

Microsoft Entra ID Automation Samples

Welcome to the Microsoft Entra ID Automation Samples repository! This collection provides practical, real-world examples of how to manage and automate tasks in Microsoft Entra ID using scripts and Infrastructure as Code.

The goal of this repository is to offer clear, well-documented solutions for common administrative and operational scenarios, helping you leverage the power of automation for your identity management needs.

Guiding Principles

Each sample in this repository is designed with the following principles in mind:

- **Practicality:** Solves a real-world problem.
- **Clarity:** Includes detailed explanations and clean, readable code.
- **Flexibility:** Provides multiple implementation methods where applicable (e.g., Bash, PowerShell, Terraform).
- **Security:** Follows best practices, such as using managed identities and adhering to the principle of least privilege.

Available Samples

Below is a catalog of the available samples. Each sample resides in its own directory and includes a detailed [README.md](#) with specific instructions.

Sample	Description	Technologies Used
Granting Graph API Permissions to a Managed Identity	Demonstrates how to grant Microsoft Graph API application permissions to a user-assigned managed identity. This is crucial for enabling Azure services to securely access Entra ID data without credentials.	Terraform , Azure CLI , Bash , PowerShell

More samples coming soon...

General Prerequisites

While each sample has its own specific requirements, most will require the following tools:

- An active **Azure Subscription**.
- **Azure CLI** for authentication and resource management.
- Sufficient permissions in your Microsoft Entra ID tenant to manage resources (e.g., [Application Administrator](#) or [Cloud Application Administrator](#) roles).

How to Use

1. **Clone the repository:**

```
git clone <repository-url>
```

2. **Navigate to a sample directory:**

```
cd name-of-sample-directory
```

3. **Follow the instructions:** Each sample directory contains a dedicated `README.md` file with detailed, step-by-step instructions for that specific scenario.

Contributing

Contributions are welcome! If you have an idea for a new sample or an improvement to an existing one, please feel free to open an issue or submit a pull request.