
AWS
re:Invent
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ENT207

Unlock mainframes with AWS augmentation patterns

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Agenda

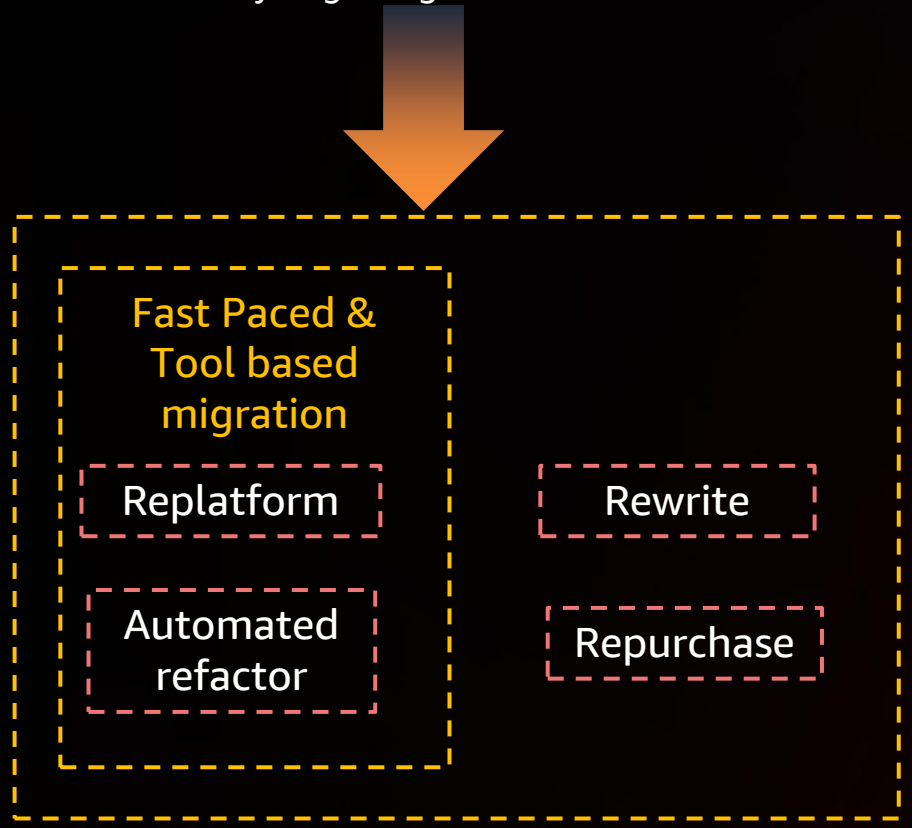
- AWS Mainframe Modernization
- AWS Mainframe Augmentation Patterns (Four)
- What's new? Quick Introduction.
  - AWS Mainframe Modernization technology
  - AWS Data Integration and Modernization (New)
  - AWS Mainframe Modernization – Managed Service
- Q&A and White Boarding – Dive Deep into design and solution

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AWS Mainframe Modernization patterns

Migration and Modernization

Reduce cost, increase agility, reduce technical debt and risks by migrating workloads to cloud



