

NEW DELHI MUNICIPAL COUNCIL

INDUSTRY: Government

HEAD QUARTERED: Delhi

PRODUCT: Next Generation Firewall
(GS 1030dc)



GajShield secures New Delhi Municipal Council with Data Leak Prevention System

BACKGROUND

Delhi set-up had recommended that a fresh law governing NDMC should be passed by the Parliament for proper organization and functioning of the New Delhi Municipal Council. Consequent upon enforcement of Constitution (Seventy Fourth Amendment) Act, several provisions in Punjab Municipal Act, 1911 had to be brought in tune with Part IXA of the Constitution before 31st May, 1994. Furthermore, there were several major differences between various functional regimes prescribed under the old law governing NDMC in comparison to the Delhi Municipal Corporation Act, 1957. It was generally recognized that there was need for a greater measure of commonality in the procedure adopted by the Municipal Corporation of Delhi and the New Delhi Municipal Council in matters relating to taxation, revenue, budgeting, contracts, accounts and audits, streets and sanitation, public health, public safety and suppression of nuisances etc. and NDMC was revised.

THE CHALLENGE

A cybersecurity breach is an ever-present threat faced by any industry that relies on technology. It's particularly hazardous for government agencies that keep sensitive civilian and national-security data in their information systems. Important data is shared and stored by these agencies more and more frequently as cloud systems and bring-your-own-device (BYOD) policies become common practice. However, opening up networks to outside mobile devices and virtualization software also makes these networks more susceptible to attack.

KEY CHALLENGES:

- Content filtering
- No security restriction
- Slow download speed

KEY SOLUTIONS:

- Firewall
- Data leak prevention
- BYOD
- URL and Application Filtering
- IPS filtering



According to Microsoft, cyber threats to government agencies quadrupled between 2006 and 2009. This is no surprise, given the increase in data production, but it's still worrisome for government IT managers and CIOs. Regardless of the source, hackers have been able to access important civilian and classified information, sometimes from foreign intelligence agencies as well. Reported federal civilian agency incidents increased from less than 20,000 in 2008 to more than 30,000 in 2009. NDMC been a governmental organization, the biggest challenge was to provide complete security and to prevent any sort of leak or even possibility of any compromise with respect to data and privacy of data.

SOLUTION

In order to provide a complete security solution to New Delhi Municipal Council, we incorporated various security features into their system like secured browsing through gateway, hosted servers, secure surfing since it is linked to many local bodies and server protection.

To implement Server security, we put the servers in demilitarized zone in order to differentiate the server network with the local network. As a result of which only permitted IP addresses of the authorized users are given access to those servers internally and additionally IPS is implemented on servers to prevent intrusion externally due to which the servers are protected both from internal and external threats. Gateway level browsing was introduced for NDMC as a security solution to govern which users were accessing the website. Another important security feature included was for hosted servers. Since NDMC is a governmental body, naturally it was hosted internally and security was provided accordingly. In order to securely provide access to people accessing it from outside the network or publically, we configured natting on GajShield. Network address translation (NAT) is a method of remapping one IP address space into another by modifying network address information in Internet Protocol (IP) datagram packet headers while they are in transit across a traffic routing device. Also, HA was implemented in active-passive mode to achieve 100% up time.



CONCLUSION

A complete security for governmental organizations cannot be compromised at any cost and we, at Gajshield strived to provide the same for New Delhi Municipal Corporation by installing our appliance GS1030dc at gateway level. A number of security features were provided also ensuring a complete security solution since this governmental website was linked to many local bodies and the security of a governmental website couldn't be compromised at any level. As a result of implementation of all these security features, high performance was achieved.