SECURE64 ®

Asian TLD Adds Trust with DNSSEC from Secure64

COMPANY

Asian Top Level Domain Provider

BUSINESS CHALLENGES

- Determine if there was sufficient value in deploying DNSSEC
- Implement security best practices
- Deploy DNSSEC simply & securely

SOLUTION

- Secure64® DNS Signer™

BENEFITS

- Deployed DNSSEC successfully within a week
- Created the chain of trust which enabled in-country domains to implement DNSSEC
- Generated revenue by offering DNSSEC as a hosting provider

"It is important for domain registrars, resellers and relevant parties to collaborate and plan ahead for DNSSEC deployment in their development schedule. By working together, we could further our commitment to foster a safe internet environment on a secured DNS….."

– System Director, Asian TLD

This Asian Top Level Domain Provider ("Asian TLD") is a not-for-profit that administers the registration of internet domain names across the country. The Asian TLD also provides registration and hosting services to commercial, educational, governmental, not-for-profit or other organizations in their country across hundreds of thousands of domains.

To Implement DNSSEC or Not to Implement DNSSEC

The Asian TLD spent a couple of years deciding on whether the value that DNSSEC brought to the organization was worth the budget dollars needed to spend on it.

DNSSEC creates a chain of trust by signing DNS responses from root to top to domain level. This establishes an authenticated response when domains communicate, allowing the recipient to ensure that the DNS response is real. This chain of trust prevents DNS hijacking and man-in-the-middle attacks, and also supports the implementation of DANE (Domain Authentication of Named Entities) which can prevent phishing and spearphishing.

The Asian TLD originally engaged with Secure64 through their technical people, who wanted to understand DNSSEC and Secure64 DNS Signer, the Secure64 DNSSEC signing solution. The technical team learned how Secure64 solves important problems in DNSSEC including key management, serial number control, Signer-in-the-middle, dynamic zones scalability, key rollovers and reporting errors with zone signing or rollovers. They were given an evaluation server to run in their environment, and after running it for some time, the technical team was convinced that DNSSEC needed to be implemented at the TLD. The challenge then moved to convincing the business owners.

Secure64 talked to the Board of Directors to help them understand the value of implementing DNSSEC. Globally, DNSSEC was adopted heavily at the TLD level, by the US federal government, in Brazil and by forward looking organizations which deployed security best practices. At the time, the Asian TLD was not getting significant feedback from domain owners that DNSSEC was needed, but without the TLD signing, domains inside of that TLD would not be secure even if they implemented it themselves. The Board decided the value of implementing DNSSEC was greater than the cost, and they could implement it simply and securely with Secure64 DNS Signer.

Launch and Generate Revenue

The Asian TLD began the deployment process by working hand-in-hand with Secure64 professional services. The servers were installed and cabled in two separate data centers for redundancy, while the software was loaded virtually, and fully tested. The TLD technical team was trained over two days, and they ran the system for a week in test. They were able to deploy the servers into full production at the end of that week.

The Asian TLD provides domain hosting services, and they added DNSSEC services to their line card, as DNS Signer gave them the ability to turn DNSSEC services off and on by zone. The Asian TLD has been driving revenue through reselling DNSSEC services - while also making the internet a safer place.

"As a global financial hub, securing the administration of domain name infrastructure is crucial to the internet community. The development of DNSSEC brings more collaborations within the internet community to embrace the technology for better internet security. DNS Signer has enabled us to foster a safer internet environment."

– System Director, Asian TLD

Learn more about Secure64 DNS solutions at www.secure64.com