

• Users and their attributes;

Service Principal Names (SPNs);

Groups, memberships and changes;

- Organizational Units (OUs);
- GroupPolicy objects and gPLink details;
- DNS Zones and Records;
- Printers;
- Computers and their attributes;
- PasswordAttributes (Experimental);
- LAPS passwords (if implemented);
- BitLocker Recovery Keys (if implemented);
- ACLs (DACLs and SACLs) for the Domain, OUs, Root Containers, GPO, Users, Computers and Groups objects (not included in the default collection method);
- GPOReport (requires RSAT);
- Kerberoast (not included in the default collection method); and
- Domain accounts used for service accounts (requires privileged account and not included in the default collection method).

ADRecon was presented at: Black Hat Arsenal Asia 2018 - Slidedeck

Black Hat Arsenal USA 2018 DEFCON 26 Demo Labs - Slidedeck

Bay Area OWASP - Slidedeck

CHCON - Slidedeck

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 2.0 or later (Windows 7 includes 2.0)
 - Powershell Core on Windows is supported (Tested on PowerShell v7.2.2 running on Windows 10)
- A Windows host (Powershell for Linux/macOS is not supported)

Optional

- Microsoft Excel (to generate the report)
- Remote Server Administration Tools (RSAT):
 - Windows 10 (October 2018 Update or 1809 and later), RSAT is included as a set of Features on Demand.
 - Click on Start --> Settings --> Apps --> Apps & features --> Manage optional features --> Add a feature --> Select the following:
 - RSAT: Active Directory Domain Services and Lightweight Directory Services Tools
 - RSAT: Group Policy Management Tools
 - Windows 10 (https://www.microsoft.com/en-au/download/details.aspx? id=45520)
 - Windows 7 (https://www.microsoft.com/en-au/download/details.aspx? id = 7887)

Installing

If you have git installed, you can start by cloning the repository:

git clone https://github.com/adrecon/ADRecon.git

Q

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 ADRecon on a domain member host.

PS C:\> .\ADRecon.ps1

To run ADRecon on a domain member host as a different user.

PS C:\>.\ADRecon.ps1 -DomainController <IP or FQDN> -Credential <dom: \Box

To run ADRecon on a non-member host using LDAP.

PS C:\>.\ADRecon.ps1 -Method LDAP -DomainController <IP or FQDN> -Cr

To run ADRecon with specific modules on a non-member host with RSAT. (Default OutputType is STDOUT with -Collect parameter)

PS C:\>.\ADRecon.ps1 -Method ADWS -DomainController <IP or FQDN> -Cr(

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

PS C:\>.\ADRecon.ps1 -GenExcel C:\ADRecon-Report-<timestamp>

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

Parameters

Q -Method <String> Which method to use; ADWS (default), LDAP -DomainController <String> Domain Controller IP Address or Domain FQDN. -Credential <PSCredential> Domain Credentials. -GenExcel <String> Path for ADRecon output folder containing the CSV files to generate -OutputDir <String> Path for ADRecon output folder to save the CSV/XML/JSON/HTML file Which modules to run (Comma separated; e.g Forest, Domain. Defaul Valid values include: Forest, Domain, Trusts, Sites, Subnets, Scl -OutputType <String> Output Type; Comma seperated; e.g CSV,STDOUT,Excel (Default STDOI Valid values include: STDOUT, CSV, XML, JSON, HTML, Excel, All (-DormantTimeSpan <Int> Timespan for Dormant accounts. (Default 90 days) -PassMaxAge <Int> Maximum machine account password age. (Default 30 days) -PageSize <Int> The PageSize to set for the LDAP searcher object. (Default 200) -Threads <Int> The number of threads to use during processing objects (Default :

```
-OnlyEnabled <Bool>
    Only collect details for enabled objects.
-Log <Switch>
    Create ADRecon Log using Start-Transcript
-Logo <String>
    Which Logo to use in the excel file? (Default ADRecon)
    Values include: ADRecon, CyberCX, Payatu.
```

Future Plans

- Replace System.DirectoryServices.DirectorySearch with System.DirectoryServices.Protocols and add support for LDAP STARTTLS and LDAPS (TCP port 636).
- Add Domain Trust Enumeration.
- Add option to filter default ACLs.
- Gather ACLs for other objects such as Users, Group, etc.
- Additional export and storage option: export to STDOUT, SQLite, xml, json, html, pdf.
- Use the EPPlus library for Excel Report generation and remove the dependency on MS Excel.
- List issues identified and provide recommended remediation advice based on analysis of the data.
- Add PowerShell Core support.

Bugs, Issues and Feature Requests

Please report all bugs, issues and feature requests in the <u>issue tracker</u>. 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, @CxCyber Team, @payatulabs Team and others.

License

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

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