

Cisco 300-620 DCACI Exam Prep 2026

Cisco 300-620 DCACI 2026. Configure ACI fabrics, APIC, tenant apps, and networking for the exam.

[IT Certifications](#) Instructor: Jason Miller • 5 sections • 44 lessons • 14.25h total

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About this course

The Cisco 300-620 exam tests your ability to implement Cisco ACI. This course breaks down the complex topics into manageable lessons, focusing on practical configuration and troubleshooting for the 2026 exam objectives. We cover everything from initial fabric setup to advanced policies.

You will learn how to configure and manage the Application Policy Infrastructure Controller (APIC), build tenant applications, and implement virtual and physical networking within the ACI fabric. The course includes video guides, downloadable configuration templates, and real troubleshooting scenarios.

Course curriculum

ACI Foundations and Fabric Setup

- **Understanding the ACI Fabric Model (12m)**
We'll explore the core principles of Application Centric Infrastructure and how it differs from traditional networking.
- **Initial APIC Cluster Deployment (22m)**
A step-by-step guide to bringing your APIC controllers online and forming a cluster for high availability.
- **Integrating Leaf and Spine Switches (18m)**
Learn how to discover and register ACI leaf and spine switches into your fabric.
- **Configuring Out-of-Band Management (9m)**
Set up secure access to your APIC and switches, a fundamental step for any network admin.
- **ACI Object Model and GUI Navigation (15m)**
Get a tour of the APIC GUI and understand the relational object model that drives ACI policies.
- **Setting Up Your First ACI Tenant (11m)**
Create a tenant space to logically separate your network environments, a key concept for the exam.
- **Basic Fabric Discovery and Health Checks (8m)**
Use built-in tools to verify your fabric is healthy and all nodes are communicating correctly.

Core Tenants, VRFs, and Bridge Domains

- **Building a Multi-Tenant Architecture (16m)**
Understand how to structure tenants for different departments or customers within a single fabric.
- **Configuring VRFs and Contexts (14m)**
Learn how to create and manage VRFs to isolate Layer 3 forwarding domains.
- **Designing Bridge Domains and Subnets (21m)**
We'll show you how to define Layer 2 broadcast domains and assign IP addresses to subnets.
- **Understanding Layer 2 and Layer 3 Forwarding (19m)**
A practical look at how ACI handles traffic within and between bridge domains.
- **Configuring DHCP Relay and Snooping (25m)**
Set up DHCP services for your tenants and secure your network against rogue DHCP servers.
- **Implementing Shared Services (13m)**
Learn how to share services like DNS or firewalls between different VRFs and tenants.
- **Troubleshooting Tenant Connectivity (28m)**
A problem-solving session focused on common issues with VRFs and bridge domains.
- **Real-Case Study: Enterprise Tenant Build (32m)**
Walk through the creation of a complete tenant setup for a fictional enterprise company.

Application Policies and EPGs

- **Creating Application EPGs (17m)**
Learn how to group endpoints logically and why this is the foundation of ACI policies.

- **Static Binding vs. Virtual Machine Domains (23m)**
We'll compare methods for adding endpoints to EPGs, from manual bindings to VMware integration.
- **Building Contracts and Filters (26m)**
A step-by-step guide to defining communication rules between EPGs using filters and contracts.
- **Configuring Subject and Filter Rules (18m)**
Dive deeper into the specifics of contract subjects to control traffic with precision.
- **Using Application Profiles (10m)**
Organize your EPGs into application profiles to mirror real-world application tiers.
- **Inter-EPG Communication and Policies (20m)**
Understand how to allow or deny traffic between EPGs using the policy-first approach.
- **Downloadable Contract Templates (12m)**
Get a reusable template for common contract configurations to speed up your workflow.
- **Troubleshooting Policy Enforcement (24m)**
Learn how to diagnose why traffic is being dropped by your application policies.
- **Lab: Deploying a 3-Tier App Policy (30m)**
Apply what you've learned to build a full policy set for a web, app, and database tier.

Physical and Virtual Network Integration

- **Configuring Layer 2 Out (L2Out) (19m)**
Connect your ACI fabric to external Layer 2 networks and legacy devices.
- **Setting Up Layer 3 Out (L3Out) (29m)**
A comprehensive guide to routing traffic out of the fabric using L3Out policies.
- **Understanding VRF Lite and Transit Routing (21m)**
Explore advanced routing scenarios for connecting multiple ACI fabrics or data centers.
- **Integrating with VMware vSphere (25m)**
Step-by-step instructions for connecting ACI to VMware environments for VM-level policy enforcement.
- **Integrating with Microsoft Hyper-V (15m)**
Learn how to apply ACI policies to virtual machines running on Hyper-V.
- **Managing Bare Metal Servers (14m)**
Configure ACI to support physical servers that are not virtualized.
- **Configuring Port Security and LACP (17m)**
Secure your physical switch ports and configure link aggregation for server connections.
- **Real Case Study: Hybrid Cloud Connectivity (35m)**
Analyze a scenario for connecting an on-premise ACI fabric to a public cloud provider.
- **Troubleshooting External Connectivity (27m)**
A problem-solving session focused on common L2Out and L3Out configuration errors.
- **Downloadable Integration Checklist (7m)**
A practical checklist to ensure you don't miss any steps when integrating virtual or physical endpoints.

Advanced ACI Features and Exam Readiness

- **Implementing Microsegmentation (EPG) (16m)**
Use EPGs to enforce security policies between endpoints within the same subnet.
- **Configuring Layer 4-Layer 7 Services (28m)**
Deploy and integrate service devices like firewalls and load balancers into your fabric.
- **Understanding Service Graphs (22m)**
Learn how to visually define the flow of traffic through network services.
- **Managing Firmware Upgrades (18m)**
A practical guide to upgrading your APICs and switches with minimal downtime.
- **Backing Up and Restoring the APIC (12m)**
Protect your configuration with regular backups and learn how to perform a restore.
- **Using the ACI Toolkit and API (24m)**
Get an introduction to automating ACI tasks using Python and the REST API.
- **Monitoring with Faults and Analytics (15m)**
Use the APIC's built-in monitoring tools to identify and resolve network issues proactively.
- **ACI Best Practices for 2026 (13m)**
Review the latest recommended configurations and design principles for the updated exam.
- **Full-Scale Lab: From Zero to Production (38m)**
A final capstone lab where you will build a complete ACI fabric configuration from scratch.
- **Exam Strategy and Question Walkthrough (20m)**
Get tips on how to approach the 300-620 exam questions and review key topics.

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