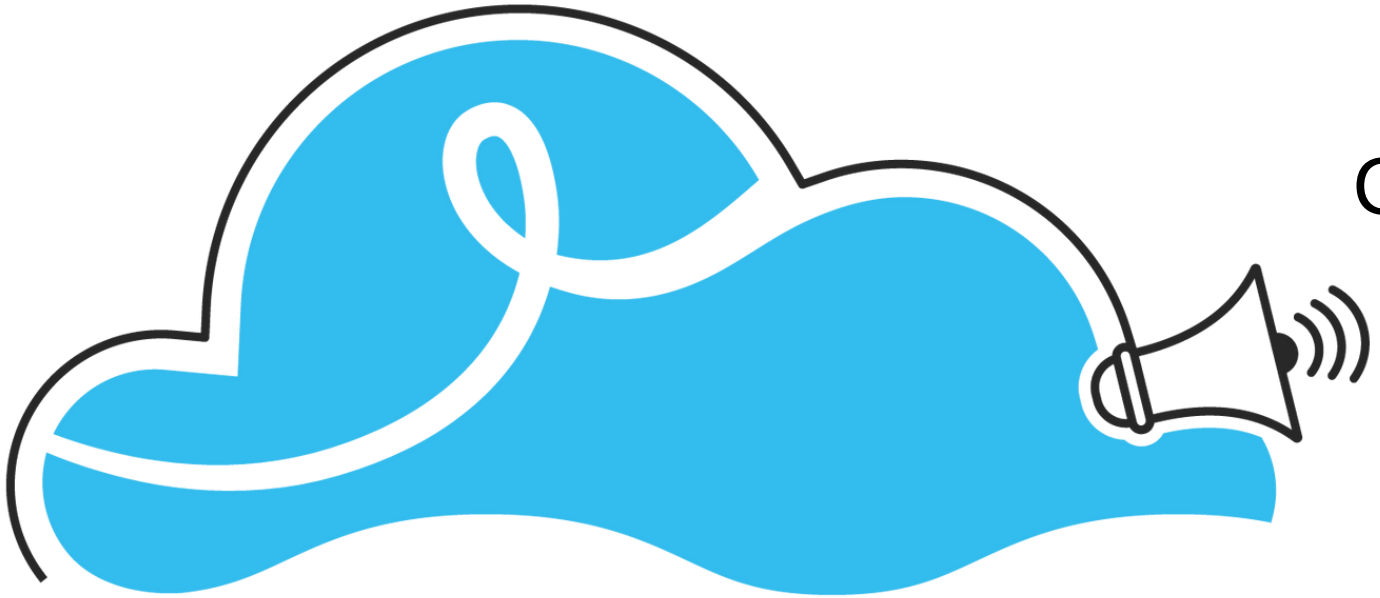

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Community

Qlik

DATA ANALYTICS

LINUX FOUNDATION

INFOSEC Skills

TECH PLATFORM

OUR COMMUNITY

ABOUT US

Cloudnloud was started 11 years back with an intention of up-skilling and up-scaling all our members on the technical front with the niche topics around Cloud, DevOps, Data, AI and much more.

Cloudnloud was started by me, a cancer survivor since Jan 2011. I am helping the tech community and Cancer Children for the past 2 decades to loud from their own confidence in the IT industry. Officially registered as Pvt. Ltd. on Jan-2015, to extend help to cancer children from its revenue. Today Cloudnloud is living that dream with 7000+ cancer children survivors.

About Me

- Vijayabalan 24+ years experience in infrastructure managed services. A seasoned IT infrastructure professional with specialization in Linux and Middleware.
- Holding 189 certifications
- Holding 89 research Patterns in Data, Artificial Intelligence, Robotics
- Saved 7689 cancer children from their death
- Giving support for 4807 plus children education post their cancer recovery.

Currently Working as a Senior Engineering Architect in European Commission.

My Linkedin - https://www.linkedin.com/in/vijaystack/

OUR TEAM

Right from Solution Architects to Managers, you name it we have it. Our core team consists of like-minded professionals working in unison toward the same goal.

With techno-functional techies we are a strong team with various areas of expertise louding better!!!

Our Objective

- We want to building a passionated technical community wish to contribute for Childhood cancer.
- We also want a platform for the individuals want to share their knowledge for the benefit of the community.
- Mentoring the technical community members to grow in their career through helping them to present in conference, technical live events and webinars.

CHILDHOOD CANCER

CloudnLoud Community

Our Strength

- 4000 + Technology Meetups on Cloud & DevOps delivered across globe.
- Successfully delivered 640 corporate trainings and delivered 2000+ college trainings.
- Given career mentoring & Training to 1lakh + professionals in this 17 years

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Learner's

cloudnloud Tech Community

cloudnloud

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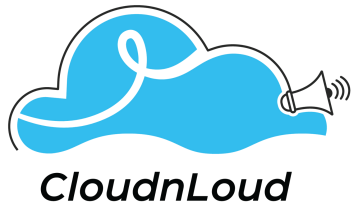

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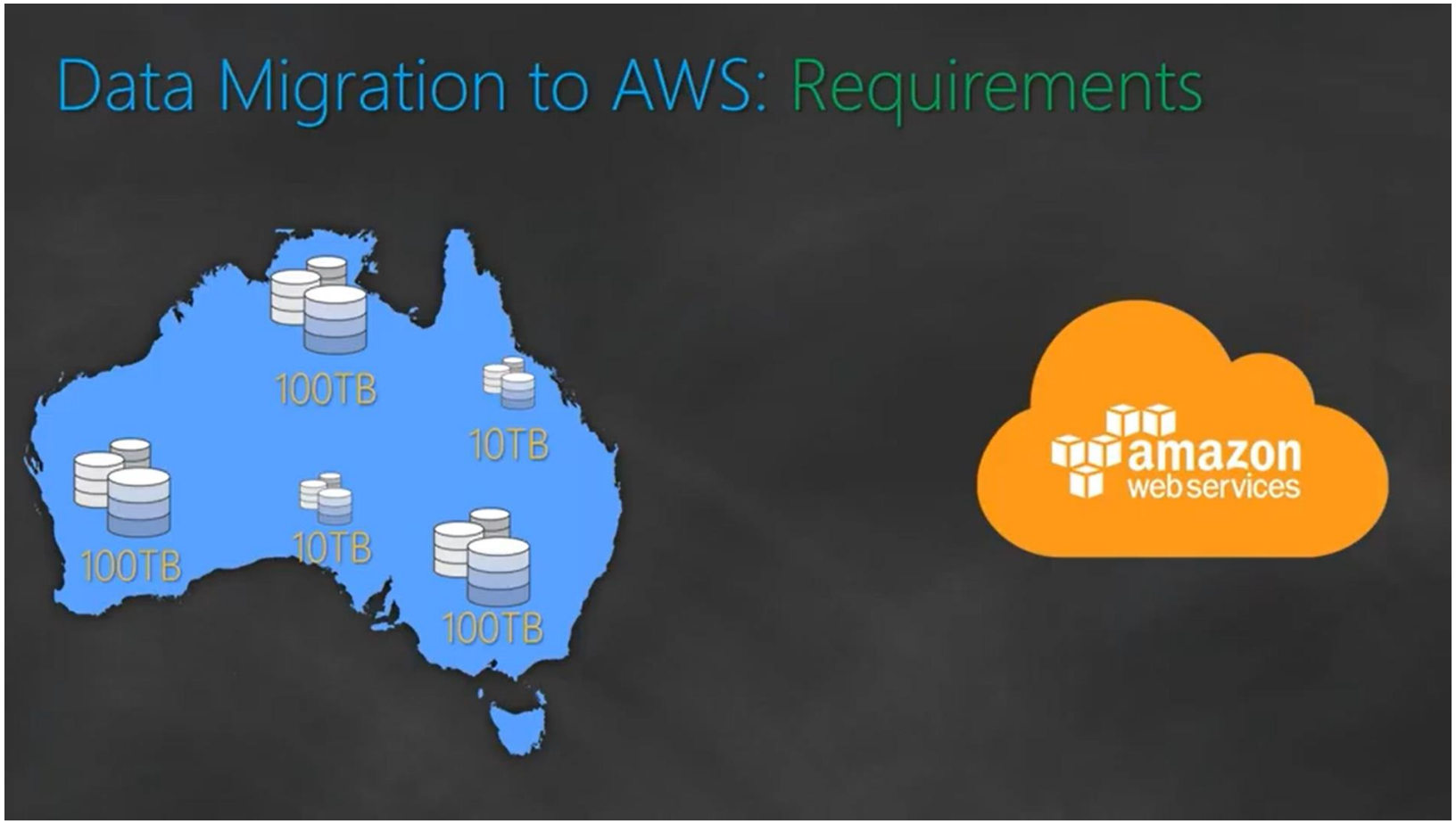

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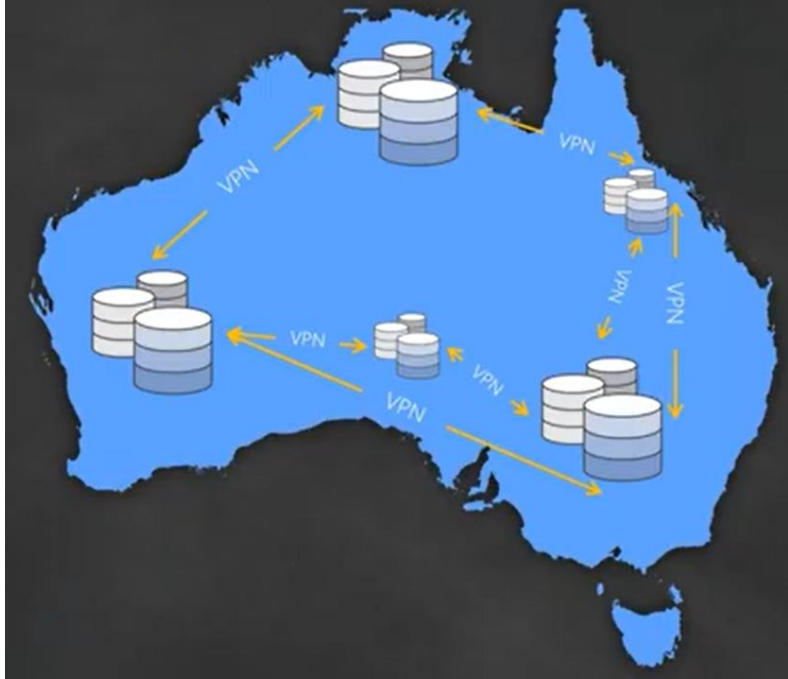
Data Migration to AWS: Requirements