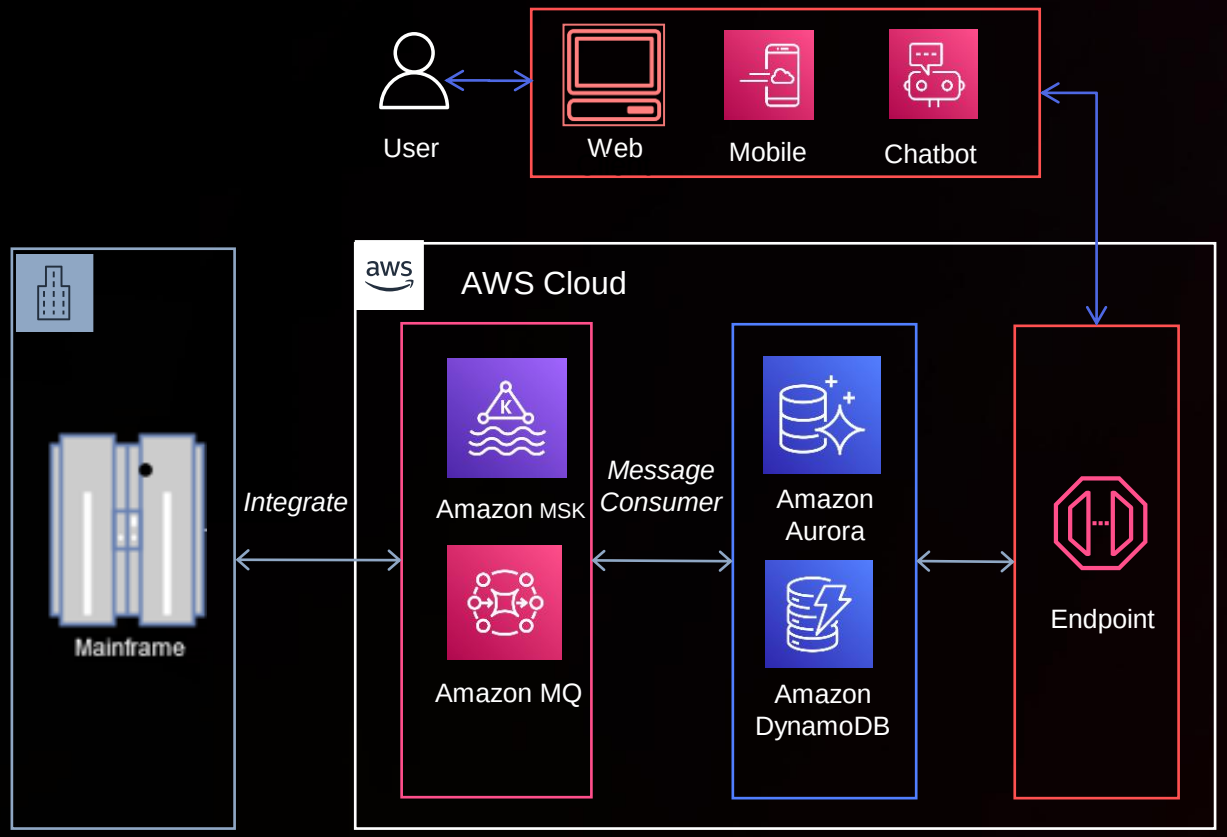
Augmentation and Integration

Unleash value from Mainframe data by providing agility and innovation with cloud services



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New channels / New functions



Build new cloud native applications using the realtime data movement to AWS.

