MTCRE training outline

last edited on January 8, 2015

Course prerequisites – MTCNA certificate

Title	Objective
Static Routing	• More specific routes • ECMP + LAB • How to force gateway over specific interface • Gateway reachability check and route distance + LAB • Routing mark and route policy + LAB • Recursive next-hop and scope/target-scope usage + LAB
Point to point addressing	• PtP address configuration + LAB
VPN	• What is VPN? • Different types of VPN • Site to site connectivity with tunnels (IPIP, EoIP, PPTP, SSTP, L2TP) + LAB • Vlan and it's usage • QinQ implementation + LAB • Vlan and managed switch • Vlan and switch chip configuration on Rbs + LAB
OSPF	• What is OSPF? • How OSPF protocol works (Hello protocol, Database distribution and LSA types explained) • OSPF network structure (Areas, Router types) • OSPF neighbors and neighbor states (DR and BDR election) + LAB • External Route Distribution methods (type1, type2) + LAB • Interface cost and interface types (broadcast, NBMA, etc.) + LAB • SPT calculation algorithm • OSPF and multicast (problems with NBMA) • Stub, NSSA and area ranges (route aggregation) + LAB • Virtual links, usage and limitations + LAB • OSPF routing filters and limitations + LAB