CloudnLoud Community

Data Migration to AWS: Requirements



- [ ] Move all 300+ TB to cloud
- [ ] Transport data securely in shortest time frame
- [ ] Onsite technical knowledge in remote sites is negligible
- [ ] Corporate VPN connecting all sites is readily available

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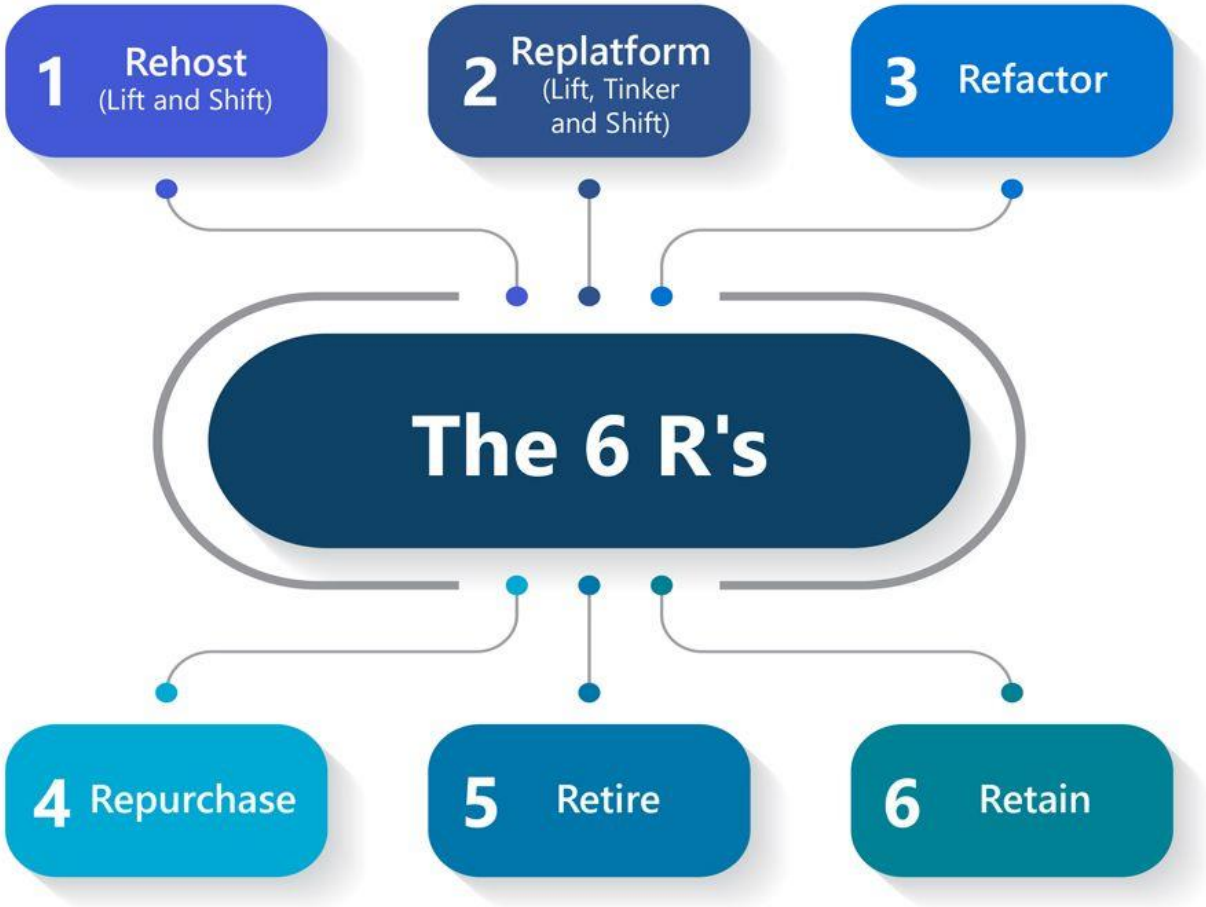

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The 6R's in Cloud Migrations

(Second Pass Assessment)

The 6R's in Cloud Migrations

Retain

Retire

Rehost

Replatform

Refactor

Repurchase

1st R - Retain

Not moving

Continuing to operate in the current environment

Unsupported OS / application

- Financial reason e.g. riding out depreciation
- Business justification e.g. just recently upgraded

Retain

2nd R - Retire (Get rid of)

Decommissioning

Getting rid of applications / resources no longer needed

Duplicate resources due to M&A

Existing decommissioning program

Clustered hosts for DR / HA

Retain **Retire**

3rd R - Rehost

Lift and Shift

Fast, predictable, repeatable, and economical

Minimal changes to operate in the cloud

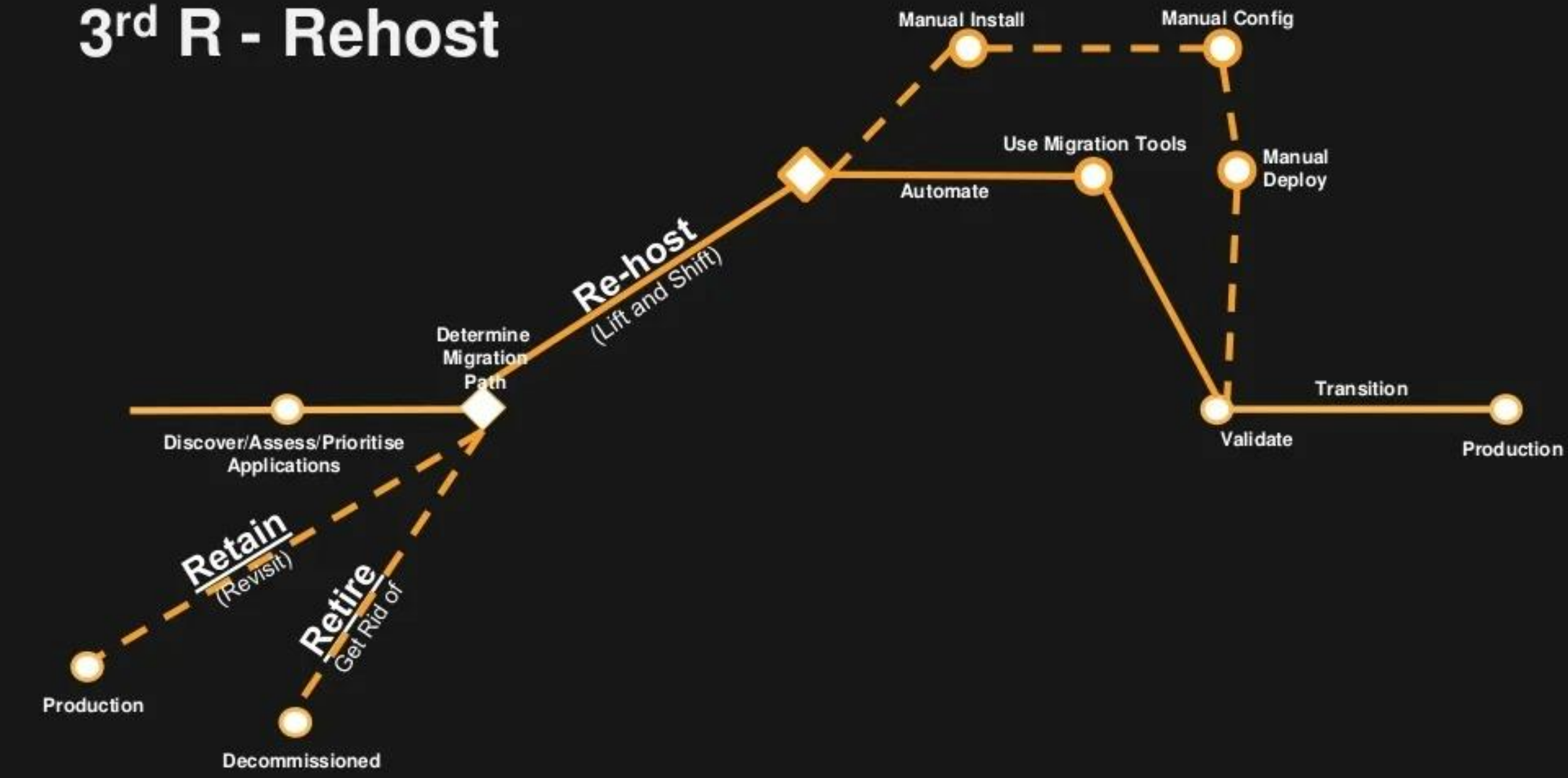
Packaged software applications

Applications without an active roadmap

Ad hoc applications, no access to source code / vendor

Retain	Retire	**Rehost**

3rd R - Rehost



Retain | Retire | Rehost

4th R – Replatform

Changing the platform only

Some changes to applications may be needed

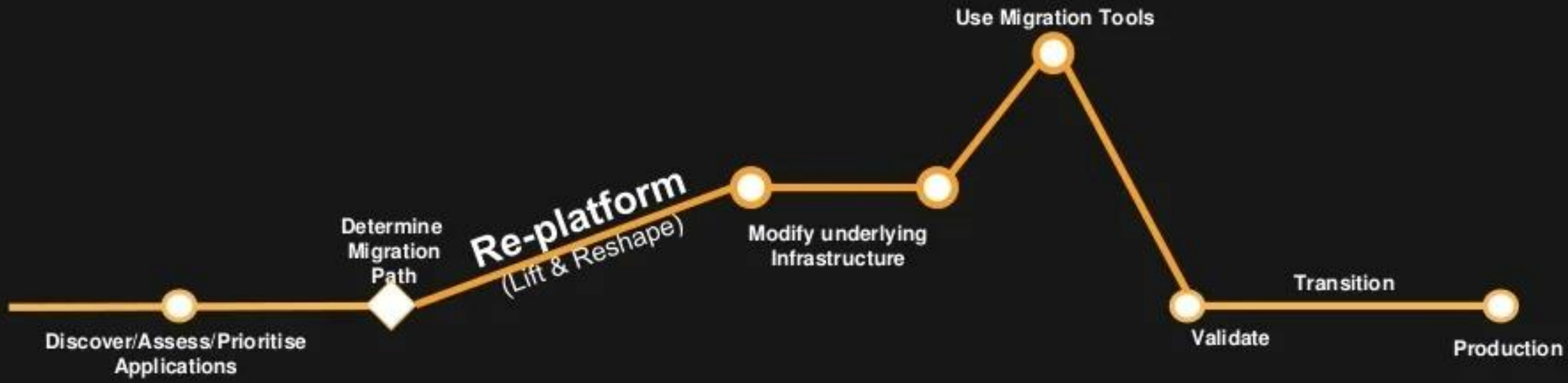
Current OS platform going out of support

