WORKSHOP

Dall' Offloading al Cloud: le strategie di migrazione per l'evoluzione digitale delle Banche con meno costi e più servizi

Relatori



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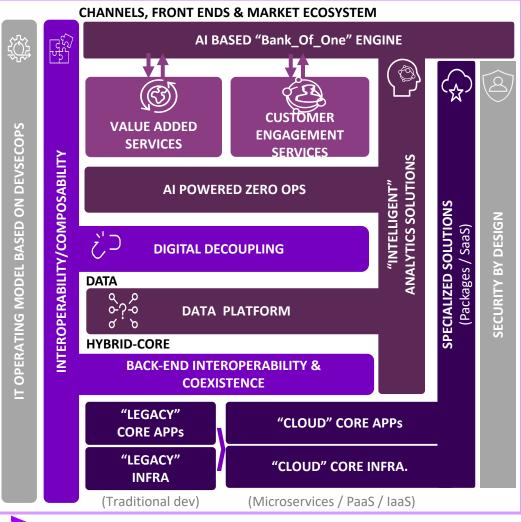
Agenda



Modernizing your Mainframe applications using AWS	
Migration Strategies for Digital Evolution	
	Alessandı Cisco
	Managing Dire Accenture

Bank of the future: next gen banking IT architecture

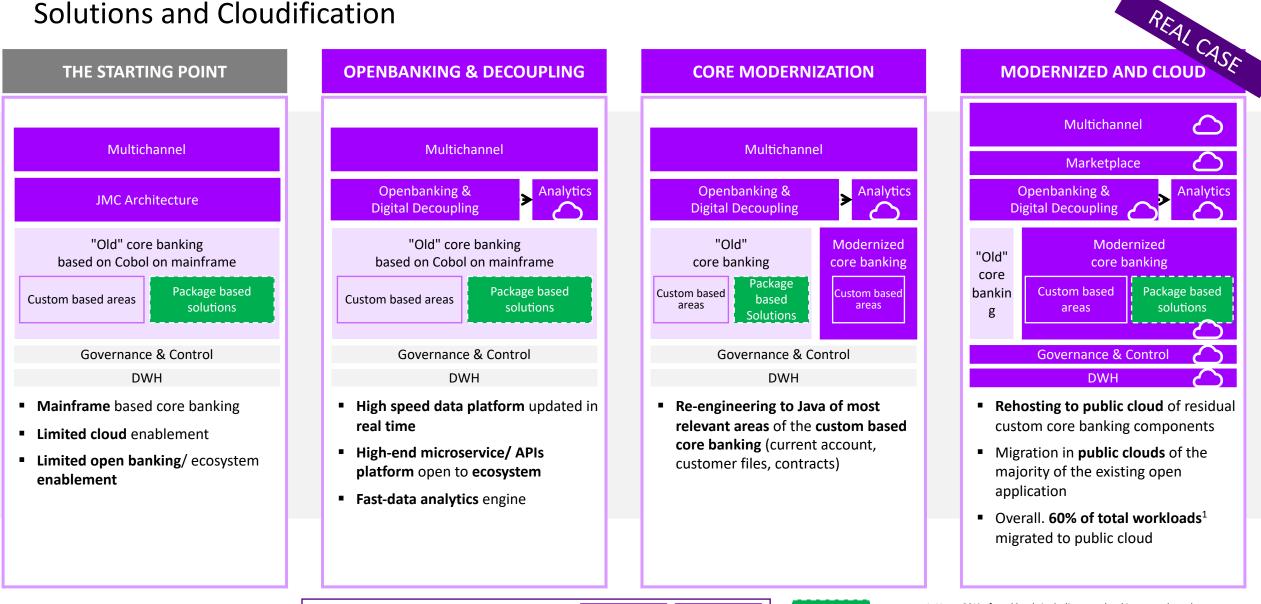
Our view of the future banking IT architecture is based on four main components.



