

MTCTCE & MTCUME

Course Name:	MTCTCE and MTCUME
Course Duration:	24 hours
Requirements:	MTCNA
Who should take this Course:	Network engineers

Syllabus Course

Outline:

- Packet flow diagram
 - Why this diagram is necessary?
 - Full overview of all things covered by diagram
 - Simple examples how packet travels through the diagram (routing, bridging, connection to router etc.)+ LAB
 - More complex examples of diagram usage +LAB
- Firewall filter/nat/mangle
 - Connection tracking
 - Filter + LAB
 - NAT + LAB
 - Mangle + LAB
 - Some complicated rule "conditions" covered ("advanced", "extra" tab) + LAB
 - uPNP
- Quality of Service
 - HTB
 - Burst + LAB
 - Queue types
 - Simple queues + LAB
 - Simple queue and queue tree interaction
- DNS client/cache
 - Basic configuration + LAB
 - Static DNS Entry + LAB
- DHCP client/relay/serve

- DHCP communication analysis
- DHCP-client identification/ configuration + LAB
- DHCP server configuration: + LAB
- PPP
 - PPP Profile + LAB
 - PPP Secret + LAB
 - IP Pool
- PPTP/L2TP
 - PPTP and L2TP
 - PPTP Client configuration + LAB
 - PPTP Server configuration + LAB
 - L2TP Client configuration + LAB
 - PPTP Server configuration + LAB
- PPPoE
 - PPPoE server and client
 - PPPoE client configuration + LAB
 - PPPoE Server configuration + LAB
 - Encryption + LAB
 - Interface ECMP
- PPP Bridging
 - L2TP and EoIP + LAB
 - L2TP and VPLS + LAB
 - L2TP and BCP + LAB
 - Multilink Protocol
 - MLPPP [optional]
- IPSec
 - Introduction
 - IPSec Peer
 - Policy
 - Installed-SA
 - Create IPSec between two routers with NAT + LAB
- HotSpot
 - Introduction
 - HotSpot Login Methods + LAB
 - Users + LAB
 - Monitor Users
 - Profile + LAB
 - Bypass HotSpot
 - Customize HotSpot + LAB
- RADIUS
 - RADIUS client + LAB
 - RADIUS server
 - User Manager + LAB
 - RADIUS incoming