Current DB engine not fit for purpose

Changing hardware architecture

Retain	Retire	Rehost	**Replatform**

4th R – Replatform



Retain	Retire	Rehost	**Replatform**

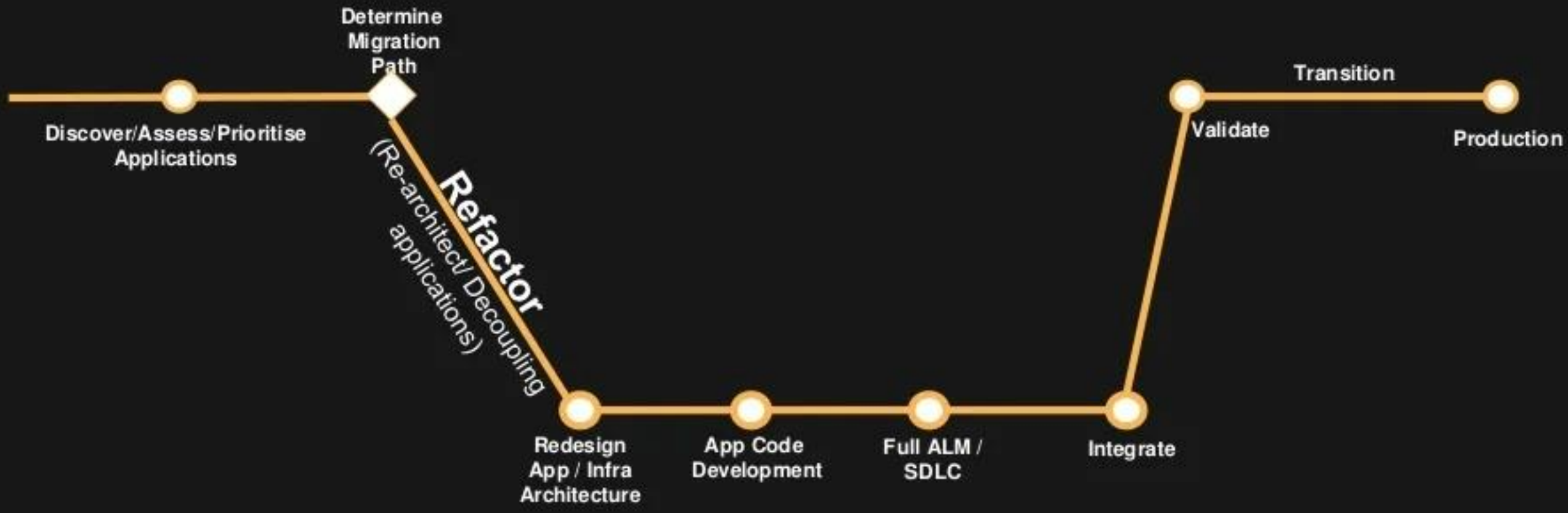
5th R - Refactor

Architecting as cloud native applications
Major or Minor changes to application design & code

Leverage cloud benefits
Achieve the best optimised environment
Save costs by agility, productivity and speed

Retain	Retire	Rehost	Replatform	**Refactor**

5th R - Refactor



Retain	Retire	Rehost	Replatform	**Refactor**

6th R – Repurchase (Replace)

Replacing with better alternatives
Choosing SaaS or cloud friendly licensing

Legacy applications with licensing constraints
Cloud offerings available
Leverage SaaS model over PaaS / IaaS model

Retain	Retire	Rehost	Replatform	Refactor	Repurchase

6th R – Repurchase (Replace)

Retain	Retire	Rehost	Replatform	Refactor	Repurchase

6th R – Repurchase (Replace)

Operating Systems

CentOS

debian

Windows

ubuntu

Networking

CISCO

BROCADE

CITRIX

f5

riverbed

Storage

NetApp

SoftNAS

COMMVAULT

N2W software

Security

SOPHOS

paloalto

Barracuda

TREND MICRO

intel Security

Database

TERADATA

SAP

MAPR

DATAGUISE

Couchbase

Media

Adobe

aspera

SIGNIANT

WOWZA Streaming Engine

DevOps

CHEF

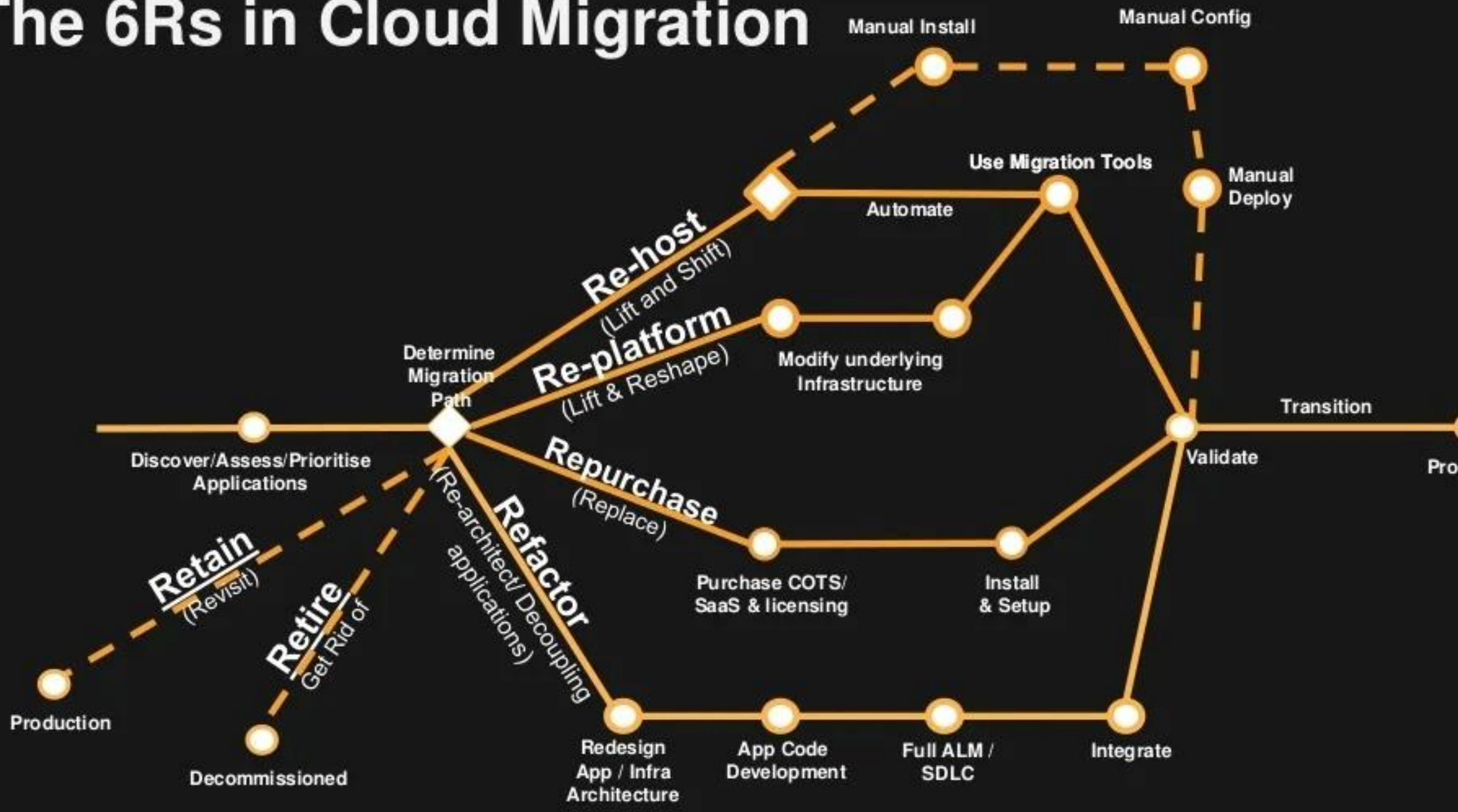
Parse Server

GitLab

Hewlett Packard Enterprise

Retain | Retire | Rehost | Replatform | Refactor | **Repurchase**

The 6Rs in Cloud Migration



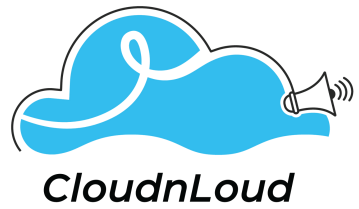
Comparing Cloud Migration Strategies

	Time	Cost to Migrate	Cost to Operate	Agility
Retain	+	+	++++	
Retire	++	+		
Rehost	++	++	+++	++
Replatform	+++	+++	++	+++
Refactor	++++	++++	+	++++
Repurchase	+++	+++	++	+++

Private, Public and Hybrid Cloud Comparison:				
Sr. No.	Comparatives	Private Cloud	Public Cloud	Hybrid Cloud
1.	Environment	Physical, Dedicated and secure	Outsourced and Insecure	Outsourced but Security implemented
2.	Suitable for	Government agencies and Industries	Software Development and Testing	Big Organizations and MNCs
3.	Investments	Required	Free / Less	
4.	Work Load	Average	High Scalability and Flexibility	High and Extendable
5.	User	Specific Number	Specific Number	
6.	IT Expertise	Required	Not Required	Required
7.	Pricing	Expensive	Flexible	Expensive
8.	Performance & Efficiency	Average	High	High
9.	Security	High	Normally Average but High if implemented correctly	Better than Public cloud
10.	Control on Infrastructure	High	Low	Partly
11.	Access	Limited access to mobile users	Free for specified logins	Free for specified logins
12.	IT Resources	In-house	Outsourced	In-house
13.	Shared	No	Yes	Partly
14.	Flexibility	More	Average	Greater
15.	Reliability	Low	High	Medium

Pointers for Hybrid Cloud Migration:

- Planning
- Migration Budget
- Identifying Cloud Service Provider
- Developing a Strategy
- Volume of Data
- Critical levels of data
- Deployment
- Cost and Speed of Transfer
- Storage Costs
- Storage Networks
- Data Compliance
- Provision for Adversities
- Execution
- Minimal Disruption
- Data Protection
- Optimization
- Creating Back ups
- Accessibility
- Availability
- Reliability