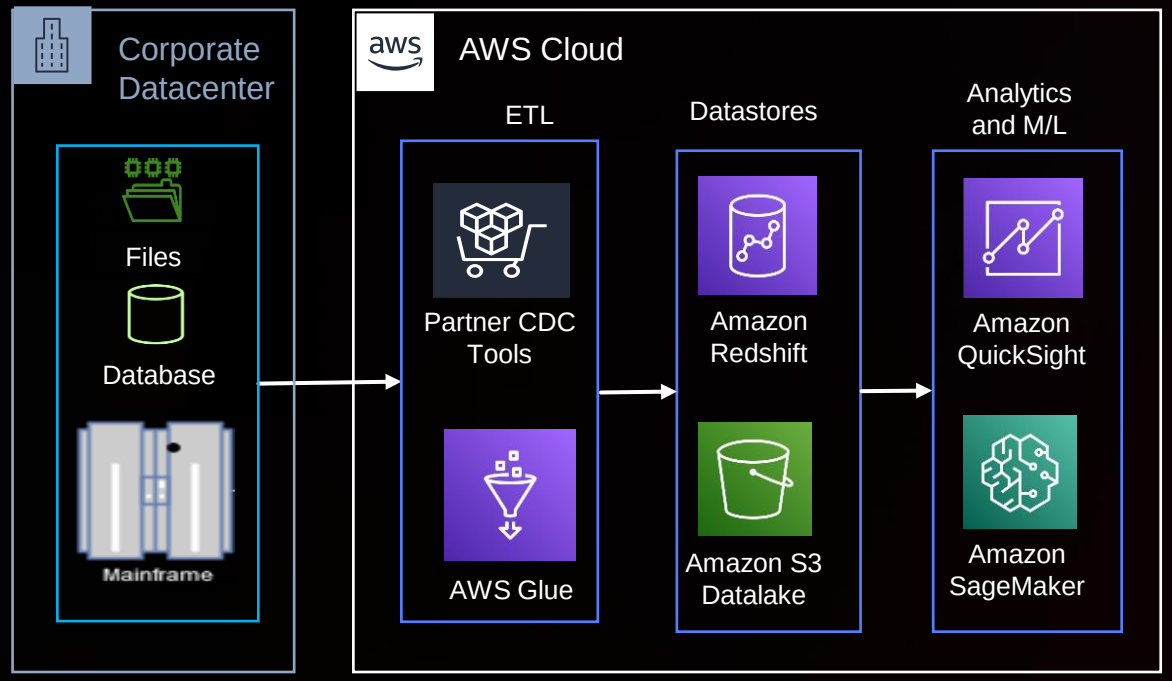
- Data closer to cloud native applications
- Realtime data streaming from mainframe
- Start with inquiry services (Reduce MIPS Cost)
- Distributed architecture with CQRS pattern
- Offload business functions with strangler pattern

Vanguard is using this pattern to reduce mainframe costs and ease application maintenance for new microservices on AWS.

Capital One is using this pattern to build new digital and mobile channels with mainframe transactional data and expanding AWS solution to gain more business value.

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Data analytics from mainframe data



Allow customers to generate insights through analytics by utilizing live and historic data

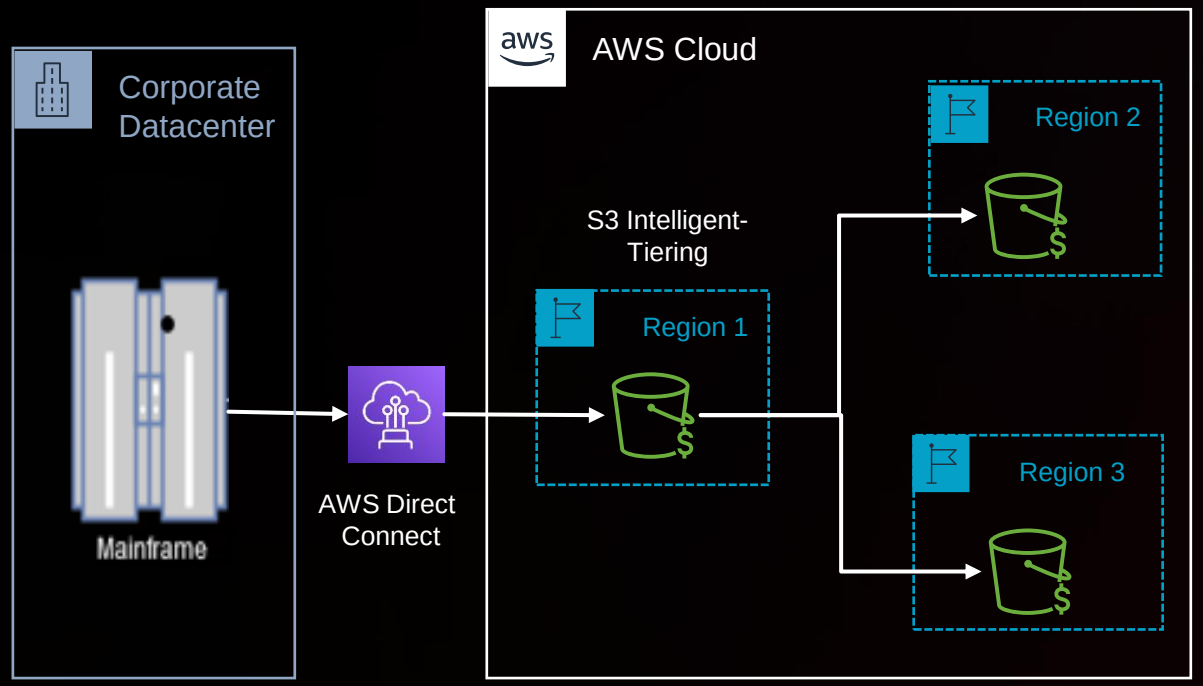
- Break down data silos by building a data lake to serve as central repository of data
- File based data transfer
- Log based replicators to support major databases
- Transaction manager exit or trigger based replicators

