IJARSCT



International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)

International Open-Access, Double-Blind, Peer-Reviewed, Refereed, Multidisciplinary Online Journal

Volume 4, Issue 2, June 2024

Securing Cloud Infrastructure: An In-Depth Analysis of Microsoft Azure Security

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Abstract: Amid the rapid expansion of cloud computing, businesses are increasingly recognizing the significance of security, particularly when utilizing platforms such as Microsoft Azure. As companies increasingly shift their operations to cloud environments, the importance of implementing robust security protocols cannot be overstated. Microsoft Azure, a leading provider of cloud services, offers a comprehensive suite of security features designed to safeguard data, applications, and infrastructure. This document presents an in-depth analysis of Azure's security framework, examining its architectural nuances, diverse range of embedded security functionalities, suggested methodologies, and adherence to industry standards. By immersing themselves in the complexities of Azure's layered security model and adopting resilient security measures, companies can adeptly maneuver through the cloud environment, effectively reducing risks and safeguarding the confidentiality and availability of their data and software solutions.

Keywords: Microsoft azure, Azure Security, Cloud Security, Identity and Access Management (IAM), Network Security, Data Protection, Threat Protection, Compliance, Azure Active Directory (AAD), Security Center and Microsoft

DOI: 10.48175/IJARSCT-18863

