

# Documentation: Azure AD Secrets Expiration Report Script

## Overview

This PowerShell script generates an HTML report listing Azure AD application secrets that are set to expire soon. It highlights secrets expiring within the next 7 days and sorts them by their expiration date from newest to oldest. The report includes a timestamp indicating when it was generated.

## Features

- Retrieves secrets from Azure AD applications.
- Filters secrets based on expiration within the next 30 days.
- Highlights secrets expiring within the next 7 days with a red background.
- Sorts secrets by expiration date from newest to oldest.
- Includes a timestamp indicating the report generation date and time.
- Generates an HTML file with the report.

## Script Parameters

- **\$LimitExpirationDays**: Number of days within which secrets are considered for the report. Default is 30 days.
- **\$HighlightDays**: Number of days from the current date to highlight secrets expiring soon. Default is 7 days.

## Steps

1. **Retrieve Secrets:**
  - Fetch all Azure AD applications.
  - Collect both password and key credentials for each application.
  - Filter credentials that expire within the next 30 days.
2. **Sort and Highlight:**
  - Sort the filtered secrets by expiration date from newest to oldest.
  - Determine the date range for highlighting (next 7 days from the current date).
  - Highlight secrets expiring within this range with a red background in the report.

### 3. **Generate Report:**

- Create an HTML file with a table listing the secrets.
- Include a timestamp indicating when the report was generated.
- Save the HTML file with a timestamped filename.

### **Script Usage**

1. **Run the Script:** Execute the script in a PowerShell environment where Azure AD PowerShell modules are installed and authenticated.
2. **Review the Output:** The script generates an HTML file named `SecretsExpirationReport_<timestamp>.html` in the script's working directory.
3. **View the Report:** Open the HTML file in a web browser to view the list of secrets and their expiration details.

### **Example Output**

- **Filename:** `SecretsExpirationReport_20240909-150000.html`
- **Content:** An HTML table displaying secrets with columns for Application Name, Object ID, App ID, Type, Key Identifier, and Expiration Date. Secrets expiring in the next 7 days are highlighted in red.

### **Dependencies**

- AzureAD PowerShell module (AzureAD).
- Proper authentication and permissions to access Azure AD applications and their credentials.

### **Notes**

- Adjust `$LimitExpirationDays` and `$HighlightDays` as needed for different reporting periods.
- Ensure you have the necessary permissions to access and read Azure AD secrets.