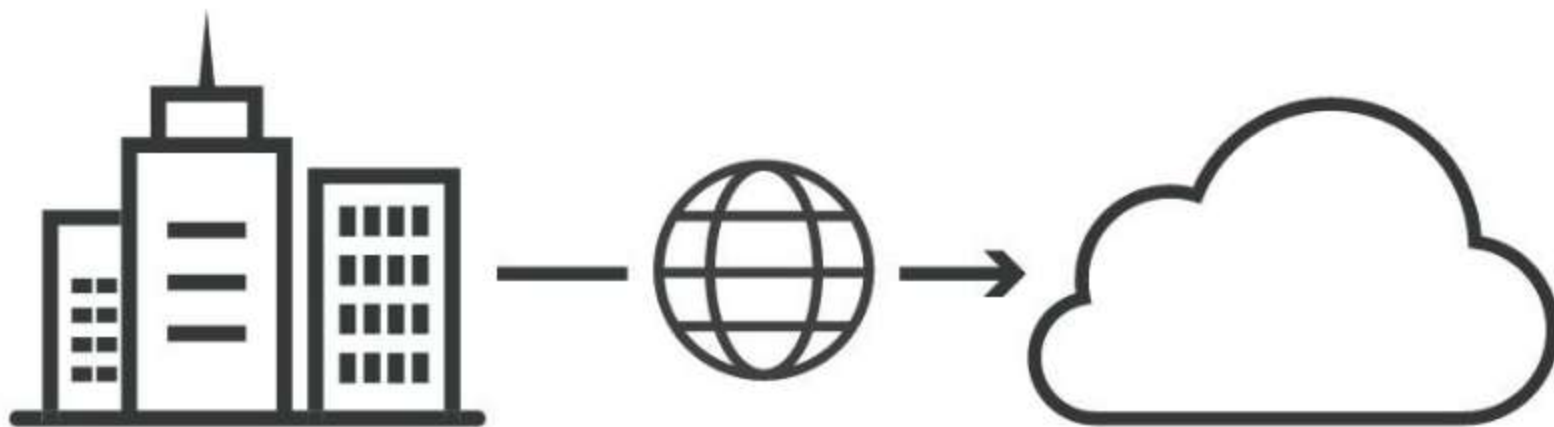# CLOUD MIGRATION STRATEGIES
&
SERVICES

Every Cloud Engineer should know

aws

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What is Cloud Migration?

Cloud migration is the process of moving data, applications, and other business-critical resources from on-premises or legacy systems to the cloud.

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Types of Migration

- Lift and Shift

- Replatforming

- Repurchasing

- Refactoring

- Retiring

- Retaining

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Lift and Shift

Lift and shift is the most straightforward cloud migration

This strategy involves moving existing applications and data to the cloud **without making any changes** to the architecture or infrastructure. This approach is best suited for organizations that want to quickly move to the cloud, with minimal changes.

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Replatforming

Replatforming involves making a few further adjustments to optimize your application for the cloud.

It's similar to lift and shift applications on the cloud, but it does **involve some modification** of the application to take advantage of the new cloud infrastructure.

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Repurchasing

Repurchasing is a cloud migration strategy where an organization **replaces an existing application with a new, cloud-based equivalent,** rather than migrating the existing application to the cloud. This strategy is also known as "rip and replace" or "cloud native" migration strategy.

Refactoring

Refactoring (or rearchitecting) means rebuilding your applications from scratch.

It is a cloud migration strategy where an organization makes changes to the architecture and design of an existing application to make it cloud-friendly and scalable. One of the most common examples of refactoring is shifting a mainframe monolithic application to microservices-based infrastructure in the cloud.

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Retiring

Retiring is a cloud migration strategy where an organization stops using an existing application and **replaces it with a new, cloud-based alternative**. This strategy is often used when an application is no longer supported, is too expensive to maintain or has reached end of life.

Retaining

Retain means doing nothing for now and revisiting later.

This strategy is often used when the organization believes that their existing on-premises or data center infrastructure is sufficient for their current and future needs.
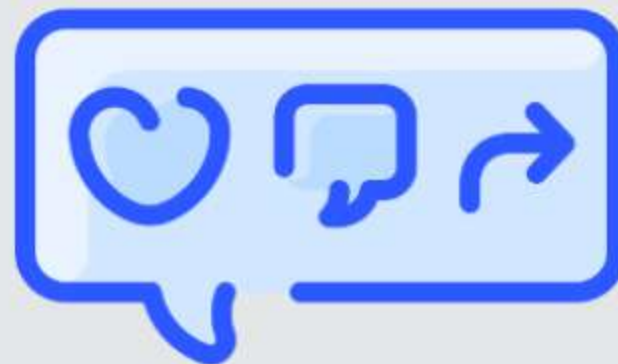
Reasons can be compliance and regulatory requirements, technical limitations, security etc

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AWS Migration Services

- AWS Migration Hub

- AWS Server Migration Service (SMS)

- AWS Database Migration Service (DMS)

- AWS Snowball

- AWS CloudEndure Migration

- AWS Application Migration Service(MGN)

- AWS DataSync

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