



aws SUMMIT

NEW YORK | JULY 26, 2023



PRT103-S

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SIOS HA/DR solutions for seamless operations and automated resilience

Dave Bermingham

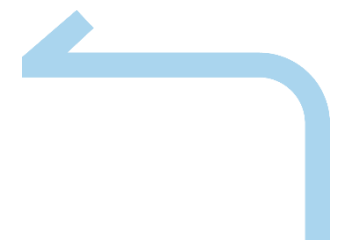
Director, Customer Success
SIOS Technology Corp.



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Leading Experts in High Availability and Disaster Recovery

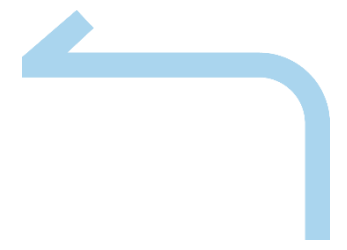


- 20+ years focused on HA/DR
- Award-winning PS and support
- Headquarters in San Mateo, CA
 - US, UK, Germany, Singapore, Japan
- 80,000+ licenses installed globally
- AWS Partner since 2014
 - AWS ISV Accelerate Program Partner
 - Microsoft Workloads ISV Competency
 - Offerings in AWS Marketplace
- SAP Certified
 - SIOS Protection Suite for **NetWeaver** HA and for **S/4HANA** HA





Downtime for Essential Applications Is Expensive



1HR
of downtime



\$300K
lost business, productivity
disruptions, and remediation
efforts



1HR
of downtime



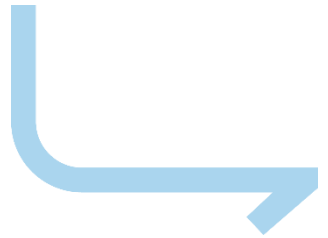
\$1-4M
lost business, productivity
disruptions, and remediation
efforts

91%
of organizations

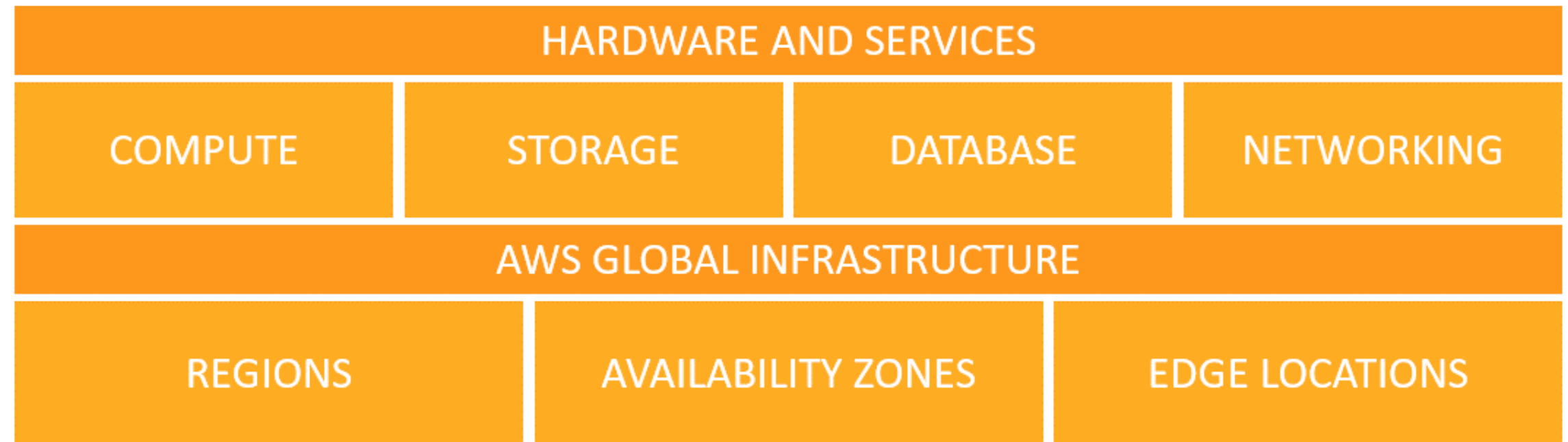
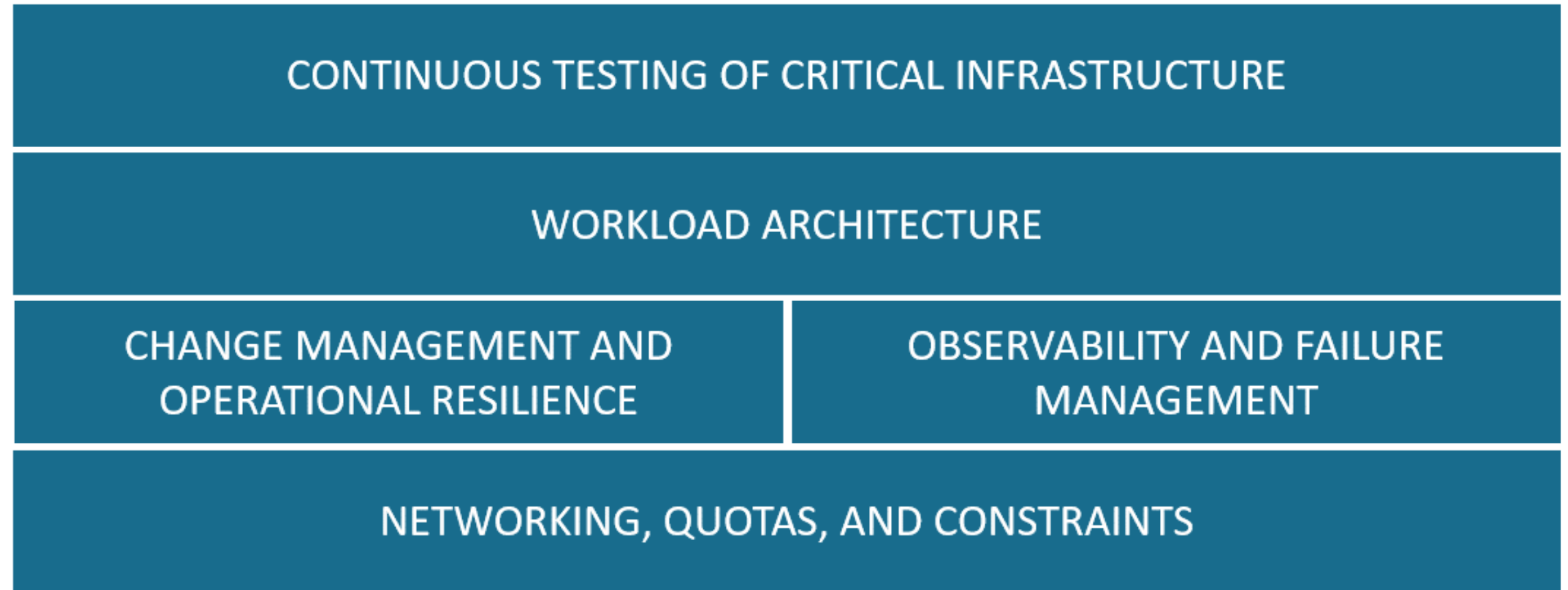
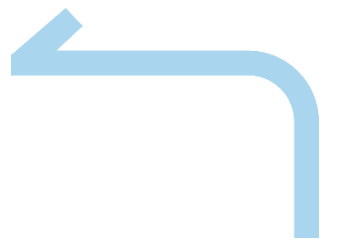
44%
of organizations



