
Case on Replacement of Barracuda Email Gateway: Selecting Coremail Email Security Gateway for Domestic Protection

Abstract

Be vigilant about risk on short supply of technologies and satisfy requirements for data management specified by laws and regulations. Coremail email security gateway assisted a large centralized enterprise in senseless smooth replacement of Barracuda. It creates new compliant upgrade schemes for email security of central state-owned enterprises.

Pain point 1: Be vigilant about risk on short supply of technologies and comply with compliance requirements of Chinese laws

At present, profound changes are occurring to the international situation. Although peace and development are still themes of the modern times, we shall be still cautious that manufacturers of the supply chain would be banned from selling their products owing to restrictions of related national/regional laws and regulations. It is urgent to gradually localize critical information infrastructure.

With progressive improvement of the Cybersecurity Law or the People's Republic of China, Security Protection Regulations for Critical Information Infrastructure, other laws and regulations, some manufacturers of email security gateways whose major data centers are abroad have chosen to withdraw from the Chinese market. They have gradually reduced their Chinese language support and local services.

Barracuda maintains a network of private and public cloud (Azure & AWS) datacenters by geographic location around the globe and requires that each meets defined security requirements. The cloud infrastructure for Barracuda Backup is deployed in the following geographical regions. Customer data is stored in the respective region based on the customer's selection at the time of initial configuration. Any transfer of customer data outside the European Union will be done in compliance with the GDPR and applicable local privacy laws. Barracuda's Standard Contractual Clauses are located within our DPA at the following address: <https://www.barracuda.com/company/legal/trust-center>

- United States of America
- United Kingdom
- United Arab Emirates
- Canada
- Germany
- Netherlands
- Australia
- Japan
- France

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Barracuda Data Center Location

After service term of its Barracuda gateway expired, a central state-owned real estate enterprise (hereinafter referred to as “a central state-owned enterprise”) was resolutely determined to replace its Barracuda gateway by another one made in China.

Solution 1: 22 years of protection experience and an efficient, compliant, reliable choice among domestic security products

As a pioneer of domestic email security products, Coremail has been deeply engaged in protection against spams and phishing for 22 years.

As a domestic manufacturer having independently developed China's first Chinese email system, Coremail daily protects 25,000 clients, intercepts 1 million high-risk malicious emails and accumulates numerous samples.

Coremail launches comprehensive solutions for protecting email security, creates protective matrices based on email gateways, and develops effective protective walls for email systems. It can provide governments, financial institutions, central and state-owned enterprises, and other critical infrastructure with safer, efficient, autonomous and controllable domestic email security solutions.



Pain point 2: For many misjudged graphic spams, identification rate of Barracuda cannot meet expectations

In communicating with the client, Coremail Email Security has understood that Barracuda email gateway, as a type of American products, cannot meet the client's expectations for identification rate of malicious emails in Chinese. A central state-owned client introduces,

“In particular, the graphic QR code is mingled with advertising spams in Chinese, and these spams can be hardly identified by Barracuda, because email sending parties often change email themes, senders and IP. As a consequence, these spams cannot be intercepted no matter we set theme filtration rules or sender filtration rules. This has imposed significant impacts upon our office work on routine businesses.”