- AI based "Bank of One" engine where the best choice of products, services and experiences are created
- Interoperability/composability abstraction engine that ensures the decoupling
- Hybrid-Core applications, legacy and next-gen, onpremise, cloud and SaaS working together
 - **Specialized** solutions, where **package** is **preferred** to custom development

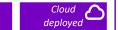
Maturity Level

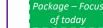
The path to modernization requires a combination of evolution to Specialized Solutions and Cloudification



Cloud

readv

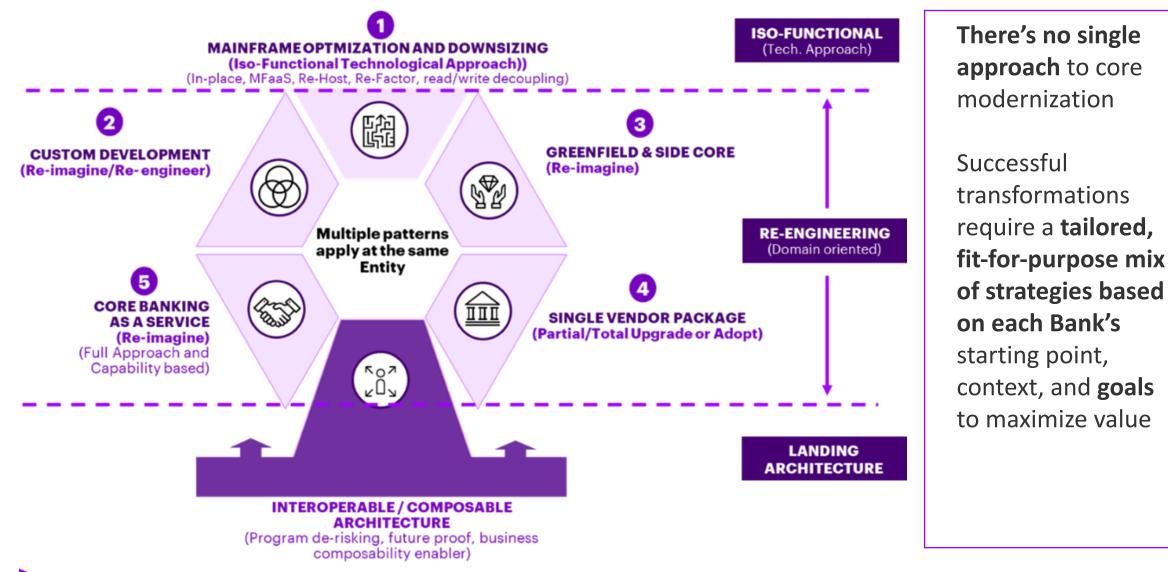




1. Up to 80% of workloads including core banking areas based on packages

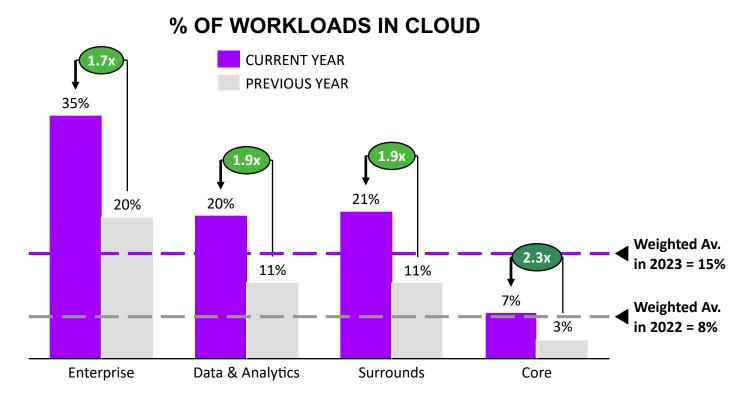
4

A selective approach is driving core modernization initiatives where business priorities are key



There is also a trend of adopting Cloud in Banking: our Banking Cloud Rotation index shows that there is a significant growth year after year

WORKLOADS IN THE CLOUD BY FUNCTIONAL AREA Current year vs. previous year



Computed weighted average:

The computed weighted workloads average for the functional areas was calculated by applying the following weights to the different functional areas.

