datasciences
corporation

BANKING IT INFRASTRUCTURE GUIDE

Future-Proofing South African Banks with Scalable, Secure, and Compliant IT Solutions

South Africa's banking landscape is evolving rapidly, driven by digital transformation, regulatory pressure, and increasing cost control. In this guide, we explore how modern IT infrastructure—led by hybrid models, secure storage, and smart architecture—can empower financial institutions to thrive under pressure.

Key Challenges in South African Banking IT

- Budget constraints and vendor competition
- Rising pressure to comply with POPIA and other data regulations
- Fragmented IT systems from legacy infrastructure
- Unpredictable cloud costs and performance concerns
- Political and operational changes within banks

The Case for Modern Infrastructure

Modernising banking IT is no longer optional—it's essential.
 Banks need:

- Scalability to match user growth and system loads
- Resilience for disaster recovery and uptime
- Security to comply with regulation and protect sensitive data
- Efficiency to reduce operational expenditure and consolidate vendors

Hybrid Cloud: The Smart Middle Ground

Many banks are moving away from full-cloud due to high costs and control limitations.
Hybrid IT allows you to:

- Use on-prem infrastructure for secure workloads
- Leverage cloud for scale and agility
- Optimise costs with subscription or CapEx models (36–60 month cycles)

Storage & Backup that Works for Banks

With technologies like Pure Storage, VAST, Commvault, and Hydrastor, we deliver:

- High-speed, redundant storage for banking data
- POPIA-compliant backup and disaster recovery
- Scalable, tiered storage solutions to manage cost and access

Compliance-Ready Architecture

Data privacy is non-negotiable. We support:

- Built-in encryption and data sovereignty controls
- Fully documented data flows and audit trails
- POPIA-compliant design principles

Proven Partner Ecosystem

Our banking infrastructure is backed by:

- **Pure Storage** – Flash-first data solutions
- **VAST Data** – Exabyte-scale storage performance
- **Commvault** – Unified data protection and recovery
- **Hydrastor** – High-speed backup and deduplication

Trusted by South Africa's Leading Banks

Data Sciences Corporation is the infrastructure partner of choice for major financial institutions in South Africa. Our solutions are already powering resilient, scalable, and compliant IT environments for some of the country's most respected banking brands—helping them modernise, stay secure, and deliver on performance.

How DSC Supports Banking IT Teams

- Dedicated banking infrastructure specialists
- Workshops and assessments for IT planning
- 24/7 support tailored to mission-critical financial systems
- Integration with technical teams and stakeholder training

Get Started With Data Sciences Corporation

We offer:

- Complimentary Banking Infrastructure Audit
- Strategic consulting to align your IT roadmap
- Seamless implementation with proven technologies

GET IN TOUCH

📞 +27 861 777 372

✉ INFO@DATASCIENCES.CO.ZA