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一、前言

1.1 VUCA时代企业人力资源激励体系搭建流程与步骤

1.2 不同企业发展时期人力资源重点工作

二、组织发展阶段及趋势

2.1 组织发展四个阶段

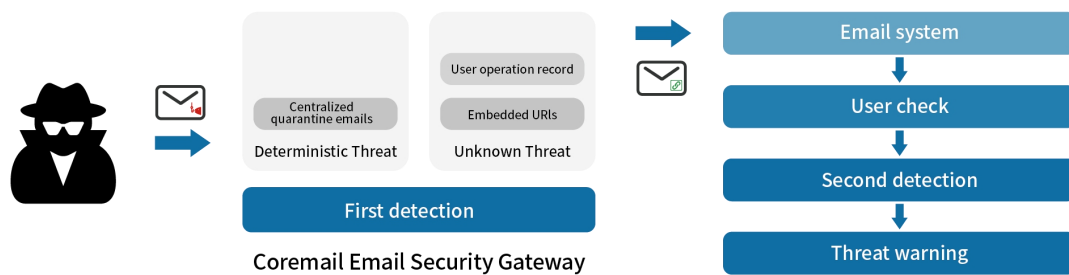
2.2 组织架构演变规律

2.3 组织管理基础变革

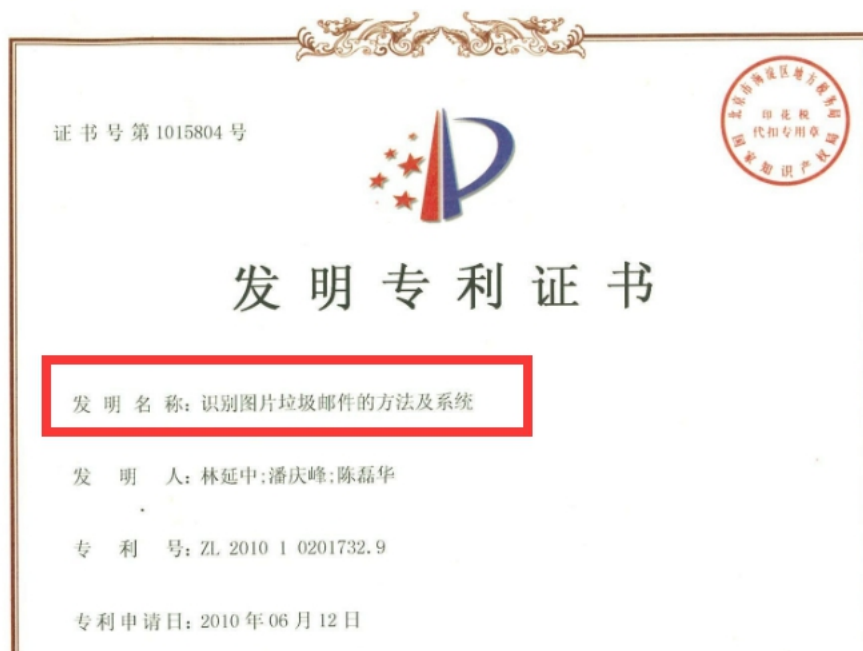
QR Code-related Advertising Spam

Solution 2: Driven by AI, interception efficiency of Coremail email gateway is up to 99.8%!

Coremail email gateway can exactly intercept graphic spams sent to this central state-owned enterprise. Based on NERVE 1.0 (a neural network platform), detects and intercepts (blocks or isolates) spams, phishing emails, virus-borne emails, BEC and other malicious emails in an all-round manner. The anti-spam filtration efficiency is up to 99.8% and the misjudgment rate is below 0.02%.



For graphic spams, the Coremail Email Security expert team developed the Method and System for Identifying Graphic Spams (Patent No.: 201010201732.9) early in 2010, and put them into practices. After years of operation and maintenance, various attack samples have been constantly accumulated. As a neural network platform, NERVE 1.0 has continuously analyzed the latest spam data and updated “big data database on spams” and “anti-spam cloud engine strategy base”, thus further guaranteeing accuracy of spam interception capacity.



Pain point 3: Barrier-free access of IBM email system and senseless smooth replacement of Barracuda gateway

Service term of the client’s original Barracuda gateway was about to expire. During prior replacement of the email gateway, this central state-owned enterprise expressed its satisfaction with the actual interception results of the Coremail email gateway, but the client still has the following concerns:

“Now, we are still using the IBM email system. Is the email system accessible to the Coremail email gateway?”

Our group is big. Coremail needs to be accessed to multiple domain names, including the main domain names. Then, how to implement?

Our group has used Barracuda gateway for years and accumulated a batch of blacklists. Then, how to migrate the gateway?”

Solution 3: Optimize dynamic quality monitoring according to existing one-key migration rules

In light of the client’s needs, Coremail Email Security has customized the Proposal for Replacing the Barracuda Gateway with Coremail Gateway and Dark Launch dependent upon its rich and mature experience in gateway replacement. First, low-traffic domain names were accessed and no problem was detected after observation over 5 working days. Subsequently, other domain names were accessed, and gateway quality was dynamically optimized through effective access in batches.

For migration of historical blacklists and whitelists, Coremail email security gateways can be imported in batches by one key. This facilitates quick migration of rules and makes it convenient for the client to identify and intercept directly based on accumulated filtration rules.

Coremail email gateway is not only seamlessly accessible to IBM Domino, but also protects mainstream email brands, including Coremail, Exchange, O365, Gmail and Lotus Notes. According to the proposal of Coremail Email Security for online launch, this central state-owned enterprise has finally realized seamless smooth replacement of Barracuda gateway by Coremail email gateway!

From the standpoint of users, seamless replacement by Coremail email gateway doesn’t hinder users’ business communications at all, which is the optimal result of such replacement. In addition, various spams, phishing emails and virus-borne emails in the inbox have basically disappeared. Besides, work efficiency has been improved a lot. In the future, Coremail Email Security will bring its strengths into play in close combination with national strategic policies, and provide the best domestic email security protection for critical information infrastructure organizations.