Internet cloud security: The illusion of inclusion

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Outline

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Introduction

- On the surface, the protection and safeguards appear sufficient.

- NO! it is only illusion

The massive implementation of cloud computing services should be done with certain reservations, in order to avoid falling victims of cloud security threats.
Revealing The Cloud
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Software as a Service (SaaS)
- salesforce.com

Platform as a Service (PaaS)
- ZOHO
- force.com

Infrastructure as a Service (IaaS)
- Amazon Web Services
- 3tera
- IBM

Cloud Providers
- Google
- Facebook
- Windows Azure
- SUITEFLEX

Cloud Services
- Google Apps
- NETSUITE
- ZOHO Work. Online

Cloud Environments
- 計算能力
- 存儲
- 虛擬化
- 網路
- 資料庫
Revealing The Cloud

- Infrastructure as a Service (IaaS)
- Platform as a Service (PaaS)
- Software as a Service (SaaS)
Major Security Issues In The Internet And Cloud Computing Platforms

- Privileged user access
- Regulatory compliance
- Data location
- Data segregation
Major Security Issues In The Internet And Cloud Computing Platforms

- Data recovery
- Investigative support
- Long-term viability
Security Threats To Cloud Computing

- Threat to information privacy and confidentiality
- Threat of shared technology
- Threat to data loss and leakage
Mitigating Cloud Computing Security Threats

- Data encryption
  - Advanced Encryption Standard (AES)

- Preventing network intrusion
  - Multiprotocol Label Switching (MPLS)
  - Virtual Private Networks (VPNs)
  - Virtual Local-Area Networks (VLANs)

- Spam filtering, phishing detection and blacklists
Cloud Computing And Principles Of Security

- To make guarantees to its users.
- These are: confidentiality, integrity, availability, authenticity, and information security and users privacy.
Conclusion

- There are various ways of mitigating these problems in the cloud platform.
- Users need to stay away from the cloud confusion.
- Industry experts point out the risk is mitigated by having copies or backups available to the user.
References


References

Thanks for your listening