- Enterprise (10%)
- Data & Analytics (15%)
- Surrounds (25%)
- Core (50%)

In all cases, we removed the "Not applicable/I don't know" cases. When a bank is planning to move or is not moving to cloud, the % of workloads was set as 0%.

Since there is a considerably high dispersion on the values of the sample, the computed weighted average might not be statistically significant at an industry level.

Q. What percentage of [each functional area] workload has moved to cloud?

Source: Accenture Research based on Banking Cloud Rotation Index

Agenda



Evolving IT Banking architecture towards Specialized Solutions and Cloud Modernizing your Mainframe applications using AWS Migration Strategies for Digital Evolution Fabio Chiodini **Principal Solutions** Architect AWS

Modernizing mainframe applications unlocks value

AWS CLOUD SERVICES CAN ACCELERATE MODERNIZATION



Cost savings

Agility



Innovation

Lower operating cost for managed runtime

Unified procurement of modern toolchains

Consumption-based, flexible pay-as-yougo pricing Pre-integrated toolchains

Modernization to macroservices

Access to modern development practices like DevOps & SysOps Near real-time data replication

Cloud-native access to analytics, AI/ML

Hundreds of AWS services and thousands of partner solutions



Resilience

Automated runtime health monitoring

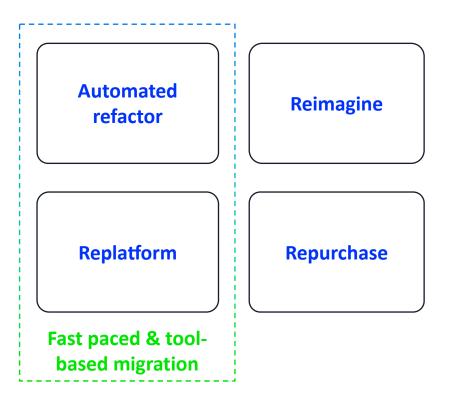
Centralized security and compliance

Cloud-native built-in high availability and elasticity

AWS offers modernization and augmentation patterns

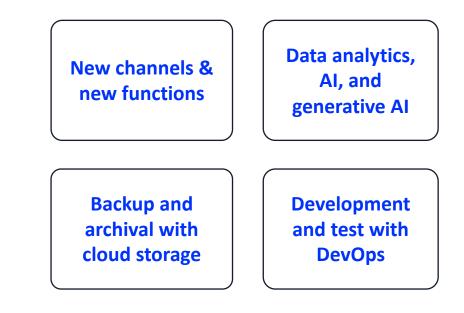
Application modernization

Strategic journey to cloud



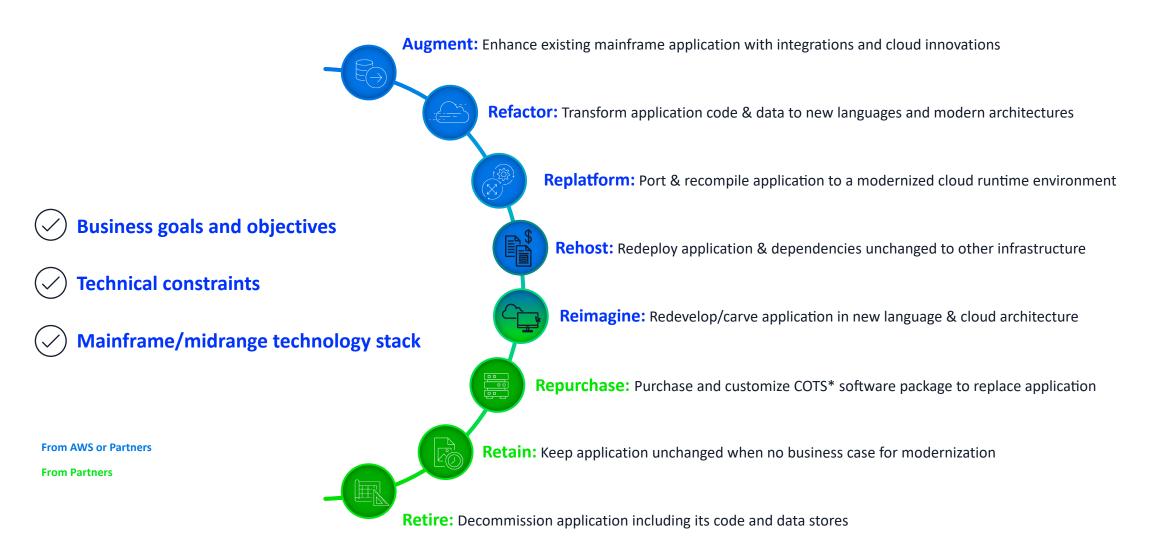
Mainframe augmentation

Tactical innovations for cloud-driven benefits



Customers leverage multiple approaches

THE BUSINESS AND TECHNOLOGY ENVIRONMENTS CAN DICTATE THE CHOICE



aws >___

AWS Mainframe Modernization toolchains

SUPPORT FOR YOUR PATTERN OF CHOICE

Modernize applications

while migrating them to cloud

AWS Mainframe Modernization **Refactor**

Automate modernization of the complete application software stack, infrastructure, and processes

Powered by AWS Blu Age

AWS Mainframe Modernization **Replatform**

Preserve application assets with minimal changes while modernizing the infrastructure and processes

Powered by Micro Focus or NTT DATA UniKix

Augment mainframe

and innovate with your data

AWS Mainframe Modernization **Data replication**

Replicate data changes in near real time from mainframes to AWS unleashing data-based innovations and use cases

Powered by Precisely

AWS Mainframe Modernization File transfer

Transfer data sets and files from mainframes to AWS for migration and modernization use cases

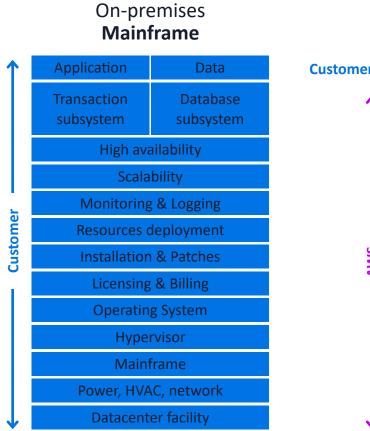
Powered by BMC

Integrated elastic toolchains augmented by a range of AWS native services



AWS Mainframe Modernization is a cloud native service

AWS FULLY MANAGED INFRASTRUCTURE AND MIDDLEWARE ACCESSIBLE FROM AWS CONSOLE, APIS, AND CLIS



Cloud native services AWS Mainframe Modernization Amazon RDS

mer	Application	Data	
1	Transaction subsystem	Database subsystem	
	High availability		
	Scalability		
	Monitoring & Logging		
	Resources deployment		
AWS	Installation & Patches		
م ا	Licensing & Billing		
	Operating System		
	Hypervisor		
	Rack & stack		
	Power, HVA	C , network	
↓ ↓	Datacenter facility		