AMTRAK

High-speed intercity passenger rail provider facilitates near real time dashboards, reports, and advanced analytics. Paved path for decommissioning legacy system and anticipating to save at least $1M over 3 years.

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Backup and archival with cloud storage



Enhanced archival, backup, and recovery capabilities with the global distribution of AWS Regions, designed for high durability, low response times, and cost effectiveness

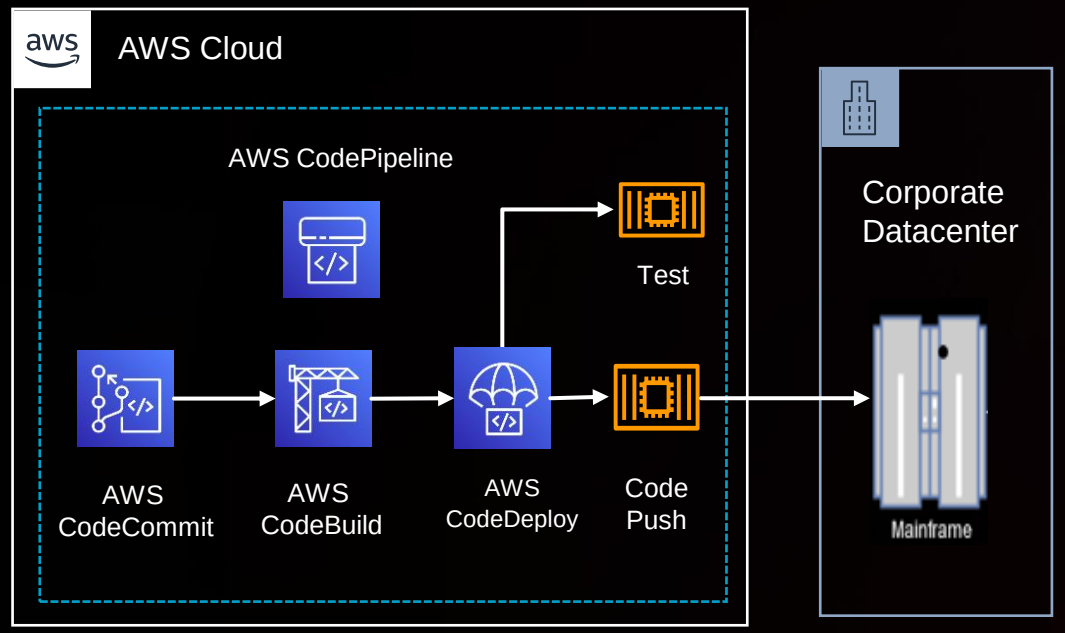
- 11 9's of durability
- Intra and inter region replication available
- Storage tiering for cost effectiveness
- Allows global recovery strategies

FRANCE GALOP

France Galop is leveraging this pattern to eliminate their mainframe tape and backup software to back up long retention data from on premises to AWS

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Development and test with DevOps



Increased agility can be achieved with the implementation of automated CI/CD pipelines through the integration of cloud services and mainframe.

Some advantages include:

- Reduced development cycle
- Increased software quality through testing
- MIPS reduction for Dev/Test environments

An Australian Bank took advantage of this pattern to increase their agility and improve time to market of application development on core applications.