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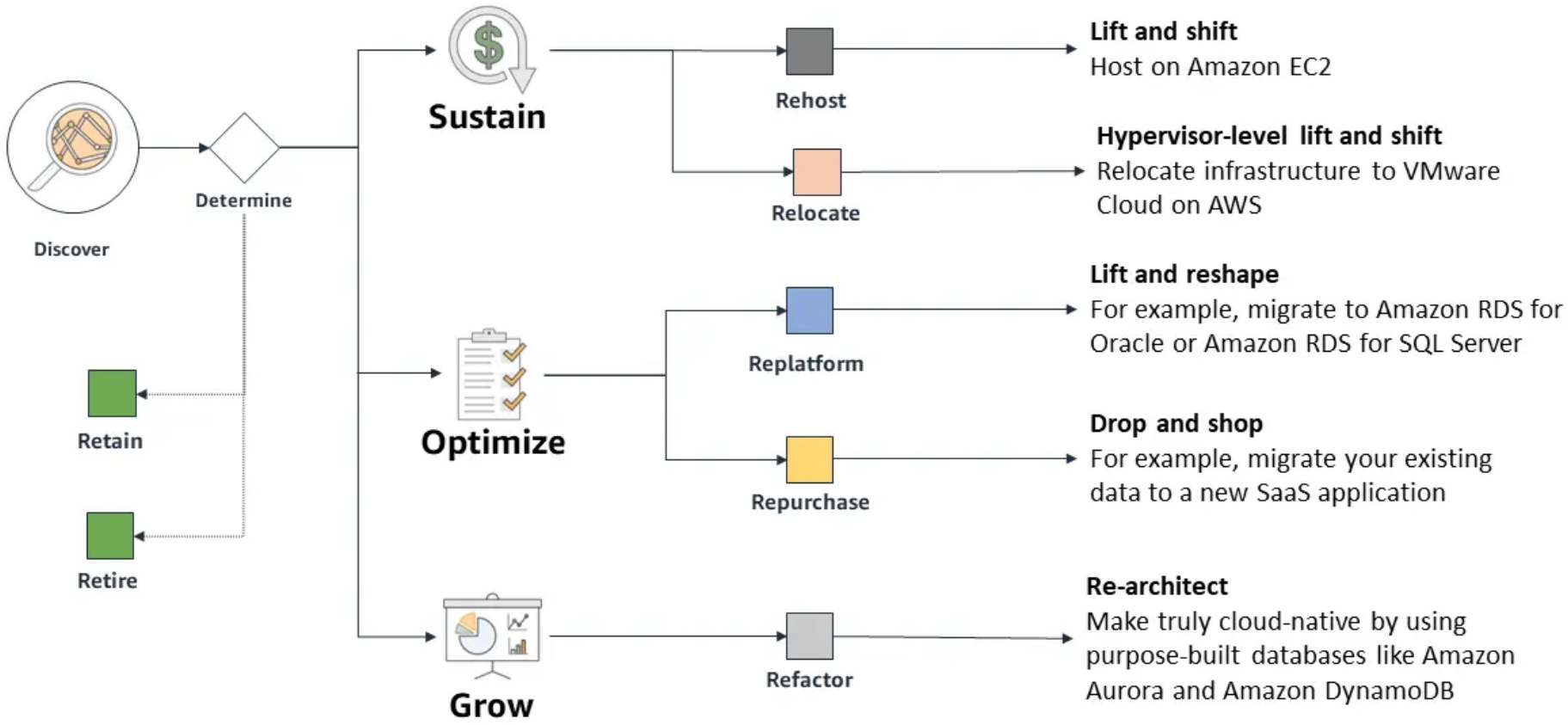
Migration Paths



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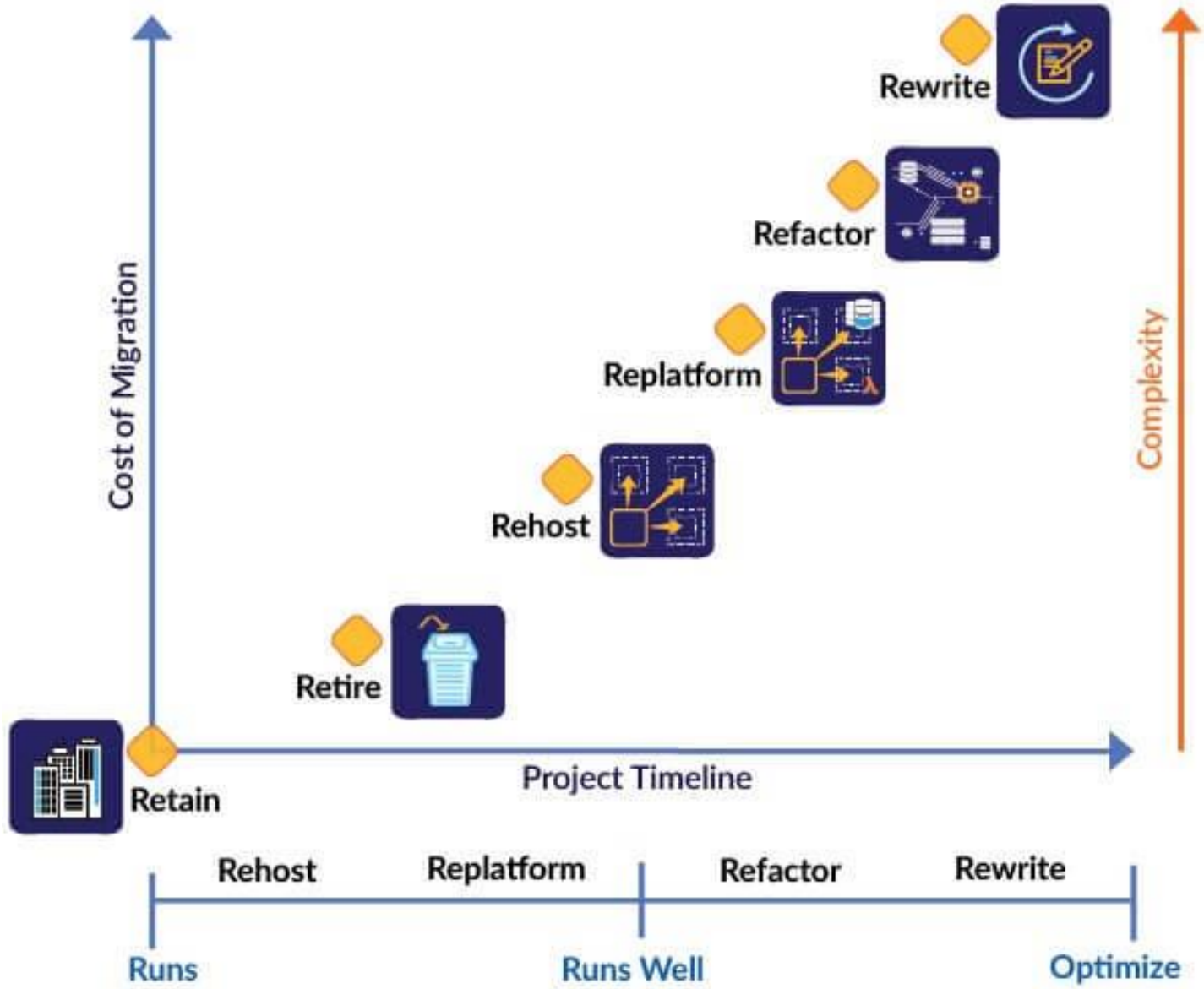


Rewrite

- Optimize an application for cloud by re-architecting

Refactor

- Customize the application to run on cloud

Replatform

- Upgrade an application from its existing platform and adhere to twelve factors

Rehost

- "Lift & Shift"
- Replicate an on-premise architecture on the cloud

Retire

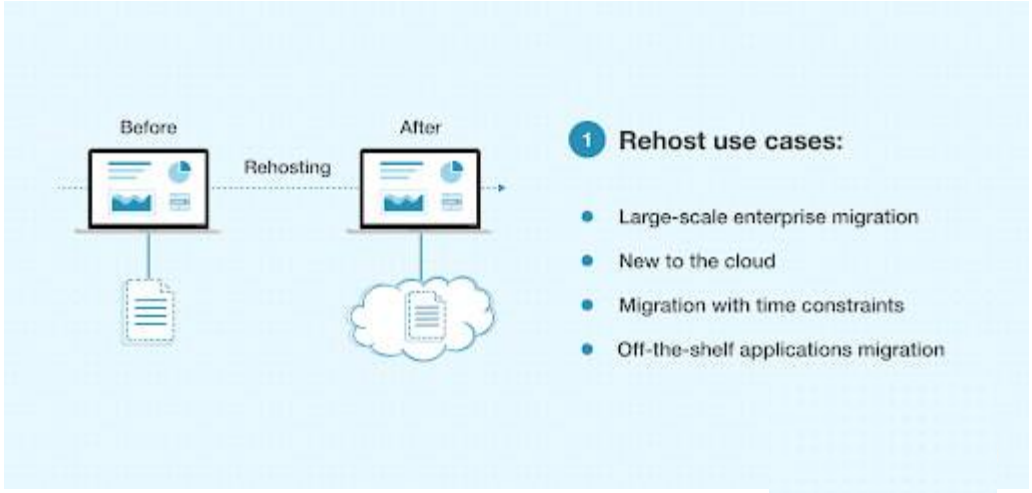
- Service or application no longer services a need for the business
- Decommission

Retain

- Do nothing for now, keep on-premise
- Too much risk. Existing financial investments, contract and compliance regulations.

Rehost Strategy

Rehost is a cloud migration strategy that moves data, applications or other IT assets from on-premise infrastructure or even one cloud service to another without code-level changes. The cloud migration strategy allows organizations to migrate their infrastructure to cloud services faster without disrupting the performance.



