

Application Modernization in the Software Industry

Main Takeaway:

Revitalize legacy systems by following a structured three-phase pipeline, choosing the right “R” strategy, and adopting cloud- and DevOps practices to unlock agility, cost savings, and resilience.

Slide Layout

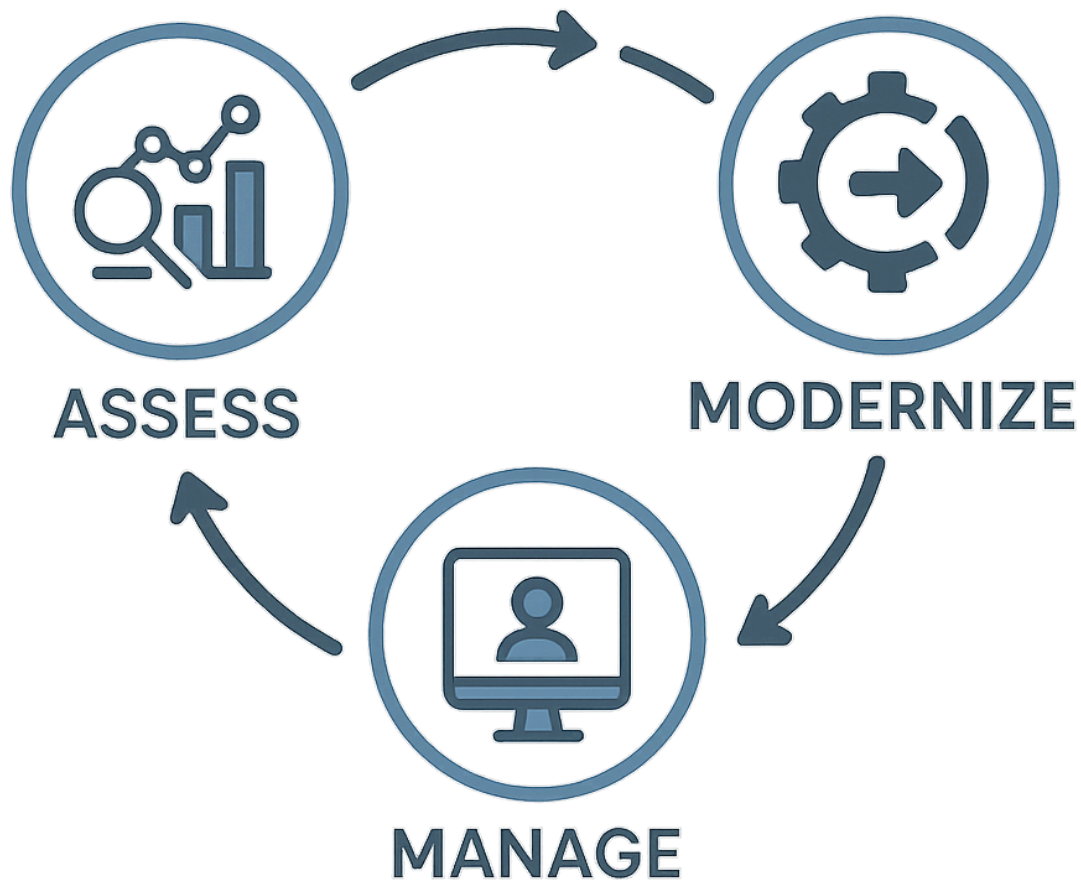
Title:

Application Modernization Overview

1. Three-Phase Pipeline

- **Assess:** Inventory legacy apps and dependencies.
- **Modernize:** Apply one of the “7 R” strategies.
- **Manage:** Monitor and continuously optimize.