Data courtesy of ITIC 2021 Global Server Hardware, Server OS Reliability Survey



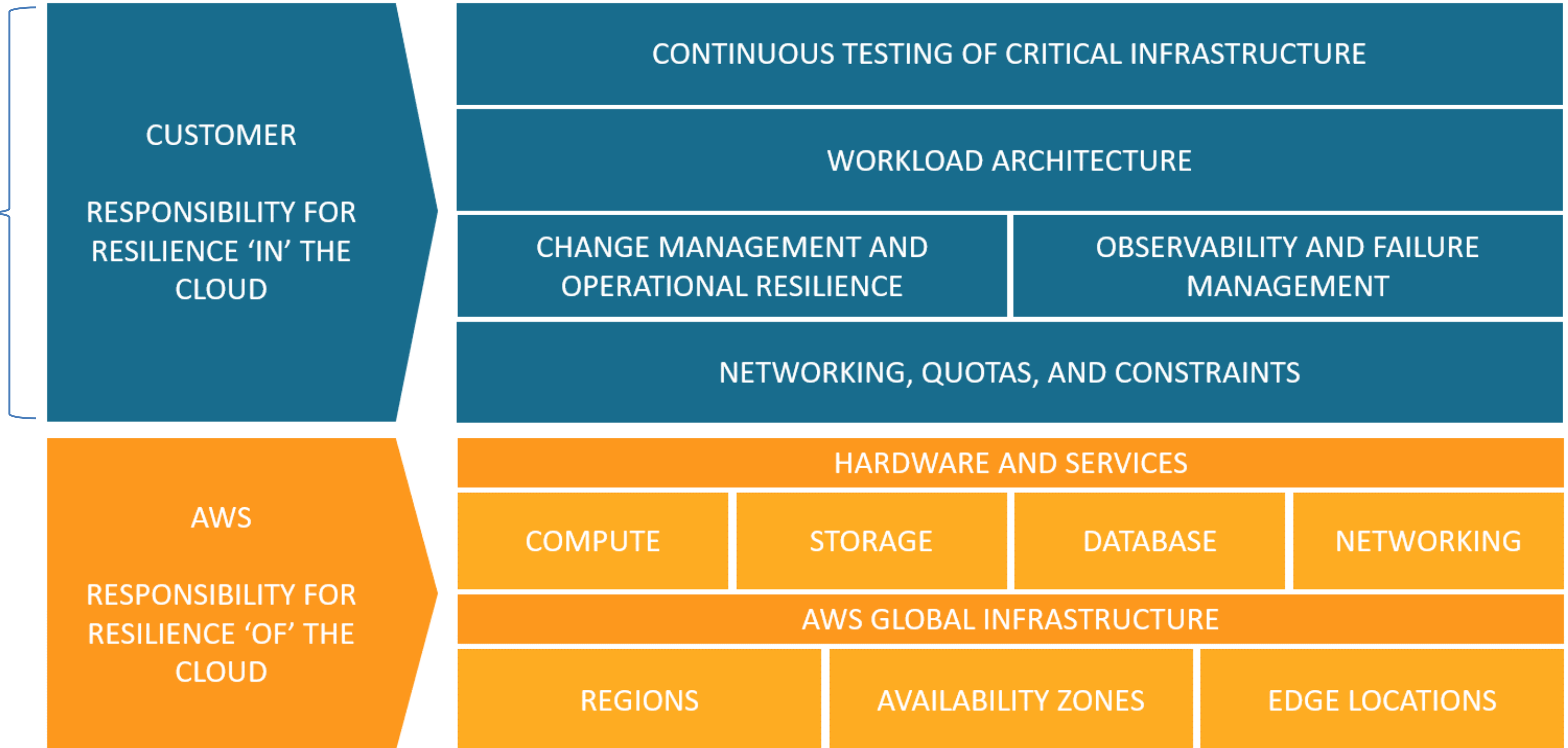
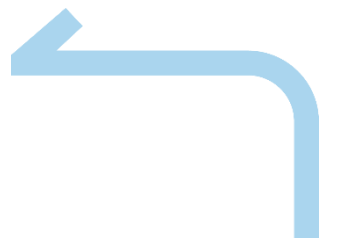
Shared HA Responsibility in the Cloud



Source: <https://docs.aws.amazon.com/whitepapers/latest/disaster-recovery-workloads-on-aws/shared-responsibility-model-for-resiliency.html>



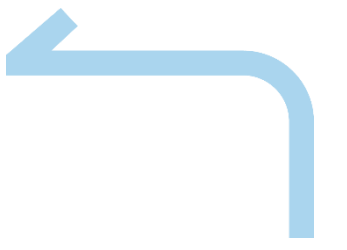
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Many HA Solutions Can Be . . .



