

# 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

Consider the following questions to help you write:

- *The database server holds all of the data for this small business. This can be extremely sensitive information for customers. If this data is stolen, it could mean an extreme privacy breach.*
- *To ensure that a privacy breach does not occur and that the user data is safe.*
- *Customers could lose trust in the business. Also, some legal repercussions could be in order.*

## Risk Assessment

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

## **Approach**

Risks considered the data storage and management methods of the business. The likelihood of a threat occurrence and the impact of these potential events were weighed against the risks to day-to-day 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.