SQL Server Migration

Further together

vodacom business

Agenda

The value of SQL Server on AWS
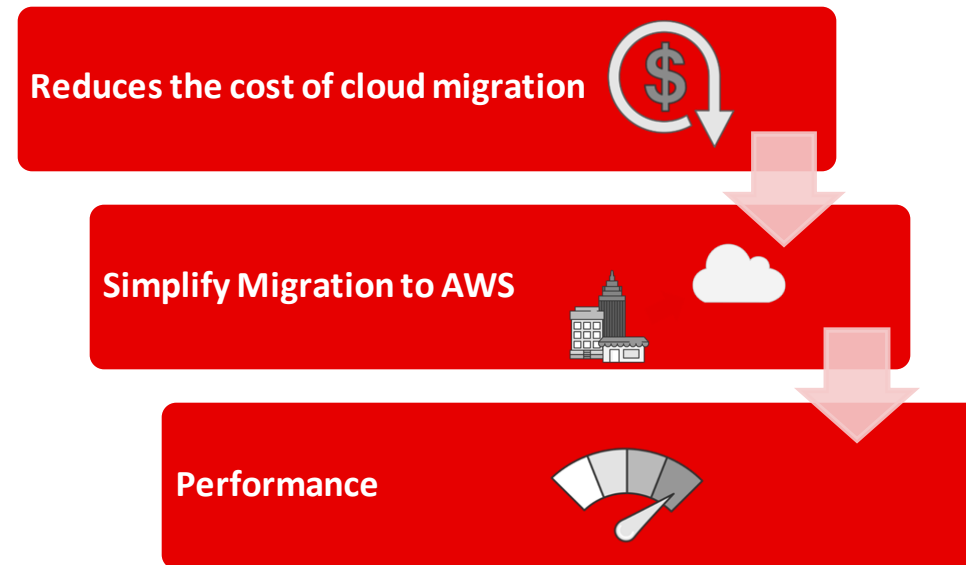
Migration Product

Next Steps

SQL Server on AWS

01

SQL Server Migration

Unlock business value by discovering cost savings, better resource efficiency, increased operational resiliency and improved business agility with SQL Server on AWS.
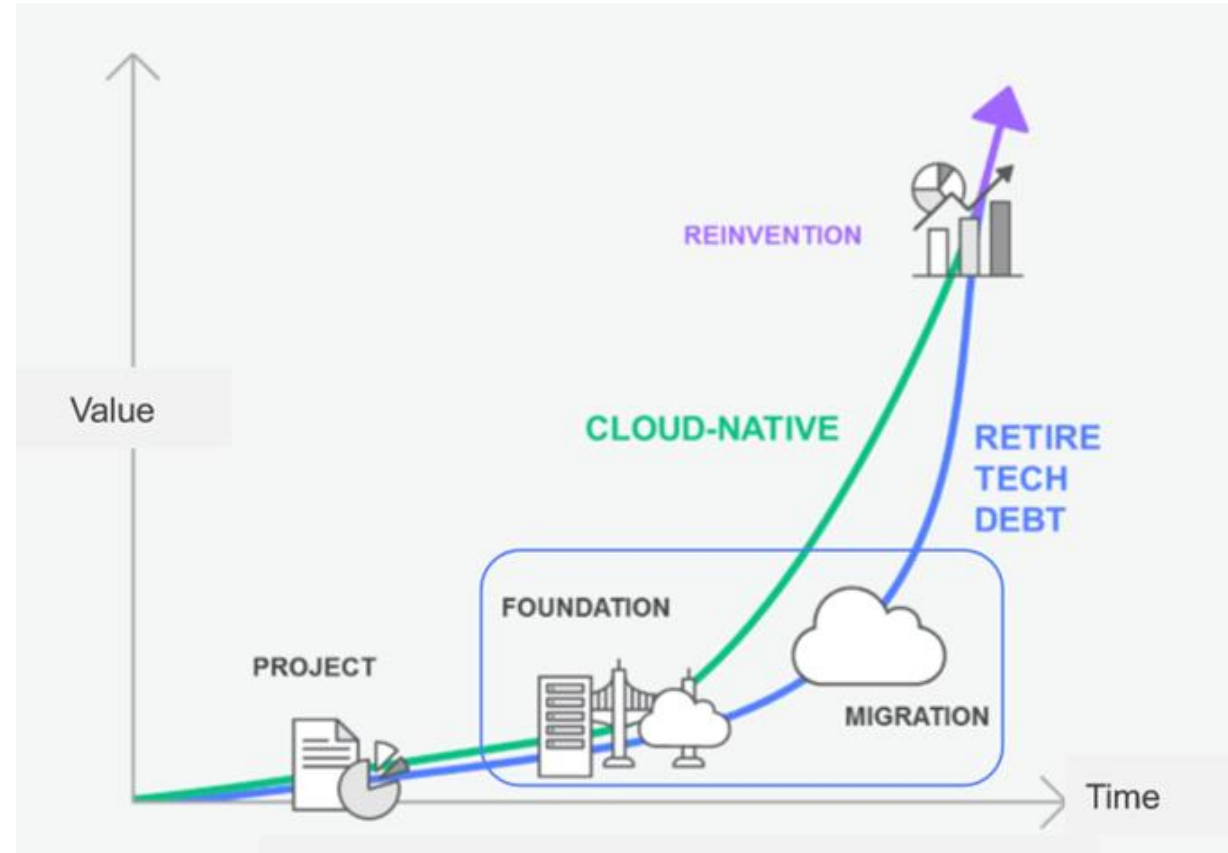
Reduces the cost of cloud migration