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What's new?
AWS Mainframe Modernization technology

Refactor

AWS Mainframe Modernization
Blu Age Refactor
modernizes with automation the complete application software stack, infrastructure, and processes



Replatform

AWS Mainframe Modernization
Micro Focus Replatform
preserves application assets with minimal changes while modernizing the infrastructure and processes



Data Replication

AWS Mainframe Modernization
Precisely Data Replication
replicates data changes from mainframes to AWS unleashing data-based innovations and use-cases



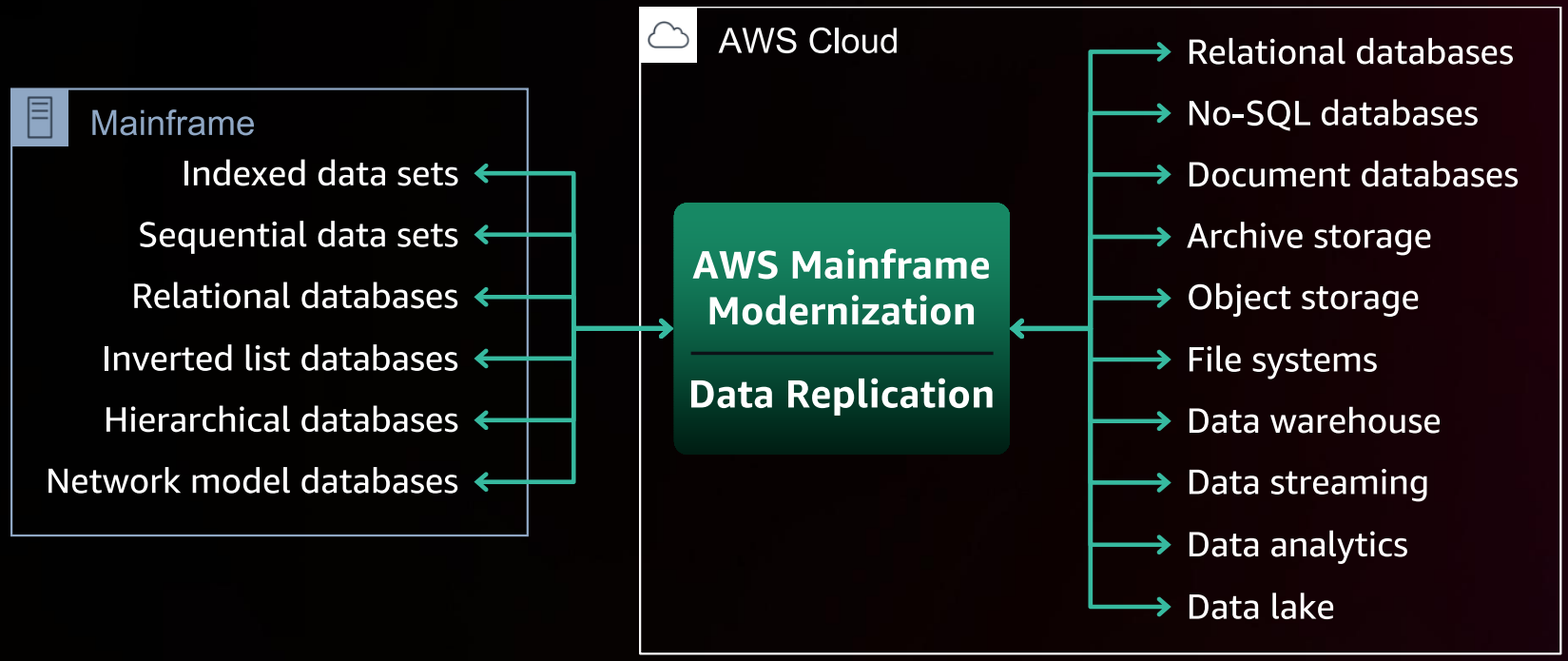
Technology integrated within AWS Mainframe Modernization service

