Cyberoam UTM: A Comprehensive Security Provider for Rural Electrification Agency

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Securing You

Case Study

RURAL ELECTRIFICATION AGENCY

Organization
Rural Electrification Agency
- -
Country
Zimbabwe, Africa
- -
Industry/ Vertical
Energy

The REA Challenge

Mr. Daniel Banhamombe, the Network Administrator at REA said, "We used Untangle and open source solutions for securing our network. But since they were not unified and did not provide comprehensive defence, they did not satisfy our needs."

The Internet security issues faced were:

Spam Causing Hassles for the Organization

Mr. Banhamombe stated, "We had a massive problem with Spam Emails due to which our mail server IP Address got blacklisted. As a result we were unable to send Emails outside the organization, causing a negative impact on the business operations."

Unsecured Network Fringe

Mr. Banhamombe stated, "Our network contained sensitive data like tenders, projects, accounts, employee details, etc which was under constant threat from DoS, IP Spoofing, Man-in-the-Middle and other network attacks." Hence, due to the lack of deep packet inspection, while thinking about the security of network infrastructure, he was worried that even a single successful intrusion could lead to intolerable consequences for their business.

Excessive Usage of Internet

Mr. Banhamombe often found employees wasting their precious time in unproductive activities like surfing, chatting, accessing social networking websites, etc. This affected productivity as well as the bandwidth. Many a times, due to these activities, even legitimate applications became difficult to access, causing bandwidth deficiency. This hampered the business benefits. Hence, expressing his distress Mr. Banhamombe mentioned, "We were unable to get rid of the heavy unnecessary bandwidth applications that posed security threats on our network."

The Cyberoam Solution

Being dissatisfied with the prior solutions, REA searched for another better solution that could provide them with unified and comprehensive security. During their search, they found all their expectations in Cyberoam and purchased One (1) CR200iNG. They deployed it at Gateway Mode in Harare (Head Office).

The benefits noticed after deploying Cyberoam in their network are:

Corporate Profile

Rural Electrification Agency (REA) offers a variety of services and products that are meant to promote rural development and enhance economic empowerment of ordinary villagers under its mandate of providing access to energy to all the rural areas of Zimbabwe. Services offered include providing electricity in rural areas in all its diverse forms such as the conventional grid electricity, installation of mini grid solar systems, developing mini hydro power generation stations, building biogas and biomass energy projects and many others still untapped. After electrifying the institutions, REA assists beneficiaries of electricity to procure machinery so that they embark on profitable business ventures to transform their livelihoods as opposed to the use of electricity for only lights and cooking.

Providing a variety of services and products, REA depends on the Internet for research, communication and other administrative purposes.

"Since, the solutions we used were not unified and did not provide comprehensive defence, they did not satisfy our needs".

**Mr. Daniel Banhamombe
System Administrator
REA**

No Spam, Squeaking Clean Inboxes

Cyberoam's Checkmark certified Anti-Spam solution ensures the safe arrival of genuine Emails to employee's inboxes by providing Spam detection rate of over 98% and false positive rate of 1 in 1.5 million. Thus, it keeps the Spam at bay, leading to reduced business loss. In addition, the Recurrent Pattern Detection (RPD) technology which is content and language agnostic, offers real-time protection from the very first moment a new outbreak emerges. Moreover it provides protection against foreign characters and image-based Spam with almost no cases of false positives. Finally, its Virus Outbreak Detection (VOD) feature protects the network against real-time massive virus outbreaks.

After deploying Cyberoam Mr. Banhamombe said, "Cyberoam's Gateway Anti-Spam has helped me to restore the faith of management on our Email domain. Thanks to Cyberoam, now the Blacklisting disaster has become a thing of past."

Powerful and Secured Network Fringe

Cyberoam's ICSA and Check Mark Certified Firewall, provides granular access controls over Internet traffic and network resources. Users are given controlled access to network and the Internet resources, ensuring that no security loopholes are left open.

With a comprehensive database of 4500+ IPS signatures, Cyberoam's Intrusion Prevention System (IPS) protects REA's network from spoofing, DoS and DDoS attacks in addition to keyloggers and Trojans. It also provides signature updating facility that updates the signatures regularly and provides zero-hour protection against latest attacks.

Mr. Banhamombe said, "Cyberoam has made us tension free from threats that can invade our network's privacy and steal our confidential data".

Safe and Controlled Internet Usage

Cyberoam's Web Filtering solution provides a database of 89+ categories with the help of which Mr. Banhamombe can prevent the employees from accessing unproductive and harmful websites. Cyberoam's Application Filtering blocks all P2P, IMs, illegal audio, video, streaming media and other bandwidth-intensive download. Moreover, Cyberoam with its identity-based filtering, allows the administrator to create schedules and assign the Internet access policies to individual users based on a certain criteria.

Mr. Banhamombe said, "Cyberoam's Web and Application filter has helped me to get rid of the heavy and unnecessary bandwidth applications on our network that posed security risks. Thus it reduced our Internet usage cost effortlessly."

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To Conclude

Expressing his satisfaction, Mr. Banhamombe stated, "With the help of Cyberoam, we have been able to directly restore the integrity of the organisation's Email system."

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