Simplify Migration to AWS

Performance

The Windows Sever & MS SQL Migration Service from Vodacom Business allows you to migrate to AWS through an automated and scheduled process.
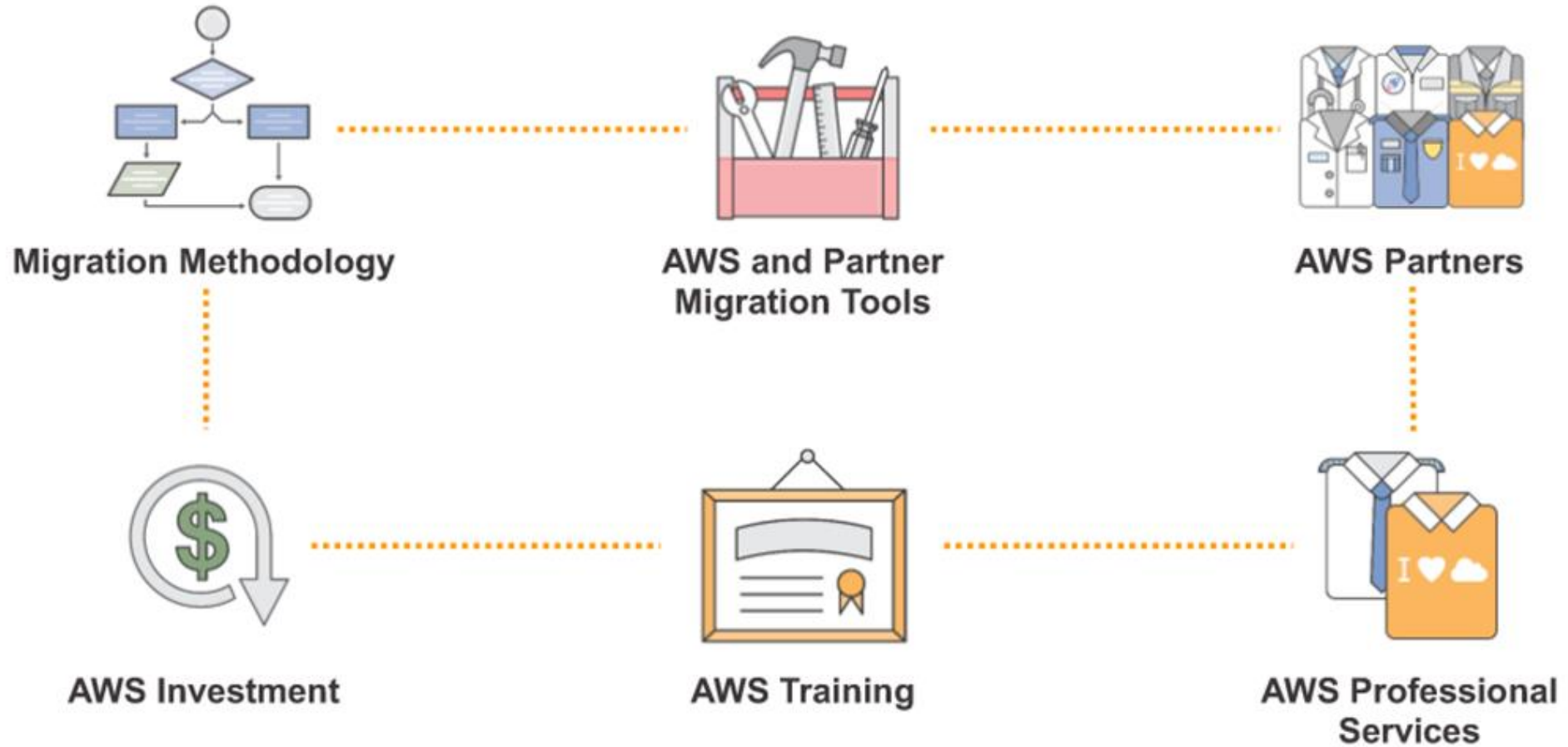
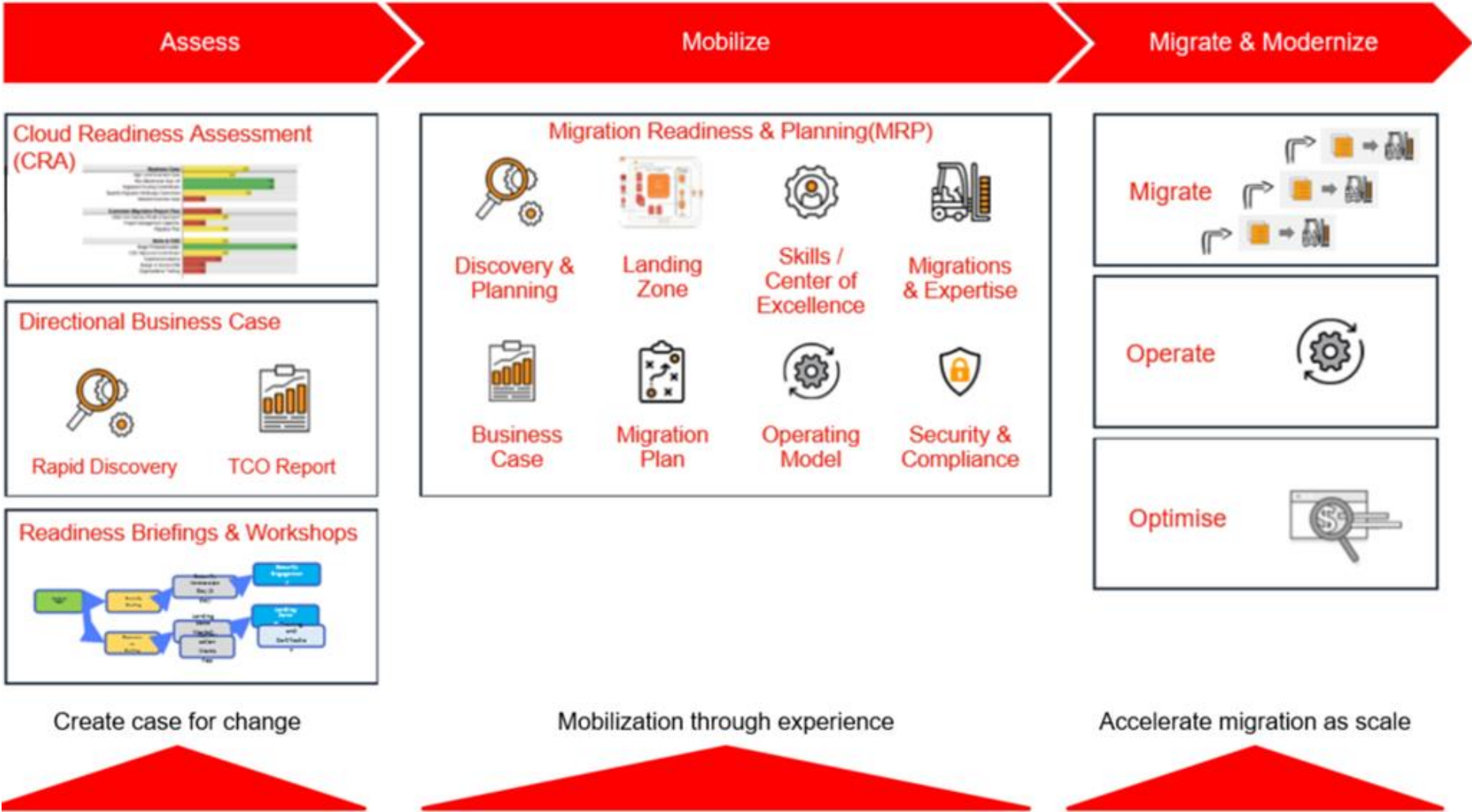# Journey to the Cloud

