

SifoML in Beijing University, College of Education

Success Story



BACKGROUND

Established in 1902, Beijing University's College of Education has a long historical background in nurturing talented education professionals. The college specializes in exploring knowledge in the education domain, grooming education leaders and research talents, thus contributing to China's thriving education industry and promoting improvements in education.

With continuous growth in infocomm, email has become a familiar communication tool. In an everyday environment, email allows information to be shared in a fast and simple way. However, many overlook the fact that because the SMTP protocol used in sending and receiving email was created in the 80's, several security loopholes have been discovered in this more than 20-year-old protocol. Examples include spam mail advertisements, email attacks (DDos DHA), phishing, the security of internal email transmission, etc.

Currently, the total spam mail received by China's netizens is 50%-65% of total email activity. The effect of spam mail on school systems is especially mindboggling. Teachers spend approximately 30-45 minutes per day just deleting such mail. Furthermore, spammers' techniques improve at a daily rate, Spam mail can not only carry advertisements, but also help spread phishing activities or malicious spyware. Security risks are high when such mail is not filtered but directly subjected to the judgment of a user who may or may not have information security knowledge.

Advanced technology is required to resolve the issue of spam mail and relieve users' worries brought about by spam.

ANALYSIS

The faculty and students of the Beijing University, College of Education have been subjected to spam mail for a long time. Processing Spam mail each day wastes large

Customer

Beijing University, College of Education

Industry

Education

Business Challenge

Needed a system that could easily perform group-based administration, filter and block large amounts of spam mail and viruses that cause damage to the internal network.

O₂Security Solution

SifoML

Benefits

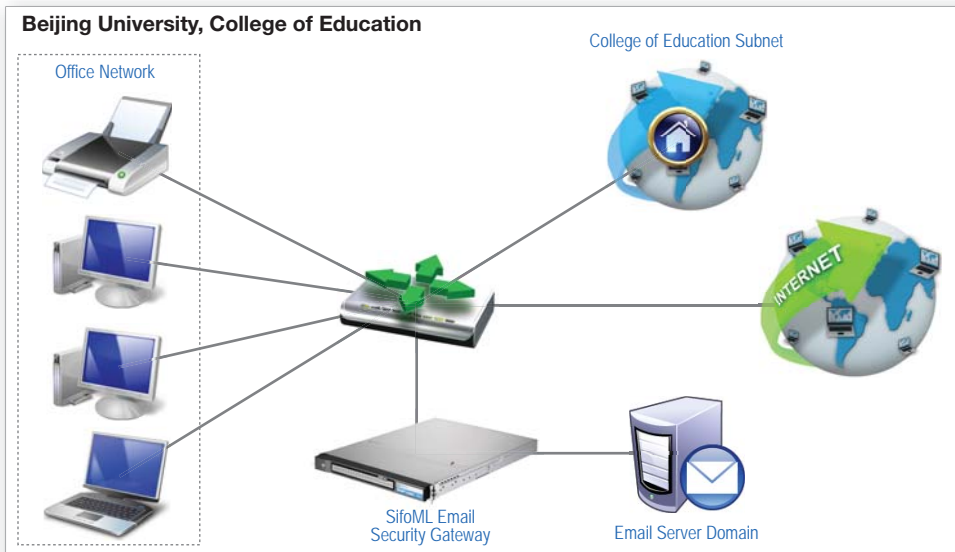
SifoML email security gateway integrates security protection and administration, providing users with a reliable security guarantee while eliminating attacks and damages to the internal mail server from malicious network activities.

amounts of time and energy while disrupting normal work load and significantly reducing the efficiency of everyone in the college.

Based on the situation of the previous college term, the college management came up with the following requirements:

1. Ability to filter and block large amounts of spam mail, preventing spam mail from entering the mail system.
2. Ability to block virus email, preventing any damage to the internal network system due to viruses.
3. Ability to backup email, allowing for future query of all email that were forwarded through the gateway.
4. Ability to perform group-based administration. Users should also be able to manage their settings individually, allowing end-users to judge whether a particular mail is spam or not.
5. All quarantined mail should be shown to end-users for checking and judgment.
6. Periodic generation of reports showing the spam or virus mail quarantine situation and system should generate reports displaying both data and charts for auditing.

DEPLOYMENT



The college's network is a subnet of the Beijing University network. To effectively block spam mail sent from the different domains and protect the backend mail server, SifoML email security gateway is deployed in transparent mode directly in front of the network's mail server. This effectively protects the internal mail server from external DoS attacks, and enables detailed checking for spam and virus mail. Reports will be generated for all data passing through the mail gateway. SifoML also allows each user to manage their own quarantined mail.

The deployment of SifoML email security gateway at Beijing University, College of Education greatly resolved the problems faced by the college faculty and its students due to the above described email concerns. The user-friendly interface allowed teachers and users to manage and configure the system easily and at the same time, the system blocked the transmission of viruses through email.

CONCLUSION

With continual development and widespread use of networks, people are now more aware of network technology. However, this also means that the development of network attacks is also easier. New threats are being created and spread through a greater variety of channels at an increasing rate. Email security is especially a concern: to achieve a common goal, people tie up network resources illegally using spam and virus mail, spyware, phishing, hacker attacks, mail relay and other forms of malicious network activities.

The deployment of SifoML email security gateway at Beijing University, College of Education greatly resolved the problems faced by the college faculty and its students due to the above described email concerns. The user-friendly interface allowed teachers and users to manage and configure the system easily and at the same time, the system blocked the transmission of viruses through email, reducing threats and guaranteeing the normal operations of the college faculty. Periodic report generation allows the college to monitor mail activity and reference for any further IT management requirements.

SifoML email security gateway integrates security protection and administration, providing users with a reliable security guarantee while eliminating attacks and damages to the internal mail server from malicious network activities. Thus, SifoML effectively reduces illegal usage of network resources, optimizing the network experience for the college's users.

ABOUT O₂SECURITY

O₂Security Limited is a subsidiary company of industry-leading analog and digital IC chip designer O₂Micro (NASDAQ: OIIM). O₂Security provides complete, comprehensive security solutions that are easy to use and maintain. Since its inception in 2003, O₂Security Ltd. has consistently developed highly-anticipated products that meet the needs of the network security industry. Nearly 70% of its research capital goes into developing new products and enhancing existing ones to meet current market trends.

O₂Security Ltd. has service offices located in many regions around the world including; the United States, Taiwan, Singapore, Malaysia, Indonesia, Philippines, Vietnam, Thailand and various locations in China. This allows us to provide localized and on-site support to our clients, gather information on security issues and emerging market trends on a global scale, continually improve and develop new products in response to market changes and meet the needs of our customers.

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