

CLOUD STORAGE VULNERABILITIES

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Overview

- What is cloud storage
- Pros and Cons of cloud storage
- What vulnerabilities exist
- How to prevent against them

What is Cloud Storage?

- Save data and files in an off-site location that you access through a network connection (IBM)
- Public Cloud – Connect over the internet, managed by another company
- Private Cloud – Connect over a dedicated network connection, managed by the company

Public Cloud Examples

- AWS
- Microsoft
- IBM SoftLayer
- Google Cloud



(PublicCloudServices)

Pros and Cons with Cloud Storage

PROS

- Disaster Recovery
- High Availability of Data
- Scalability

CONS

- Requires access to the internet
- Fixed Contracts
- Lack of total control

(SecureStorageServices)

What Vulnerabilities Exist

- Misconfiguration
- Unpatched Web Services
- Unsecure credentials
- Privilege errors

(GoodChild, 2023)

Key Recommendations

- Principle of Least Privilege
- Patching
- Vulnerability Scanning

(Kaduri, Silberman, 2023)

AWS Example

- Allows easy multiple locations and servers
- Differing level of user access (servers, audits, managerial)
- System admin can make alterations to the servers
- Easy to misconfigure or overspend on processes

Summary

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- Pros and Cons of cloud storage
- What vulnerabilities exist
- How to prevent against them

References

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Questions

