

# INFOSOFT IT SOLUTIONS

Training | Projects | Placements

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## **Cisco CCNP Enterprise**

### **Implementing and Operating Cisco Enterprise Network Core Technologies (ENCOR 350-401)**

#### **Architecture**

- **Cisco Enterprise Architecture:** Understanding the Cisco enterprise architecture model.
- **Virtualization:** Implementing network virtualization solutions (e.g., VRF, GRE).
- **Data Center Architecture:** Overview of data center components and their integration with enterprise networks.

#### **Virtualization**

- **Virtual Machines:** Configuring and managing virtual machines.
- **Virtual Switching Technologies:** Implementing virtual switching technologies (e.g., VLANs, VXLAN).
- **Network Services:** Configuring DHCP, DNS, and IPAM (IP Address Management).

#### **Infrastructure**

- **Technologies:** Implementing and troubleshooting Layer 2 technologies (e.g., STP, EtherChannel).
- **Technologies:** Implementing and troubleshooting OSPF, EIGRP, BGP, and route redistribution.

- **IP Services:** Implementing HSRP, VRRP, GLBP, and DHCPv4/v6.

## **Network Assurance**

- **Monitoring Tools:** Using network monitoring tools (e.g., SNMP, NetFlow, IP SLA).
- **Troubleshooting Methodologies:** Applying structured troubleshooting methodologies.
- **Network Automation:** Implementing network automation scripts (Python, Ansible).

## **Security**

- **Secure Access:** Implementing secure access controls (e.g., ACLs, CoPP).
- **VPN Technologies:** Implementing and troubleshooting VPN technologies (e.g., DMVPN, SSL VPN).
- **Network Security:** Implementing network security features (e.g., AAA, TrustSec, MACsec).

## **Automation**

- **Network Automation Tools:** Using automation tools and protocols (e.g., RESTCONF, NETCONF).
- **Controllers:** Configuring and managing network devices using controllers (e.g., Cisco DNA Center).

## **Implementing Cisco Enterprise Advanced Routing and Services (ENARSI 300-410)**

### **Technologies**

- **Advanced OSPF:** Configuring OSPFv2 and OSPFv3 for IPv4 and IPv6.
- **Advanced EIGRP:** Configuring EIGRP for IPv4 and IPv6.

- **BGP Routing:** Implementing BGP routing policies and route manipulation.

## **VPN Services**

- **DMVPN:** Configuring DMVPN phase 1, 2, and 3.
- **Site-to-Site VPN:** Configuring site-to-site VPNs using GRE and IPsec.

## **Infrastructure Security**

- **Control Plane Security:** Implementing control plane security techniques (e.g., RPF, URPF).
- **Infrastructure ACLs:** Configuring infrastructure ACLs to filter traffic.

## **Infrastructure Services**

- **Network Time Protocol (NTP):** Configuring and troubleshooting NTP.
- **DHCP and IP SLA:** Configuring DHCP and IP SLA operations.

## **Network Services**

- **SNMP and Syslog:** Configuring SNMPv2c, SNMPv3, and syslog for network management.
- **Network Troubleshooting:** Using troubleshooting tools and techniques.