|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Asset | Threat | Likelihood | Impact | Priority | Justification | Mitigation |
| Database that contain customer records | Unauthorized access | 3 | 3 | 9 | The likelihood of the threat is high because of the absence of security measures like encryption to protect customer records stored in the database. The impact is high given international regulations such as GDPR and NDPR that guides the confidentiality of customers records which could result to fines if not adhered to. Also, the records contain sensitive information like the account details of customers which can cause reputational damage if leaked. | Customers records should be encrypted.The principle of least priviledge should also be implemented to limit access to sensitive information. |
| Local server | Unavailability of data due to malware attack | 2 | 3 | 6 | Threat actors can easily infiltrate the server because the office that house the server is opened to everyone and there is no firewall configuration. If this happens,there can be a downtime which will affect the productivity of the company and cause financial loss in the case of a ransomware. | Strong firewall rules should be implemented. Also,a strong password policy should be enforced in line with the new password policy of 8 characters including numbers, both uppercases and lower cases and a special character. Finally,a backup plan should be in place |
| Employee laptops | Unauthorized access | 2 | 2 | 4 | The laptops can easily be compromised by hackers to get information about company's transactions and activities which could lead to reputational damage if company's infotmation is leaked.There is currently no password policy that protect access to the laptops. | Multiple factor authentication should be used to confirm authorized users as well as a strong password policy. |
| Web application and website | Data Breach | 1 | 3 | 3 | The web application can be intercepted by a hacker which can result into stolen data. Although,the web is controlled by a third-party organization which can reduce the likelihood,the effect of a breach can cause reputational damage. | A strong password policy should be implemented on the website. |