



TANZANIA INVESTMENT CENTRE



SERVER DOWNTIME ANALYSIS REPORT

MARCH 2025

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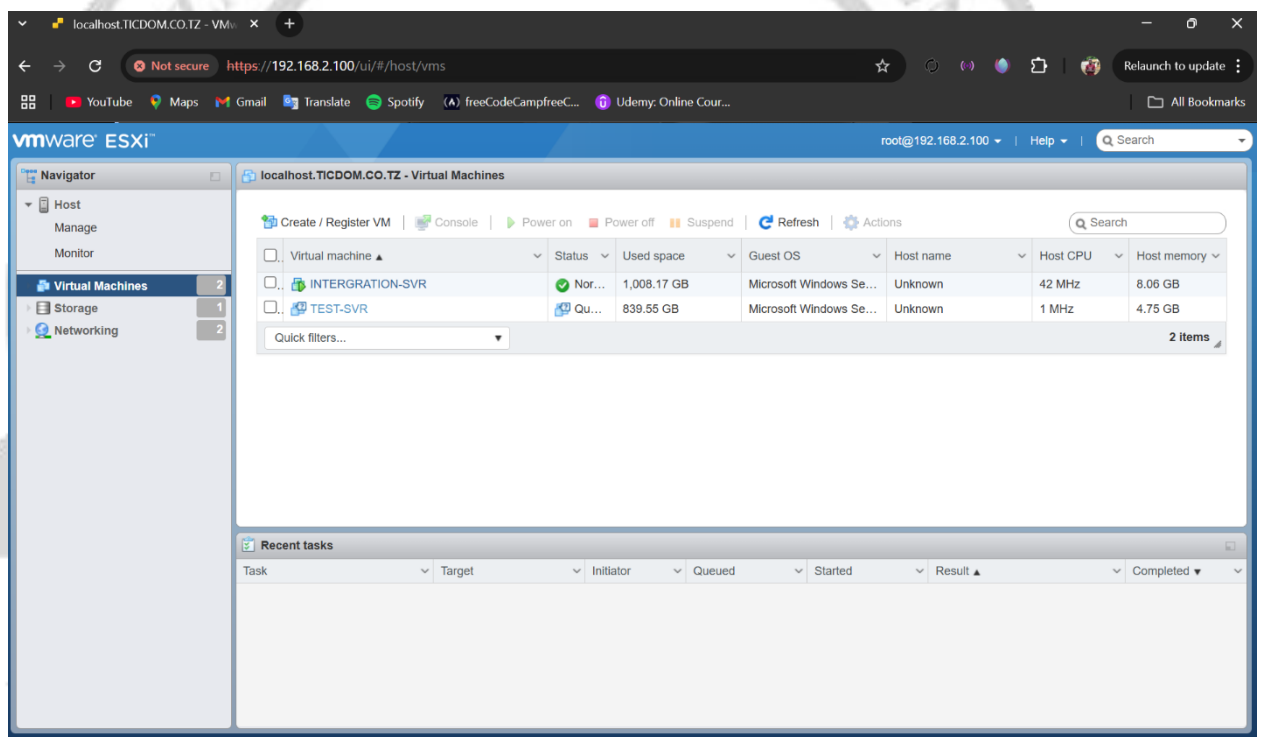


1. INTRODUCTION

This report presents an analysis Server downtime regarding the HPE ProLiant Generation 9 Server (IP: 192.168.2.100), which hosts two virtual machines:

- i. **Test Server** (IP: 192.168.2.111)
- ii. **Integration Server** (IP: 192.168.2.102)

The analysis was prompted by issues observed on the Test Server being inaccessible, which was found to be at full storage capacity, triggering frequent warning messages. This report details the findings, risks, and recommended solutions.



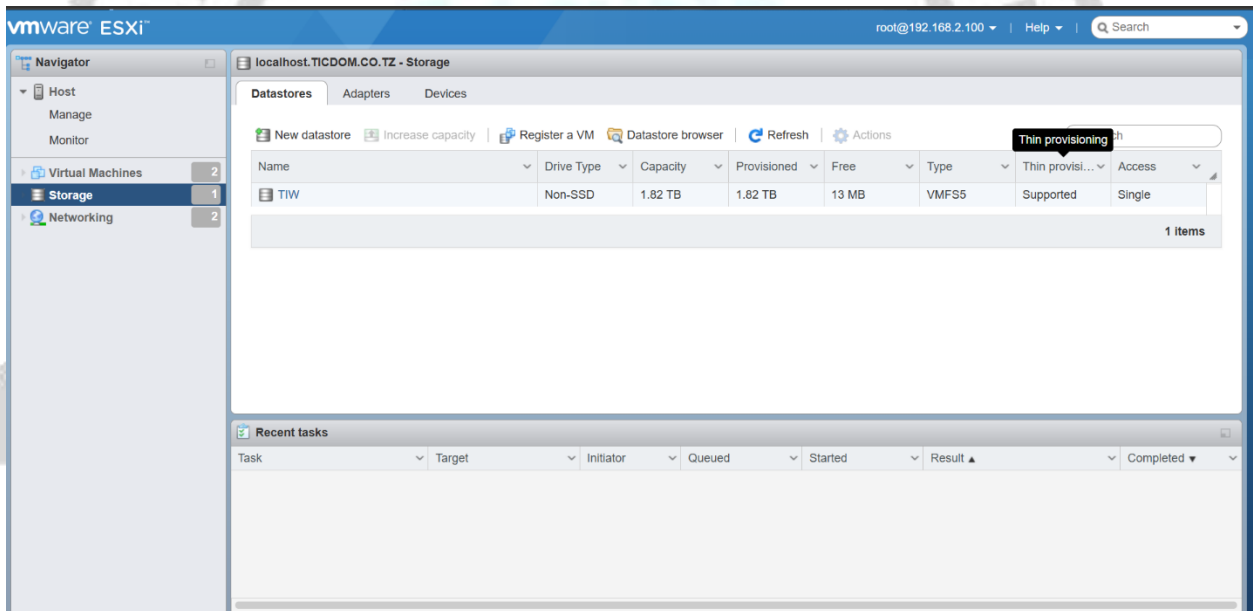
2. FINDINGS

- i. The **Test Server (192.168.2.111)** has reached its storage capacity, resulting to its **downtime** and warning messages appearing in the VM UI every 60 seconds.
- ii. The server is configured with **thick provisioning**, which has prevented the entire virtual environment from failing.

- iii. Despite thick provisioning safeguarding other VMs from immediate impact, failure to address the issue promptly may lead to system performance degradation and potential downtime to the **Integration Server (192.168.2.102)**

3. RISKS IDENTIFIED

- i. **Service Downtime:** The Test Server (192.168.2.111) services are down and can not be accessed both in-house and remotely.
- ii. **Potential Impact on Other VMs:** While thick provisioning has mitigated immediate failures, continuous storage saturation could indirectly affect the Integration Server due to resource allocation constraints.



4. RECOMMENDED SOLUTIONS

To address the storage issue and ensure system stability, the following actions should be taken:

- i. **Adding Additional Disk Space:**
- Procurement of Additional disk should be done immediately.
 - Extend the allocated storage for the Test Server.
- ii. **Performing RAID Configuration:**

- Implement or expand a **RAID configuration** to optimize storage performance and redundancy.
- Configure **RAID 5** to improve fault tolerance and reduce risks of data loss.

