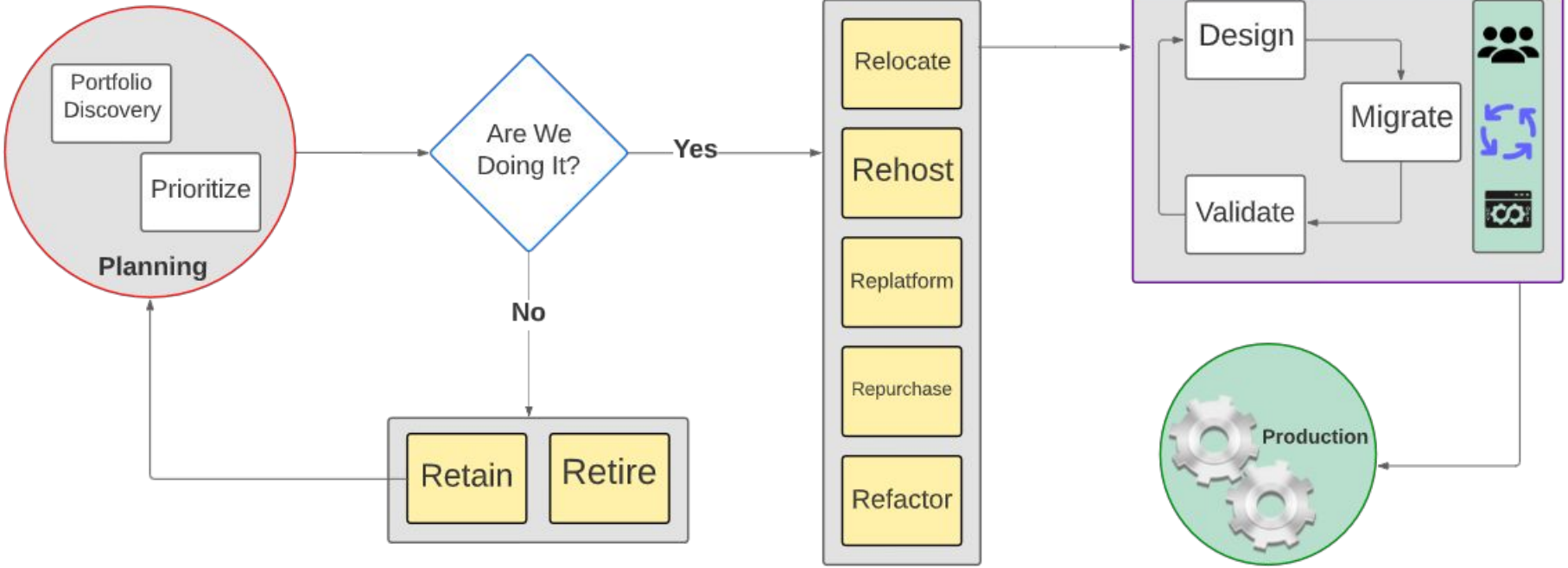
Cloud Migration Strategies

Migration Event Considerations

- Leases - Data center
- Upgrades - Aging Hardware
- Licensing - Software
- Compliance - Industry and Governmental Regulations
- Opportunities - New markets
- Additional Funding
- Other opportunities
- Other threats (e.g. loss of markets, innovation, attrition, etc.)

Cloud Migration Steps

Cloud Migration Strategies (7 R's)