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What's new? AWS Mainframe data integration and modernization

Unleash data-based innovations leveraging choice of AWS services:

- Precisely Data Replication for AWS Mainframe Modernization

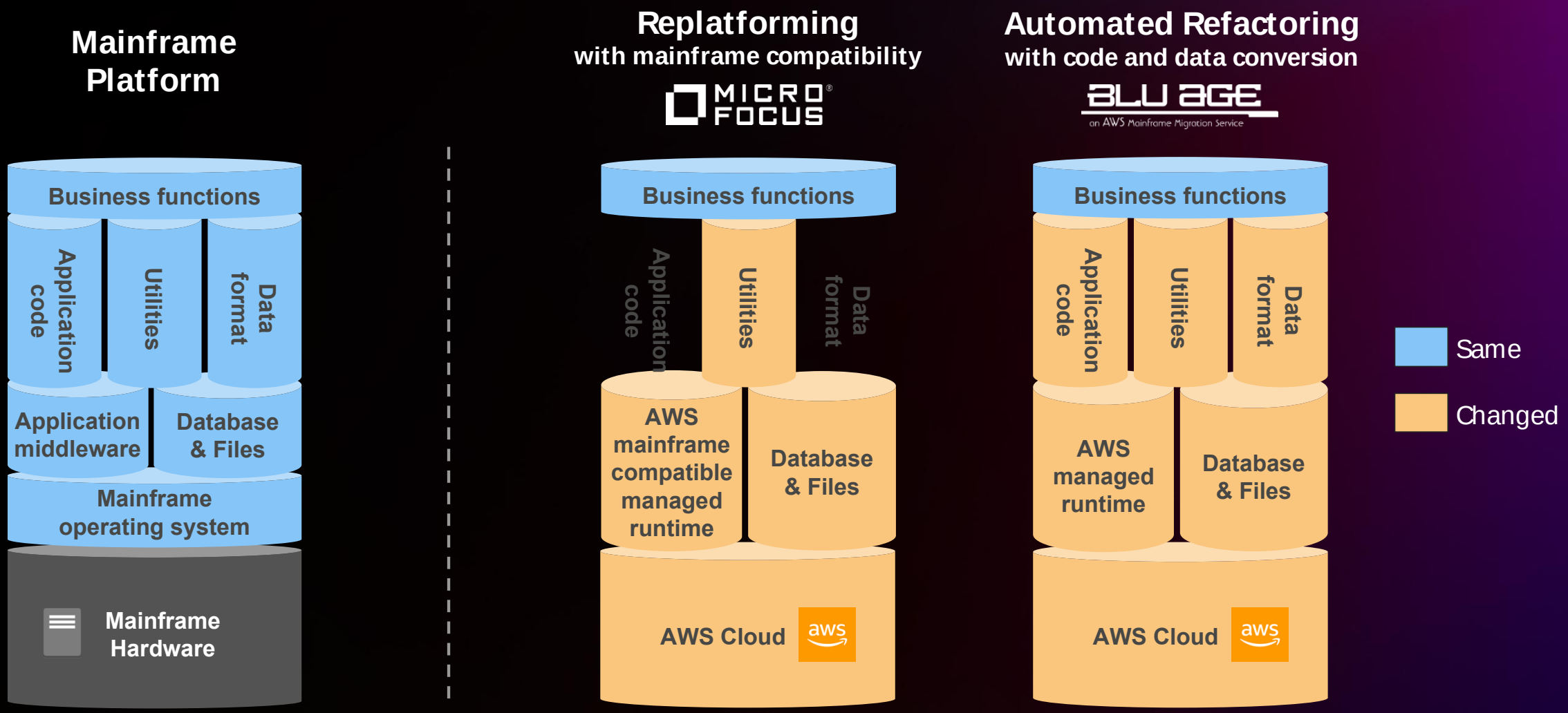


Use cases:

