Disaster Recovery as a Service

An alternative to traditional disaster recovery methods

The Challenges

Users

- Accidental deletion
- Business interruption

Business

- Retention policy confusion/gaps
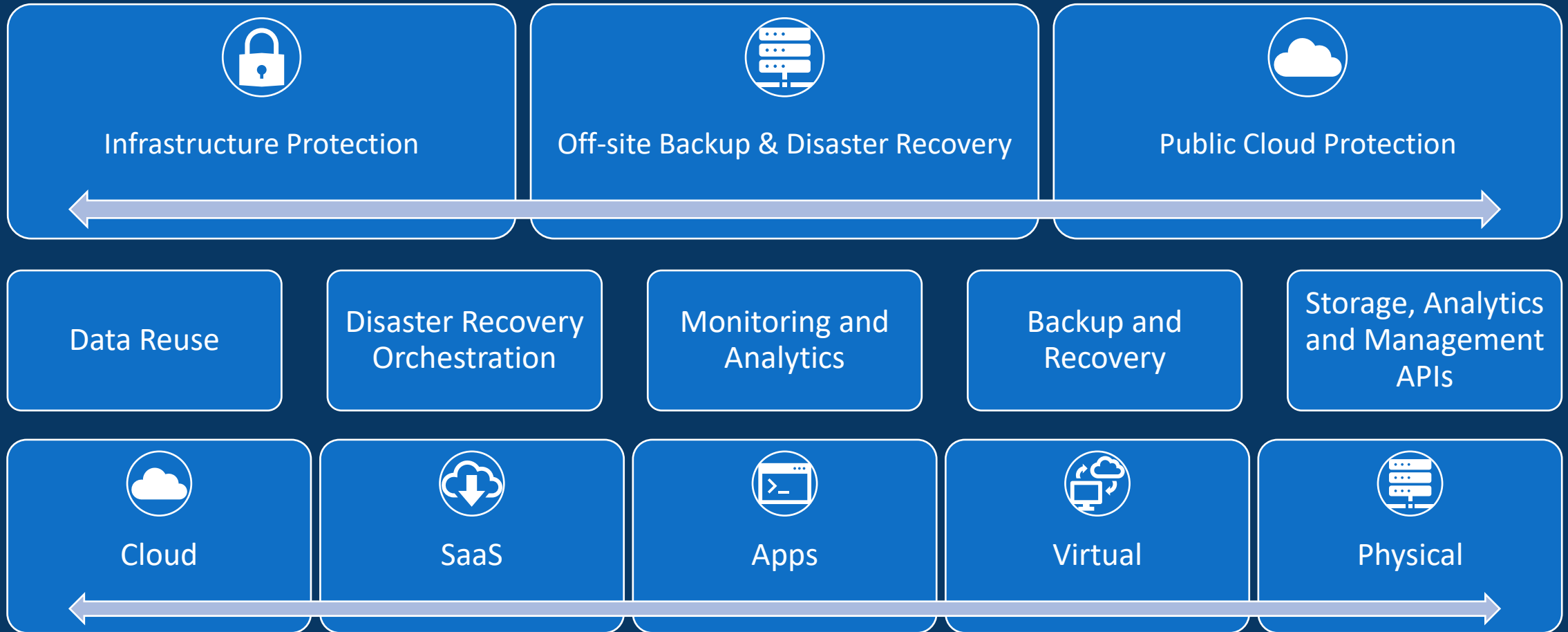- Legal and compliance requirements
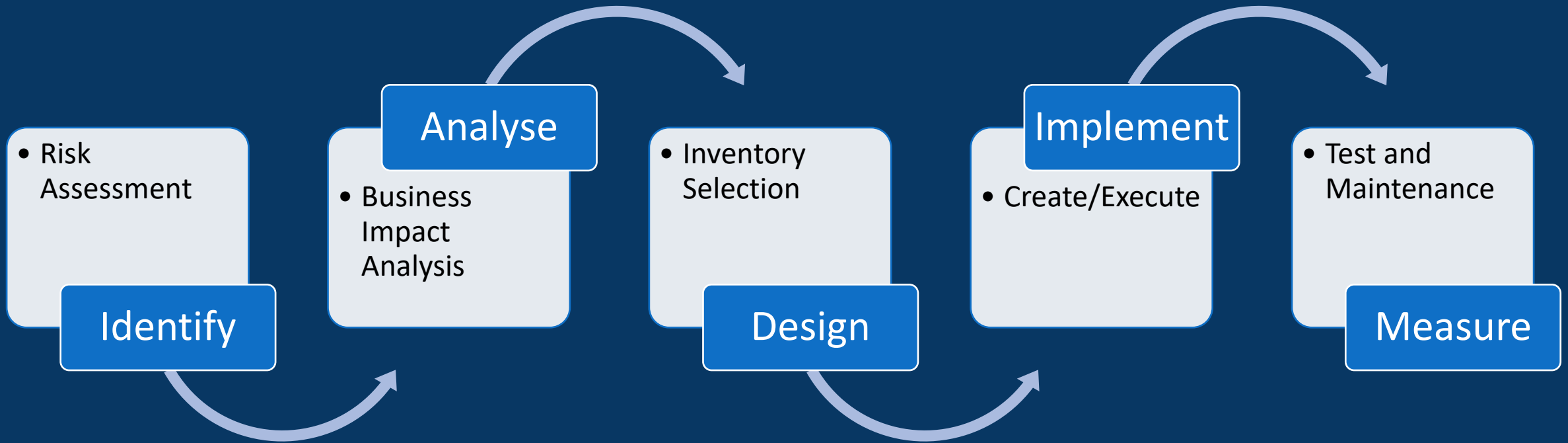
IT