Scalable and agile

On-demand, elastic, DevOps



Cloud native fully-managed Built-in automation, integrations



Proven toolchains Replatform, refactor, data transfer



Resilient

Secure, compliant, highly available



Cost-efficient

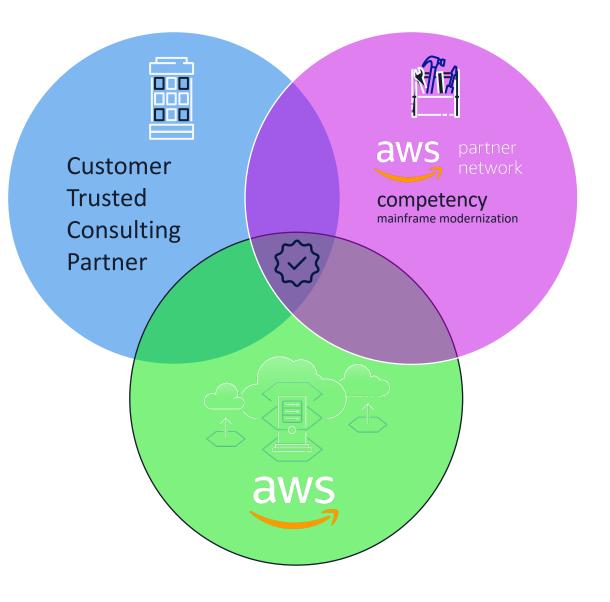
Pay-as-you-go, low-cost entry

Spend time innovating and building new capabilities, not managing infrastructure

Mainframe modernization projects can be challenging

THREE ESSENTIAL DOMAINS TO IMPROVE MAINFRAME MODERNIZATION PROJECT SUCCESS RATES

- Consulting and migration delivery expertise
