

Cisco Duo Identity and Access Management (CPL-DUOIAM)

Duration: 180 Days

The Cisco Duo Identity and Access Management (DUOIAM) Learning Path provides a comprehensive understanding of the use of Cisco Duo Identity Management platform Single Sign-On (SSO) and related protocols for application access control. You will also learn about Cisco Duo's cloud-based SSO capabilities to enable comprehensive identity and application access security through multi-factor authentication (MFA), trusted device verification, passwordless options, risk-based policies, and seamless user experience features like Duo Passport for uninterrupted access across applications. This Learning Path will empower you to design, implement, and manage secure identity solutions within an enterprise environment using Cisco Duo, with emphasis on zero trust principles.

Skills You'll Learn:

- Design and implement secure authentication workflows using industry-standard protocols such as SAML 2.0, OAuth 2.0, and OpenID Connect (OIDC)
- Apply risk-based, adaptive access policies that utilize MFA and device posture verification to ensure only trusted users and endpoints gain access
- Deploy phishing-resistant authentication methods, including FIDO2-compliant passkeys and WebAuthn, to replace traditional passwords and improve user experience
- Utilize SCIM provisioning, directory synchronization, and automated workflows to maintain secure user access throughout the Joiner, Mover, and Leaver stages
- Leverage identity intelligence and telemetry to monitor authentication signals, identify behavioral anomalies, and integrate with SOC operations for rapid threat response

Learning Path Objectives:

1. **Modern SSO Authentication:** Build foundational knowledge of modern authentication and SSO concepts by exploring the key protocols that enable secure access through Cisco Duo's cloud-based solution.
2. **Seamless SSO Concepts:** Explore SSO implementation challenges and solutions, focusing on achieving seamless SSO across diverse environments using Duo Passport.
3. **Multi-Factor Authentication (MFA):** Cover user credential security, multi-factor authentication methods, and risk-based authentication approaches using Cisco Duo's MFA capabilities.
4. **Passwordless Authentication:** Discover passwordless authentication concepts, underlying technologies, and Duo's passwordless implementation, including passkeys and OS login integration.

5. Identity Verification & Intelligence: Learn about identity verification, verifiable credentials, identity intelligence, threat detection, and security posture management using Cisco Identity Intelligence (CII).
6. Operationalizing Identity Security: Focus on integrating identity security into operations, covering integrations, lifecycle management, and governance.