**Complex &
manual**



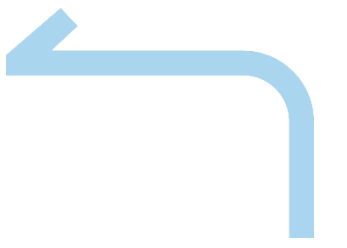
**Unreliable &
unstable**



**Costly & time-
consuming to keep
up with changes**



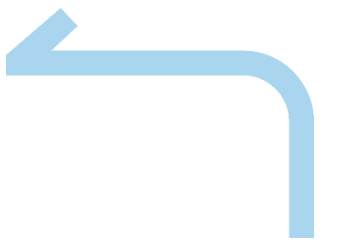
Downtime Takes a Toll on IT



- **Highly Manual**
 - Monitoring to ensure applications are healthy
 - Clustering/DR scripting and management
- **Crisis Mode Response**
 - Drop current tasks to respond
 - Identify root cause of problem and solution
 - Stress-induced errors
- **Specialized Expertise Needed**
 - Staff shortage
 - Changing role
- **Cloud Challenges**
 - Added complexity
 - Less control
 - No way to do realistic DR testing



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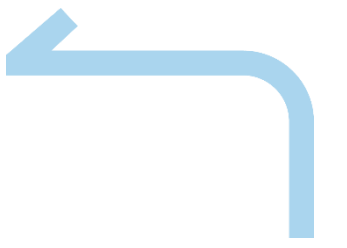


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SIOS Solutions

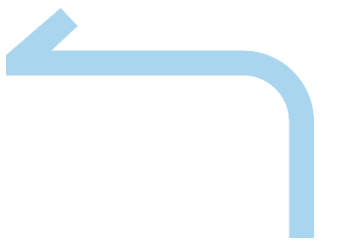


- Protect essential business applications and databases
- Automation and expertise to remove the complexity of high availability and disaster recovery
- Enable the power of the cloud without the risks





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Simplifying Linux Clustering

- **Out-of-the-box stability and tuning**
- Installs in less than 1 hour
- **Reduces maintenance and failover testing by up to 3 days**
 - Per cluster
 - Per year



LifeKeeper

- High-availability failover clustering
- Single- or multi-site configurations
- Any backend storage
- Automatic or push-button failover

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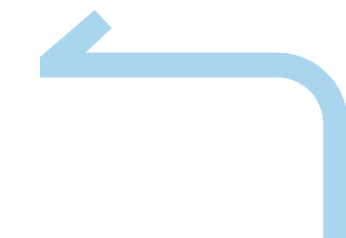
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Application Recovery Kits
provide predefined configuration
for rapid deployment and complete protection



DataKeeper

- Block-level data replication
- Clustering without shared storage
- Synchronous or asynchronous modes
- Works across cloud regions and availability zones



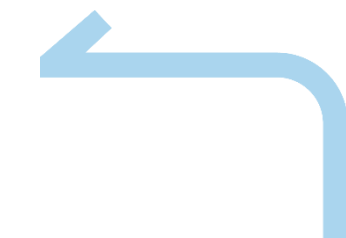
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Multiple cloud providers





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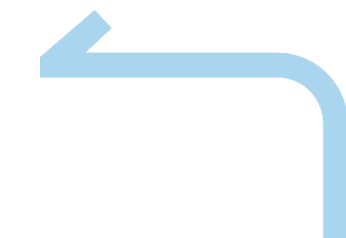
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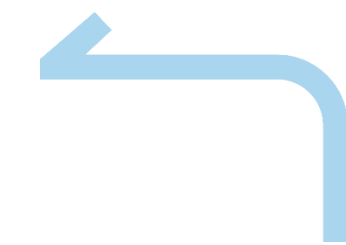
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Application Recovery Kits



Services

- Apache
- Samba
- NFS
- LVM
- Software RAID (md)

Applications

- SAP
- WebSphere MQ
- Any custom application



Databases

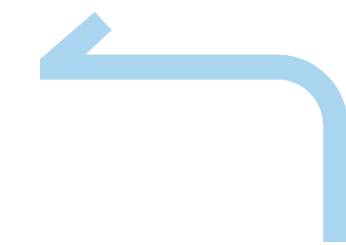
- Oracle
- MySQL
- PostgreSQL
- Db2
- SAP HANA
- Sybase
- MaxDB

Storage

- Data replication
- Hitachi HDLM
- EMC PowerPath
- DMMP
- NAS
- IBM SDD
- Amazon EFS



