



MICROSOFT TRAINING

Azure AD Graph Course

Master Azure AD Graph API for secure application integration. Learn to manage users, groups, and directory data efficiently.

DURATION

24 hours

LEVEL

Intermediate

FORMAT

Instructor-Led

-
- Globally Recognized Certification
 - Expert-Led Hands-On Training
 - Flexible Scheduling

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COURSE OVERVIEW

This intermediate-level Azure AD Graph Course is meticulously designed for IT professionals, developers, and administrators looking to master programmatic interaction with Azure Active Directory. Participants will gain in-depth knowledge of the Azure AD Graph API, a powerful RESTful interface for managing Azure AD resources such as users, groups, applications, and service principals. The course will delve into authentication mechanisms, advanced query techniques, and practical scripting using PowerShell and various programming languages to automate administrative tasks and build custom applications that integrate seamlessly with Azure AD. Upon completion, you will be proficient in leveraging the Azure AD Graph API to enhance organizational security, streamline identity management processes, and extend the capabilities of your cloud infrastructure. This expertise is crucial for modern IT environments where automation and robust identity solutions are paramount, enabling you to design and implement highly efficient solutions for managing digital identities and access within the Microsoft ecosystem.

Duration	24 hours
Level	Intermediate
Vendor	Microsoft

COURSE CURRICULUM

01 Module 1: Introduction to Azure AD Graph API

- Understanding Azure Active Directory Fundamentals
- Overview of Azure AD Graph API vs. Microsoft Graph API
- REST API concepts and principles
- Key resources and entities in Azure AD Graph

02 Module 2: Authentication and Authorization

- Azure AD authentication flows (OAuth 2.0, OpenID Connect)
- Registering applications in Azure AD
- Obtaining access tokens for Azure AD Graph
- Delegated vs. Application permissions
- Consent framework

03 Module 3: Managing Users and Groups

- Creating, updating, and deleting users
- Managing user properties and attributes
- Working with groups (security and Microsoft 365 groups)
- Adding and removing group members
- Querying user and group relationships

04 Module 4: Managing Applications and Service Principals

- Understanding applications, service principals, and app registrations
- Programmatic management of applications
- Assigning roles and permissions to applications
- Managing application secrets and certificates

05 Module 5: Advanced Queries and Operations

- Filtering, sorting, and pagination
- Batch operations

- Directory extensions
- Handling common errors and troubleshooting
- Practical examples with PowerShell and other SDKs

06 Module 6: Transitioning to Microsoft Graph

- Understanding the evolution from Azure AD Graph to Microsoft Graph
- Key differences and advantages of Microsoft Graph
- Migration strategies and considerations for existing solutions

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **Cloud Identity & Access Management Specialist**
- > **Azure Cloud Automation Engineer**
- > **Microsoft 365 Solutions Architect**

FREQUENTLY ASKED QUESTIONS

Q: Given that Microsoft Graph is the recommended API for Microsoft 365 and Azure AD, what is the practical relevance of learning Azure AD Graph API in this course?

While Microsoft Graph is the strategic direction, many existing enterprise solutions, legacy applications, and specific automation scripts still rely heavily on the Azure AD Graph API. This course provides crucial skills for maintaining, troubleshooting, and understanding these existing systems. Furthermore, it lays a foundational understanding of programmatic interaction with Azure AD, which is highly transferable to mastering Microsoft Graph, especially for identity-related operations. It bridges the gap for professionals working in environments with mixed API dependencies.

Q: What specific types of Azure AD administration tasks can I automate using the skills learned in this course?

This course will equip you to automate a wide range of Azure AD administrative tasks. This includes bulk user and group creation or modification, managing application registrations and their permissions, assigning and revoking directory roles, auditing user access, automating onboarding/offboarding processes, and integrating custom applications with Azure AD for identity management without manual intervention, significantly boosting operational efficiency.

Q: Are there any specific programming language prerequisites or will the course focus solely on PowerShell for API interaction?

The course primarily uses PowerShell for practical demonstrations and labs due to its widespread use in Azure administration. However, the fundamental concepts of RESTful API interaction, authentication flows, and JSON data structures are universally applicable. While no specific programming language is a strict prerequisite, a basic understanding of scripting logic and JSON data format will be highly beneficial, allowing you to easily adapt the concepts to languages like C#, Python, or JavaScript if you plan to build custom applications.

ABOUT COMPUTER PRIDE



East Africa's Premier IT Training Center

With over 15 years of excellence, Computer Pride delivers globally recognized certification programs from leading technology vendors. Located on Kenyatta Avenue in Nairobi's CBD, our state-of-the-art facilities and expert instructors have empowered thousands of professionals across East Africa.

15+

Years of Excellence

10,000+

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50+

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READY TO ENROL?

Take the next step in your technology career.

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