CCNP ROUTE TOPICS

Network Principles

FIB

Unicast

EIGRP to OSPF Migration

Configure and verify RIPv2

Describe RIPng

Split Horizon

Route poisoning

EIGRP

Basic Configuration of EIGRP

Authentication

EIGRP under same Autonomous System Number

EIGRP Route Summarization

EIGRP Load Balancing

Calculating EIGRP METRIC

Manipulating EIGRP METRIC

EIGRP stubs

EIGRP Administrative Distance

Route map and filtering

Configuring Maximum number of Hops in EIGRP

FRAME-RELAY & PPP

Authentication (PAP, CHAP)

PPPoE (client side only)

Point -to- multipoint SUB-Interface

Point -to-point SUB-Interface

Frame Relay Mappings

OSPF Part-1

Wildcard mask of ACL and OSPF single area & understanding wildcard mask

OSPF Router-ID

DR, BDR and Drother

OSPF STATES

OSPF Multiple Areas

Virtual Links

OSPF Part -2

Authentication

Redistribution of OSPF

Summarization in OSPF

STUB Area

Totally STUB Area

NOT-SO-STUBBY Area

OSPF Part -3

OSPF Filtration

OSPF Filtration using prefix-List

OSPF for IPv6

Configuring OSPF Dead-Interval

Configuring OSPF Hello-Interval

Ignoring Type-6 LSAs

Redirecting Traffic

VPN Technologies

Configure and verify GRE

DMVPN

Easy Virtual Networking (EVN)

BGP Part-1

Configuring EBGP Configuring IBGP Route-Reflector BGP Peer-Group

BGP Part-2

BGP Issues

Redistribution

Route summarization

BGP Attributes

BGP Part-3

Authentication Conditional Routing BGP Route-Filtration Local-AS

BGP Part-4

BGP Confederation

Limiting the number of AS in the AS-PATH Attribute

Configuring Administrative Distance

BGP Timers

Infrastructure Security & Services

AAA using local database

AAA with TACACS+ and RADIUS

Password encryption

IPv4 access control lists (standard, extended, time-based)

SNMP V2 & V3

verify logging – Timestamps

Network Time Protocol

IPv4 and IPv6 DHCP Network Address Translation (NAT)

SLA architecture

Configure and verify tracking objects (for example, interfaces, IPSLA results)

Configure and verify Cisco NetFlow