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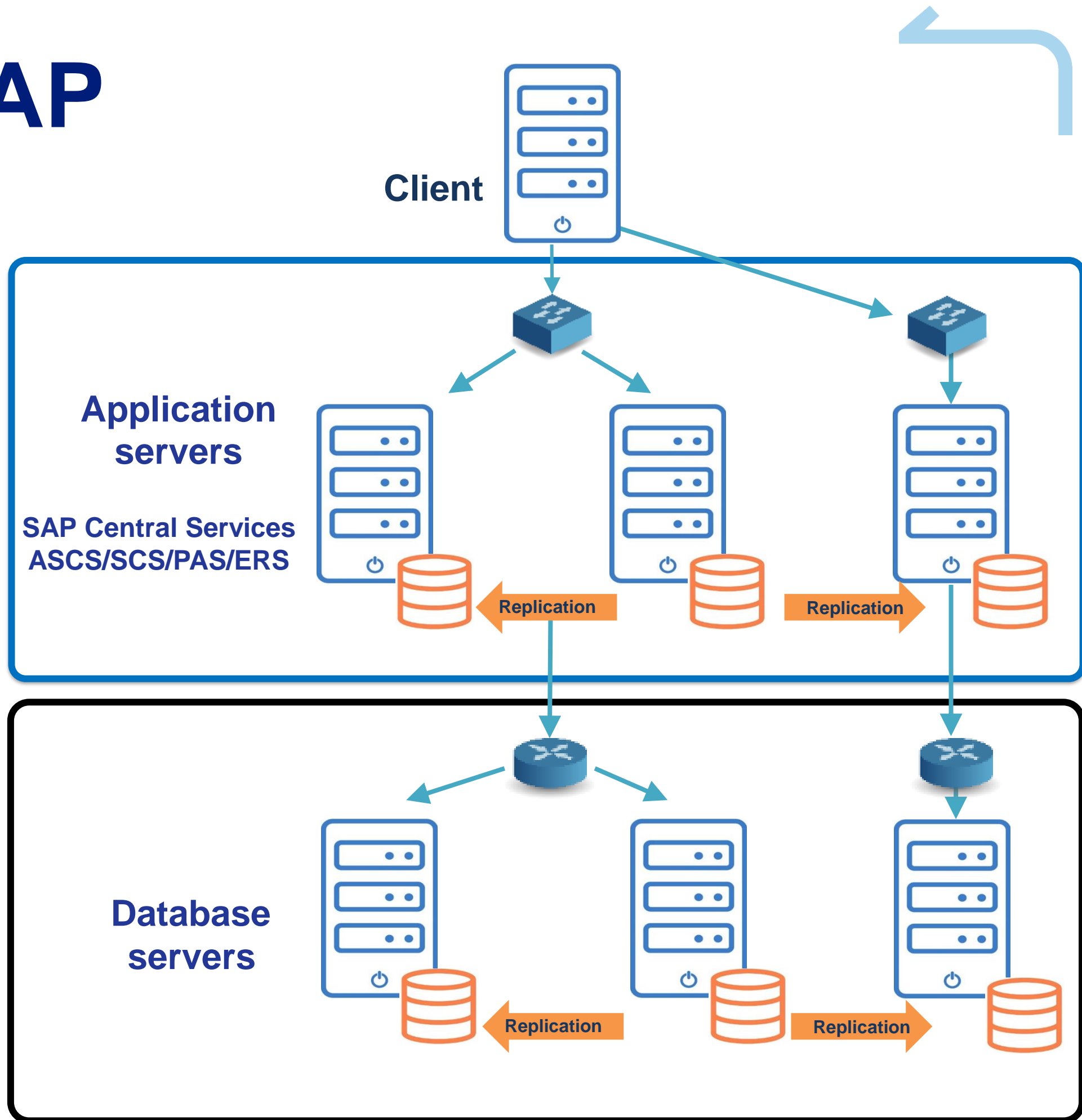
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High Availability SAP

Ensure performance is not restricted by resource allocation constraints

3-node configuration provide protection from regional disasters



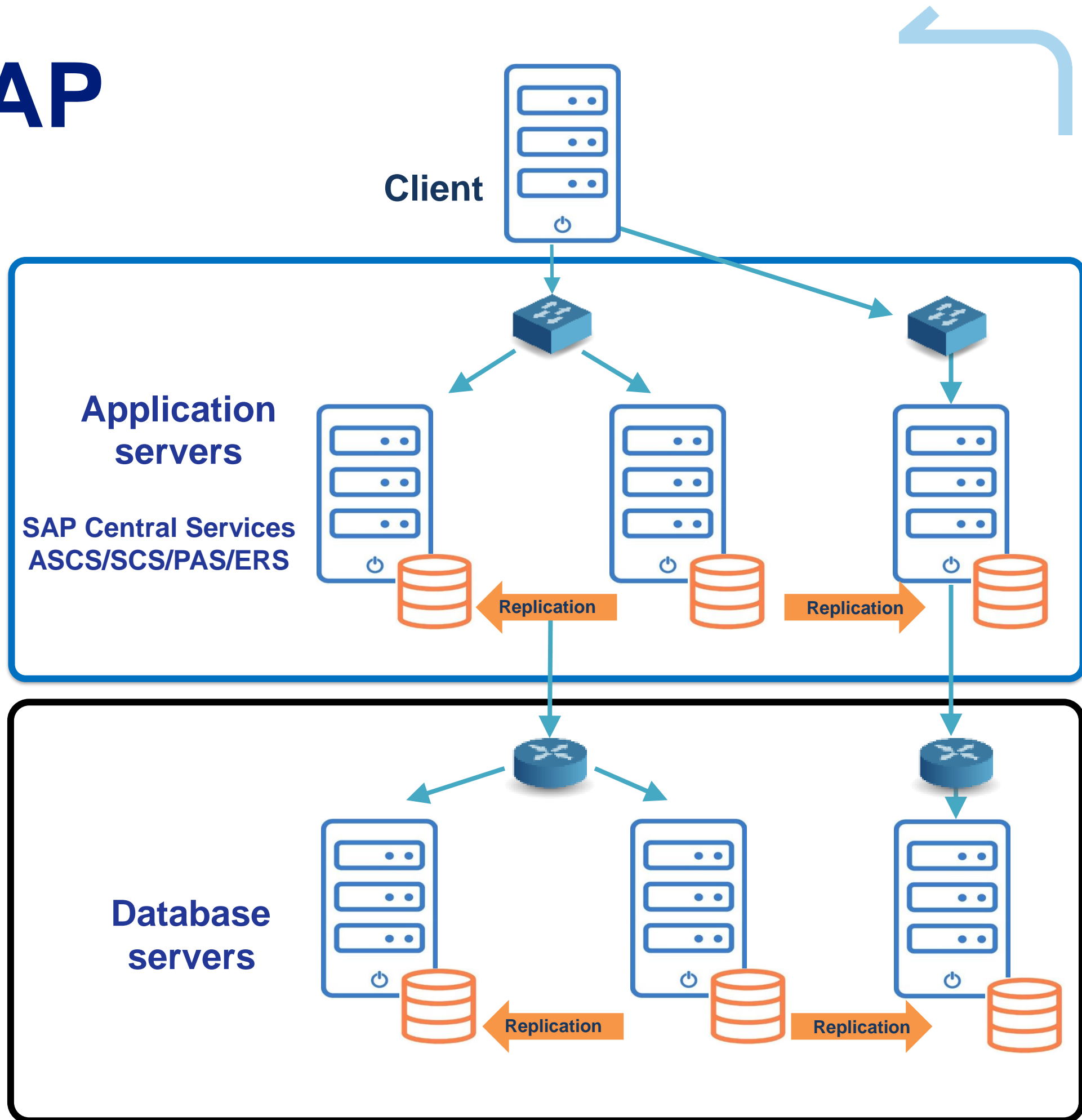
SAP® Certified
Integration with SAP S/4HANA®

