

## Rehost Strategy (Lift and Shift) ---IaaS Model

To migrate to microservice application we have to decide first which Cloud Migration Model we have to choose.

In our case, we have to improve our solution quality, improve productivity and minimize the application components coupled, so we have to use The **IaaS Model (Infrastructure-as-a-Service)** with the strategy **Rehost (Lift and Shift):** moving our existing application or workload from on-prem deployment to a cloud-provider's infrastructure. With this method there are no significant architecture changes to make. The easiest way to migrate applications to IaaS is rehosting using "lift and shift" or as-is migration approach.

We have to choose Rehosting because it's favoured for its relative ease, speed and low risk compared to other migration strategies like replatforming and refactoring :

- Software on the migrated hosts runs exactly as before, without modification. From its perspective, nothing has changed.
- IaaS offerings are mature and largely equivalent across cloud providers.
- Tools are mature, having their origins in earlier waves of transformation such as the move to virtualised on-prem environments.

This method is likely to be the staple activity in a large legacy migration scenario where the organisation is looking to quickly implement its migration and scale to meet a compelling event such as exiting a datacentre or terminating service from a hosting provider.

There are excellent tools available to automate much of the rehosting process. These include:

- **Migration Hub:** a single place to discover your existing servers, plan migrations, and track the status of each application migration.
- **Application Discovery Service:** to gather information about on-prem datacentres, to plan the migration.
- **Server Migration Service:** to migrate thousands of on-prem workloads; to automate, schedule, and track replication of live server volumes.
- **Database Migration Service:** to migrate databases to cloud quickly and securely.

***Presented By:***

***Oussama Bessaad***