Migration Process / Workflow

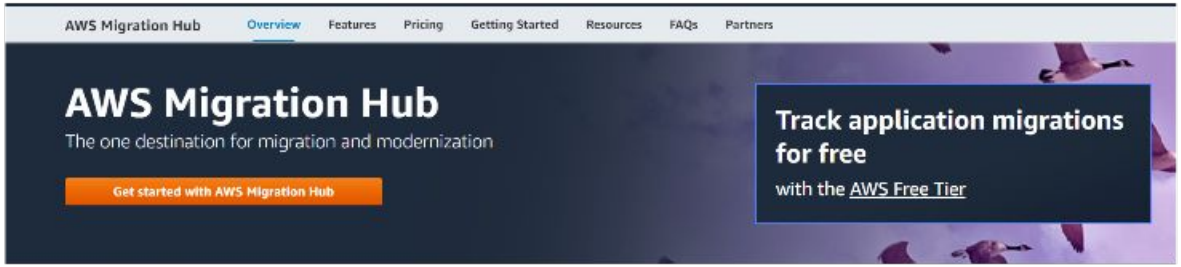
Relocate

Containers / VMWare Cloud on AWS

https://aws.amazon.com/vmware/

Rehost

Lift and Shift

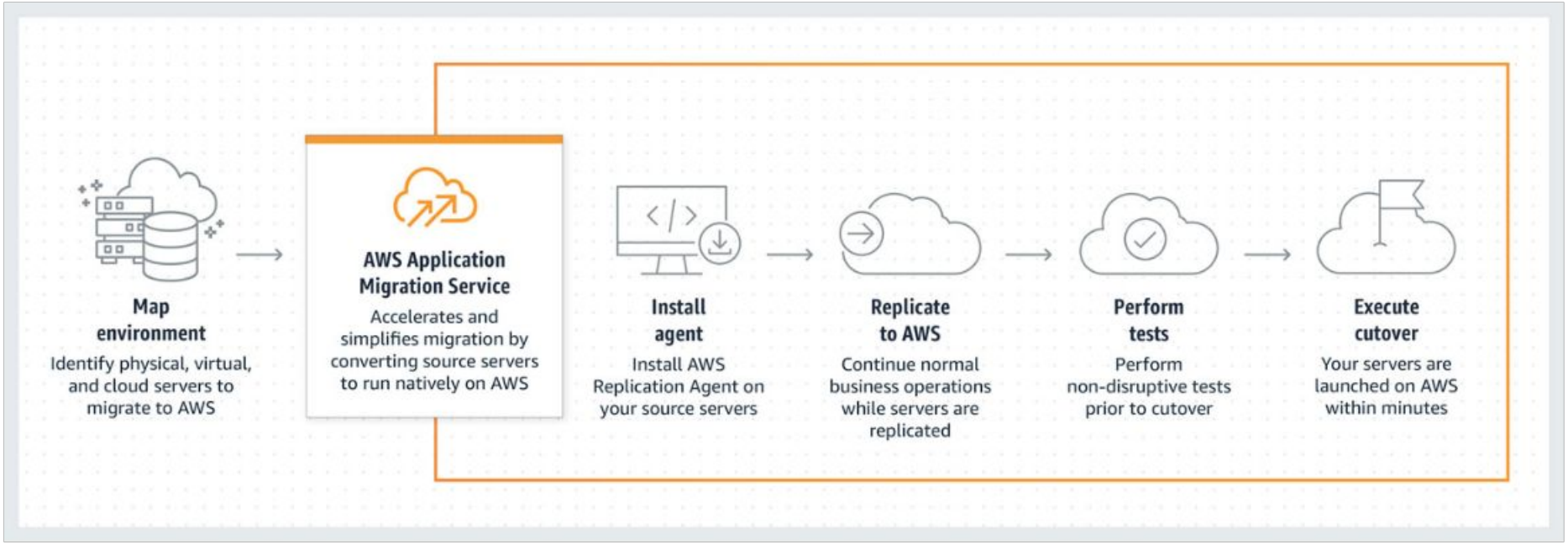


- "Lift and Shift"
- Manual or managed migrations
- Faster migration
- Develop team expertise
- Cloud optimizations for future development

https://aws.amazon.com/migration-hub/

Rehost

Lift and Shift



https://aws.amazon.com/migration-hub/

Replatform

Lift, Tinker and Shift

- Like Rehosting (Lift and Shift) with..
- Some cloud optimizations
- e.g. Database migration to cloud native
- **Immediate benefits**
  - fault tolerance
  - updates
  - automated backups