Migration Acceleration Program

- **Accelerating the Journey**

- **Proven Methodology**

- **Secure Approach**

- **Comprehensive – end to end**
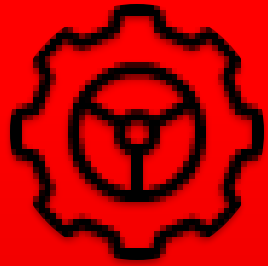
- **Driven by your business**

The Migration Accelerating Program (MAP)

Migration Methodology

AWS and Partner Migration Tools

AWS Partners

AWS Investment

AWS Training

AWS Professional Services

Migration Customer Journey

The value of SQL Server in AWS

Greater Reliability

AWS provides nearly 2x the number of regions with multiple availability zones vs next cloud provider. In 2018, the next cloud provider had 7x more downtime hours than AWS.

Better Performance

AWS has a 2X-3X performance advantage running SQL Server, including storage, compute and networking vs next cloud provider.
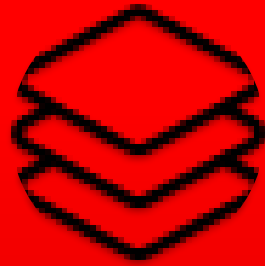
Greater Security

AWS offers 210 security, compliance & governance services which is 40 more than next provider. AWS supports 89 security standards and compliance certify which is meaningfully more than any other cloud provider.
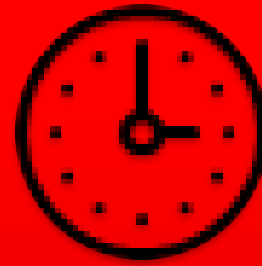
Lower Cost/TCO

AWS helps lower overall Windows Server costs with a comprehensive family of EC2 instances and pricing models AWS has reduced pricing 77 times 56% lower TCO over 5 years
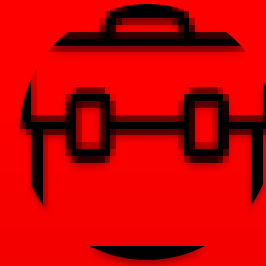
More Innovation

AWS includes 48 services where comparable options are simply not available in next cloud provider AWS offer innovative options to run managed AD, and managed SQL and has robust license mgmt. And DevOps capabilities

More Experience

AWS has unmatched experience over the last 12 years deploying Microsoft Workloads

Recognized by IDC as the most extensive library of cases covering thousands of successful migrations

SQL Server on AWS

The Value of SQL Server in AWS

Most Experience
12+
Years running Windows
workloads

**Global Reach &
High Availability**
76
Available zones spanning
24 geographic regions

Security & Compliance
50+
Compliance Certifications
HIPAA, FISMA, ITAR, EU Model Clauses
SOC-1,2,3 FIPS, ISO

**Customer Obsession
& Innovation**
210+
Service offerings

**Capable of delivering
Up to**
80,000
IOPS/Instance With consistency

Improve TCO
80+
Price reductions
since 2006

Reduce Total Cost of Ownership

WHY

•Customers are looking for options to reduce their Total Cost of Ownership (TCO) for running Microsoft SQL Server Databases while leveraging elasticity, scale, and agility of cloud.

CUSTOMER VALUE

With AWS, customers find not only agility and cost savings, but
more rapid innovation, higher performance, and greater reliability.

Managed Databases with AWS RDS reduces Operational Overhead
Push-Button Scaling of Database Resources based on demand.
Reserved RDS Instances

Flexibility of Migrating

As customers move to the cloud, they are looking for ways to get the best of both worlds without buying new hardware. While Reducing Operational overhead.

On Premise

Use familiar tools and processes. Leverage existing investments. Maintain unique hardware configurations. Have granular control over placement of apps and data.

