Fast Convergence

Course code: SP3

This course is intended for technical personnel knowledgeable network technology solving fast convergence demands in the network infrastructure. Participants will become familiar with the problems of rapid convergence and high availability, principles and limitations of different approaches to solving this issue. Course includes practical lab exercises on real devices.

Required skills

Advanced knowledge of internetworking, TCP / IP, IP routing protocols including OSPF and BGP and configuration of

Cisco routers including MPLS in the range of training A0/ICND and A1/ICND2, RS3/BGP/ROUTE and SP1/MPLS.

Course outline
- Fast Convergence introduction
- Failure detection techniques (Carrier Delay, BFD, HW limitace …)
- Fast Convergence in Layer 2 networks (Flexlink, Rapid STP, REP, G.8032)
- Fast Convergence in Layer 3 networks (IGP + EGP tuning, LFA, BGP PIC)
- Fast Convergence in MPLS (LFA, MPLS TE, MPLS TE FRR, …)
- High Availability, HW redundancy, NSR, NSF, …

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