INFOSOFT IT SOLUTIONS

Training | Projects | Placements

Revathi Apartments, Ameerpet, 1ˢᵗ Floor, Opposite Annapurna Block, Infosoft It solutions, Software Training & Development Institute, +91-9059683947|91-9182540872

CompTIA Network+

Networking Concepts

- **OSI Model**: Explanation of the 7 layers and their functions.

- **TCP/IP**: Fundamentals of the TCP/IP protocol suite.

- **Ethernet**: Standards, cabling, and devices.

- **IP Addressing**: IPv4 vs. IPv6, subnetting, and addressing schemes.

- **Routing**: Basics of routing, static vs. dynamic routing protocols.

- **Switching**: VLANs, STP (Spanning Tree Protocol), and basic switching concepts.

- **Wireless**: Standards (802.11), encryption, and authentication.

Infrastructure

- **Cabling Solutions**: Types of cables and connectors (e.g., twisted pair, fiber optic).

- **Topology**: Different network topologies (star, mesh, bus, etc.).

- **Network Devices**: Routers, switches, hubs, access points, modems, etc.

- **Storage Technologies**: NAS (Network Attached Storage) and SAN (Storage Area Network).

Network Operations

- **Network Security**: Firewalls, IDS/IPS, VPNs, and network access control.
- **Network Monitoring**: Tools and techniques for monitoring and troubleshooting.
- **Network Management**: Configuration management, documentation, and policies.

Network Security

- **Security Protocols**: HTTPS, SSL/TLS, IPsec, etc.
- **Threats and Vulnerabilities**: Malware, phishing, DoS attacks, etc.
- **Authentication and Access Control**: Methods for authenticating and controlling access.

Network Troubleshooting and Tools

- **Troubleshooting Methodology**: Step-by-step troubleshooting process.
- **Networking Tools**: Command-line tools (ping, tracert, ipconfig/ifconfig, etc.).
- **Hardware Tools**: Cable testers, toners, and network analyzers.

WAN Technologies

- **WAN Basics**: VPN, MPLS, leased lines, etc.
- **Cloud and Virtualization Technologies**: Public vs. private clouds, virtual switches, etc.

Disaster Recovery and Business Continuity

- **Backup and Restore**: Methods for data backup and restoration.
- **High Availability**: Clustering, failover, and load balancing.

Network Design

- **Network Topologies and Architecture**: Designing LAN and WAN networks.
- **Virtualization and Network Optimization**: SDN (Software-Defined Networking), QoS (Quality of Service).

Policies and Best Practices

- **Network Policies**: Acceptable Use Policy (AUP), password policies, etc.

Emerging Technologies

- **IoT (Internet of Things)**: Security and networking considerations.
- **Mobile and BYOD (Bring Your Own Device)**: Policies and security measures.