

# SERVER AND STORAGE SOLUTION



# INTRODUCTION

*Preparing, financing and implementing infrastructure projects in Sub-Saharan Africa*

Founded  
**1983**  
DBSA  
Act 1997

Owned  
**100%**  
by SA  
Government

Total assets  
**R82.3bn**  
Equity  
**R35bn**

Externally  
rated

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DBSA foreign  
currency rating is  
**Baa3**  
(Moody's)

Well  
governed

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Unqualified audits

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**A+** rating  
from AADFI PSGRS

Globally  
accredited

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Global Environmental  
Facility

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Green Climate Fund  
EU 6-pillar

# DBSA PRIMARY FOCUS

## Primary Focus



### DBSA's primary focus



# BACKGROUND

## *Purpose and Background*

The **purpose** of this document is to detail the Terms of Reference (ToR) for the appointment of a suitably qualified vendor to design and implement a Hyper converged server and storage solution.

- The DBSA currently has an IBM server and storage solution that is reaching end of life. The current solution hosts all the Banks Hyper-V virtual servers. It also integrates into a Cisco network. The Bank is looking for a hyper converged server storage solution to completely replace this aging equipment. The intention is to move away from the traditional server and storage technology to a virtualized server and storage solution that provides more of an infrastructure as a service architecture.

# DELIVERABLES

## *Deliverables, Outputs and Timelines*

- Server storage solution with high availability,
- Housing cabinet,
- 3-year support and maintenance agreement,
- 2 training and certification offers (credit or voucher with flexibility to choose dates),
- Monitoring capability, and
- Server Storage Blueprint and Standard Operating Procedure documentation
- Project plan for the duration of the implementation

# SCOPE OF WORK

## *Deliverables, Outputs and Timelines*

- Hyper converged virtualized compute, storage and network
- Redundancy, the solution will be hosting the Bank's core systems and must be fault tolerant with no single point of failure (high availability).
- Provide sufficient CPU cores to run the above servers and provide capacity to add another 30%
- Provide sufficient capacity for growth. The initial capacity should be 150 TB and allow for growth of 10% per year
- Integrate into the Banks Cisco network, specifically the dual 6800 core switches.
- A cabinet(s) to house the equipment.
- Able to run MS Windows Server Data Centre 2016 or higher and above hosts running multiple versions of MS Windows Server Virtual Machines(The licenses will be provided by the DBSA)
- Provide advisory and implementation assistance for a hybrid on premise and MS Azure solution.

# SCOPE OF WORK

## *Deliverables, Outputs and Timelines*

- 3-year support and maintenance contract, that include break/fix with a response time of 1 hour and 4 hours to repair. The contract should also include all firmware upgrades, bug fixes and performance tuning. A quarterly health check should also be provided.
- Training and certification for server/storage specialists.
- Monitoring tools to manage the day to day performance of the solutions
- Monthly health checks of the environment
- Setup of standard reports; monthly and quarterly
- Documentation of appropriate Standard Operating Procedures
- Provide a low-level design document and A1 printed architecture and editable digital version to maintain updates, when necessary.

# SCOPE OF WORK

## *Deliverables, Outputs and Timelines*

- Migration strategy for the VMs from the old to the new infrastructure
- Provide a high-level project plan with timelines

# QUESTION

## *Questions*

- Indicate the application that are currently being hosted?

**See attached spreadsheet.**

- What is the future cloud strategy

**DBSA wants an environment that can seamlessly be used/integrated with MS Azure.**



**THANK YOU**