

INFOSOFT IT SOLUTIONS

Training | Projects | Placements

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Cisco ACI

Introduction to Cisco ACI

- Overview of Cisco ACI architecture and components
- Benefits of using Cisco ACI for data center networking
- ACI integration with existing data center infrastructure

ACI Fabric Fundamentals

- Understanding ACI fabric components (Leaf switches, Spine switches)
- Fabric discovery and initialization process
- VXLAN and encapsulation in ACI

ACI Policy Model

- Understanding the ACI policy-driven approach
- Tenants, Application Profiles (EPGs), and Contracts
- Policies for networking, security, and application deployment

ACI Fabric Access Policies

- Access policies: Physical domains, VLAN pools, and interfaces
- Configuration of Access Policies for Leaf and Spine switches
- Integrating ACI with external Layer 2 and Layer 3 networks

ACI Application Network Profiles (ANP)

- Configuring ANPs for application-specific requirements
- Service Graphs and Device Packages in ACI
- Service Insertion and Chaining with ACI

ACI Integration with Virtualization

- Integrating ACI with VMware vSphere and NSX
- Cisco ACI Multi-Site architecture for distributed data centers
- ACI integration with other hypervisors and virtualization platforms

ACI Security Policies

- Microsegmentation using ACI security groups
- Role-Based Access Control (RBAC) in ACI
- Policy enforcement and monitoring in ACI fabric

ACI Automation and Orchestration

- Automation using Cisco APIC REST API
- Cisco ACI Toolkit for automation and programmability
- Ansible integration with Cisco ACI for configuration management

ACI Monitoring and Troubleshooting

- Using Cisco APIC for monitoring ACI fabric health
- Troubleshooting common ACI fabric issues
- Packet capture and analysis in ACI environment

ACI Fabric Upgrades and Maintenance

- Best practices for ACI fabric upgrades
- Managing ACI fabric maintenance windows
- Backup and restore procedures for ACI configurations

ACI Multi-Pod and Multi-Site Deployments

- Multi-Pod architecture in ACI
- Interconnecting ACI fabrics in different locations (Multi-Site)
- Stretching ACI fabrics across multiple data centers

ACI Analytics and Telemetry

- Telemetry and visibility options in ACI
- Using ACI Analytics for performance monitoring
- Predictive analytics and troubleshooting with ACI data

ACI Disaster Recovery and High Availability

- High availability considerations in ACI fabric
- Disaster recovery strategies for ACI deployments
- Designing resilient ACI architectures

ACI Compliance and Governance

- Implementing compliance policies in ACI
- Auditing and reporting in ACI fabric
- Ensuring regulatory compliance with ACI configurations

Real-World Use Cases and Case Studies

- Deploying Cisco ACI in enterprise environments
- Industry-specific use cases and success stories