Public Cloud

Scale faster. Reduce costs. Establish global footprint. Pay-as-you-go. Access broader range of services.
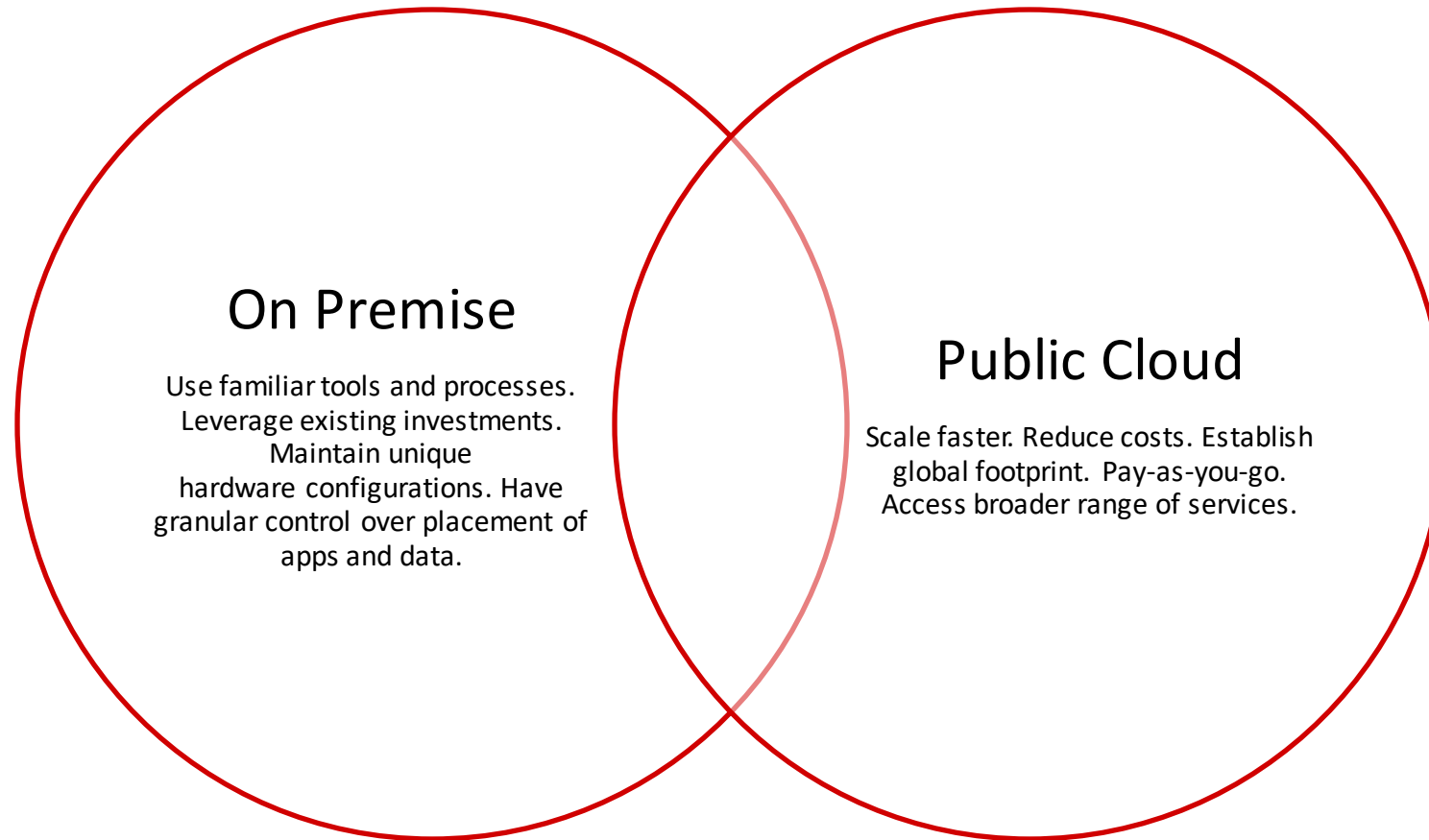
Migration Product – AWS DMS

Highly Automated

Minimal skill set required to operate

Easy, non-disruptive tests prior to cutover

Easily plugs into migration factories and cloud COEs

Flexible

AWS DMS supports the Migration

of virtually any SQL Server Database

edition to Amazon SQL Server on

RDS

Reliable

Robust, Predicable, non-disruptive continuos replication.

