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GRT Ship Management Pvt Limited - Case Study

Keywords :   Ubuntu Server , LAMP Server , Application Server, Desktop Migration , Firewall , Content Filtering , Bandwidth Shaping

Company Background :

GRT is a leading Multimodal Transport Operator & Consolidator having 7 years experience in the Cargo Shipping Industry. The company was founded in 1998 by O.P. Gupta (MD) with a 6-person team. Today GRT employs over 200 shipping professional & has offices across the country and agents across the globe.

Domain : Shipping and Logistics

Problem Statement :

- Develop a LAMP based application server for an application in Shipping Domain .
- Migrate Desktops to Ubuntu
- Firewall
- Squid for Content Filtering
- Block Specific Downloads
- Bandwidth Shaping

Environment and Setup :

The company has 50 Desktop computers and 2 Servers for their operations. They run on a 3rd Party hosted Mail server.
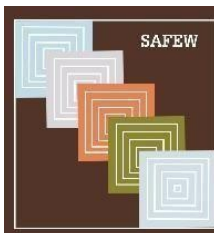
The setup consists of ,

Software :
Ubuntu 9.04 Server
Squid Content Filtering
Shorewall
HTB-Gen
A Custom Web Based UI for HTB-Gen

[LAMP Server]

One server was used for sharing of internet and development server for the application.

Solution Provided :

Bandwidth shaping through HTB-GEN, Shorewall and Squid was installed on the server which was used for internet sharing.

HTB-GEN shapes the bandwidth of each system in a way that it provides a certain minimum bandwidth and a specific maximum bandwidth as defined.

Squid filter was built in order to block the download of malacious content like exes, mp3 and mpeg. It was also installed to avoid browsing of sites like porn, mp3 files.

Shorewall Firewall was installed in order to block external attacks and block sites using specific keywords. Also, some of the open ports like ftp and ssh via external people had to be blocked.

Post this, LAMP server was installed in order to host the development environment of the application.

Once the server was ready and internet sharing was back up, each system was analysed.

The existing set up had primary usage of Documents, Thunderbird and Firefox on Windows.

All desktops were installed with Ubuntu, exisiting thunderbird mail backup was moved to Linux based thunderbird files. They had HP printers and Ubuntu 9.04 system was installed with HP Printer drivers.

The printer was then shared over network with all the other computers.

Conclusion :

The company's desktop and server environment was completely moved to Ubuntu and security was improved.

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