



Securing and Streamlining Multi-Cloud Data Center Networks Seamlessly

Overview

Cloudsetu, a leading multi-cloud data center infrastructure provider in Jaipur, India, faced critical challenges protecting its distributed cloud infrastructure from evolving security threats while maintaining high availability and operational efficiency. The company required enterprise-grade firewall protection, multi-ISP connectivity with smart load-balancing, and centralized management across all network operations.

To enhance its network security posture and operational visibility, Cloudsetu partnered with Fidelity Networks to deploy Zyxel Networks comprehensive solution featuring the ATP500 Advanced Threat Protection Firewall, GS1920-24 Smart Managed Switch, SecuReporter for logging and reporting, and Nebula cloud management platform. This integrated deployment delivered comprehensive threat protection, zero-downtime WAN failover, and operational simplification. The result: complete network visibility, enhanced business continuity, and notably reduced operational complexity across Cloudsetu's multi-site infrastructure.

Challenges

Cloudsetu faced multiple interconnected challenges that threatened service quality and customer trust. The company operated multiple data centers serving diverse enterprise clients, creating a significant attack surface vulnerable to external cyber threats. Additionally, authorized users such as employees and contractors posed insider threats through potential misuse of network access permissions. The company maintained separate logging and reporting servers across its data centers, resulting in increased infrastructure costs, operational complexity, and delayed incident response. Without centralized visibility, correlating security events across multiple locations proved difficult, and fragmented data sources complicated compliance and audit requirements. Furthermore, dependency on a single internet service provider connection created service disruption risks during ISP outages, limiting Cloudsetu's ability to maximize available bandwidth and guarantee high availability to its enterprise customers. Managing multiple security and networking devices across distributed locations required significant IT resources and created potential for configuration inconsistencies.

Customer

Cloudsetu Pvt. Ltd.

Industry

Cloud Infrastructure & Data Center Services

Location

Jaipur, India

Partner

Fidelity Networks

Customer Background

With 13 years of experience, Cloudsetu Pvt Ltd. is a trusted, cost-effective data center known for its strong customer support and high overall satisfaction. Specializing in AI-driven servers and premium colocation facilities across India, the company delivers secure, scalable, high performance cloud solutions that help businesses grow with confidence.



As our infrastructure expanded, we needed a solution that could keep our network secure and reliable without adding complexity. With the support of Fidelity Networks and Zyxel Networks, we've built a stronger and more stable environment. We now have clear visibility into our network, better protection against threats, and the confidence to scale our services while continuing to deliver a dependable experience to our customers.

Saurabh Sharma

Founder & Director, Cloudsetu Pvt Ltd.

Solutions

To address these challenges, Cloudsetu deployed Zyxel Networks' comprehensive solution consisting of four integrated components working in concert. The ATP500 firewall serves as the primary security gateway, combining on-device scanning with cloud-based threat intelligence to detect and block viruses, Trojans, worms, and advanced malware in real-time. IP reputation filtering automatically blocks traffic from known malicious IP addresses, while DNS filtering prevents access to dangerous domains at the DNS level. The firewall also distributes traffic over multiple ISP connections simultaneously through intelligent load balancing, with automatic failover ensuring constant connectivity and zero-downtime ISP backup.

The GS1920-24 smart managed switch provides the core network switching infrastructure with Layer 2 capabilities, VLAN-based network segmentation, and Quality of Service to prioritize critical traffic in the data center environment. Besides performance and traffic management, the switch enhances security through advanced network access controls such as VLAN isolation, port security, and authentication policies that help prevent unauthorized device access. These built-in security features enable Cloudsetu to protect sensitive data flows, enforce network segmentation, and maintain a secure, well-controlled switching layer across its infrastructure.

SecuReporter, a cloud-based intelligent analytics and report service, operates as a comprehensive logging and reporting platform that aggregates all security events and network activity from the ATP500 firewall.

It provides real-time traffic analysis with detailed visibility by user and geographic location, displays security events with severity-based categorization, and generates comprehensive reports for security analysis and compliance. The platform's automated alerting system notifies IT teams of critical security events, enabling rapid response.

The Nebula cloud networking platform delivers advanced, cloud-managed networking with centralized, single-pane-of-glass control across all locations. Powered by Nebula Pro Pack, Cloudsetu benefits from premium features such as Wireless Health monitoring, advanced analytics, and enhanced device insights that provide real-time visibility into network performance and user experience. The platform enables zero-touch deployment, remote management, and streamlined firmware updates, allowing the IT team to proactively optimize network health and maintain consistent service quality. This intelligent, cloud-first management approach strengthens operational efficiency and supports scalable, future-ready infrastructure growth.

This integrated solution positions Cloudsetu to confidently deliver secure, reliable cloud infrastructure services to enterprise customers while maintaining the operational efficiency required in today's competitive data center market.



Product List



- GS1920-24 Smart Managed Switch



- ATP500 Firewall



- Nebula Cloud Networking Solution
- Cloud CNM SecuReporter

Results

Cloudsetu strengthened its security posture with real-time threat detection and centralized policy enforcement, protecting its infrastructure from both external attacks and internal risks. Hybrid on-device and cloud-based scanning, along with IP reputation and DNS filtering, improved threat prevention and audit readiness.

Business continuity was ensured through multi-ISP load balancing and automatic failover, delivering consistent uptime and reliable bandwidth for enterprise customers. Centralized logging and cloud-based management via Nebula and SecuReporter simplified operations, reduced infrastructure overhead, and improved response times across the network.

- Up to 25% faster threat detection and response with centralized logging and real-time security visibility
- Over 99.5% network availability enabled by multi-ISP load balancing and automatic failover
- Around 20% reduction in IT operational effort through unified cloud management and simplified monitoring