https://aws.amazon.com/dms/

Replatform

Database Migration Service

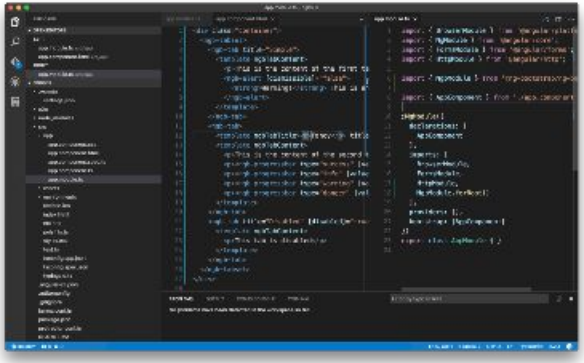
https://aws.amazon.com/dms/

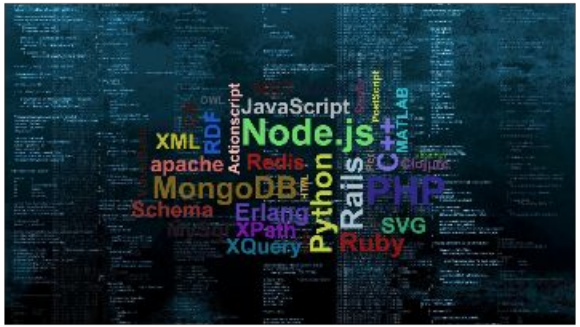
Repurchase

SaaS and COTS

Refactor

Re-architect

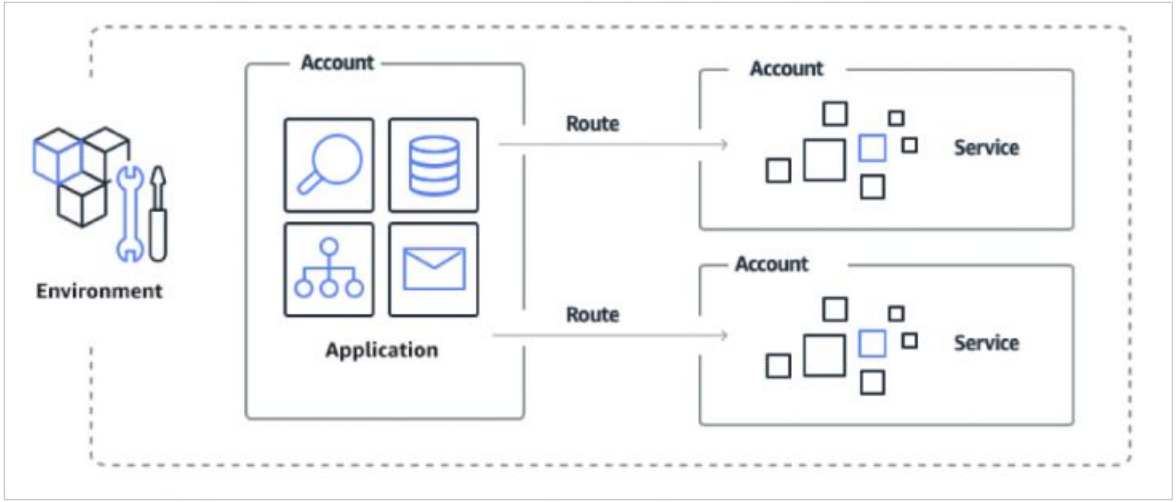




- This can be the "fun" stuff
- Redesign application
- Cloud-native
- Often more complex than anticipated
- Significant investment in time, money and team development
- Adopt full SDLC
- Integration with existing business processes

Refactor

AWS Migration Hub Refactors Spaces



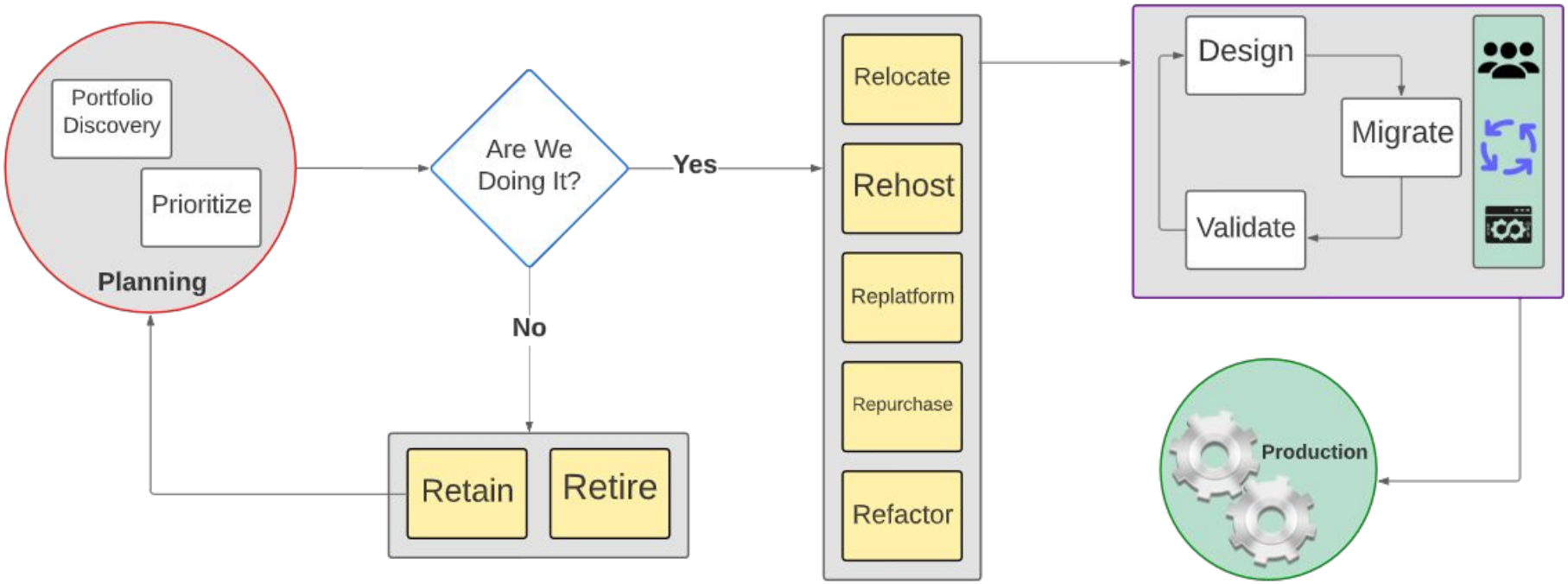
- Begin with 3 accounts
  - 1. legacy app
  - 2. new microservice
  - 3. refactored env
- Refactored Env Provides
  - Unified networking
  - TGx orchestration
  - VPC orchestration
  - RAM orchestration

https://aws.amazon.com/blogs/enterprise-strategy/new-possibilities-seven-strategies-to-accelerate-your-application-migration-to-aws/
https://aws.amazon.com/blogs/aws/new-aws-migration-hub-refactor-spaces-helps-to-incrementally-refactor-your-applications/

Recap - Cloud Migration

Cloud Migration Strategies (7 R's)

Migration Process / Workflow



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- (Part 3) https://aws.amazon.com/blogs/enterprise-strategy/6-strategies-for-migrating-applications-to-the-cloud/

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- https://aws.amazon.com/solutions/case-studies/uwi-open-campus/