VCW SECURITY

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Cyberoam Certified Network & Security Professional (CCNSP)

CCNSP is the certification for security professionals from Cyberoam. The only Identity-based security certification available globally the course prepares individuals to recognise insider threats and user-targeted external threats while giving them expertise in networking and security fundamentals in addition to the deployment and configuration of Cyberoam identity-based UTM. The course is comprehensive, yet easy to follow, with real world scenarios, delivering practical value to aspiring security professionals.

CCNSP training is divided into the following modules -

Module 1: Cyberoam Product Overview

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

Module 2: Deploying Cyberoam

- Prerequisites for deployment
- Network Diagrams & Scenarios
- Deployment Scenarios (Transparent/Gateway/Mixed) Mode
- Failure of Security Device & it's Consequences
- Proxy Scenarios
- Managing connectivity with multiple ISP's
- Manage 3G and Wi-Max connections
- Labs

Module 3: 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, productivity, and logging Labs

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Module 4: 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)
- Labs

Module 5: Web Filter

- Need for Web Filtering
- Web 2.0 Filtering
- Filtering with Keywords
- Filtering with URL
- Filtering by Categories
- Filtering Web Traffic
- Labs

Module 6: Application Firewall

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

Module 7: Network Threat Protection

- Functioning of Anti-Virus & Anti-Spam
- Basics of Virus, Spyware, Malware, Phising, and Pharming.
- Web/Mail/FTP Anti-Virus
- Gateway level Anti-Virus/Anti-Spam
- Instant Messaging Anti-Virus
- Virus Outbreak Detection
- Recurrent Pattern Detection
- RBL (Realtime 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
- Labs

Module 8: VPN

- What is VPN?
- Why use VPN?
- Advantages of VPN
- Types of VPN based on protocols
- Types of VPN Based on Tunnels
- Need of firewall in VPN
- Threat Free Tunneling
- VPN Bandwidth Management
- VPN Failover
- Identity based authentication in VPN
- Labs

Module 9: QoS

- What is QoS?
- Why QoS?
- Traffic Queuing
- Traffic Prioritisation
- Bandwidth Allocation
- Scheduling, and sharing bandwidth
- Guaranteed bandwidth
- QoS implementation on user, group, firewall, application, web category.
- Labs

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Module 10: Network High Availability

- High Availability, LAN Failsafe?
- Clustering of devices
- What is link load balancing?
- Why undertake balancing?
- 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
- Labs

Module 11: 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

Module 12: Logging & Reporting

- Cyberoam iView Introduction
- Types of Reports
- Data Management
- Report Management
- Compliance reports
- Searching within reports
- Identity based reporting