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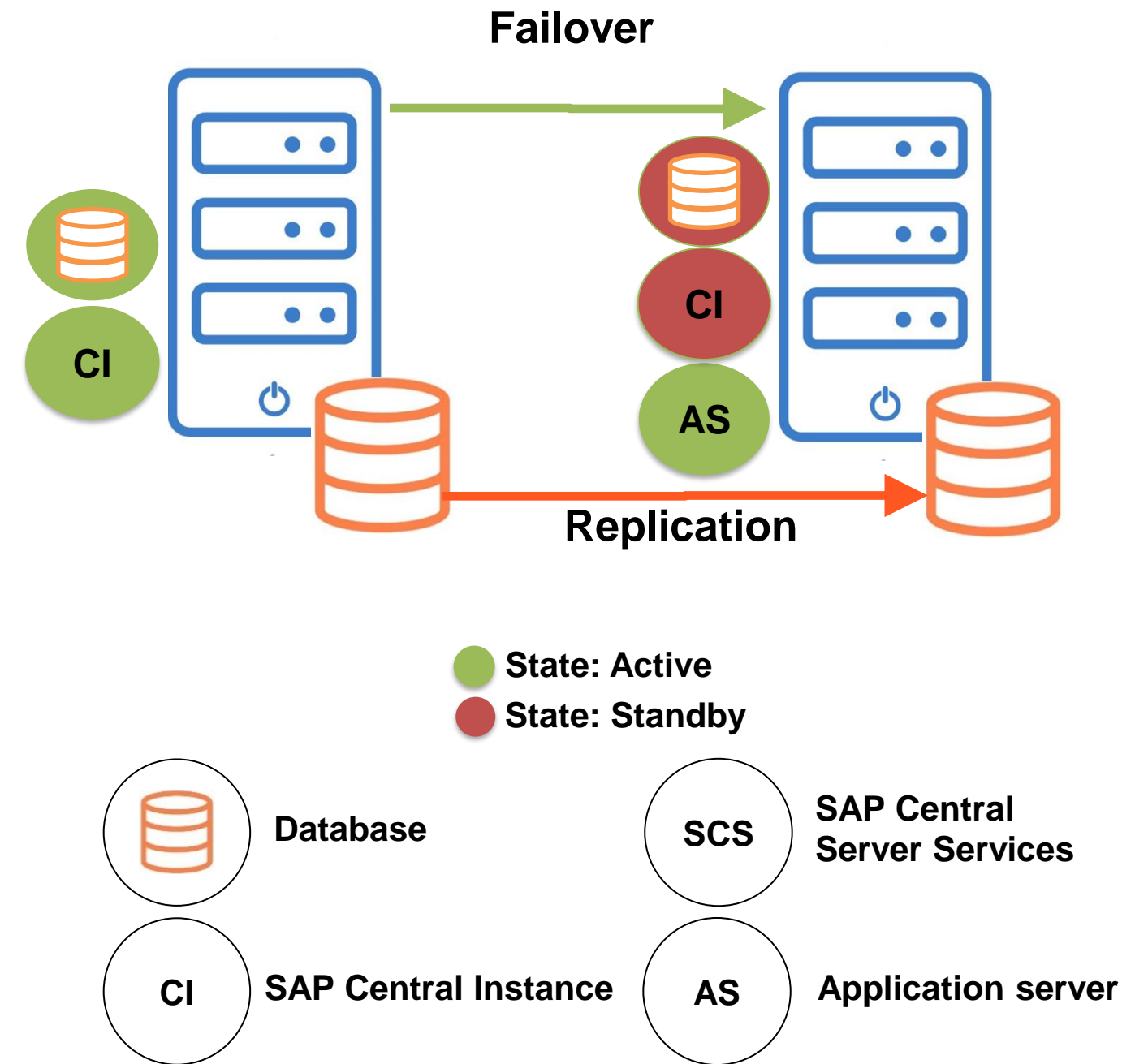


