

Cisco 300-910 Exam Preparation 2026

Cisco 300-910 2026. DevOps exam prep with hands-on practice and structured study plan.

[IT Certifications](#) Instructor: Jason Miller • 5 sections • 46 lessons • 16.00h total

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About this course

This course is for IT professionals and DevOps engineers who want to pass the Cisco 300-910 exam without relying on outdated resources. We focus on building an understanding of the core concepts and practical skills the exam tests.

You will learn how to structure your study plan, tackle each exam domain with hands-on practice, and apply troubleshooting techniques in realistic scenarios. The course includes video lessons, step-by-step guides, and downloadable templates.

Course curriculum

Foundations and Planning

- **Understanding the 300-910 Exam Structure (12m)**
Learn the exam domains, question formats, and scoring to plan your study effectively from day one.
- **Creating Your Personalized Study Plan (18m)**
Step-by-step guide to build a realistic study schedule that fits your current workload and learning style.
- **Setting Up Your DevOps Lab Environment (22m)**
Hands-on tutorial to configure a free or low-cost lab for practicing Cisco DevOps tools and scenarios.
- **Key DevOps Concepts for the Exam (15m)**
Quick review of essential DevOps principles like CI/CD, IaC, and automation that you'll encounter on the test.
- **How to Use Cisco Learning Resources (10m)**
Navigate official Cisco materials and community forums to supplement your study without wasting time.
- **Avoiding Common Study Pitfalls (14m)**
Real-world advice on what not to do when preparing for the 300-910 exam based on past candidate experiences.
- **Tracking Your Progress Effectively (9m)**
Downloadable template to monitor your study hours, practice scores, and areas needing improvement.

Core Exam Domains

- **Automating Infrastructure with Ansible (25m)**
Deep dive into Ansible playbooks and modules relevant to the exam, with real configuration examples.
- **Implementing CI/CD Pipelines with Jenkins (28m)**
Step-by-step guide to setting up and troubleshooting Jenkins pipelines for Cisco DevOps scenarios.
- **Managing Containers with Docker and Kubernetes (30m)**
Practical lessons on container orchestration, including exam-focused troubleshooting techniques.
- **Using Python for Network Automation (24m)**
Write and debug Python scripts that automate Cisco network tasks, with downloadable code samples.
- **Working with Cisco APIs and Webhooks (20m)**
Hands-on practice integrating Cisco platforms with external tools using REST APIs.
- **Monitoring and Logging with ELK Stack (26m)**
Learn to set up monitoring solutions and analyze logs, a key skill for the DevOps exam domain.
- **Security Best Practices in DevOps (19m)**
Understand how to secure your DevOps pipeline, with case studies on common vulnerabilities.
- **Infrastructure as Code with Terraform (27m)**
Create and manage infrastructure using Terraform, focusing on exam-relevant configurations.

- **Troubleshooting DevOps Workflows (32m)**

Problem-solving session covering common issues in automation pipelines and how to fix them quickly.

Advanced DevOps Techniques

- **Scaling Automation with Ansible Tower (23m)**

Learn to manage large-scale automation projects, including role-based access control and auditing.

- **Integrating Git for Version Control in DevOps (16m)**

Best practices for using Git in team environments, with a focus on exam scenarios.

- **Implementing Blue-Green Deployments (21m)**

Real case study analysis of deploying applications with zero downtime using Cisco tools.

- **Advanced Kubernetes Networking (29m)**

Deep dive into CNI plugins and service meshes, with practical configuration examples.

- **Optimizing CI/CD for Speed and Reliability (18m)**

Strategies to improve pipeline performance and reduce failure rates, based on real-world data.

- **Using Prometheus for Metrics Collection (20m)**

Set up Prometheus and Grafana dashboards to monitor DevOps environments effectively.

- **Automating Security Scans in Pipelines (17m)**

Integrate security tools like SonarQube into your CI/CD process, with downloadable scripts.

Real-World Application and Scenarios

- **Case Study: Automating a Cisco Network Migration (35m)**

Walk through a complete project from planning to execution, highlighting exam-relevant decisions.

- **Building a Multi-Cloud DevOps Pipeline (31m)**

Hands-on tutorial for creating pipelines that work across AWS, Azure, and Cisco platforms.

- **Disaster Recovery with DevOps Tools (27m)**

Learn to design and test recovery plans using automation, with real failure scenarios.

- **Performance Tuning for DevOps Workloads (22m)**

Practical tips for optimizing resource usage and costs in automated environments.

- **Collaborating in DevOps Teams (14m)**

Communication strategies and tools for effective teamwork, based on industry best practices.

- **Handling Exam-Style Troubleshooting Questions (26m)**

Practice solving complex problems under time pressure, with step-by-step breakdowns.

- **Integrating AI/ML into DevOps (33m)**

Explore how AI can enhance automation, with examples relevant to Cisco's ecosystem.

- **Real-World DevOps Project: From Start to Finish (38m)**

Comprehensive walkthrough of a full project, including all tools and techniques covered.

- **Ethical Considerations in Automation (11m)**

Discuss the impact of DevOps decisions and how to align with organizational values.

- **Preparing for the Exam Day (13m)**

Final checklist and mental preparation tips to ensure you're ready for the 300-910 test.

Implementation and Next Steps

- **Creating Your DevOps Portfolio (20m)**
Step-by-step guide to showcase your skills with projects that impress employers and examiners.
- **Continuous Learning After Certification (15m)**
Resources and strategies to stay updated with Cisco DevOps trends and maintain your skills.
- **Networking with DevOps Professionals (12m)**
How to build a professional network that supports your career growth post-certification.
- **Applying DevOps Skills in Your Current Job (18m)**
Practical advice on introducing automation and best practices to your workplace.
- **Advanced Certification Paths Beyond 300-910 (16m)**
Overview of related Cisco certifications and how to plan your next career move.
- **Troubleshooting Real DevOps Issues (28m)**
Problem-solving session based on actual issues faced by DevOps engineers in the field.
- **Automating Daily DevOps Tasks (24m)**
Downloadable scripts and templates to automate repetitive tasks and save time.
- **Measuring DevOps Success with Metrics (19m)**
Learn to track key performance indicators and demonstrate value to stakeholders.
- **Scaling Your DevOps Practice (22m)**
Strategies for growing your automation efforts across larger teams and projects.
- **Final Review and Practice Exam (30m)**
Comprehensive review of all topics with a simulated exam to test your readiness.
- **Post-Certification Career Planning (14m)**
Actionable steps to leverage your new certification for promotions or new opportunities.
- **Maintaining Your Cisco Certification (10m)**
Understand the recertification process and how to keep your credentials active.
- **Building a DevOps Community (12m)**
How to contribute to and learn from the broader DevOps community for ongoing growth.

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