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Azure - Citrix Virtualization with ADC Gateway

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Abstract: *Cloud-based virtualization solutions are gaining traction as enterprises seek secure, scalable, and cost-effective IT infrastructure. This paper presents the design, deployment, and security enhancements of Citrix Virtual Apps and Desktops (CVAD) on Microsoft Azure, utilizing Citrix ADC Gateway for authentication, traffic management, and performance optimization. The proposed solution integrates Active Directory (AD), multi-factor authentication (MFA), and SSL encryption to ensure secure remote access. A step-by-step methodology, architecture diagrams, and testing results validate the effectiveness and feasibility of the system. Additionally, we evaluate performance improvements, security features, and cost-effectiveness when compared to traditional on-premises virtualization solutions*

Keywords: Cloud Virtualization, Citrix ADC, Microsoft Azure, Secure Remote Access, Virtual Desktop Infrastructure (VDI), Active Directory, Load Balancing

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