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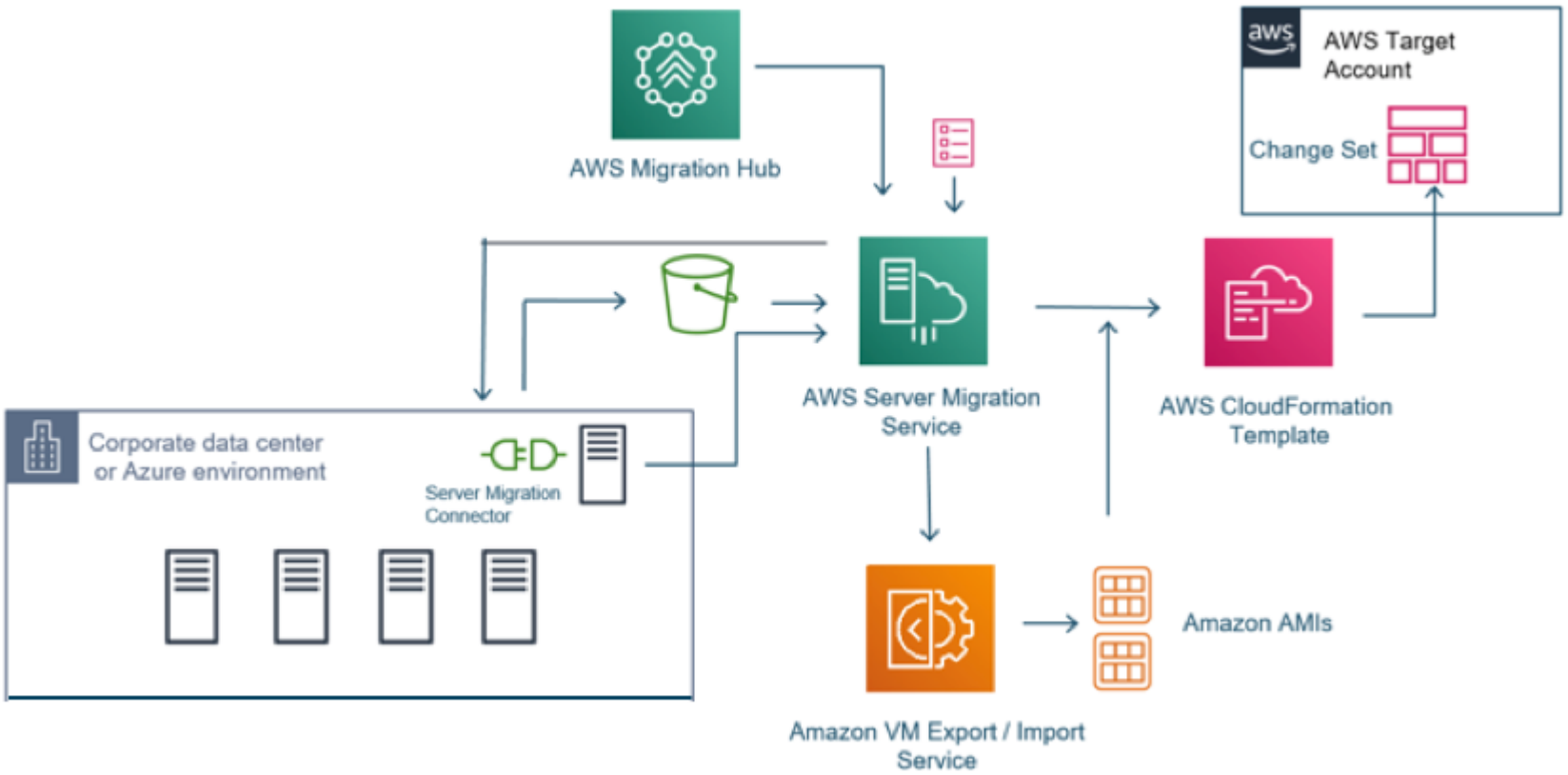
Rehost Strategy

Automation of rehost strategy can benefit your organization due to reduced time on repetitive tasks like configuration and assessments. CloudEndure Migration and AWS VM Import/Export are tools you can use to automate rehost strategy.

Rehosting Use Cases

Lift and shift is a simple strategy in terms of execution and yet has specific use cases like,

- Evacuation of data center or termination of the service provider
- Migration of a large chunk of applications in a short time
- The skillset of in-house staff aligning with a strategy like rehost rather than re-platform or refactoring.
- If you have commercial-off-the-shelf applications to migrate
- No need to make changes in the codebase for migrations of applications
- Maintenance of legacy black box systems for your organization that can be migrated directly to cloud services.



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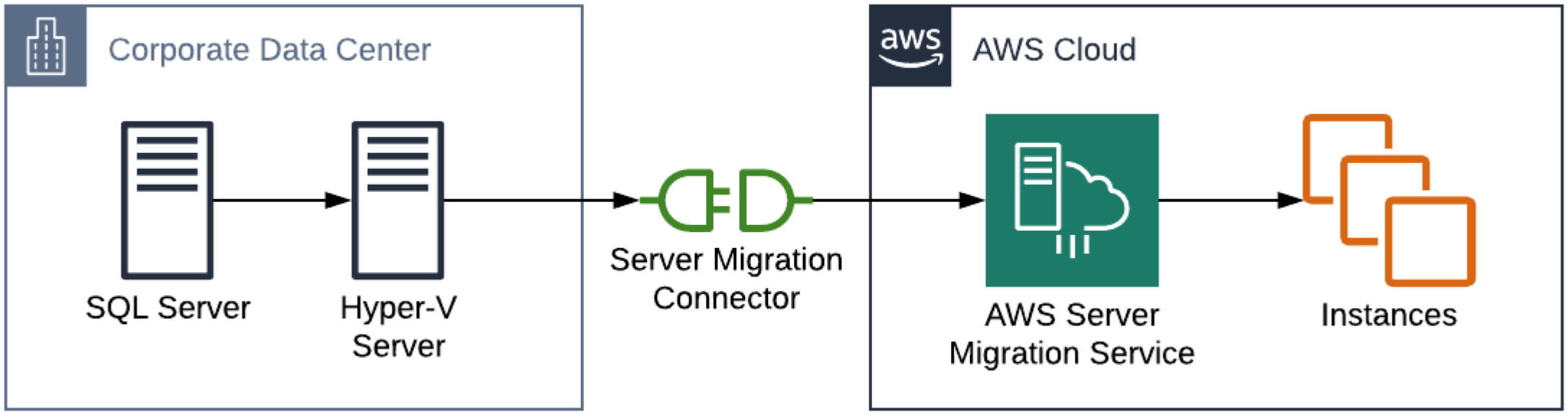

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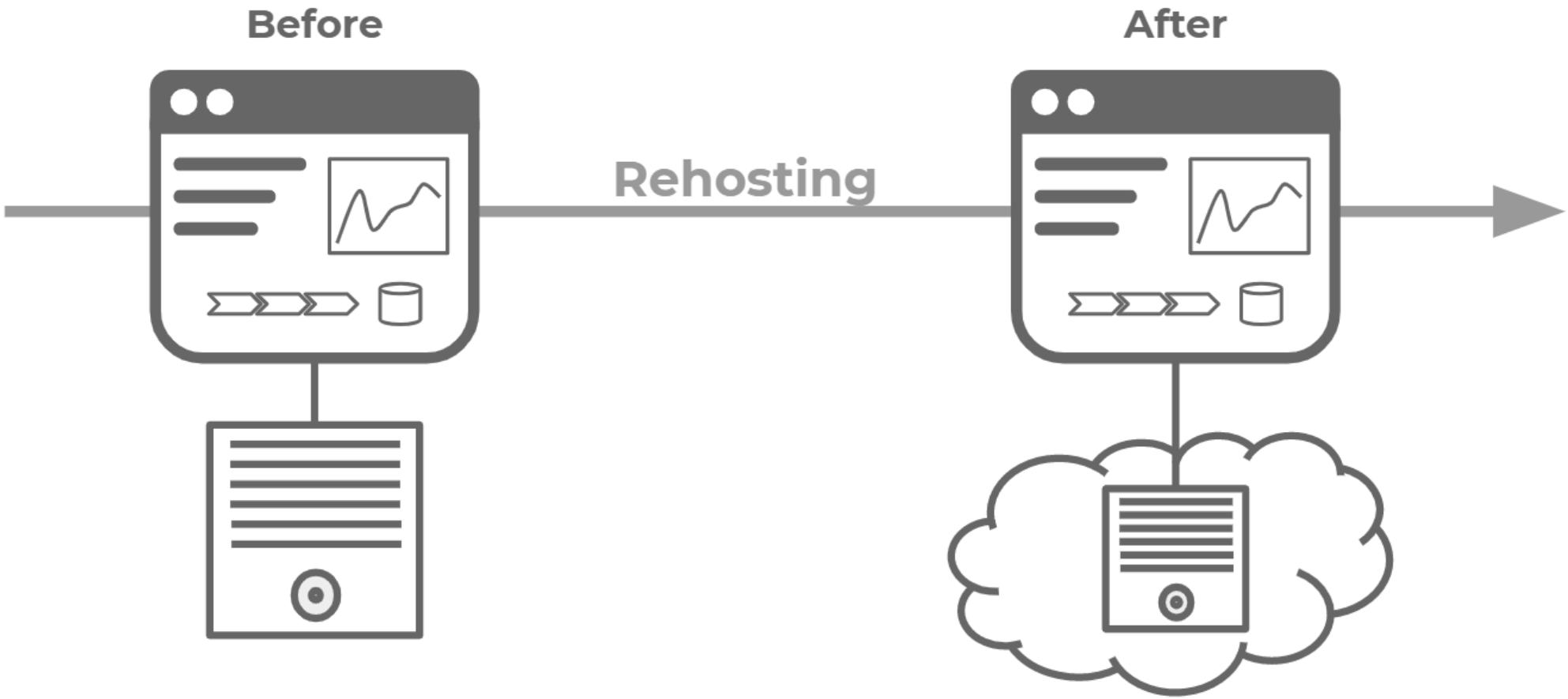

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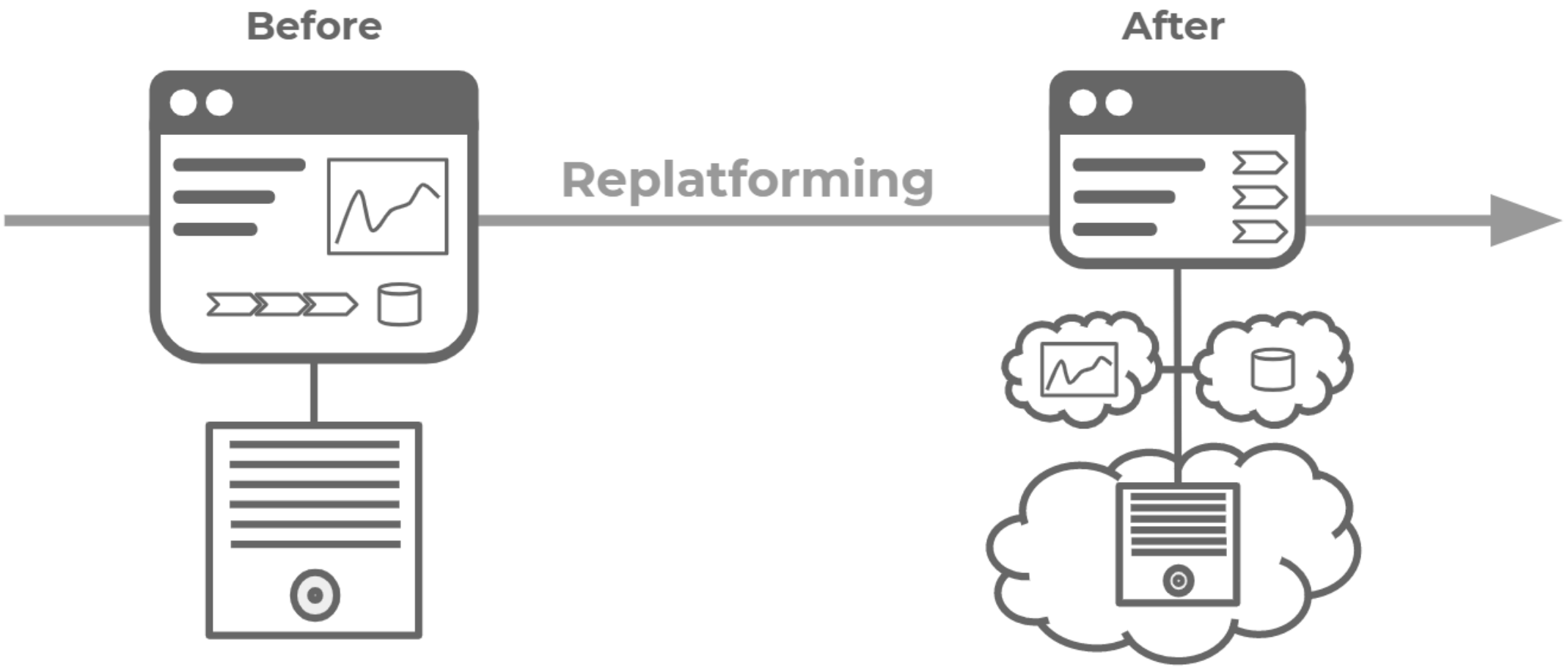

