

ENRUTAMIENTO AVANZADO



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IMPLEMENTING CISCO ENTERPRISE ADVANCED ROUTING AND SERVICES

300-410 ENARSI



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ENARSI

300-410



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- This exam tests knowledge of implementation and troubleshooting for advanced routing technologies and services, including:
 - The fundamentals of routing.
 - Basic and advanced EIGRP topics.
 - Basic and advanced OSPF topics.
 - Basic and advanced BGP topics.
 - MPLS and MPLS L3 VPN.
 - DMVPN.
 - Troubleshooting techniques.
 - And many other topics..
- Duration: 90 minutes
- 60 questions
- Languages: English and Japanese
- Price: \$300 USD
- Passing score 825/1000

CCNP ENTERPRISE

Core exam	350-401 ENCOR	Implementing and Operating Cisco Enterprise Network Core Technologies (ENCOR)
Concentration exams		
300-410 ENARSI	Implementing Cisco Enterprise Advanced Routing and Services	
300-415 ENSDWI	Implementing Cisco SD-WAN Solutions	
300-420 ENSLD	Designing Cisco Enterprise Networks	
300-425 ENWLSD	Designing Cisco Enterprise Wireless Networks	
300-430 ENWLSI	Implementing Cisco Enterprise Wireless Networks	
300-435 ENAUTO	Implementing Automation for Cisco Enterprise Solutions	



CCNP ENARSI TOPICS

- Chapter 1: IPv4/IPv6 Addressing and Routing Review
- Chapter 2: EIGRP
- Chapter 3: Advanced EIGRP
- Chapter 4: Troubleshooting EIGRP for IPv4
- Chapter 5: EIGRPv6
- Chapter 6: OSPF
- Chapter 7: Advanced OSPF
- Chapter 8: Troubleshooting OSPFv2



CCNP ENARSI TOPICS

- Chapter 9: OSPFv3
- Chapter 10: Troubleshooting OSPFv3
- Chapter 11: BGP
- Chapter 12: Advanced BGP
- Chapter 13: BGP Path Selection
- Chapter 14: Troubleshooting BGP
- Chapter 15: Route Maps and Conditional Forwarding
- Chapter 16: Route Redistribution



CCNP ENARSI TOPICS

- Chapter 17: Troubleshoot Redistribution
- Chapter 18: VRF, MPLS, and MPLS Layer 3 VPNs
- Chapter 19: DMVPN Tunnels
- Chapter 20: Securing DMVPN Tunnels
- Chapter 21: Troubleshooting ACLs and Prefix Lists
- Chapter 22: Infrastructure Security
- Chapter 23: Device Management and Management Tools Troubleshooting



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PROTOCOLLO BGP



PROTOCOLO BGP ZERO TO HERO

Plan de estudios

Fundamentos BGP

Diferencias iBGP & eBGP

BGP Next hop self

Mecanismo de prevención de loop en BGP

Confederaciones y route reflector

Atributos de BGP (weight, Local preference, IGP, origin, AS-PATH, MED, eBGP sobre iBGP, router-id)

Atributos utilizados para preferencia de trafico de entrada y salida

Describir los atributos en base a su preferencia y best path

Políticas de filtro de salida y entrada para BGP

Manipulación de los atributos para escoger ciertos caminos en lugar de otros

Optimizar BGP (Route Refresh, timers, next hop tracking)

BGP con BFD

BGP PIC Edge y Core

BGP Authentication (MD5 & TCP AO)

BGP Authentication MD5/TAO

BGP TTL Security

BGP RTBH, Flowspec

BGP for IPv6 Networks

BGP for MPLS networks



BGP ZERO TO HERO

Multi-Protocol BGP Address-family (IVPNv4/v6 y otros)

MPLS L3VPN (VRF, RD, RT)

Escenarios:

Laboratorio básico de BGP

Laboratorio de Troubleshooting BGP adyacencias

Laboratorio de BGP usando Confederaciones y Route reflector

Laboratorio de Troubleshooting BGP

Laboratorio usando atributos y filtros de BGP

Laboratorio de troubleshooting BGP usando filtros

Laboratorio usando BGP con features de optimización

Laboratorio usando BGP con features de seguridad

Laboratorio de troubleshooting BGP

Laboratorio usando BGP IPv6

Laboratorio de troubleshooting BGP IPv6

Laboratorio usando MP-BGP

Laboratorio de troubleshooting MP-BGP



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!THANKS!