- Data analytics
- New channels
- Processing offload
- Data science, AI/ML
- Augmentation patterns
- Large migration transitional architectures

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Migration and modernization patterns

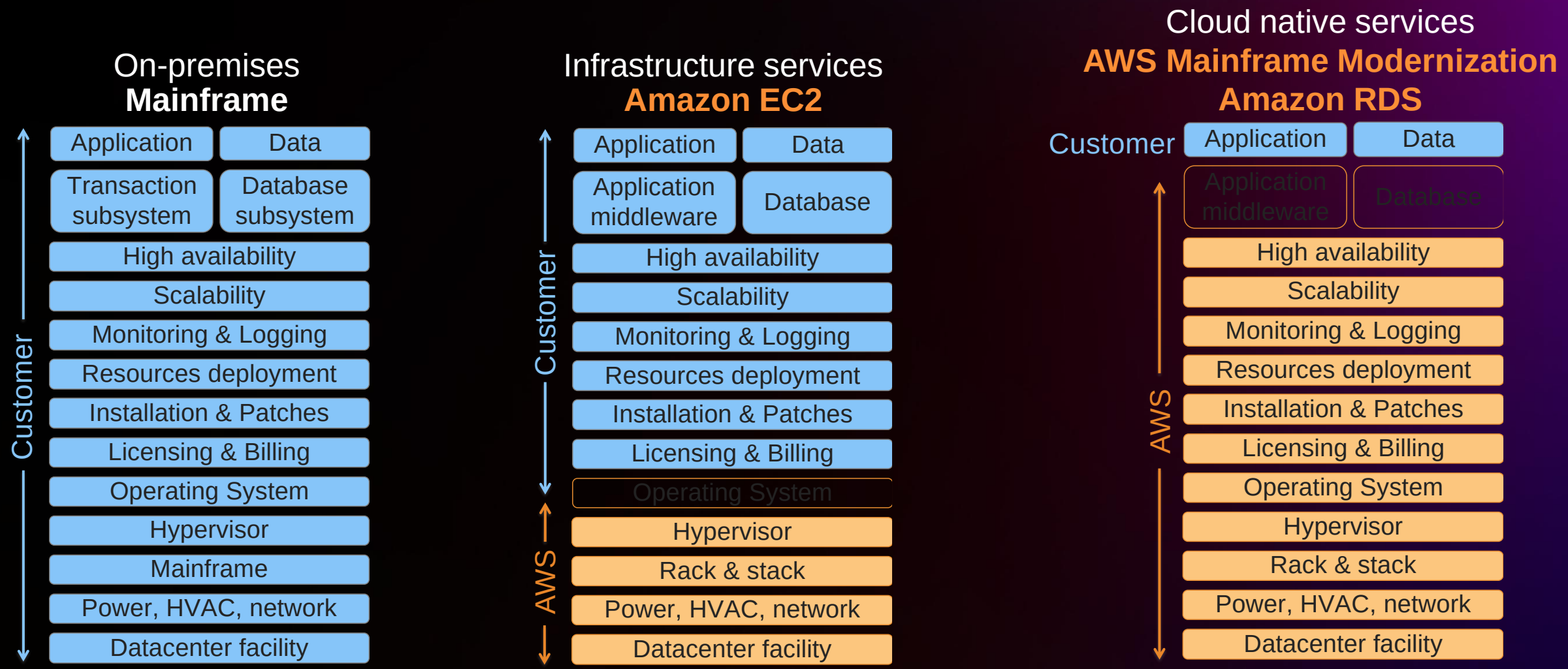


Business functional equivalence is essential for automation and project speed

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AWS Mainframe Modernization – Managed service

- ✓ Comprehensive infrastructure resources, automation, integrations to AWS services and interfaces within AWS Console and AWS CLI
- ✓ Not a Managed Service Provider (MSP) offering



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Spend time innovating and building new capabilities, not managing infrastructure

Q&A – Open for discussion

White boarding

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Thank you!

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