- Mainframe Modernization Competency Partner Technologies and Subject Matter Experts
- Cloud platform domain experience, mainframe specialist resources, supporting programs and services



Agenda



Evolving IT Banking architecture towards Specialized Solutions and Cloud

Modernizing your Mainframe applications using AWS

Migration Strategies for Digital Evolution



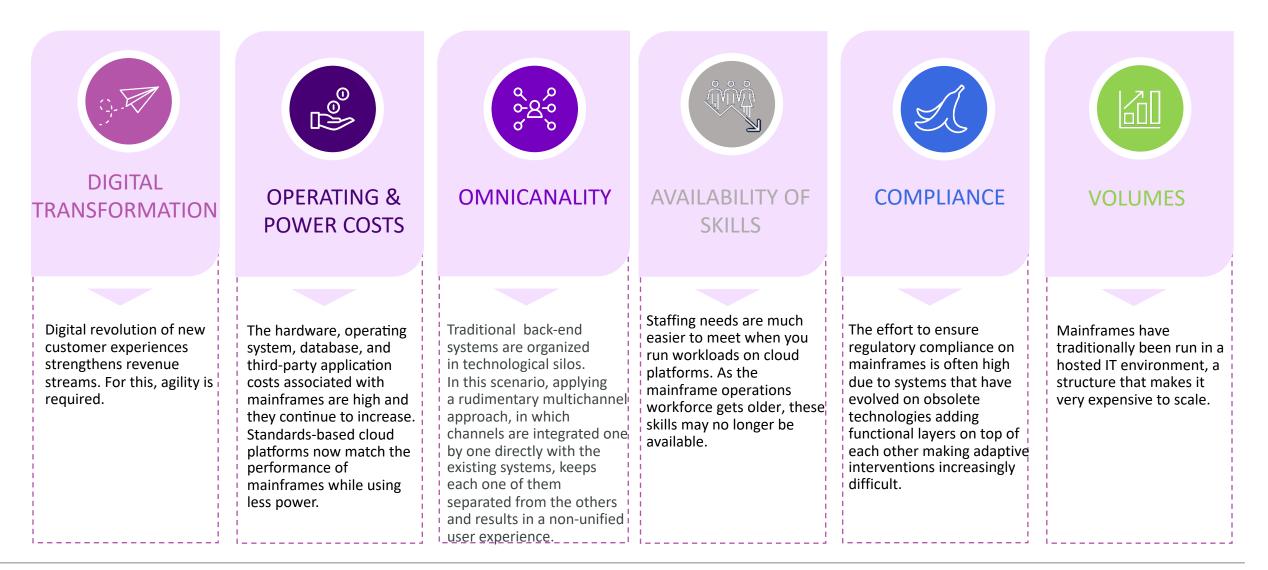
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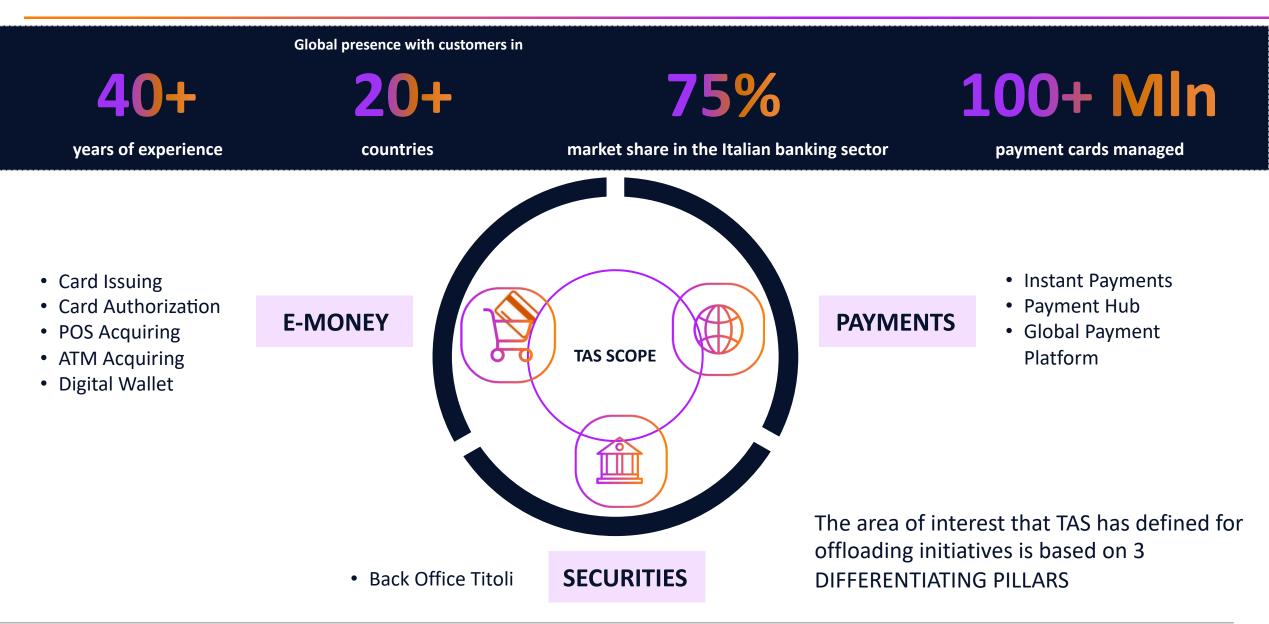
Why mainframe offloading