MODERNIZATION PIPELINE

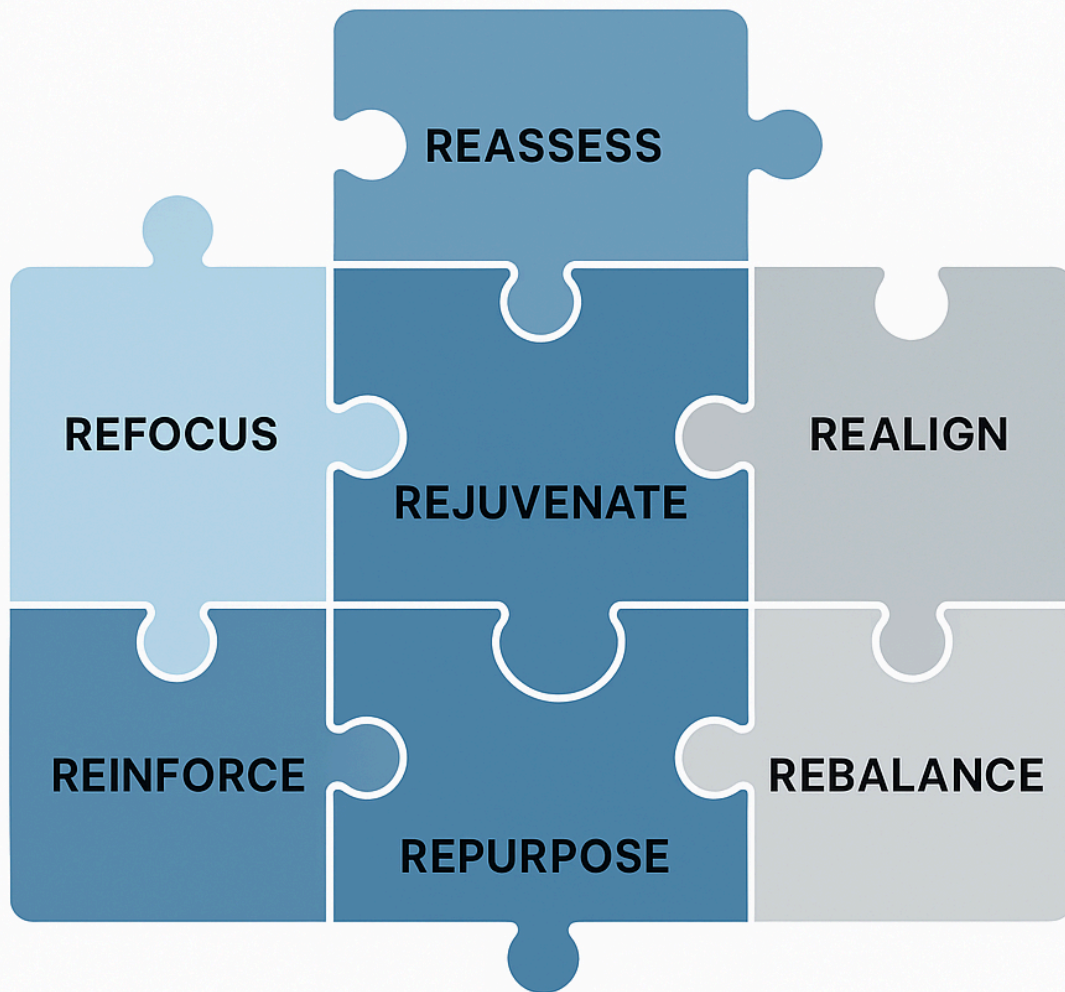


Application modernization phases pipeline

2. "7 R" Modernization Strategies

Visualize each strategy—Replace, Rehost, Replatform, Refactor, Rearchitect, Rebuild, Retire—interconnected as puzzle pieces to show how organizations mix and match approaches.

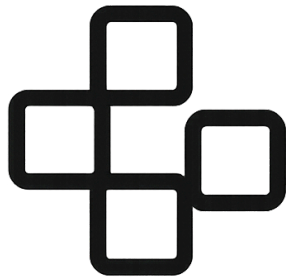
7 R MODERNIZATION STRATEGIES



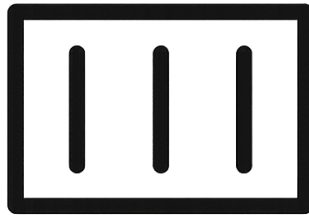
7 R modernization strategies puzzle diagram

3. Cloud-Native Patterns

Icons and labels for Microservices, Containers (Kubernetes/Docker), and Serverless functions, illustrating how modern architectures support scalability and resilience.



Microservices



Containers



Serverless

Cloud-native architecture patterns

4. Key Best Practices (Bullet Column)

- Conduct comprehensive legacy assessment
- Align roadmap with business KPIs
- Deliver incrementally via DevOps/CICD
- Enforce governance, security, and compliance

Footer:

Metrics: Deployment frequency ↑, MTTR ↓, Cost per app ↓, Uptime 99.9%+

Sensor Icon - Clock Icon - Cost Icon - Shield Icon

Notes for Presenter:

- Introduce the three phases with a simple example application.
- Emphasize selecting the right “R” based on complexity and ROI.
- Highlight how cloud-native services reduce operational burden.