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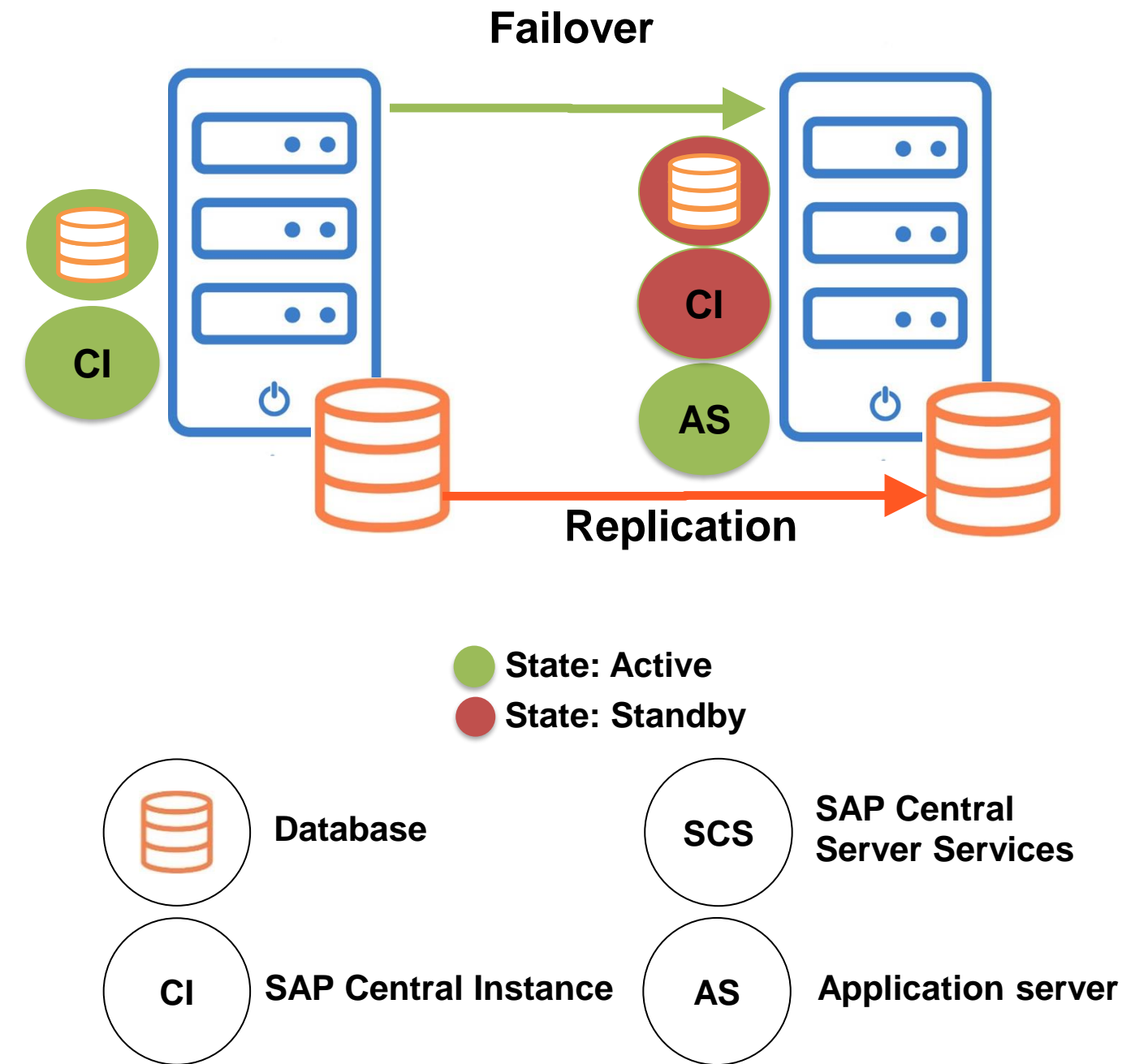
Protection for key SAP components

- Primary Application Server (PAS)
- ABAP SAP Central Services (ASCS)
- SAP Central Services (SCS)
- Enqueue and Message Servers
- Enqueue Replication Server (ERS)
- Database (Oracle, Sybase, MaxDB, HANA, etc.)
- Shared and/or replicated file systems
- Logical volumes (LVM)
- EFS/NFS mounts and exports
- Virtual IPs