KEY REASONS TO MAKE THE MOVE



TAS field of action



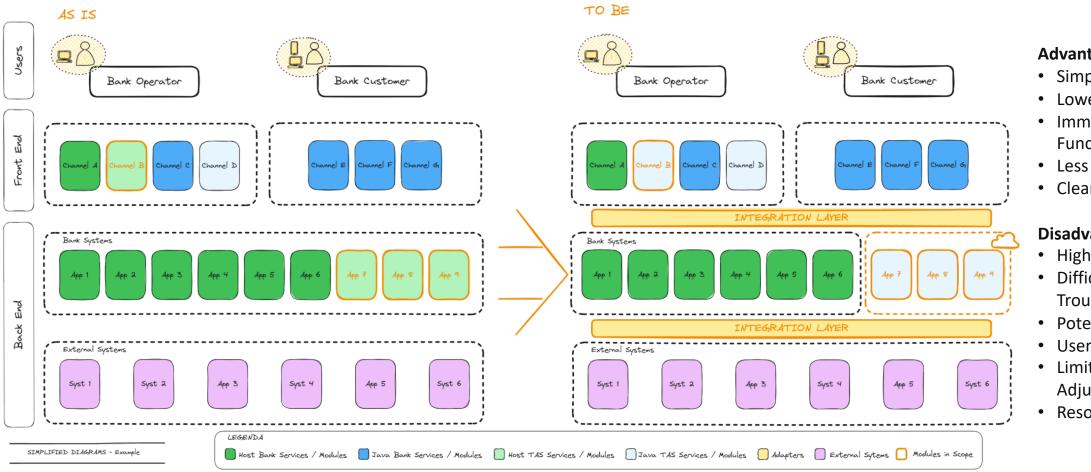
Guidelines



GENERAL PI	GENERAL PRINCIPLES			
ARCHITECTURAL	 Infrastructure that replicates the instances currently present with vertical and horizontal scalability Integration layer on the online channels side Integration subsystems Integration subsystems Integration subsystems Integration subsystems Integration subsystems 			
MINIMIZING OPERATIONAL IMPACTS	 Maintaining Branch Interfaces Platforms parallelism - duality Creation of new products Migrating existing applications - flexibility 			
DATA MIGRATION	 Maintain historical files from DB2, generate new files, migrate data during project creation of an intermediate layer that decouples both calls and data Maintain and feed the existing DB2 database to minimize impacts on existing batch components Review of batch procedures used by external applications 			
CERTIFICATION	 PCI Swift EBA Regulatory Technical Standards 			
OPERATIONS	 New Monitoring DevOps (CI/CD) Ticketing cycle Integration 			
PROJECT	 Sharing the principles and methods of engagement Operational management and performance methods Containment of duality management (if not Big Bang) Definition of check points on the correctness of migration and operational data 			

