Case Study

Reshaping Security at the National University of Trujillo, Peru

Major South American University modernizes their security framework with layered security services from Hillstone Networks. With this new solution, they are able to protect vital and critical resources, and achieve compliance with government regulation and industry best practices.

The Challenge

Updating Security Frameworks, Achieving Compliance

The National University of Trujillo (in Spanish: Universidad Nacional de Trujillo, or UNT) is one of Peru's largest institutions of higher education. The UNT network covers a sprawling expanse, serving facilities as much as nearly 200 miles away from the core campus in Trujillo. The IT team manages the data center as well as remote locations in Trujillo and elsewhere, providing services to management and academic users as well as the administrative platform. Wi-Fi Internet access is offered throughout the campus to provide secure Internet for students. A top priority is ensuring the security of the data center by protecting against leaks and breaches.

> Mandated best practices for cybersecurity in all governmental organizations require layered security services to protect the vital university infrastructure.

Each year, UNT's IT team issues a request for proposals (RFP) for Internet services for the next academic year. In addition, Peru's secretariat of government and digital transformation has mandated best practices for cybersecurity in all governmental organizations, including UNT. For UNT, compliance is essential; the secretariat audits security infrastructures to ensure that cybersecurity goals are met.

As a result, this year's RFP included a requirement for layered security services to protect the vital university infrastructure. The IT team received several proposals which were evaluated based upon past experiences, cost, and other factors.

One vendor was rejected due to past bad experiences with support and the extreme complexity of set-up and management. Yet another failed to gain the team's approval because it was felt the company's product line was too diverse and thus the focus on security was not strong enough.

Customer Profile

Customer
National University of Trujillo

Sector
Higher Education

Location
Northwestern Peru

Focus
Commitment to academic excellence, with global visibility and impact

Size
16,000 students, 45 undergrad programs

Challenges
Modernizing security infrastructure to better protect all network resources against threats and to meet government best practices.

Requirements
- Secure data center against leaks and breaches
- Meet best practices mandated by federal government agency
- Provide layered security infrastructure across local and remote campus locations with high availability

Result
A layered security architecture with Hillstone NGFWs, server breach detection, and IPS to update and upgrade security while meeting government security mandates

> " Today technology has become essential in any strategic plan of organizations, but we also know that it is available for malicious purposes. Having Hillstone on our side gives us peace of mind knowing that we are prepared for any malicious threat. "

Edwin Monzón
Head of the Networking and Data Center Universidad Nacional de Trujillo

Layered Security at the Edge and Data Center with High Availability

After a thorough evaluation, the UNT IT team selected Hillstone's next-gen firewalls (NGFWs), network intrusion prevention system (NIPS) and server breach detection system (sBDS) to provide layered security services at the network edge and within the data center. All Hillstone solutions are deployed in an active/passive, high-availability configuration to help ensure continuous uptime for critical university operations and other functions.

The Hillstone cybersecurity solutions were chosen in large part due to the IT team's previous positive experiences with other Hillstone products, the intuitive user interface and the ease of programming and maintenance.

A Strong Focus on Security

In addition, Hillstone's strong focus on security played a role in the decision. Said Monzón, "Today technology has become essential in any strategic plan of organizations, but we also know that it is available for malicious purposes. Having Hillstone on our side gives us peace of mind knowing that we are prepared for any malicious threat."

The Hillstone NGFWs feature 60 Gbps firewall throughput and support up to 20 million concurrent sessions. They provide comprehensive and granular visibility and control of applications, and identify and prevent likely threats while enforcing policy-based control over applications, users, and user-groups. Hillstone NGFWs provide broad-ranging network security with advanced firewall capabilities, superior price-performance ratios and outstanding energy efficiency.

Extended Protection Against Breaches and Leaks

Hillstone's sBDS provides comprehensive server protection with excellent visibility and effectiveness. It can detect and help mitigate advanced, multi-stage, multi-layer threats targeted toward critical servers and web hosts. sBDS leverages the cyber kill chain and MITRE ATT&CK frameworks to provide layered security in tandem with the Hillstone NGFWs, blocking both known and unknown threats for a strong security posture.

Rounding out the university's layered security strategy is Hillstone's NIPS, which provides advanced network intrusion detection and prevention capabilities. NIPS analyzes, detects and blocks advanced threats in real-time through sophisticated technologies including machine learning. Like the sBDS, NIPS can work in concert with Hillstone's NGFWs to block threats and potential attacks.

Conclusion

Achieving a Strong Security Posture through Layered Security Services

For the National University of Trujillo, a strong security posture is vitally important in protecting the academic, management and administrative systems and data, as well as in meeting the requirements of the national secretariat of government and digital transformation for cybersecurity best practices. Through the Hillstone NGFWs, NIPS and sBDS, UNT has gained robust, layered cybersecurity defenses that are easy to use and manage, with an intuitive GUI and coordinated threat responses.

Learn more about Hillstone products mentioned in this case study

Next Generation Firewalls (NGFW) ⇨

Server Breach Detection (sBDS) ⇨

Hillstone Intrusion Prevention System (IPS) ⇨

Read about Hillstone solutions

Cloud Workload Protection (CWPP) ⇨

Extended Detection & Response (XDR) ⇨

Zero-Trust Network Access (ZTNA) ⇨

Secure SD-WAN ⇨

Micro-segmentation ⇨

Network Detection & Response (NDR) ⇨

Gartner
Peer Insights
Customers'
Choice 2022
™

Hillstone
N E T W O R K S