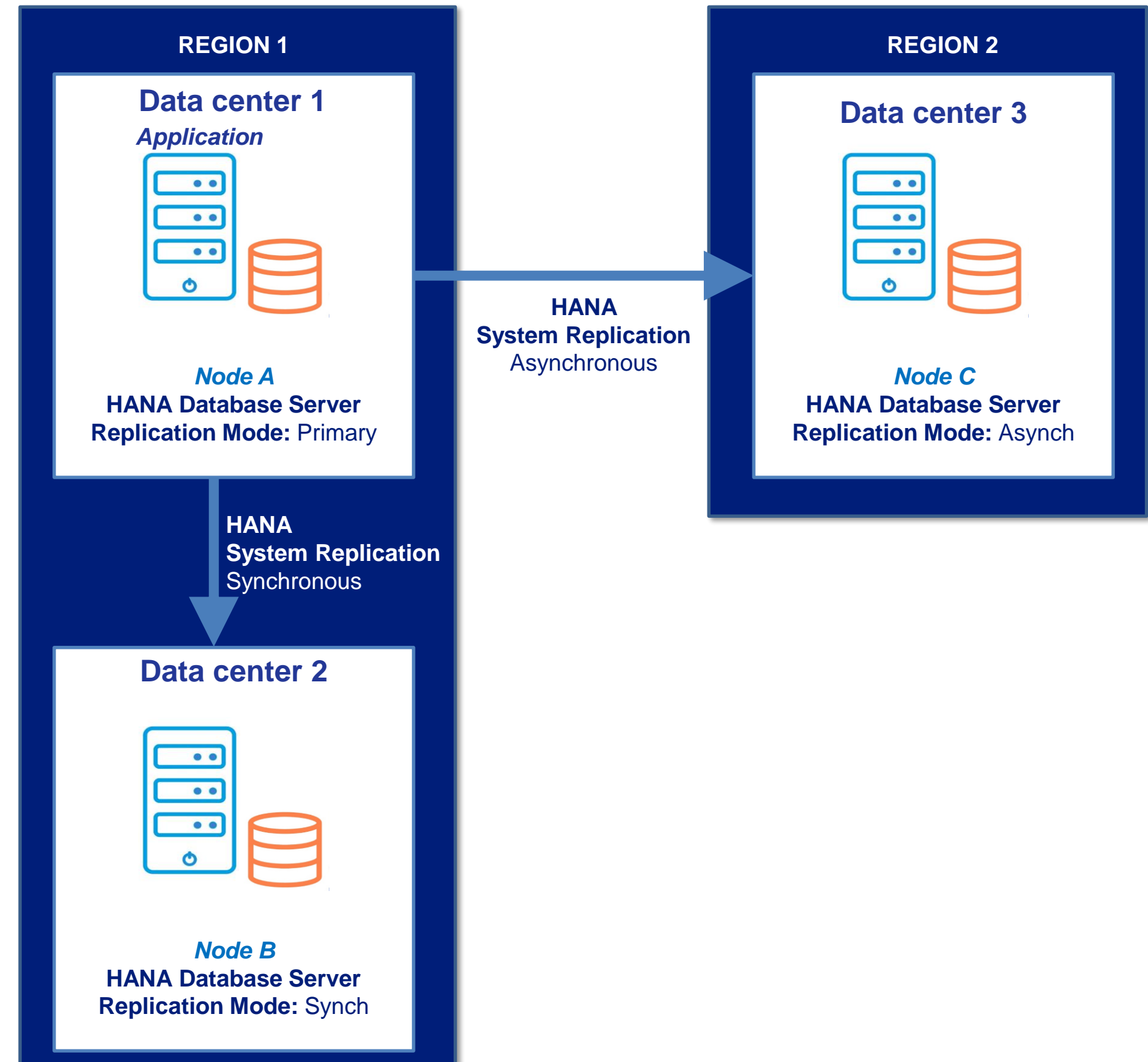
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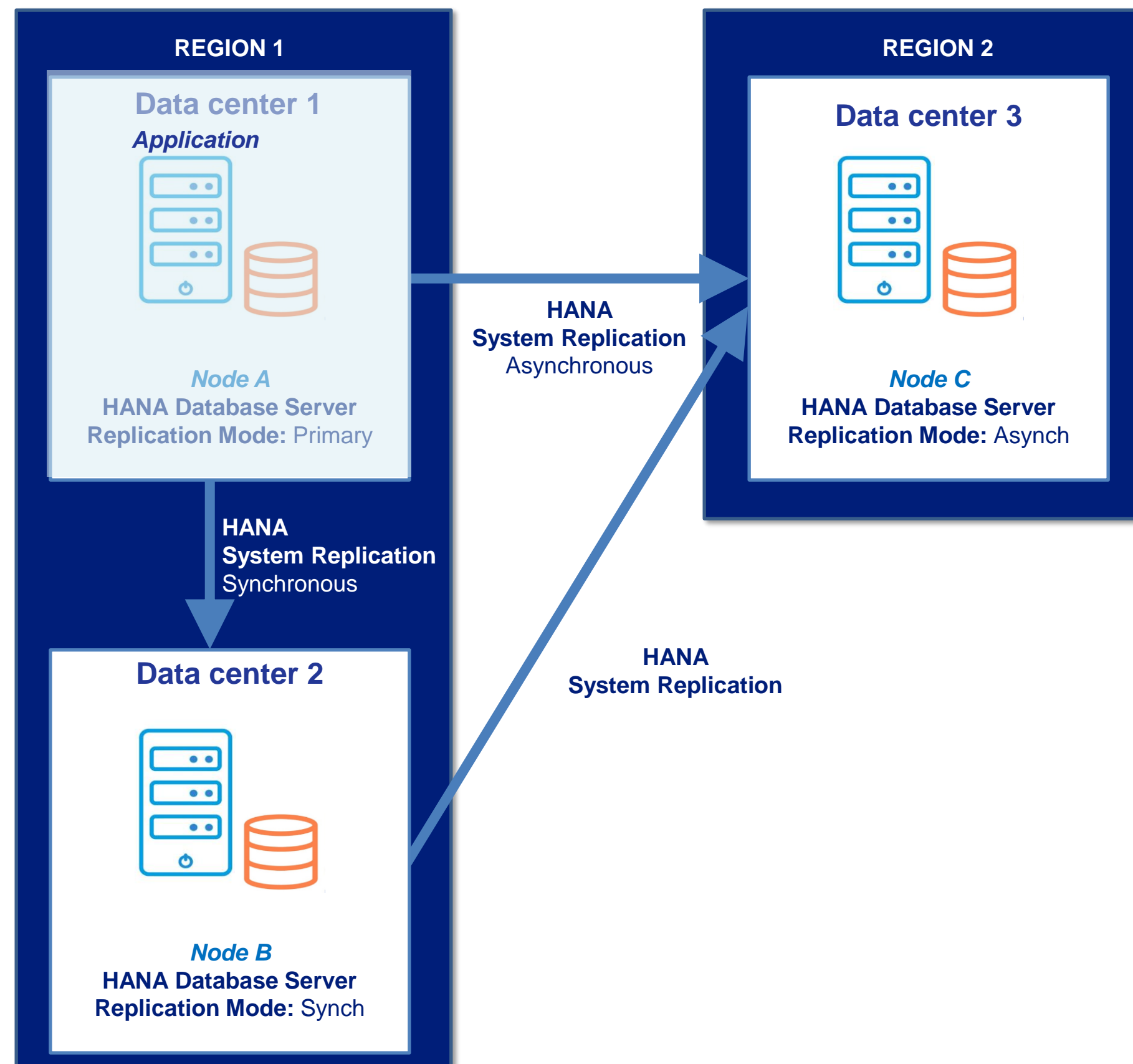
Automated SAP HANA Multi-target

