

Cloud Storage Threat Analysis Document Example

1. Introduction

This document provides an overview of the potential threats associated with cloud storage usage within the organization. It is intended to aid decision-makers and security teams in understanding and mitigating risks.

2. Scope

- Cloud storage providers in use (e.g., AWS S3, Google Cloud Storage, Microsoft Azure Blob Storage)
- Data types stored
- User access scenarios

3. Threat Analysis Table

ID	Threat	Description	Potential Impact	Mitigation
1	Data Breach	Unauthorized access to sensitive data due to misconfigured permissions or compromised accounts.	Loss of confidentiality, regulatory fines, reputational damage.	Strong access controls, encryption, regular audits.
2	Data Loss	Accidental deletion or loss of data due to software errors or insider threats.	Disruption of business operations, data unavailability.	Versioning, backups, disaster recovery planning.
3	Denial of Service (DoS)	Cloud storage services become unavailable due to attacks or provider outages.	Service downtime, loss of productivity.	Redundancy, multi-region deployment, monitoring.
4	Insecure APIs	Exploitable APIs that expose data or allow unauthorized actions.	Compromise of cloud resources, potential data exposure.	API security best practices, validation, and monitoring.
5	Insider Threats	Malicious or negligent employees accessing or sharing sensitive data.	Data exfiltration, regulatory violations.	Least privilege, monitoring, user training.

4. Recommendations

- Implement strict access controls and review permissions regularly.
- Ensure all sensitive data is encrypted at rest and in transit.
- Enable logging and real-time monitoring for suspicious activities.
- Regularly test disaster recovery and backup procedures.
- Educate users about secure cloud storage practices.

5. Conclusion

Regular threat analysis for cloud storage ensures organizational resilience and compliance. Mitigation strategies should be continuously revised as new threats emerge and organizational usage evolves.