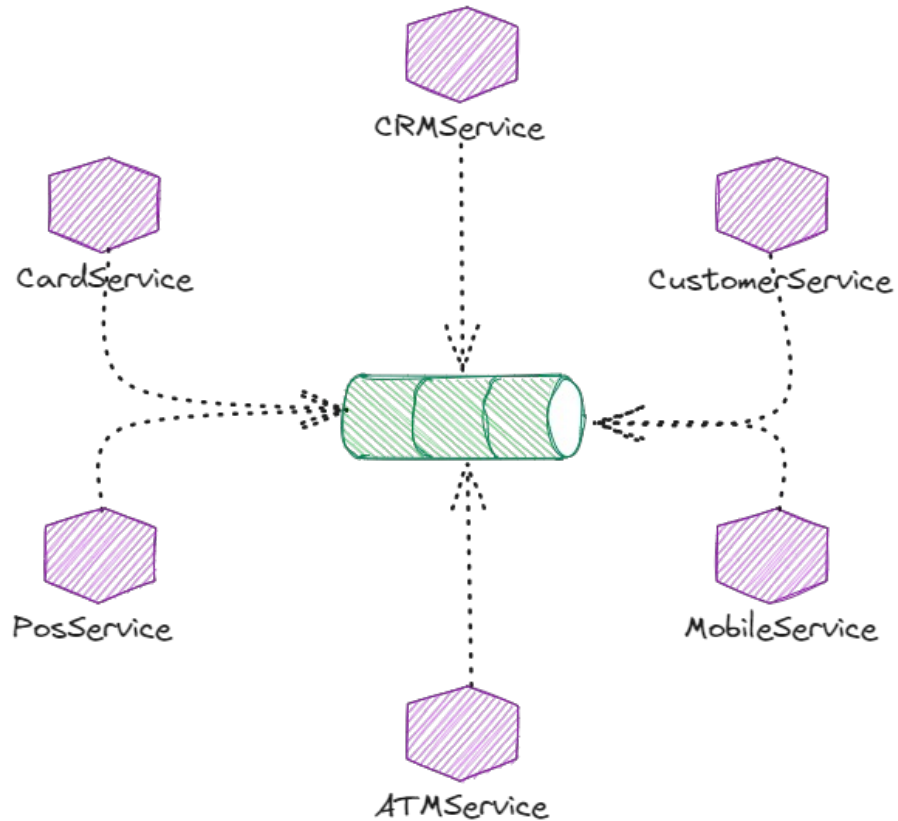
# Red Hat OpenShift

- Starts with 4 cluster and now 9 cluster
- UPI installation for flexibility.
- Masters & Infra nodes are VM, Workers physical
- Using Red Hat ACM for easy Management
- Don't use PV except one cluster
- Fully automated Management (Namespace, Quota, LDAP , Rolebinding, Application...)
- Using Ingress Sharding
- Every namespace has one egress IP
- Application and platform can only be modified by pipeline

# Red Hat OpenShift Integrations

- Azure Devops
- Service Now
- Ansible Automation Platform
- Monitoring systems

# Central Event Hub – Eventdriven architecture



## Standart and widely used technology;

- Prevents vendor lock-in,
- Large documentation and community

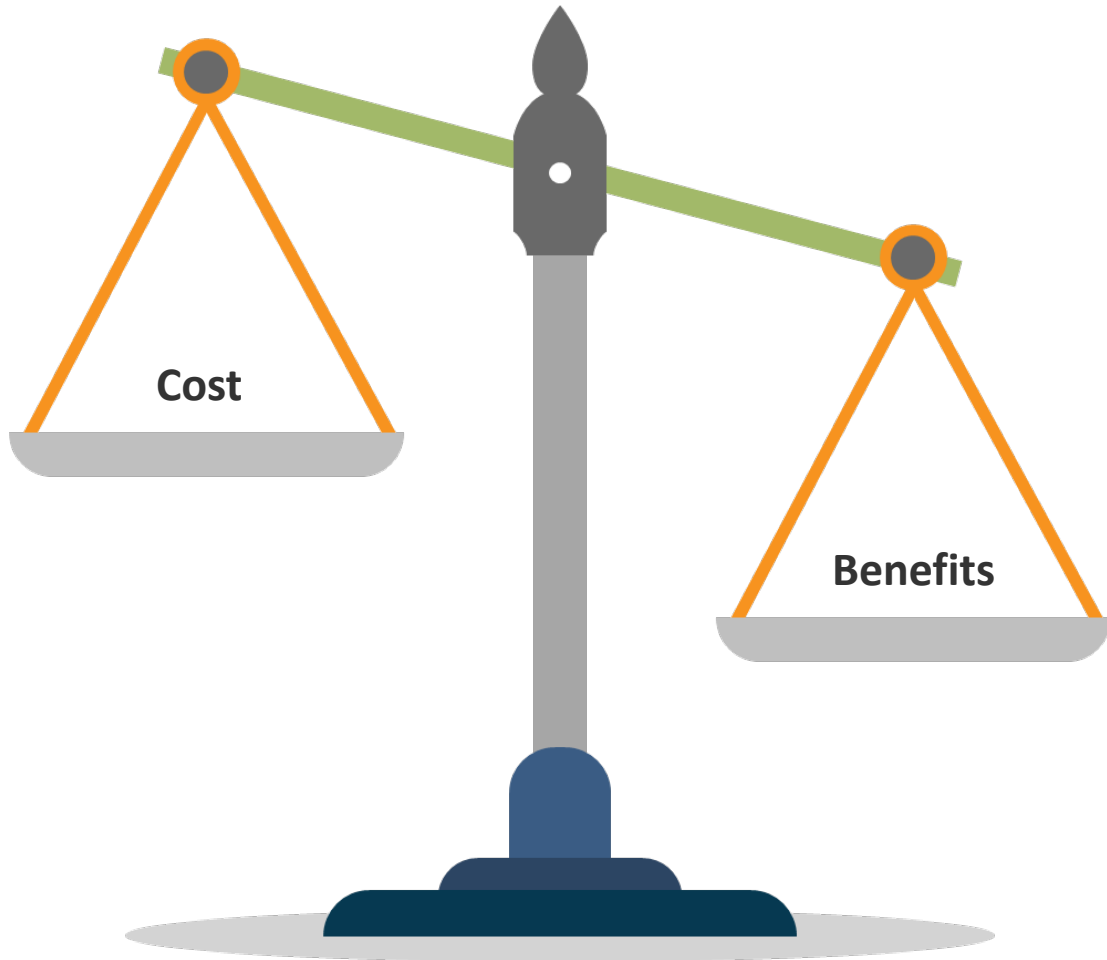
## Scalability and performance;

- Process millions of event per min,
- Can be scale-up without service interruptions and additional cost

## Integration;

- Easy to integrate with existing pipelines and architecture
- Standart interface for applications,

## Central Event Hub – Red Hat AMQ



- Using Kafka in background,
- Enterprise Support,
- Easy to install, operate and maintain via operator,
- All Kafka supported services and modules included,
- Very good cost/benefit balance



## Central Event Hub – Red Hat AMQ



- All topics, users and configurations deployed by pipeline,
- All scalability, anti-affinity and reliability issues handled by OpenShift
- Any new application can join Producer or Consumer groups via pipeline,

Q & A

THANKS