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| **CUSTOMER\_NAME** |
| **Storage Resiliency Assessment**  **Report**  IBM Storage |
| PRESENTATION\_DATE |

A person holding a computer

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# Overview

IBM is pleased to present CUSTOMER\_NAME a report based on our findings from the IBM® Storage Cyber Resiliency Assessment which was completed by the CUSTOMER\_NAME Storage team in PRESENTATION\_DATE. It is understood that an effective cybersecurity resiliency program must be grounded in effective systems and processes that provide valuable insight into information and events that occur within an environment and provide the confidence for an orchestrated storage resiliency process in order to not disrupt CUSTOMER\_NAME’s business continuity objectives. By evaluating the current cybersecurity and resiliency environment, the organization now has specific recommendations designed to help increase the value of the solutions and services in its environment to meet RTO and RPO requirements.

Additionally, CUSTOMER\_NAME technology will be able to help deliver faster return on investment and higher operational productivity by leveraging time-tested practices and updates to product features and resiliency functions. It will be able to help decrease errors and inconsistency through the implementation of the incremental recommendations we have provided in this document.

# Executive summary

Based on the information gathered during our initial reviews within IBM as well as the responses on the assessment, CUSTOMER\_NAME has realized great value from its investment in cyber resilience and is generally above the average with other customers that IBM has

worked with. However, there are a few areas where CUSTOMER\_NAME has exposure to risk resulting in unrecoverable data loss or corruption and where more value can be realized.

Notes Summary:

It is Important that CUSTOMER\_NAME’s senior management must understand that risk is the new normal. Being a digital enterprise in 2021 incurs significant risk and Cyber Resiliency (protection, data vaulting, air-gapping, and recovery) is now an absolute part of the cost of doing business.

Cyber resiliency should be viewed as a dynamic and ever-evolving practice that requires continuous improvement and focus. With the continued expansion of the threat landscape and pace of technology change, it is imperative that organizations constantly take inventory of how they are doing and where they need to be evolving.

Please review the Recommendation Section for our roadmap, which, if followed, will improve functionality and increase the value realized from implementing resiliency and disaster recovery best practices and solutions. Establishing a mature cyber security and resiliency plan will enable a more proactive approach in detecting, identifying, and protecting their environments, as well as their ability to respond and recover quickly and effectively.

# Assessment Background Information

**Reference**

This assessment was based on the NIST Cyber Security Framework (CSF) and is focused on storage and the storage environment. Contains references to other industry recognized standards & frameworks: ISO, COBIT, ISA, Council on Cyber Security, among others.

A close up of a sign

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**Purpose**

The Storage CR Assessment provides a bridge mechanism to assess client’s current state and identify gaps against best practice requirements based on the NIST CSF. It helps in the Identification of blind-spots and recommended areas for improvement.

**Maturity Level Definitions**

The numbers in the boxes will be referenced throughout this document to match the score with the maturity level.

A screenshot of a cell phone

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**Executive Summary – Summary View**

The numbers in the table reference the current overall maturity level on each of the assessment’s categories.

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|  | **Your score** | **Maturity Level** |
| **Total score** |  | **Mature** |
|  |  |  |
| **Identify** |  |  |
| Asset Management |  |  |
| Business Environment |  |  |
| Governance |  |  |
| Risk Assessment |  |  |
| Risk Management Strategy |  |  |
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| **Protect** |  |  |
| Identity Management, Authentication and Access Control |  |  |
| Awareness Training |  |  |
| Data Security / Protective Technology |  |  |
| Information Protection Processes and Procedures |  |  |
| Maintenance |  |  |
|  |  |  |
| **Detect** |  |  |
| Anomalies and Events |  |  |
| Security Continuous Monitoring |  |  |
| Detection Processes |  |  |
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| **Respond** |  |  |
| Response Planning |  |  |
| Response Communications |  |  |
| Analysis |  |  |
| Mitigation |  |  |
| Improvements |  |  |
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| **Recover** |  |  |
| Recovery |  |  |
| Recovery Planning |  |  |
| Recovery Improvements |  |  |
| Recovery Communications |  |  |
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**Executive Summary – Maturity Level Graphics**

The spider charts in the table below reference the current overall maturity level scores on each of the assessment’s categories.

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| **Maturity Graph 1** |

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| **Maturity Graph 2** |

**Executive Summary – Ransomware % Achieved**

The pie chart in the table below represents a percentage of ransomware related questions within the assessment which were answered with yes (1) and partially (.5) on the green area and with no (0) and partially (.5) on the red.

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| **Randsomware Graph** |

**Insights**

This chart shows PERCENT\_RANSOM of ransomware readiness. This is evidence that CUSTOMER\_NAME has implemented resilient systems and procedures with the environment and is on a good track to protect the environment from and in case of a ransomware attack. The missing PERCENT\_MISS shows a large area for improvements that can be beneficial for the team. Consider fully implementing a physical, or logical air-gap as well as an immutability solution. Retention sets and isolated local vaults could make a big impact. A workshop and follow-up can be scheduled on that topic.

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| **Importance** | **Recommendations** | **Significance** |

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**Executive Summary – Percentage Achieved Per Category**

The graph in the table represents 14 categories that were measured by the assessment and CUSTOMER\_NAME’s percentage of each category achieved.

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| **Executive Graph** |

**Insights**

CUSTOMER\_NAME has proven to have great understanding of their systems and procedures, as evidenced by their diligent practices around EX\_1 , EX\_2 , and EX\_3 . The Storage team at CUSTOMER\_NAME has proven to apply lessons learned and are proactively looking for ways to improve.

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| **Importance** | **Recommendation** | **Significance** | **Metrics** |

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Implementing simple best practices and having deeper conversations in specific areas can lead to higher scores.

# Recommended Initiatives

Table 1 highlights a prioritized list of major projects that IBM recommends be done to increase the value of the solution to your environment. Any or all these items may be addressed as per the risk appetite and budgetary constraints.

Table 2 highlights a prioritized list of minor projects that IBM recommends be done to increase the value of the solution to your environment. This list includes projects that the client is currently participating in but could use some enhancements. Any or all these items may be addressed as per the risk appetite and budgetary constraints.

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| **Importance** | **Major Recommendations** |

Table - List of **Major** Initiatives

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Table 2 - Prioritized List of **Minor** Initiatives

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| **Importance** | **Minor Recommendations** |

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# *Summary*

CUSTOMER\_NAME’s current cyber resiliency posture with an overall score of SCORE is slightly below average when compared with other organizations supported by IBM in their industry.

It is clear that CUSTOMER\_NAME has invested heavily in their security strategy, processes, and tools. CUSTOMER\_NAME should continue to integrate more tightly, the Disaster recovery, Business Continuity, Governance, and Security functions to encourage collaboration.

Notes:

Recommended Workshops:

Additional workshops can be planned out based on CUSTOMER\_NAME’s interests and our recommendations.

Additionally, we recommend implementing the different best practice recommendations highlighted on the Major and Minor Recommendation Tables in order of importance.

Of course, IBM would like to be CUSTOMER\_NAME’s partner and assist with the journey to a more resilient environment.

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