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About

AzureADRecon is a tool which gathers information about the Azure Active Directory and generates a report which can provide a holistic picture of the current state of the target environment.

 [Readme](#)

 AGPL-3.0 license

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AzureADRecon: Azure Active Directory Recon

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AzureADRecon is a tool which extracts and combines various artefacts (as highlighted below) out of an Azure AD environment with a valid credential. The information can be presented in a specially formatted Microsoft Excel report that includes summary views with metrics to facilitate analysis and provide a holistic picture of the current state of the target environment.

The tool is useful to various classes of security professionals like auditors, DFIR, students, administrators, etc. It can also be an invaluable post-exploitation tool for a penetration tester.

The tool requires AzureAD PowerShell Module to be installed.

The following information is gathered by the tool:

- Tenant
- Domain
- Licenses
- Users
- ServicePrincipals
- DirectoryRoles
- DirectoryRoleMembers
- Groups
- GroupMembers
- Devices

Getting Started

These instructions will get you a copy of the tool up and running on your local machine.

Prerequisites

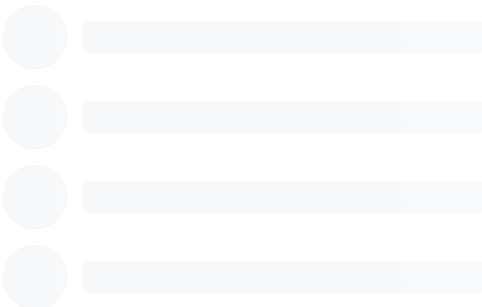
- .NET Framework 3.0 or later (Windows 7 includes 3.0)
- PowerShell
 - PowerShell 2.0 or later (Windows 7 includes 2.0)
 - AzureAD PowerShell Module
(<https://www.powershellgallery.com/packages/AzureAD/>) Requires PowerShell 3.0 or later
 - `Install-Module -Name AzureAD`
 - Limited PowerShell Core support (Tested on PowerShell v7.3.1; Excel generation requires Windows)

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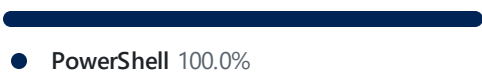
Packages

No packages published

Contributors 4



Languages



- Microsoft Graph Module
(<https://www.powershellgallery.com/packages/microsoft.graph>)
- `Install-Module -Name Microsoft.Graph`
- Scopes required: AuditLog.Read.All, User.Read.All, UserAuthenticationMethod.Read.All

Optional

- Microsoft Excel (to generate the report)

Installing

If you have git installed, you can start by cloning the [repository](#):

```
git clone https://github.com/adrecon/AzureADRecon
```

Otherwise, you can [download a zip archive of the latest release](#).

The intent is to always keep the master branch in a working state.

Usage

Examples

To run AzureADRecon (will prompt for credentials).

```
PS C:\> .\AzureADRecon.ps1
```

or

```
PS C:\> $username = "username@fqdn"  
PS C:\> $passwd = ConvertTo-SecureString "Plain"  
PS C:\> $creds = New-Object System.Management.Automation.PSCredential ($username, $passwd)  
PS C:\> .\AzureADRecon.ps1 -Credential $creds
```

To generate the AzureADRecon-Report.xlsx based on AzureADRecon output (CSV Files).

```
PS C:\>.\.AzureADRecon.ps1 -GenExcel C:\AzureADRecon\
```

Fill in the relevant details in the `MSGraph-Credentials.csv` and use the following command

```
PS C:\>.\.AzureADRecon.ps1 -Method MSGraph
```

When you run AzureADRecon, a `AzureADRecon-Report-<timestamp>` folder will be created which will contain `AzureADRecon-Report.xlsx` and `CSV-Folder` with the raw files.

Parameters

```
-Method <String>
    Which method to use; AzureAD (default), MSGraph

-Credential <PSCredential>
    Domain Credentials.

-GenExcel <String>
    Path for AzureADRecon output folder contain:

-TenantID <String>
    The Azure TenantID to connect to when you have

-OutputDir <String>
    Path for AzureADRecon output folder to save

-Collect <String>
    Which modules to run (Comma separated; e.g 'Tenant, Domain, License')
    Valid values include: Tenant, Domain, License, Passwords, Groups, Users, Applications, Devices, Policies, ConditionalAccess, Security, AuditLogs, Alerts, Incidents, ThreatIntelligence, ThreatDetection, ThreatHunting, ThreatResponse, ThreatIntelligence, ThreatDetection, ThreatHunting, ThreatResponse

-OutputType <String>
    Output Type; Comma separated; e.g CSV,STDOUT
    Valid values include: STDOUT, CSV, XML, JSON

-DormantTimeSpan <Int>
    Timespan for Dormant accounts. (Default 30 days)

-PassMaxAge <Int>
    Maximum machine account password age. (Default 90 days)
```

```
-PageSize <Int>
    The PageSize to set for the LDAP searcher ol

-Threads <Int>
    The number of threads to use during process:

-Log <Switch>
    Create ADRecon Log using Start-Transcript
```

Bugs, Issues and Feature Requests

Please report all bugs, issues and feature requests in the [issue tracker](#). Or let me (@prashant3535) know directly.

Contributing

Pull request are always welcome.

Mad props

Thanks for the awesome work by @_wald0, @CptJesus, @harmj0y, @mattifestation, @PyroTek3, @darkoperator, @ITsecurityAU Team, @CTXIS Team and others.

License

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