logo.png

**Application & DB Segregation: BRD**

**Objective:**

Objective for Application & DB Server Segregation:

The primary goal of segregating the Application and Database servers is to enhance the security, performance, and manageability of our LOS (Loan Origination System) application. By implementing a 2-tier architecture, we aim to achieve the following objectives:

1. \*\*Security Enhancement: \*\*

- Isolate sensitive data within the database server to minimize the risk of unauthorized access.

- Implement stricter access controls and firewall rules for both the application and database servers.

2. \*\*Performance Optimization: \*\*

- Distribute the processing load more efficiently by dedicating specific resources to the application and database tasks, leading to improved overall system performance.

- Alleviate potential bottlenecks and enhance scalability for better responsiveness.

3. \*\*Improved Manageability: \*\*

- Simplify system maintenance and updates by isolating changes to either the application or database server, reducing the complexity of deployment procedures.

- Facilitate easier monitoring and troubleshooting of individual components, aiding in timely issue resolution.

4. \*\*Fault Isolation: \*\*

- Minimize the impact of failures by containing issues within the affected server, preventing widespread disruptions to the entire system.

- Enhance system reliability and availability by isolating potential points of failure.

5. \*\*Compliance and Auditability: \*\*

- Align with industry best practices and compliance standards by implementing a secure and well-organized architecture.

- Facilitate easier auditing processes and ensure adherence to regulatory requirements regarding data protection.

6. \*\*Scalability: \*\*

- Lay the foundation for future scalability by separating the application and database layers, allowing for easier expansion as the business grows.

- Accommodate increased user loads and data volumes without compromising system performance.

7. \*\*Resource Optimization: \*\*

- Allocate resources more efficiently by tailoring the specifications of each server to the specific demands of either the application or database, ensuring optimal utilization.

By achieving these objectives, we aim to create a more robust, secure, and scalable infrastructure for our LOS application, ultimately improving the overall reliability and performance of our system.

**Activity**

|  |  |  |
| --- | --- | --- |
| Activity | Relationship Officer (RO) | Branch Manager (BM) |
| CIMS Web Application | Yes | Yes |
| CIMS Mobile Application | Yes | No |
| Monitri Web Application | Yes | No |
| Monitri Mobile Application | Yes | No |

**Current Process:**

Currently, both the web and mobile applications are hosted on a single server.

**Change Required:**

it is advised to establish a 2-tier architecture for our LOS application.

Therefore, we kindly request you to promptly segregate the application and database servers.

**Plan of Diagram :**

