

Data Center Specialist (JNCIS-DC)



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Online Course



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Course Modules

1. Describe the concepts, operation, or functionality of an IP fabric

- Spine-Leaf topology design
- ECMP load balancing
- Underlay and Overlay routing strategies
- Juniper Networks best practices



2. Identify the concepts, operation, or functionality of EVPN

- EVI
- Bridge domain
- Ethernet segments
- Route distinguisher
- Route target versus vrf-import and vrf-export policies
- EVPN route types
- ERB using Type 2 or Type 5

3. Identify the concepts, operation, or functionality of VXLAN

- Control plane options
- VNI-to-VLAN mapping
- VTEP functions



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4. Identify concepts and general features of Juniper Apstra

- Apstra Server
- Apstra device agents
- Apstra UI
- RBAC (role-based access-control)
- Event log
- Syslog



5. Concepts, operation of components in the Apstra design phase

- DC Reference Design
- Interface maps
- Device profiles (e.g., interface naming and speeds)
- Resources
- Tags
- Logical devices
- Rack types
- Planning total spine capacity
- Templates

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6. Concepts of components in the Apstra build & deploy phases

- Fabric device management (e.g., install agents, system IDs)
- Blueprint UI
- Cable map
- Device states
- Deploy modes



7. Identify the concepts, benefits, applications of managing, etc

- Service versus probe anomalies
- Usage of top-level tabs (dashboard, analytics, staged, etc)
- Querying the blueprint
- Find by tags
- Making changes to a blueprint
- Reverting
- Time voyager usage
- Property sets and configlets
- Root cause identification
- Virtual networks and connectivity templates
- Adding a rack
- Configuration types (e.g., rendered, incremental, etc)
- Adding a generic system



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8. Identify the concepts, operation of multitenancy using Apstra

- Connectivity templates
- Routing zones and VRFs
- Routing policy
- Virtual networks
- Security policies
- VMware integration as it relates to Apstra
- Data Center Interconnect



9. Identify the concepts, benefits, apps of using Apstra intent-based

- Graph explorer
- Graph queries
- IBA probes

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