GAJSHIELD
Data Security Firewall

CENTURION UNIVERSITY OF TECHNOLOGY & MANAGEMENT

INDUSTRY: Education

HEAD QUARTERED: Odisha

PRODUCT: Next Generation Firewall
　　　　　　(GS 960dc)

GajShield provides Next Generation firewall solution to Centurion University of Technology & Management along with advance bandwidth management system for students

BACKGROUND

The journey of Centurion University of Technology and Management (CUTM) began in the year 2005 by a group of ambitious academics with aspirations to provide high quality education both nationally and internationally. The first step in this direction was to take over an ailing engineering Institute, the Jagannath Institute for Technology and Management (JITM) in one of the most challenging tribal districts of Odisha and one which was considered to be a left-wing extremist affected area. Subsequently, JITM was transformed into Centurion University of Technology and Management in August 2010, through an act of Odisha Legislative Assembly. It became the First Multi-Sector State Private University in Odisha.

From its inception, Centurion University's DNA has been "Shaping lives and empowering communities". The University has focused on 'hands-on', 'experience based', 'practice oriented' learning that makes a difference through appropriate and relevant innovation and action research. While promoting Nano, Mini and Micro Enterprises, the University works toward learning experiences that are 'quantifiable', 'sustainable', 'scalable' and 'replicable'.

THE CHALLENGE

Centurion University of Technology and Management (CUTM) was incorporated with basic security solutions. For an educational institute, it is imperative to incorporate timely solutions and continuous support apart from managing the ever growing network without compromising

KEY CHALLENGES:

● Authentication

● No security restriction

KEY SOLUTIONS:

● Firewall

● URL and Application Filtering

● Gateway Antivirus

● IPS filtering

> "We are happy about your responsiveness and the help you have provided in securing our network. Before implementing your product, it was not easy for us to identify the security threats and internet bandwidth usage in our university. Your product helped us to pinpoint the misuse of internet through your intense reports.
>
> **- Mr. Haribandhu Panda, Vice Chancellor**

with the security and to be compatible with the emerging technologies from time to time. In addition to this, a several other requirements needed to be catered to- captive portal to authenticate users, Restriction to access without authentication, blocking of various proxy applications. Another major concern was faced involving the usage of bandwidth by students after leaving the campus. Students would utilize the Wi-Fi provided by the college institution even after leaving the campus- in their hostels which needed to be regulated to prevent unlimited use of internet leading to misuse of it and also devise a solution for unauthorized downloads that were taking place using these means. And we also provided a mechanism to protect their in-house servers.

SOLUTION

An educational institution has a consistently growing network that needs to be catered to appropriate security measures from time to time. One cannot simply compromise security measures like firewalls, and the network needs to be continuously monitored for loopholes as well. Keeping all these security requirements in mind, Gajshield incorporated security solutions ideal for the client. Gajshield incorporated ICSA certified firewall, URL filtering, gateway antivirus, Intrusion Prevention System and Performance Management with Traffic Analysis, Network behavior analysis, Application visibility and filtering with Bandwidth Management. These features helped to cover the key requirements of the client. In addition to this, user authentication was incorporated for students allocating bandwidth per quota which helped to set a limit on the data usage by students. In order to support bandwidth cap or data cap as we may call it, different policies pertaining to students were implemented and authentication of users was made mandatory before providing internet access to the users which regulated the whole process. After this was implemented, different users were allocated different data limits after which their data connection was automatically terminated. This also solved the problem of unlimited use of internet by the students for un-educational purposes and the data limit of internet bandwidth was equally distributed among all the students as a result of which, students that really required internet for genuine educational purpose were benefitted and misuse was curbed.

CONCLUSION

The client's requirements for authentication and authorization of users for the access of internet services, filtering of proxy applications and more were successfully achieved and incorporated into the client's security solution infrastructure. The University was so overwhelmed with the results that they even certified Gajshield with a special letter of appreciation with a special mention of satisfaction of security incorporated within the organization with the help of the product, GS960dc. Mr. Haribandhu Panda expressed his feedback saying, "We are happy about your responsiveness and the help you have provided in securing our network. Before implementing your product, it was not easy for us to identify the security threats and internet bandwidth usage in our university. Your product helped us to pinpoint the misuse of internet through your intense reports. It has helped us in improving our employee productivity. It has also helped us in controlling internet bandwidth for the students. We are also thankful for the customization which you had done for us to implement bandwidth quota for students as per our requirement."