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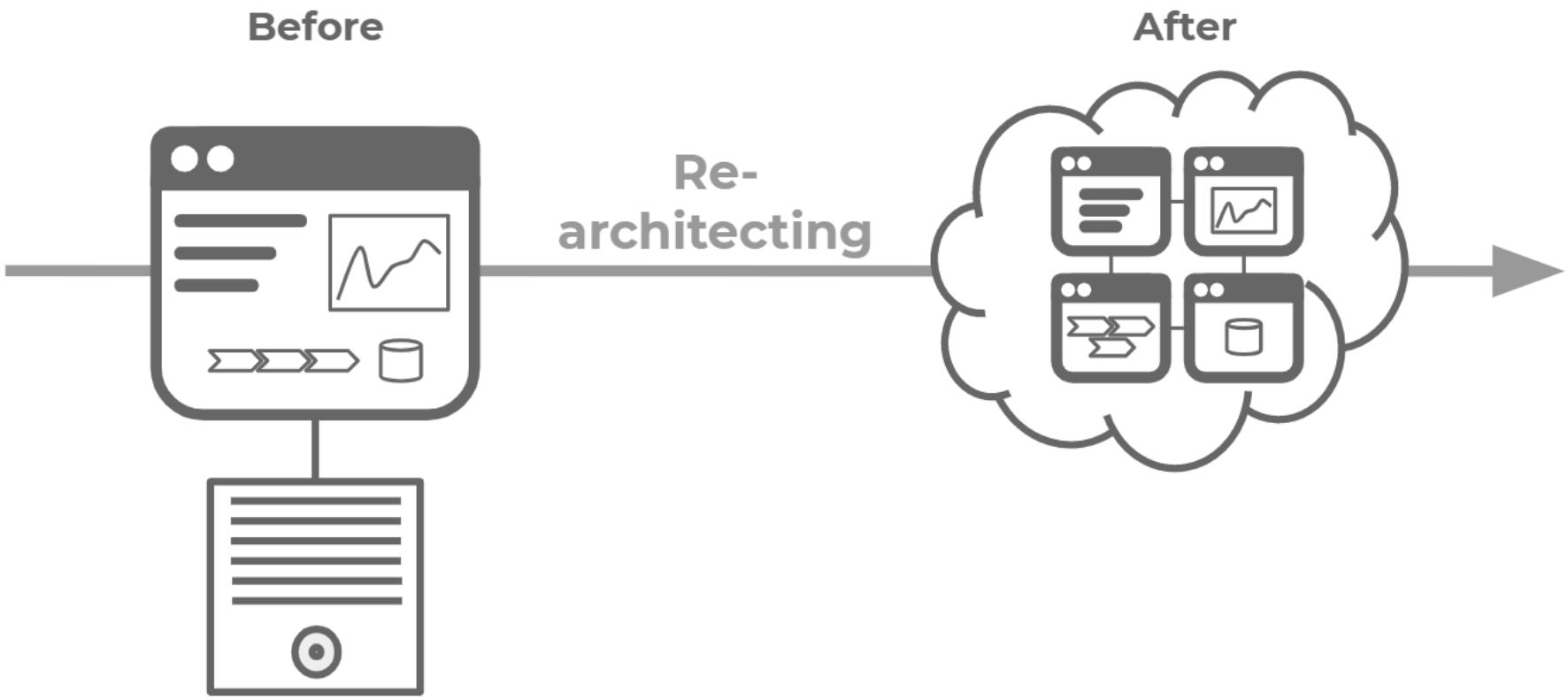

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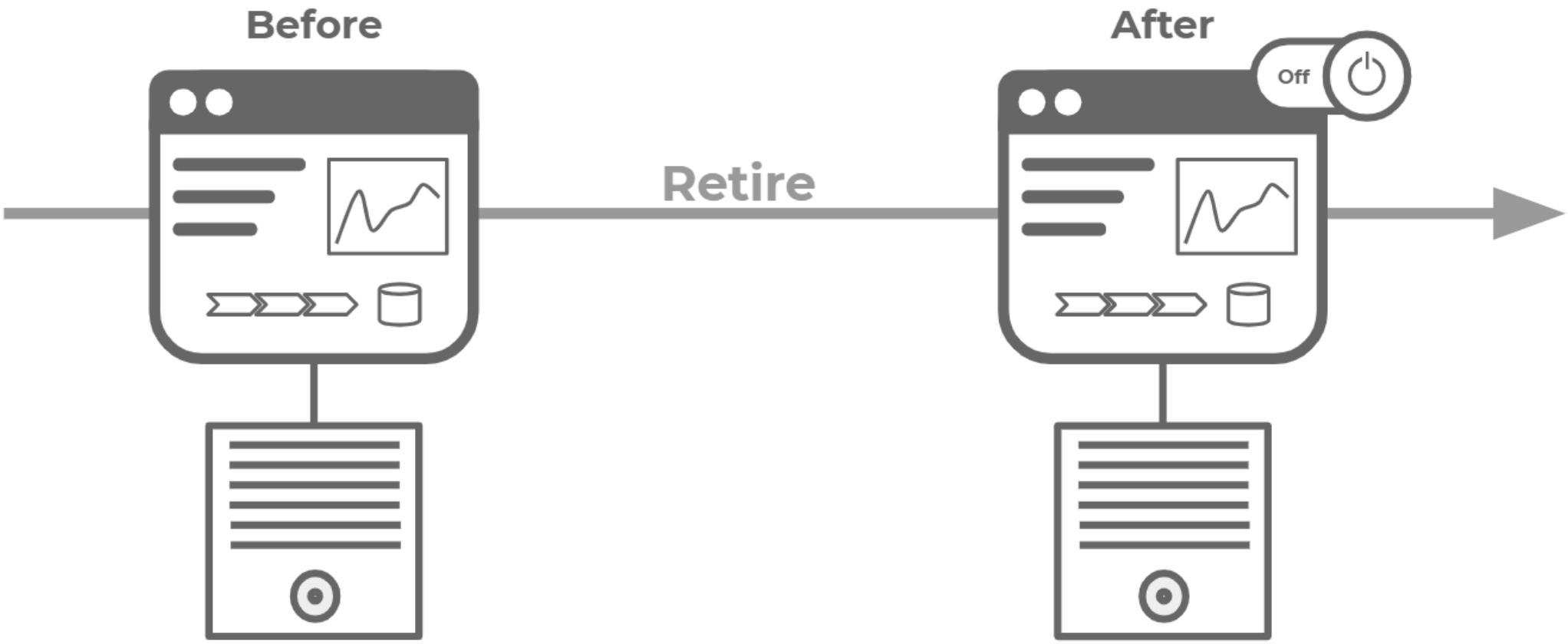

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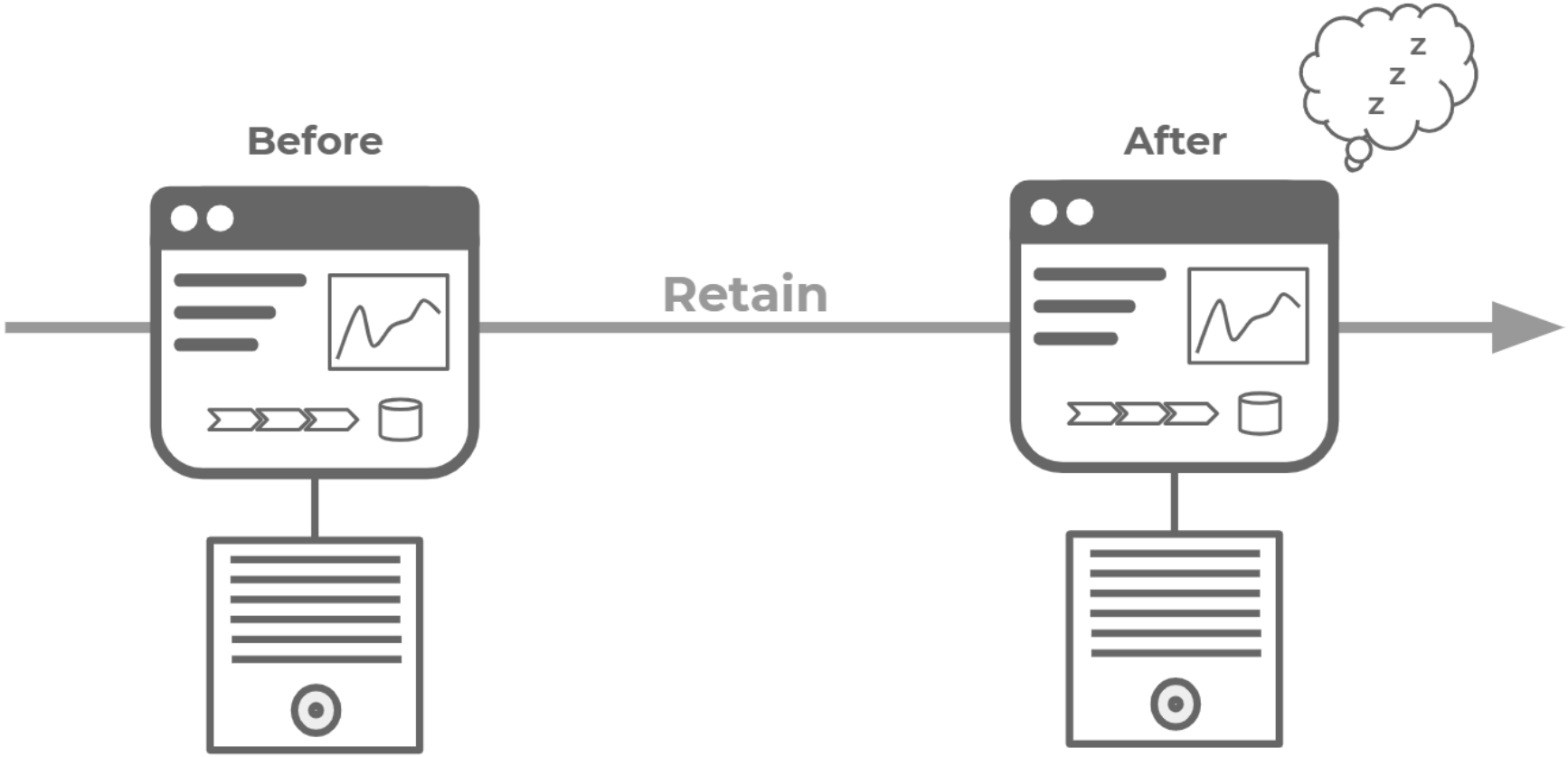

