

## **CCNP DATACENTER – Application Centric Infrastructure (ACI)**

**300-620 DCACI      Implementing Cisco Application Centric Infrastructure (DCACI)**

**300-630 DCACIA      Implementing Cisco Application Centric Infrastructure - Advanced (DCACIA)**

### **1.0 ACI Fabric Infrastructure**

**1.1 Describe ACI topology and hardware**

**1.2 Describe ACI Object Model**

**1.3 Utilize faults, event record, and audit log**

**1.4 Describe ACI fabric discovery**

**1.5 Implement ACI policies**

- **1.5.a access**
- **1.5.b fabric**

**1.6 Implement ACI logical constructs**

- **1.6.a tenant**
- **1.6.b application profile**
- **1.6.c VRF**
- **1.6.d bridge domain (unicast routing, Layer 2 unknown hardware proxy, ARP flooding)**
- **1.6.e endpoint groups (EPG)**
- **1.6.f contracts (filter, provider, consumer, reverse port filter, VRF enforced)**

### **2.0 ACI Packet Forwarding**

**2.1 Describe endpoint learning**

**2.2 Implement server NIC teaming with ACI**

**2.3 Describe packet forwarding between leafs (VxLAN)**

**2.4 Implement bridge domain configuration knob (unicast routing, Layer 2 unknown hardware proxy, ARP flooding)**

**2.5 Implement endpoint learning optimizations (local/remote endpoint, limit IP subnet, enforce subnet check, IP dataplane leaning option in VRF, loop detection, and rogue EP)**

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### **3.0 Advanced ACI Policies and Integrations**

**3.1 Implement Layer 3 out transit routing**

**3.2 Utilize common tenant**

**3.3 Implement VRF route leaking**

**3.4 Implement Layer 3 out VRF route leaking**

**3.5 Implement contracts (pcTag, global pcTab, contract priorities, taboo, and deny filter)**

**3.6 Implement Layer 4 through Layer 7 PBR (including use cases)**

### **4.0 Traditional network with ACI**

**4.1 Describe network-centric and application-centric designs**

**4.2 Describe STP BPDU handling in ACI (FD-VNID and VLAN pool consideration)**

**4.3 Describe migration considerations**

### **5.0 External Network Connectivity**

**5.1 Implement Layer 2 out (STP/MCP basics)**

**5.2 Implement Layer 3 out (excludes transit routing and VRF route leaking)**

### **6.0 Integrations**

**6.1 Implement VMware vCenter DVS integration**

**6.2 Describe resolution immediacy in VMM**

**6.3 Implement service graph (managed and unmanaged)**

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### **7.0 ACI Management**

**7.1 Implement out-of-band and in-band**

**7.2 Utilize syslog and snmp services**

**7.3 Implement configuration backup (snapshot/config import export)**

**7.4 Implement AAA and RBAC**

**7.5 Configure an upgrade**

### **8.0 ACI Anywhere**

**A.0 Describe multipod**

- **A.1 Multipod**
- **A.2 Implement IPN**
- **A.3 Describe packet flow between pods**
- **A.4 Describe firewall and load balancer design with multipod**
- **A.5 Implement service graph with multipod**

**B.0 Describe multisite**

- **B.1 Multisite**
- **B.2 Implement Multi-Site Orchestrator**
- **B.3 Implement ISN**
- **B.4 Describe stretched component options**
- **B.5 Describe communication across sites**

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