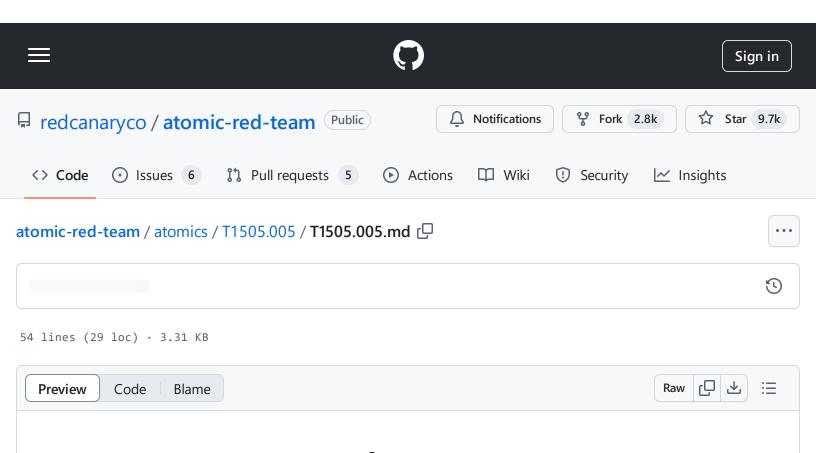
atomic-red-team/atomics/T1505.005/T1505.005.md at 74438b0237d141ee9c99747976447dc884cb1a39 · redcanaryco/atomic-red-team · GitHub - 31/10/2024 18:45 https://github.com/redcanaryco/atomic-red-team/blob/74438b0237d141ee9c99747976447dc884cb1a39/atomics/T1505.005/T1505.005.md



T1505.005 - Server Software Component: Terminal Services DLL

Description from ATT&CK

Adversaries may abuse components of Terminal Services to enable persistent access to systems. Microsoft Terminal Services, renamed to Remote Desktop Services in some Windows Server OSs as of 2022, enable remote terminal connections to hosts. Terminal Services allows servers to transmit a full, interactive, graphical user interface to clients via RDP.(Citation: Microsoft Remote Desktop Services)

<u>Windows Services</u> that are run as a "generic" process (ex: svchost.exe) load the service's DLL file, the location of which is stored in a Registry entry named ServiceDll .(Citation: Microsoft System Services Fundamentals) The termsrv.dll file, typically stored in %SystemRoot%\System32\, is the default ServiceDll value for Terminal Services in HKLM\System\CurrentControlSet\services\TermService\Parameters\.

Adversaries may modify and/or replace the Terminal Services DLL to enable persistent access to victimized hosts.(Citation: James TermServ DLL) Modifications to this DLL could be done to execute

arbitrary payloads (while also potentially preserving normal termsrv.dll functionality) as well as to simply enable abusable features of Terminal Services. For example, an adversary may enable features such as concurrent Remote Desktop Protocol sessions by either patching the termsrv.dll file or modifying the ServiceDll value to point to a DLL that provides increased RDP functionality.(Citation: Windows OS Hub RDP)(Citation: RDPWrap Github) On a non-server Windows OS this increased functionality may also enable an adversary to avoid Terminal Services prompts that warn/log out users of a system when a new RDP session is created.

Atomic Tests

Atomic Test #1 - Simulate Patching termsrv.dll

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Simulates patching of termsrv.dll by making a benign change to the file and replacing it with the original afterwards. Before we can make the modifications we need to take ownership of the file and grant ourselves the necessary permissions.

Supported Platforms: Windows

auto_generated_guid: 0b2eadeb-4a64-4449-9d43-3d999f4a317b

Attack Commands: Run with powershell! Elevation Required (e.g. root or admin)

```
$ACL = Get-Acl $fileName

$permission = "Administrators", "FullControl", "Allow"

$accessRule = New-Object System.Security.AccessControl.FileSystemAccessRule $perminus $ACL.SetAccessRule($accessRule)

Set-Acl -Path $fileName -AclObject $ACL

Copy-Item -Path "C:\Windows\System32\termsrv.dll" -Destination "C:\Windows\System3:

Add-Content -Path "C:\Windows\System32\termsrv.dll" -Value "`n" -NoNewline -ErrorActer

Move-Item -Path "C:\Windows\System32\termsrv_backup.dll" -Destination "C:\Windows\System32\termsrv_backup.dll" -Destina
```

Cleanup Commands:

```
Move-Item -Path "C:\Windows\System32\termsrv_backup.dll" -Destination "C:\Windows\!
```

| atomic-red-team/atomics/T1505.005/T1505.005.md at 74438b0237d141ee9c99747976447dc884cb1a39 · redcanaryco/atomic-red-team · GitHub - 31/10/2024 18:45 https://github.com/redcanaryco/atomic-red-team/blob/74438b0237d141ee9c99747976447dc884cb1a39/atomics/T1505.005/T1505.005.md |
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