- Managing hybrid deployments and migrations
- Internal & external security threats

The Solution

Infrastructure Protection	Off-site Backup & Disaster Recovery	Public Cloud Protection

Data Reuse	Disaster Recovery Orchestration	Monitoring and Analytics	Backup and Recovery	Storage, Analytics and Management APIs

Cloud	SaaS	Apps	Virtual	Physical

The Process

- Risk Assessment

Identify

Analyse

- Business Impact Analysis

- Inventory Selection

Design

Implement

- Create/Execute

- Test and Maintenance

Measure

Operating Models

Managed DRaaS

Simplex takes over all responsibility for disaster recovery.

Best suited for organisations lacking the expertise or time to manage their own disaster recovery.

Assisted DRaaS

The customer maintains responsibility for some aspects of their disaster recovery plan.

Best suited for organisations with unique or customised applications that might be challenging for a third party to take over.

Self-service DRaaS

The customer is responsible for the planning, testing and management of disaster recovery. Simplex provides consultancy and does frequent DR drills.

Best suited for organisations with experienced disaster recovery experts on staff.

The Metrics

Recovery Time Objective (RTO)

Maximum period of time that an application will be unavailable in a downtime situation.

The shorter the period of time, the faster the recoveries will need to be.

Recovery Point Objective (RPO)

Maximum amount of data loss that would occur in a downtime or data loss scenario.

Frequent backups or near-continuous replication is required to reduce the amount of data loss.

Performance	Consistency	Geographic Separation
• Impact on normal operation and after recovery	• Correctness of application data and outputs	• DR site should not be affected by same disaster