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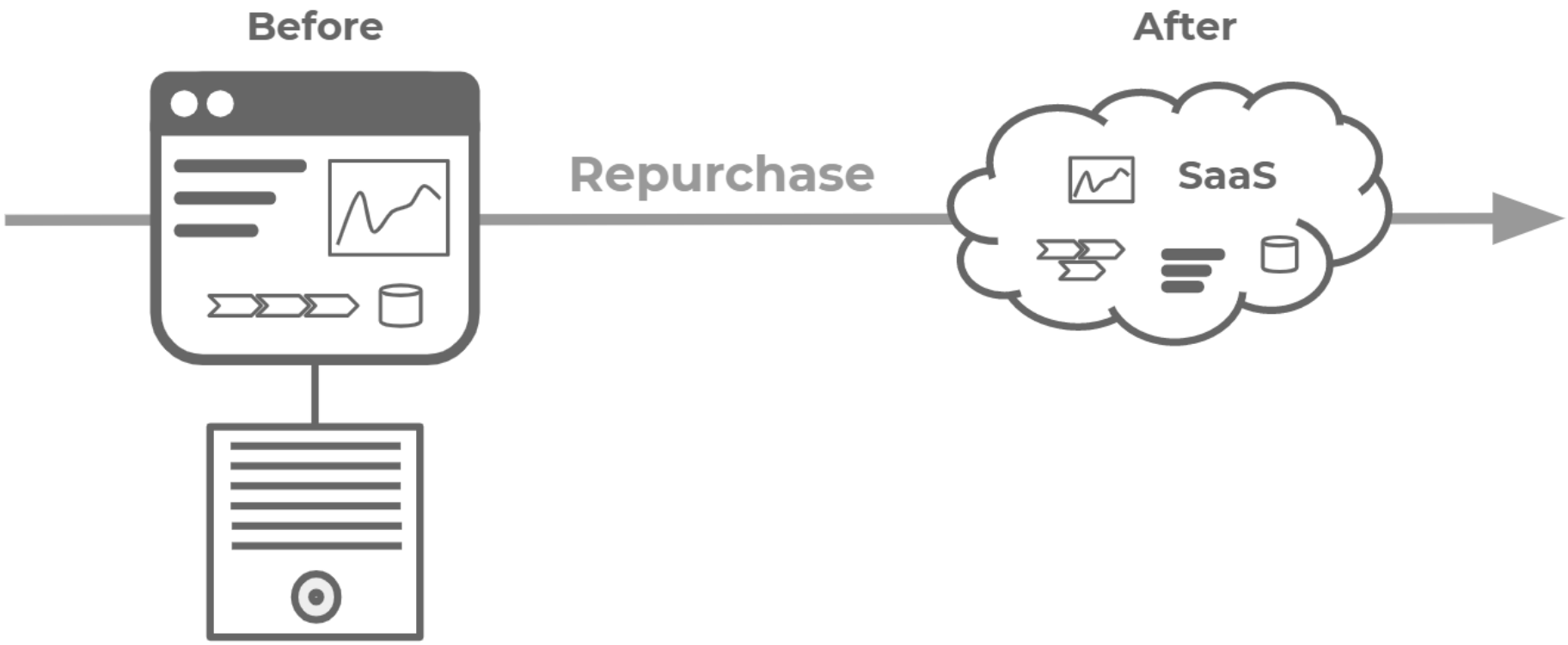

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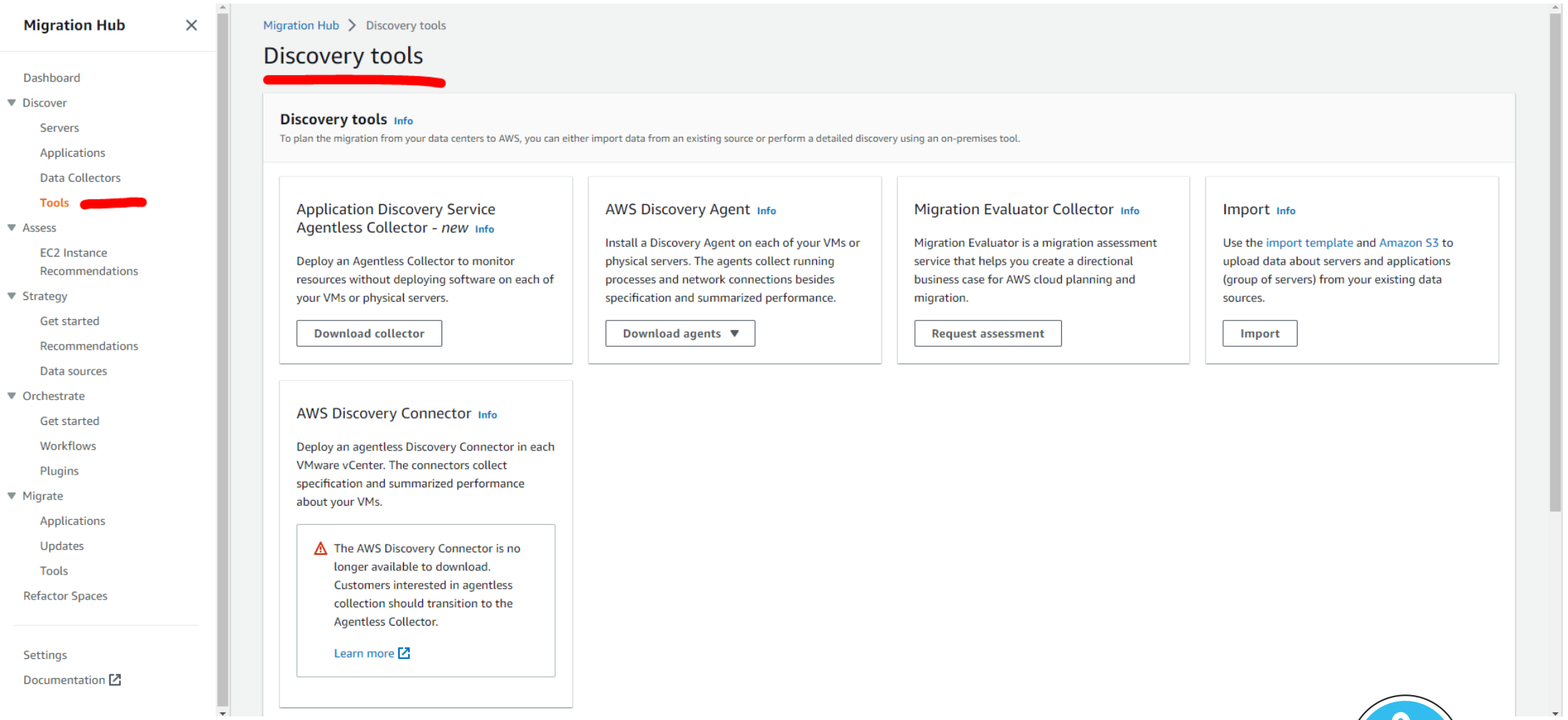
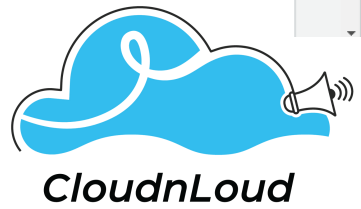

