

SBA Study Topics

This study guide identifies essential study topics in preparation for the Lab exam. Please note that this guide is not guaranteed to be exhaustive, but is intended to highlight the major areas. Knowledge of appropriate **show commands** will be essential to confirm proper configuration.

- Port configuration:
 - network vs access mode
 - encapsulation: null, dot1Q, QinQ
 - MTU setting
- IP addressing, interfaces:
 - both IPv4 **and** IPv6
 - base addressing will be done, but interfaces may need to be added or changed to meet the given specifications
- Policy options: direct, OSPF, BGP, VPN family (bgp-vpn, vpn-ipv4), prefix lists
- OSPF:
 - base OSPF setup will be done, but changes may be necessary as per specs
 - single area and multi-area; ABR, ASBR
 - area types: backbone, stub, NSSA, totally stubby, totally NSSA
 - export policies
 - traffic-engineering
 - MTU setting
- BGP:
 - iBGP and eBGP sessions
 - export policies
 - MP-BGP, address families
- LDP: both link and targeted
- MPLS/RSVP-TE:
 - base configuration as well as TE attributes (eg. admin groups)
 - CSPF
- IGP shortcuts for iBGP, LDP-over-RSVP
- LSP:
 - Paths: totally loose, strict / loose hops
 - LSPs: primary, secondary, secondary standby; FRR
- SAP: encapsulation, special SAPs (eg default, null [dot1Q, QinQ], wildcard, null bottom)
- SDP: using LSP or LDP; MPLS only (no GRE); usage of spoke vs mesh mode
- ePipe service: both local and distributed
- VPLS service:
 - full-mesh, spoke-and-hub
 - both with and without SAPs (ie. ePipe or spoke termination of VPLS)
- VPRN service:
 - major components: MP-BGP, service, PE-CE routing (eBGP if BGP) and policies
 - router ID, ASN, RD, vrf-target, auto-bind, interface configured with SAP
- ping & trace commands for verifying all levels: IP, LSP, SDP, SVC, VPRN, CPE, IP (CE)