BİLİŞİM ACADEMY

NETWORK CURRICULUM

NETWORKING FUNDAMENTALS

1.1 Basic Switch, Router and End Device Configuration

1.2 Protocols and Models (OSI-TCP/IP)

1.3 Network topologies and network types

1.4 Cables and connectors

1.5 Common ports and protocols

1.6 Number Systems

1.7 Ethernet Switching

1.8 Address Resolution-ICMP

1.9 IPv4 Addressing

1.10 IPv6 Addressing

NETWORK IMPLEMENTATIONS

2.1 Switching Concepts

2.2 VLANs-Inter-VLAN Routing

2.3 STP Concepts

2.4 EtherChannel

2.5 SLAAC and Network Service (DHCP-DNS-NTP)

2.6 FHRP Concepts

2.7 Wireless LAN Concepts and Configuration

2.8 Static and Dynamic Routing (RIP, E/IGRP, BGP, OSPF)

2.9 ACL Concepts

2.10 NAT for IPv4

2.11 QoS Concepts

NETWORK OPERATIONS

3.1 Organizational Documents and Policies

3.2 High Availability-Cloud Concepts

3.3 Network Management and Monitoring (SNMP, CDP, LLDP, SYSLOG, Netflow)

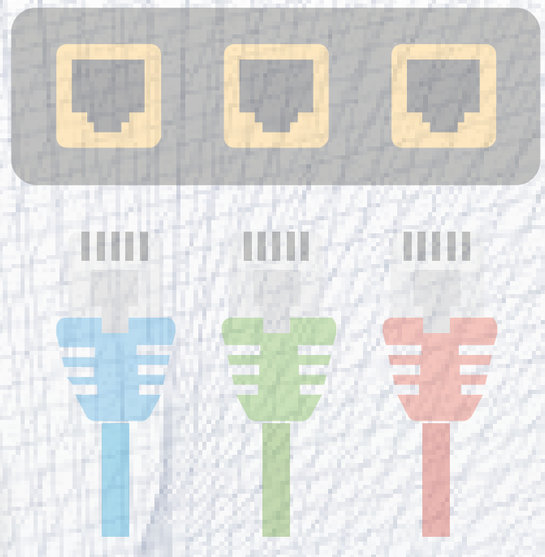
3.4 Network Virtualization and Automation

NETWORK SECURITY CONCEPTS

4.1 Common types of attacks

4.2 Network hardening techniques

4.3 VPN and IPsec Concepts



NETWORK TROUBLESHOOTING

5.1 Network Troubleshooting