Costs		
Setup & Maintenance	Recovery	Downtime

The Benefits

Improving the availability of critical applications

Cost reduction and efficiency

Unifies all the elements of DR into a single solution

Scalability

Easier testing and management of virtual machines, backups, and replication

Seamless compliance

The Toolchain

Veeam

Backup & Replication

Single platform for modern data protection

Continuous Data Protection

Reliable Ransomware Protection

Software-defined and Hardware-agnostic

Expanded Instant Recovery

Veeam-powered BaaS & DRaaS

Disaster Recovery Orchestrator

1-click site recovery and DR testing

Maximise service availability

Flexible recovery options
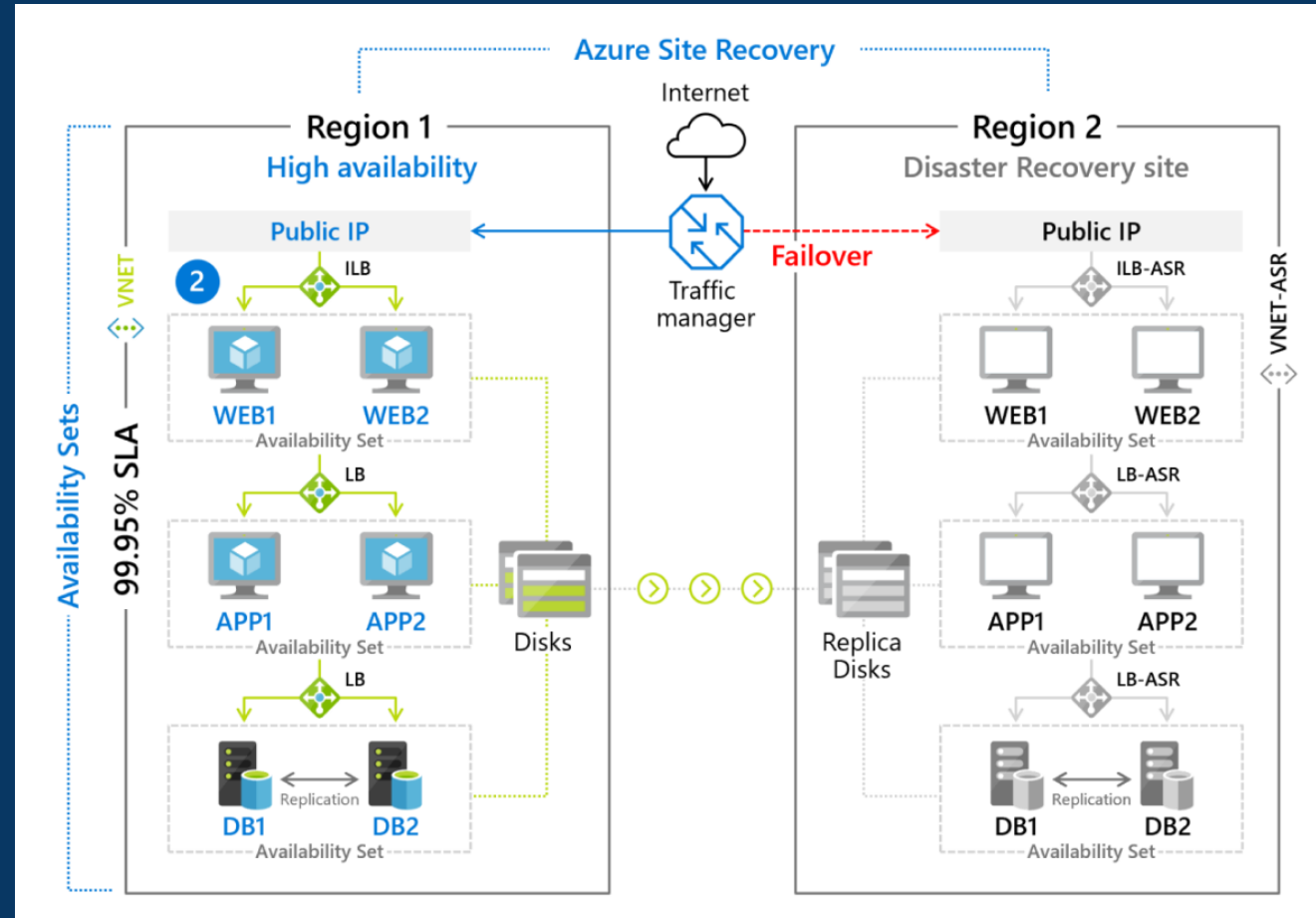
Eliminate manual processes

Guarantee successful recovery

Protect yourself from audits

Azure Site Recovery

- A native disaster recovery as a service for Microsoft Azure

- Benefits:
  - Simple to deploy and manage
  - Reduce infrastructure costs
  - Minimise downtime with dependable recovery

- What can be replicated?
  - Azure VMs replicating between Azure regions
  - On-premises VMs, Azure Stack VMs, and physical servers

Azure Backup

- A cost-effective, secure, one-click backup solution

- Benefits:
  - Centralised management using Backup Centre
  - Multi-workload support
  - Durable storage options: locally redundant storage, geo-redundant storage, and zone-redundant storage

- What can be backed up?
  - On-premises
  - Azure VMs
  - Azure Managed Disks
  - Azure Files shares
  - SQL Server in Azure VMs
  - SAP HANA databases in Azure VMs
  - Azure Database for PostgreSQL servers
  - Azure Blobs