

M. S. ENGINEERING COLLEGE



URL: <http://www.msec.ac.in>

Company Stats

- No. of offices and locations: 2
- Vertical: Education
- User Base: 250+

The Nevales Solution

The Nevales N300 was offered to ensure security, connectivity, content security and management of all communication traffic between the Internet and internal networks.

Results

- Unwanted websites were easily blocked and the administrator exercises complete control over blocking or unblocking of a particular website
- With the strong Nevales gateway level antivirus engine, the computers regained the processing speed
- Improved bandwidth utilization
The efficient Nevales N300 Link failover feature ensured 24X7 connectivity

CASE STUDY

“We were looking for a one stop security solution for our college for two major issues: First to combat the powerful and frequent virus attacks and second to exercise control over non-academic surfing. Nevales' gateway level antivirus and content filtering features equipped us for tackling both the major concern areas.”

Sri M.Sudarshan - Secretary, M.S.Educational Trust

Background

M.S. Engineering College is a Bangalore-based Engineering College promoted by M. S. Educational Trust. The college offers quality education to students to achieve their goals of becoming much sought after professionals.

The Computer Science & Engineering department supports over 200, Pentium-IV & Dual Core nodes interconnected by a switched Ethernet and internet with the speed of 2 Mbps. The department is constantly modernizing the infrastructure and laboratory facilities. It is endowed with well equipped laboratories in several of the listed laboratories below:

- Data Structures
- Network Technology
- Microprocessor
- Visual Programming and Database management
- System Software

Challenges

Excessive virus attacks via internet reduced the processing speed of computers by 50% and major bandwidth exhausted in irrelevant sites.

In addition to accessing social networking sites, students were also uploading and downloading music and video content, listening to the radio over the Internet, downloading music, and streaming videos over the Internet.

Students utilized their computing privileges to misuse the bandwidth for illegal downloads and file sharing.

M. S. Engineering College did not have any robust firewall solution and hence they were unable to protect their network from virus attacks. They were also not able to manage, control and monitor the performance of their website. They suffered heavy broadcasting on internal LAN due to regular virus attacks from the Internet.

“Nevalles UTM appliance has enabled us in exploring the vast knowledge on the internet without worrying about the threats prevalent on it. Apart from the internet world, now the staff and students can also access the intranet freely.”

- Sri M.Sudarshan

Nevalles Benefits

- Managed Secured Services
- Direct Nevalles Support
- Pricing: OPEX
- Integrated Load Balancing
- Customizable
- Scalable
- Best of Breed OEM Partnerships
- Free Hardware Replacement
- Tangible ROI

They decided to implement a gateway-level security solution to tackle all the security-related issues plaguing their network. This is when Nevalles Networks came into the picture.

Technical Situation

The customer did not want any changes in his LAN environment. Initially, the data traffic was coming from ISP to the Switch. Now he wanted the traffic to flow from ISP to Firewall and then to be diverted to switch and then to be transferred to the LAN. By configuring client's firewall and running our firewall in series to the switch along with the DHCP settings, we managed to solve a major chunk of our client's problem pertaining to gateway level of viruses. Besides this, we also incorporated UTM features like content filtering, bandwidth management, and link failover with their ISPs.

Results

After implementation, Nevalles Firewall manages all communication traffic between the Internet and internal networks, controlling incoming and outgoing network traffic based on the corporate security policy, simultaneously blocking unauthorized access. Since it has gateway level antivirus engine, it prevents virus attacks from the Internet. Nevalles UTM features like bandwidth management, link failover and content filtering are currently supporting MS Engineering's 250 nodes.

Administrators at MS Engineering College can now block or allow access for each protocol to each internal network, server, service, and user group. The firewall inspects both networking information (packet headers) and application information (payloads) to detect and block suspicious traffic. Nevalles Firewall is efficiently supporting Dual ISP Failover to ensure network connectivity 24x7.

Along with Nevalles N300, M.S. Engineering College also opted for Nevalles VPN, which uses a variety of advanced encryption methods to protect data. In a nutshell, the client benefited with increased security, improved web cache performance, integration with existing infrastructure, improved bandwidth utilization, increased manageability,

One of the main requirements of the client was to restrict the access to websites like Facebook, Orkut and other social networking sites as students tended to spend a lot of their quality time on these websites. This requirement was accomplished with the successful implementation of the Nevalles N300 content filtering feature.

Nevalles Networks Pvt. Ltd. Advance House, 2nd Floor, Makwana Road, Off Andheri-Kurla Road, Andheri (East), Mumbai – 400 059, Maharashtra, INDIA. Tel: +91 22 4236 4444 | Fax: +91 22 4236 4409 | Email: info@nevalles.com
Web: www.nevalles.com

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