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Overview

Our client, the world's largest producer of PET resins, a leading manufacturer of wool yarns, and a prominent producer of intermediate petrochemicals, operates with a global presence and a diverse workforce. With offices and employees across multiple locations, they faced numerous challenges in ensuring secure network access, managing a complex infrastructure, and maintaining compliance with industry regulations. To address these needs, the company partnered with Microland to implement a series of integrated network solutions to transforming network security and management.

Scope and Business Challenge

Facing a complex operational landscape, the client required a robust and efficient IT infrastructure to support its critical operations. Microland managed over 120+ network devices to address the following challenges

- **Unauthorized Access:** Employees and guests could connect devices to the corporate network without proper authentication, risking security breaches.
- **Device Diversity:** The network had to manage a wide range of devices, including laptops, smartphones, tablets, and IoT devices, each presenting unique security and management challenges.
- **Scalability and Management Complexity:** The existing on-premises infrastructure struggled with scaling and centralized network management, leading to operational inefficiencies and increased costs.
- **Security and Compliance:** Maintaining consistent security policies and meeting regulatory requirements across a hybrid network was cumbersome, especially during disaster recovery (DR) scenarios.

Microland Solution

Microland deployed a suite of solutions to address these challenges, improving security, management, and operational efficiency:

1. Aruba ClearPass Deployment:

- Policy Definition: Enabled granular access policies based on user roles, device types, and contextual factors, ensuring only authorized users and devices accessed network resources.
- Authentication Mechanisms: Supported multiple authentication methods, including 802.1X, MAC authentication, and captive portals, catering to various devices and user scenarios.
- Device Onboarding: Streamlined secure onboarding of devices, both corporate and personal, to enforce security policies effectively.

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- Compliance Enforcement: Applied security policies to ensure compliance with industry regulations and auditing of network access activities.

2. Aruba Central Migration:

- Centralized Management: Migrated from on-premises Aruba infrastructure to the cloud-based Aruba Central, allowing centralized management of network elements.
- Scalability and Efficiency: Enhanced scalability and operational efficiency with Aruba Central's cloud-native architecture, reducing management complexity and operational costs.
- Training and Integration: Provided comprehensive training for IT personnel and ensured seamless integration with existing IT systems.

3. Azure DR Palo Alto Deployment:

- Integration and Performance: Deployed Palo Alto firewalls in Azure Hong Kong DR environments, ensuring integration with existing infrastructure and optimizing performance for data replication and threat detection.
- Policy Management: Implemented centralized policy management solutions to maintain consistent security policies across hybrid environments using Panorama.
- Compliance and Monitoring: Followed CIS benchmarks and conducted performance monitoring to optimize security and resource utilization.

4. Azure Panorama Deployment:

- Centralized Security Management: Integrated Azure Panorama with site firewalls to centralize security management, streamline operations, and enhance visibility and control.
- Standardized Configurations: Utilized standardized configuration templates and best practices to simplify deployment and ensure policy consistency.
- Cost Optimization: Reduced operational overhead and simplified management through centralized policy enforcement and automated reporting.

Business Benefits

Since its implementation, Microland has significantly transformed the client's IT operations, delivering impressive results:

- **Enhanced Security:** Improved network security through stringent access controls, advanced threat detection, and consistent policy enforcement.
- **Operational Continuity:** Ensured uninterrupted operations during disaster recovery events with automated failover and recovery processes.
- **Centralized Management:** Achieved centralized management of network infrastructure, reducing complexity and improving operational efficiency.
- **Scalability and Agility:** Enhanced scalability and agility with cloud-based solutions, accommodating future growth and evolving business needs.

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- **Compliance and Control:** Improved compliance with industry regulations and standards and gained better control over network activities and security incidents.
- **Cost Efficiency:** Optimized resource utilization and reduced operational costs through automated management and streamlined processes.

Microland is a pioneering IT Infrastructure services and consulting company headquartered in Bengaluru, India, with a proven track record of delivering tangible business outcomes for 35 years. Today, as enterprises recognize that networks underpin the functionality and efficiency of modern digital systems and support innovation, we provide next-generation technologies such as AI, automated operations, and platform-driven solutions – which drive operational excellence, agility, and productivity for organizations worldwide. Our team of over 4,600 experts delivers services in over 100 countries across Asia, Australia, Europe, the Middle East, and North America, offering cutting-edge solutions in networks, cloud, data centers, cybersecurity, services management, applications, and automation. Recognized by leading industry analysts for our innovative strategies, Microland is committed to strong governance, environmental sustainability, and fostering an inclusive workplace where diverse talent thrives. When businesses work with Microland, they connect with the best talent, technologies, and solutions to create unparalleled value. For more information, visit www.microland.com

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