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Wysetek Systems Technologists Private Limited

India's Leading Bank Cuts Network Costs and Boosts Security with Fortinet SD-WAN

PROJECT: Fortinet SDWAN

CLIENT: A leading Indian bank

A leading Indian bank is a major player in India's banking sector, providing retail, corporate, and digital banking solutions to individuals, businesses, and Non-Resident Indians (NRIs). It has expanded its offerings to include savings accounts, personal loans, corporate finance, and trade services. The bank also provides various digital banking solutions, making banking services accessible online and through mobile platforms. While the Government of India remains a significant shareholder in A leading Indian bank, the institution has seen increasing participation from other stakeholders, including the Life Insurance Corporation of India (LIC). A leading Indian bank is in the process of partial privatization, which is expected to drive further efficiency and growth. The bank has earned recognition for its customer service, digital banking innovations, and its strong financial products. As of 2024, A leading Indian bank continues to focus on expanding its digital services and improving its customer experience. The bank faces challenges like managing non-performing assets (NPAs) and adapting to regulatory changes but is strategically positioned for continued growth in India's competitive banking landscape.

CHALLENGE –

To communicate effectively with DC for branch employees for internet and intranet applications, bank were using Traditional network Infrastructure. These traditional networks have several limitations that affect the efficiency and security of digital banking services. One major issue is limited scalability—as these networks often struggle to expand quickly enough to meet the growing demand for services, leading to performance issues, especially during peak usage times. Moreover, managing outdated infrastructure can be complex and time-consuming, requiring manual updates and configurations across branches and data centers, which slows down operations.

Traditional networks also tend to be more vulnerable to cyber threats, as they lack modern security features. This makes it harder to protect against evolving risks and cyberattacks. The high operational costs of maintaining and upgrading such networks are another concern, as the expenses related to hardware, maintenance, and manual configurations can add up quickly.

Additionally, poor application performance can occur due to inefficient traffic routing and the absence of Quality of Service (QoS) mechanisms, which can negatively impact both customer experience and the bank's internal operations. Finally, traditional networks often suffer from limited visibility and control, making it difficult for the bank to monitor network performance, detect issues, and enforce consistent policies across all branches. These challenges emphasize the need for an updated, more efficient network infrastructure to ensure smooth and secure communication for branch employees.

Solution –



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SD-WAN (Software-Defined Wide Area Network) offers a modern, scalable, and flexible solution for banks like A LEADING INDIAN BANK to overcome the limitations of their traditional network infrastructure. With scalability and flexibility, SD-WAN allows banks to easily adapt to changing network needs, making it possible to expand the network infrastructure without compromising performance, even during periods of growth. Simplified network management is another key advantage, as SD-WAN centralizes the entire network management process through a unified platform. This enables banks to automate configurations, updates, and enforce policies across all branches and data centres, saving time and reducing complexity.

In terms of security, SD-WAN provides enhanced features like encryption, network segmentation, and threat intelligence, which strengthens the bank's security posture and helps mitigate cyber risks. Cost efficiency is also a significant benefit, as SD-WAN reduces the reliance on expensive MPLS (Multiprotocol Label Switching) connections, utilizing more cost-effective broadband links while still optimizing traffic flow for better performance.

Additionally, SD-WAN improves application performance by intelligently routing traffic based on the specific requirements of applications, ensuring that critical applications receive priority and consistent performance across the network, which enhances the user experience.

One of the key advantages of SD-WAN is centralized visibility and control. It provides banks with complete visibility into network traffic, application performance, and potential security incidents, empowering the IT teams to monitor, analyse, and manage the network effectively. By adopting SD-WAN, A leading Indian bank can address the current challenges posed by its traditional network infrastructure, creating a more agile, secure, and cost-efficient network that better supports the growing demands of digital banking services.

Fortinet SDWAN Features –

Fortinet provides a comprehensive Secure SD-WAN solution that combines advanced security features with SD-WAN capabilities to improve network performance, security, and management. This solution integrates key security functions such as Next-Generation Firewall (NGFW), Intrusion Prevention System (IPS), antivirus, web filtering, and application control directly into the SD-WAN architecture. It uses application-aware routing to prioritize critical applications based on business needs, ensuring optimal performance and Quality of Service (QoS). Additionally, the solution employs dynamic path selection, which automatically chooses the best path for network traffic, based on real-time conditions and application performance, helping to improve connectivity and user experience.

Fortinet's SD-WAN also features a centralized management platform through Forti Manager, allowing easy configuration, monitoring, and policy enforcement across multiple locations. It ensures secure connectivity by encrypting data in transit and offering secure tunnels for branch-to-branch and branch-to-cloud communication. The solution also includes cloud on-ramp capabilities, which optimize and secure connectivity to cloud applications and services, improving performance. Moreover, the SD-WAN integrates with the Fortinet Security Fabric, enabling shared threat intelligence and automated responses to security incidents across the network.



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To maintain high-quality user experiences, Fortinet's SD-WAN supports Quality of Service (QoS) policies that prioritize critical applications and manage bandwidth effectively. It also offers zero-touch deployment, simplifying the process of setting up SD-WAN devices at branch locations with minimal effort. Finally, the solution provides advanced visibility and analytics, allowing for comprehensive monitoring of network traffic, application performance, security events, and user behavior. This helps organizations proactively manage and troubleshoot their network, ensuring smooth, secure, and efficient operations.

Role of Wysetek –

A leading Indian bank has awarded this task to Wysetek as a technology partner to implement Fortinet SDWAN. Wysetek Systems Technologists Pvt Ltd. leverages more than 3 decades of rich experience in providing Integrated Technology Solutions to SMEs and Large Corporations across India. We are an ISO 9001:2015 Certified company whose prime focus is customer delight.

Solution Impact –

To overcome the challenges faced by the bank's traditional network infrastructure, the deployment of Fortinet's SD-WAN solution has proven to be highly effective. The bank now enjoys scalability and flexibility, enabling it to expand its network seamlessly without compromising performance, even as demands increase. With centralized network management through FortiManager, the bank can efficiently manage configurations, enforce policies, and automate updates across all branches, significantly reducing complexity and manual effort.

Fortinet's integration of advanced security features, such as Next-Generation Firewalls and Intrusion Prevention Systems, enhances the bank's security posture and protects against evolving cyber threats. Furthermore, by utilizing cost-effective broadband links and optimizing traffic flow, SD-WAN has led to substantial cost savings compared to the high operational costs of MPLS connections. Improved application performance through application-aware routing ensures that critical services are prioritized, while dynamic path selection adapts traffic routing in real-time for the best user experience. Additionally, with centralized visibility and control, the bank's IT teams can proactively monitor network performance, address issues, and ensure smooth operations. The solution's zero-touch deployment capability has also streamlined the process of setting up SD-WAN devices at new branches, reducing deployment time and

complexity. Overall, Fortinet's SD-WAN solution has addressed the bank's challenges by providing a more secure, flexible, and efficient network infrastructure, enabling the bank to better meet the needs of digital banking.