# INFOSOFT IT SOLUTIONS

**Training | Projects | Placements**

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# Cyberoam  Course Content

## Cyberoam Product Overview

- Cyberoam UTM overview
- Cyberoam Central Console Overview
- Cyberoam on-cloud management overview
- Cyberoam iView Overview

## Deploying Cyberoam

- Prerequisites for deployment
- Network Diagrams Scenarios
- Deployment Scenarios (Transparent/Gateway/Mixed) Mode
- Failure of Security Device its Consequences
- Proxy Scenarios
- Managing connectivity with multiple ISPs
- Manage 3G and Wimax connections

## Firewall

- What is a Firewall?
- Types of Firewall

- How to Control Access

- Identifying Each Machine on the network

- Managing the Firewall

- NAT

- DoS (Denial of Service)

- Fusion Technology based Unified Control

- Firewall as a single solution to identity, security, connectivity, and productivity

## User Authentication

- What is Authentication?

- Requirement to Authenticate

- How can Authentication be done?

- Types of Authentication (Single Sign-On, Local, and External)

- Group Authentication

- Traffic Discovery

- Authenticating from Servers (AD, LDAP, or RADIUS)

## Web Filter

- Need for Web Filtering

- Web 2.0 Filtering

- Filtering with Keywords

- Filtering with URL

- Filtering by Categories

- Filtering Web Traffic

## Application Firewall

- Evolution of Application Firewall
- File Filtering
- Application P2P Filtering
- Instant Messaging Filters
- Custom Filters
- Compliance based filtering

## Network Threat Protection

- Functioning of Anti-Virus Anti-Spam
- Basics of Virus, Spyware, Malware, Phishing, and Pharming
- Web/Mail/FTP Anti-Virus
- Gateway level Antivirus/Anti-Spam
- Instant Messaging Anti-Virus
- Virus Outbreak Detection
- Recurrent Pattern Detection
- RBL (Real-time Black List), IP Reputation
- Understanding of Intrusion
- Signature-based detection
- Statistical anomaly-based detection
- Stateful protocol analysis detection
- Network-Based IPS (NIPS) Wireless Based IPS (WIPS)
- Network Behaviour Analysis (NBA)
- Host-Based IPS (HIPS)
- WAF

## VPN

- What is a VPN?

- Why use a VPN?

- Advantages of VPN

- Types of VPN based on protocols

- Types of VPN Based on Tunnels

- The need for firewall in VPN

- Threat Free Tunneling

- VPN Bandwidth Management

- VPN Failover

- Identity-based authentication in VPN

## QoS

- What is QoS?

- Why QoS?

- Traffic Queuing

- Traffic Prioritisation

- Bandwidth Allocation

- Scheduling, and sharing bandwidth

- Guaranteed bandwidth

- QoS implementation on the user, group, firewall, application, web category

## Network High Availability

- High Availability, LAN Failsafe?

- Clustering of devices

- What is link load balancing?

- Why undertake to balance?

- Link fails scenario

- Why failover?

- Multilink Manager

- Load balancing

- Active-Active load balancing and gateway failover

- Active-Passive configuration and gateway failover

- MPLS failover to VPN

- Automatic ISP failover detection

## General Administration

- Setup Logging

- DNS Management

- DHCP Management

- Upgrading Device Firmware

- Backing Up

- Restoring

- Diagnostic Tools

- Troubleshooting Tools

- Labs to provide hands-on to deal with maintenance

## Logging & Reporting

- Cyberoam iView Introduction

- Types of Reports

- Data Management

- Report Management

- Compliance reports

- Searching within reports

- Identity-based reporting