Short cut-over time frames with minimal downtime.

Highly secure.

AWS DMS

02

How AWS DMS Migration Works

Continuously replicates SQL Server Database from any SQL Source into

AWS RDS Business outcome:
Rapid, Reliable migration with minimal business disruption

AWS DMS Features

- Ability to perform both Homogeneous and Heterogeneous migrations of any supported databases.
- Simple to use: no need to install any drivers or applications, and it does not require changes to the source database in most cases.
- Minimal downtime: Migrate your databases to AWS with virtually no downtime.
- Replicate from multiple source platforms (physical, virtual, or other cloud) to a fully managed Database Service in AWS
- Low cost: Only pay for the compute resources used during the migration process and any additional log storage.
- Fast and easy to set-up
- Reliable: AWS DMS is highly resilient and self-healing. Multi-AZ option allows High Availability of replication Instance
- Secure: ability to provide data in Transit Encryption with TLS or VPN as well as providing Encryption at Rest using AWS KMS
- Manages complexities of the migration process
- Can be used to continuously replicate data

AWS DMS Migration Options:

- **You can create an AWS DMS task that captures ongoing changes to the source data store. You can do this capture while you are migrating your data.**

- **You can also create a task that captures ongoing changes after you complete your initial (full-load) migration to a supported target data store.**

  This process is called ongoing replication or change data capture (CDC).

- **One time load or Change Data Capture (CDC)**
  - **Read from database log on the source and apply to the target**

