

# Vulnerability Assessment Report

1<sup>st</sup> January 20XX

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## System Description

The server hardware consists of a powerful CPU processor and 128GB of memory. It runs on the latest version of Linux operating system and hosts a MySQL database management system. It is configured with a stable network connection using IPv4 addresses and interacts with other servers on the network. Security measures include SSL/TLS encrypted connections.

## Scope

The scope of this vulnerability assessment relates to the current access controls of the system. The assessment will cover a period of three months, from June 20XX to August 20XX. [NIST SP 800-30 Rev. 1](#) is used to guide the risk analysis of the information system.

## Purpose

The database server functions as a centralized computer system responsible for storing and managing extensive data sets. It stores customer information, campaign data, and analytics, which are crucial for tracking performance and customizing marketing strategies. Securing this system is paramount due to its frequent utilization in marketing operations.

## Risk Assessment

Threat source	Threat event	Likelihood	Severity	Risk
Hacker	Obtain sensitive information via exfiltration	3	3	9
Employee	Disrupt mission-critical operations	2	3	6
Customer	Alter/Delete critical information	1	3	3

## **Approach**

The measured risks took into account the business's data storage and management procedures. Potential threat sources and events were identified based on the likelihood of a security incident, considering the open access permissions of the information system. The severity of potential incidents was evaluated in relation to their impact on daily operational needs.

## **Remediation Strategy**

Implementation of authentication, authorization, and auditing mechanisms to ensure that only authorized users access the database server. This includes using strong passwords, role-based access controls, and multi-factor authentication to limit user privileges. Encryption of data in motion using TLS instead of SSL. IP allow-listing to corporate offices to prevent random users from the internet from connecting to the database.