Migration Hub
Dashboard
Discover
Servers
Applications
Data Collectors
Tools
Assess
EC2 Instance Recommendations
Strategy
Get started
Recommendations
Data sources
Orchestrate
Get started
Workflows
Plugins
Migrate
Applications
Updates
Tools
Refactor Spaces
Settings
Documentation
Migration Hub > Discovery tools
Discovery tools
Discovery tools Info
To plan the migration from your data centers to AWS, you can either import data from an existing source or perform a detailed discovery using an on-premises tool.
Application Discovery Service Agentless Collector - new Info
Deploy an Agentless Collector to monitor resources without deploying software on each of your VMs or physical servers.
Download collector
AWS Discovery Agent Info
Install a Discovery Agent on each of your VMs or physical servers. The agents collect running processes and network connections besides specification and summarized performance.
Download agents
Migration Evaluator Collector Info
Migration Evaluator is a migration assessment service that helps you create a directional business case for AWS cloud planning and migration.
Request assessment
Import Info
Use the import template and Amazon S3 to upload data about servers and applications (group of servers) from your existing data sources.
Import
AWS Discovery Connector Info
Deploy an agentless Discovery Connector in each VMware vCenter. The connectors collect specification and summarized performance about your VMs.
The AWS Discovery Connector is no longer available to download. Customers interested in agentless collection should transition to the Agentless Collector.
Learn more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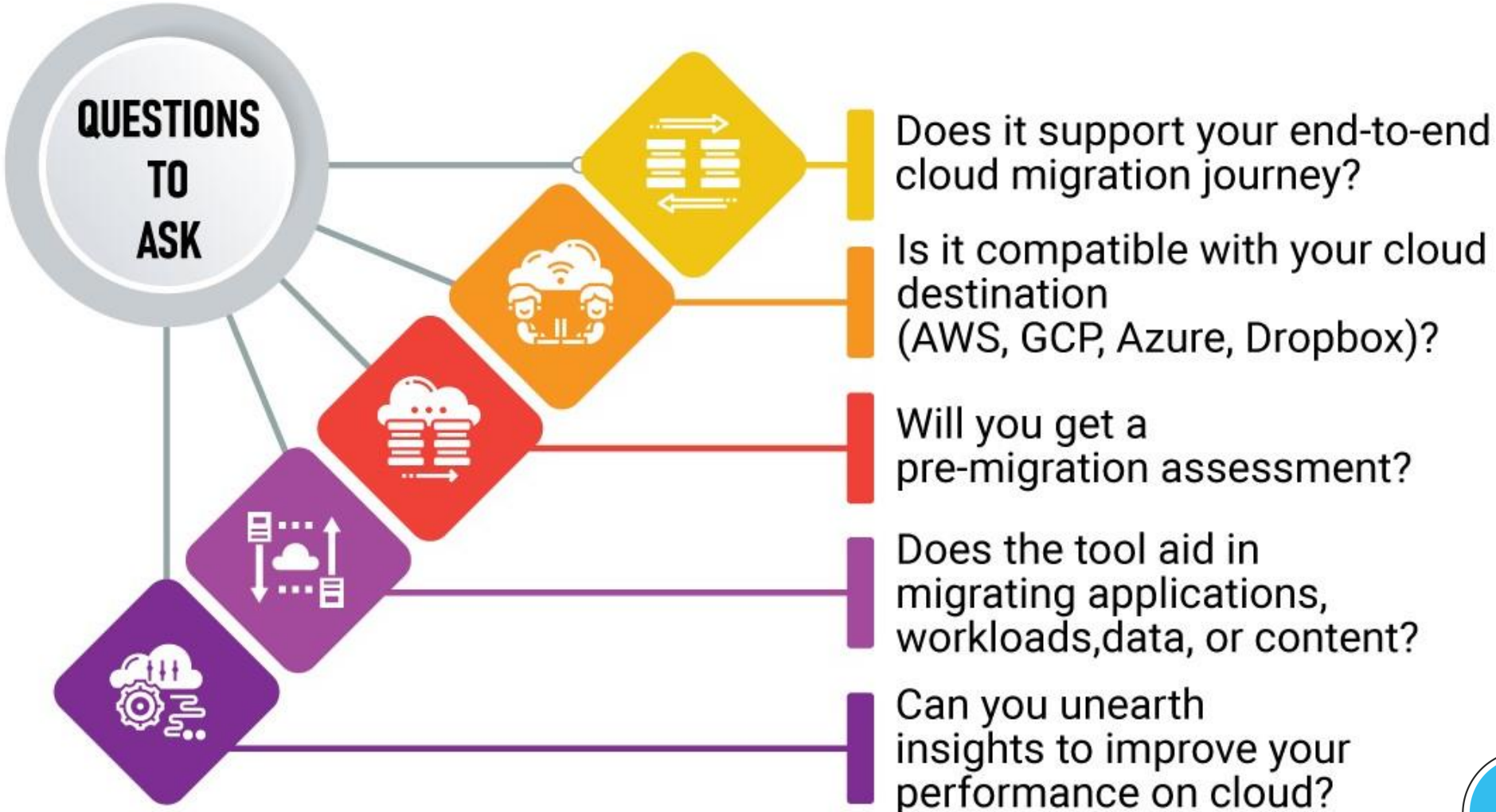
QUESTIONS TO ASK WHEN SELECTING A CLOUD MIGRATION TOOL



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Cloud Migration

- **Cloud Assessment**
  - Assess Cost
  - Assess Architecture
  - Assess Security
- **Proof of Concept**
  - Build Pilot
- **Data Migration**
  - Leverage Storage Options
  - Migrate
- **Application Migration**
  - Migrate
- **Leverage Cloud**
  - Scale
  - Automate
  - Test
- **Optimization**
  - Monitor
  - Redesign

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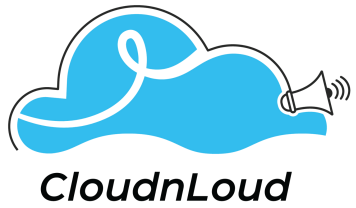
Migrating from Oracle to Amazon Aurora

https://explore.skillbuilder.aws/learn/course/internal/view/elearning/514/migrating-from-oracle-to-amazon-aurora

https://www.3llideas.com/en/amazon-aws-cloud-migration-checklist/



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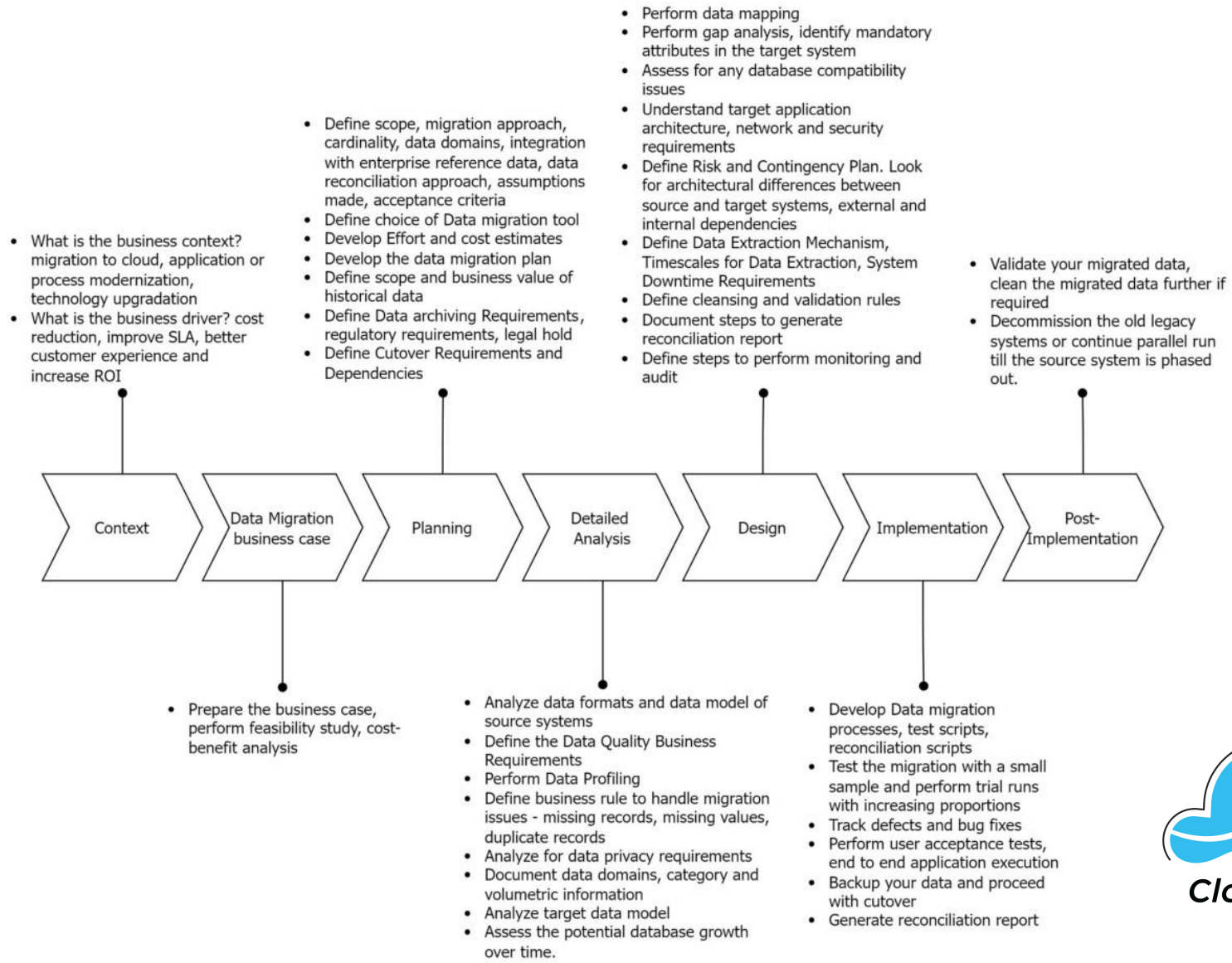
Data Migration Strategy



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Our Contact Details

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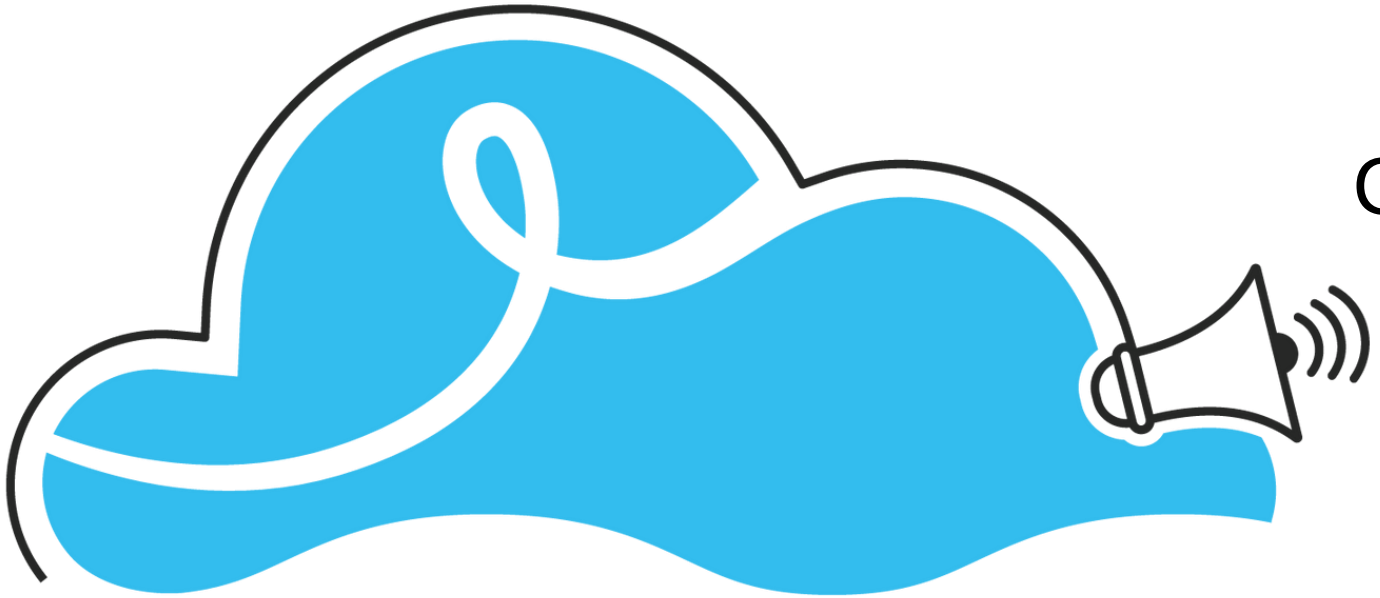
info@cloudnloud.com



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