- **Ongoing Replication Support**
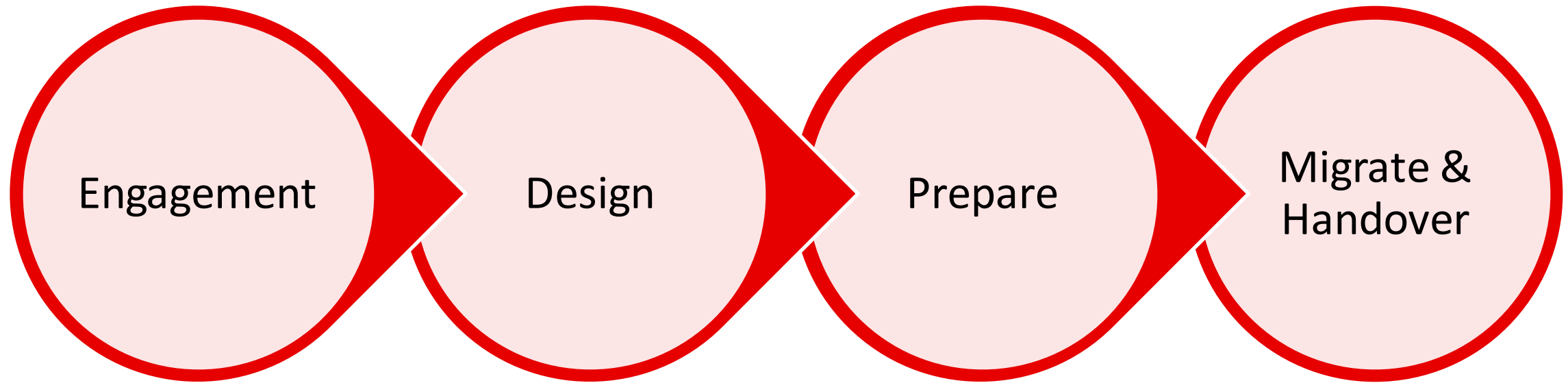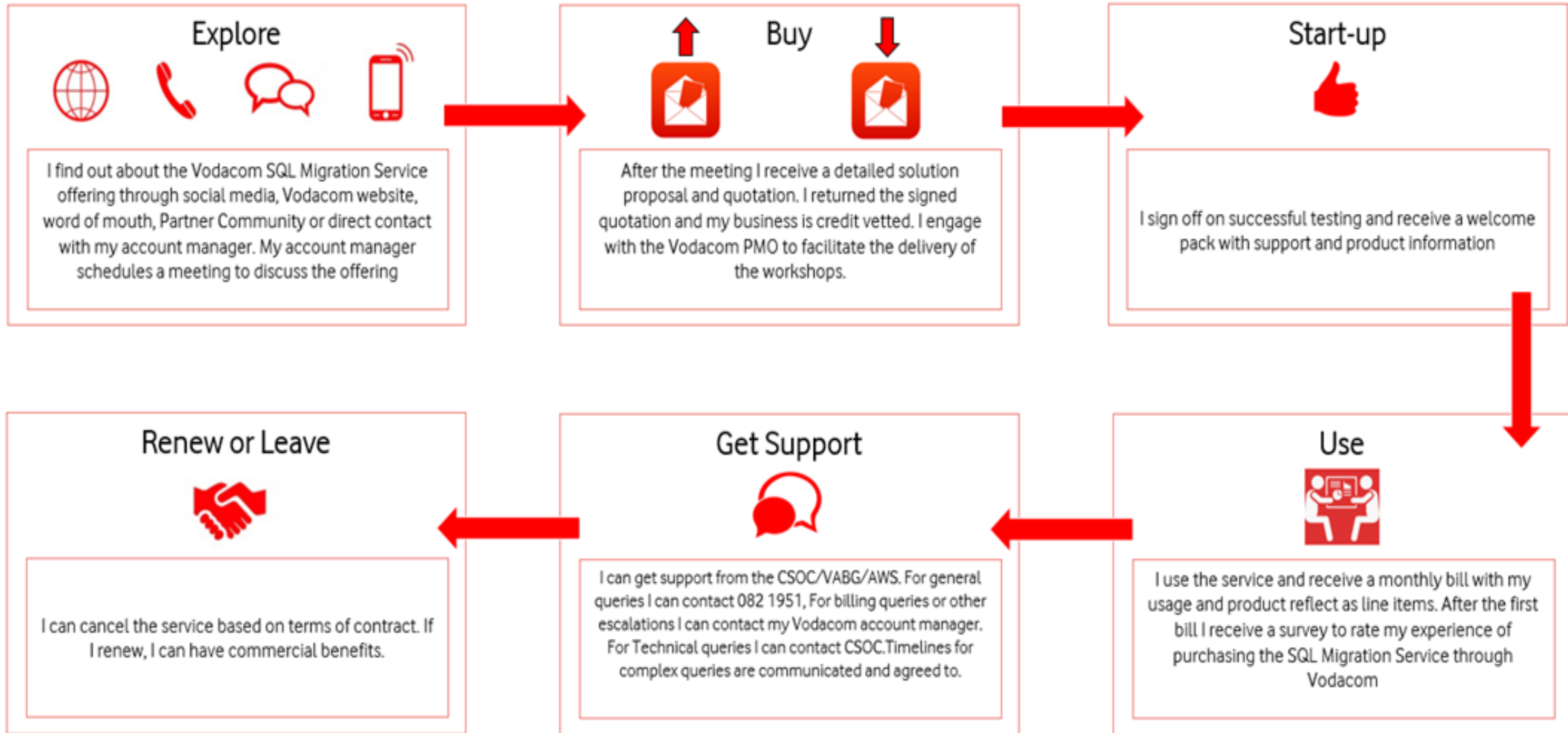 - **Keep your replication ongoing until your application is ready to cutover**

Next Steps

03

Next Steps – Cloud Migration on AWS

Engagement → Design → Prepare → Migrate & Handover

Customer Journey

Explore

I find out about the Vodacom SQL Migration Service offering through social media, Vodacom website, word of mouth, Partner Community or direct contact with my account manager. My account manager schedules a meeting to discuss the offering

Buy

After the meeting I receive a detailed solution proposal and quotation. I returned the signed quotation and my business is credit vetted. I engage with the Vodacom PMO to facilitate the delivery of the workshops.

Start-up

I sign off on successful testing and receive a welcome pack with support and product information

Renew or Leave

I can cancel the service based on terms of contract. If I renew, I can have commercial benefits.

Get Support

I can get support from the CSOC/VABG/AWS. For general queries I can contact 082 1951, For billing queries or other escalations I can contact my Vodacom account manager. For Technical queries I can contact CSOC.Timelines for complex queries are communicated and agreed to.

Use

I use the service and receive a monthly bill with my usage and product reflect as line items. After the first bill I receive a survey to rate my experience of purchasing the SQL Migration Service through Vodacom

C2 General

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