- Supports HANA system replication (HSR)
- Multi-target replication of up to 4 cluster nodes
- Enables failover across cloud availability zones *and* regions
- Flexibility to create synch and asynch nodes for distant DR sites
- Failure on Node A – Node B automatically assumes primary role and replicates to Node C



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DataKeeper Cluster Edition

- Block-level data replication
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Add Flexibility to Windows Server Failover Clustering

- ✓ **Delivers advanced cluster protection for 70% less cost**
 - Eliminates costly upgrades to SQL Server or Oracle Enterprise Edition just for HA
- ✓ **Widest support for SQL Server versions**
- ✓ **Enables WSFC in cloud without complex shared storage**

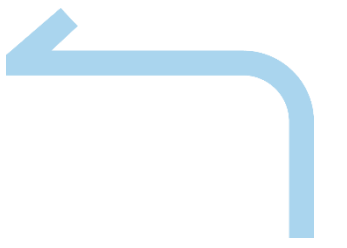


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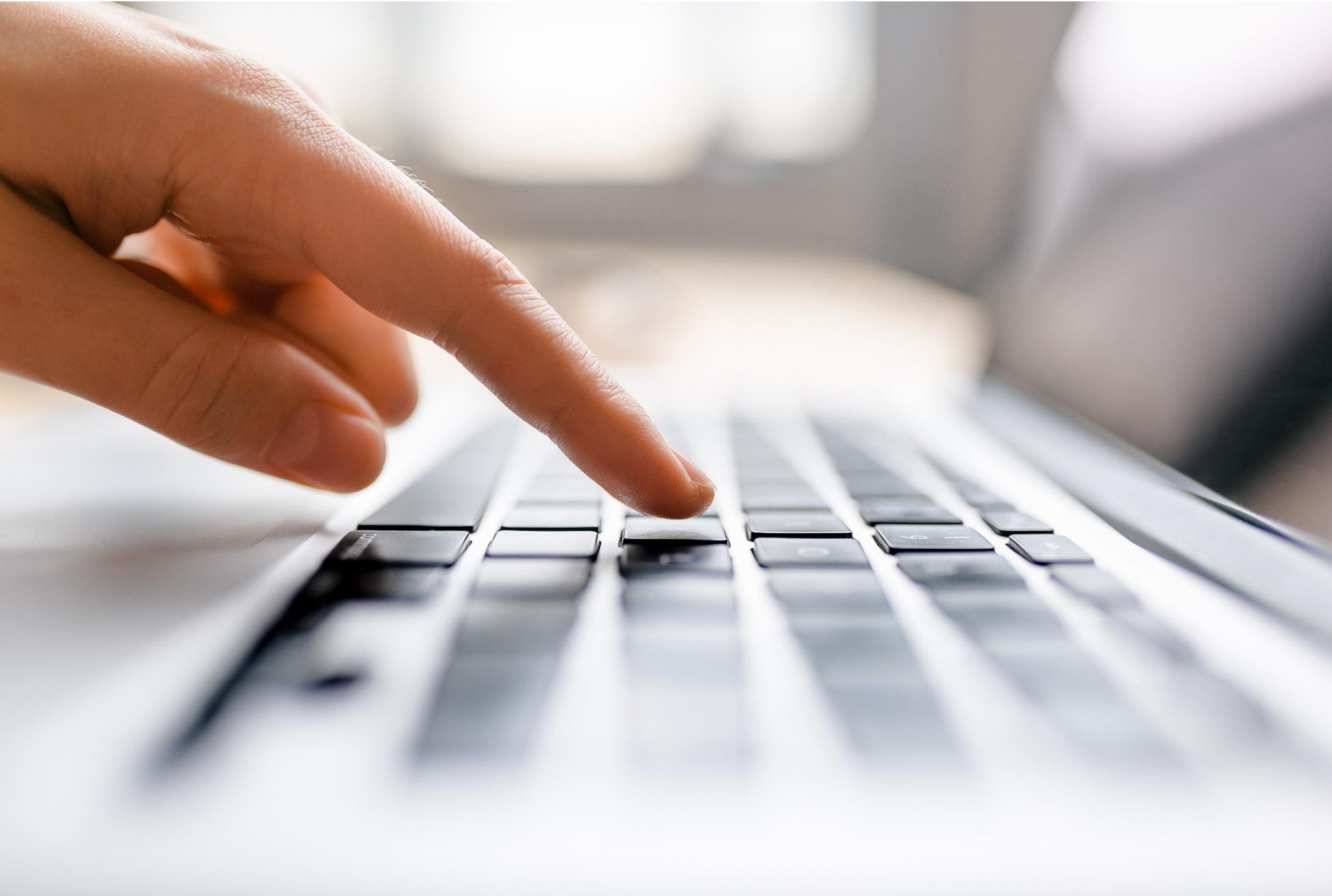
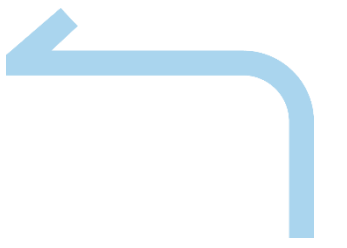
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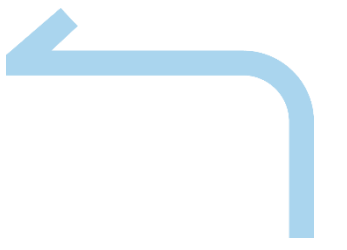
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