Reference models for transformation (1/2)

BIG BANG OR MICRO BIG BANG

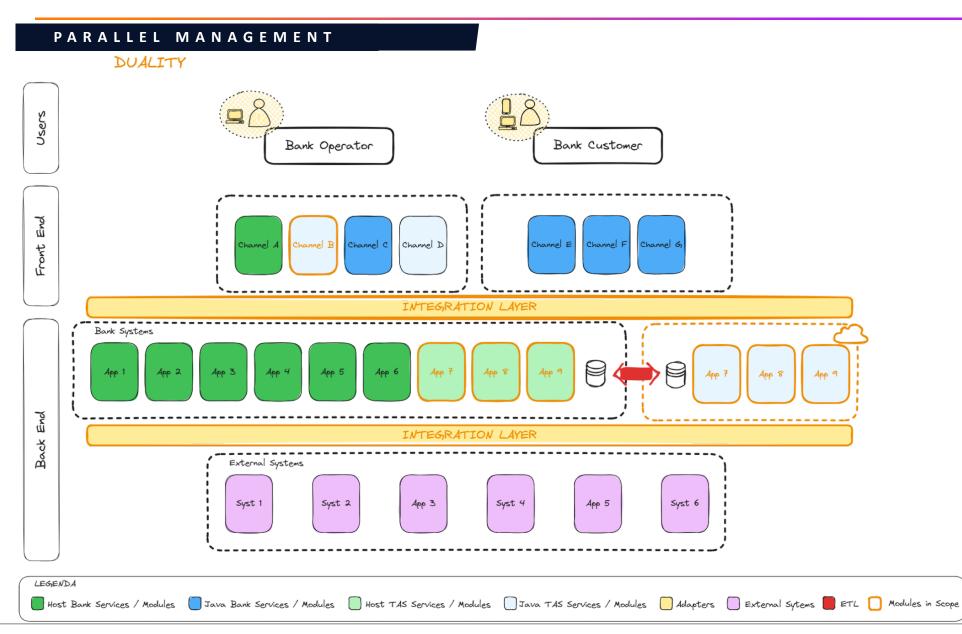


Advantages

- Simplicity of Planning
- Lower Long-term Costs
- Immediate Full Functionality
- Less Time-Consuming
- Clear Transition

Disadvantages

- High Risk
- Difficult to Test and Troubleshoot
- Potentially Disruptive
- User Adaptation Challenges
- Limited Flexibility for Adjustments
- **Resource Intensive**



Advantages

- Gradual and controlled evolution
- Lower Risk
- Minimal Disruption
- Easier to Manage and Test
- Flexibility

Disadvantages

- Longer Duration
- Higher Costs
- Complexity in Synchronization

DevOps models



Metrics for Code Quality, Security and Testing

- Continuous integration (CI) and continuous delivery/deployment (CD) aims to streamline and accelerate the software development lifecycle.
- CI refers to the practice of automatically and frequently integrating code changes into a shared source code repository.
- CD is a second part process that refers to the integration, testing, and delivery of code changes.
- Continuous delivery is not sufficient for automatic production deployment, while continuous deployment automatically releases the updates into the production environment.

MAIN BENEFITS

- CI/CD helps organizations avoid bugs and code failures while maintaining a continuous cycle of software development and updates.
- CI/CD can help decrease complexity, increase efficiency, and streamline workflows.
- Because CI/CD automates the manual human intervention traditionally needed to get new code from a commit into production, downtime is minimized and code releases happen faster.

Thank you!

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