



## Network Security for Infinity Academy

### **About Infinity Academy**

A premier Training institute which provide hands-on training for corporate and individuals & live short term project on Networking for individuals. It's head office is in Ranchi (Jharkhand) and branches all over Bihar & Jharkhand.

### **Summary of the project**

Previously Infinity Academy network was running with no Network Security, unmanaged switches and no inter branches connectivity. They were having flat network only and the same IP schema was used for entire organization including mission critical Servers.

They were using mix products such as D-Link and other Local switches for their network. No Security Gateway device was used at perimeter level, they were using Public IP on the servers directly to access the applications over internet for remote users/clients.

The whole network was running on Ethernet and no inter branches connectivity to accessing financial/accounts data, slowness on Local LAN.

Infinity Academy were also having few Servers installed on which critical application were running i.e. Web Servers, Mail Servers, and ERP Server etc. The IT Management and team were really suffering with the Network issues and the maintenance of the same was a big challenge for them.

### **Challenges**

- ◆ Unmanaged, & no documentation of Network
- ◆ No network diagram resulting in longer Turnaround time
- ◆ No Security at Perimeter
- ◆ LAN security & management concern

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- ◆ Servers and End users systems got Virus infected due to non-availability of security/UTM device in the network
  - ◆ LAN/WAN users were unable to access internet due to internet bandwidth chocking
  - ◆ No network segmentation (VLANs)
  - ◆ Slowness on Local Network
  - ◆ No security in the Network
  - ◆ No Inter branches connectivity

## **Preemptive Value Proposition**

- ◆ Restructured & revamped the entire LAN
- ◆ Removed all unmanaged switches from cisco switches
- ◆ Configured Checkpoint UTM and Core Switches in the network
- ◆ Configured Cisco 3560 at the core layer and 2960 at the Edge Layer of network
- ◆ Configured VLAN (as per the requirement), Inter VLAN routing, Spanning Tree Protocol (STP) to provide loop free network, static routing
- ◆ Configured Checkpoint 4400 Firewall at the perimeter of the Network to provide L4 security. Configured access lists to provide authorized access only between due to internet bandwidth chocking
- ◆ Configured separate software blade for complete reporting and visibility of user activities over web
- ◆ Configured IPSec (Site-to-Site & Remote Access VPN) tunnels to secure transfer of data between branches & from other Remote locations also

## **Benefits to Customer**

- ◆ Perimeter security, Core & Edge switching on redundancy for high availability of the network
- ◆ Proper documentation of entire Network
- ◆ Easy troubleshooting, management of all Network devices
- ◆ Easy to made changes in the network
- ◆ Easily manage & access Network devices, Servers from anywhere.