Networking with TCP/IP

Duration: 2 Days
Available Languages: English

Audience

Developers and Network Administrators.

Goals

Learn TCP/IP for developing and administering networks, cloud services and IoT devices.

Contents

- History of TCP/IP and the Internet
- How the Internet is managed: Internet Society, IETF, IRTF, RFC Editor, IAB, IAOC, IASA, IANA, W3C, ISO/IEC, ITU.
- OSI and DoD Layer Models
- Interaction of TCP/IP with OSI Layer 2: Ethernet, ARP, RARP, PPP
- Network Layer Protocols: IPv4, IPv6, ICMP, IGMP
- Transport Protocols: TCP, UDP, overview and comparison of alternative transport layer protocols
- Network Address and Host Configuration Management: DNS, BOOTP, DHCP; DNS Record Types
- Important Application Layer Protocols: FTP, HTTP, POP3, IMAP4, SMTP, SSH, NNTP, NTP and more
- Physical and Virtual Network Devices: Ethernet, Repeater, Hub, Bridge, Switch, Gateway, Router, Proxy, Firewall
- Important Network Standards: Ethernet, Wireless Ethernet
- Concepts: Firewall, NAT, Routing, Subnetting, Network Topologies, VPN
- Mapping the terms to the world of AWS
- Linux command line tools for network administration and analysis: ping, traceroute, telnet, nslookup, dig, whois, ssh, arp, netstat, iptables, ifconfig, route, tcpdump, Wireshark etc.

Booking

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