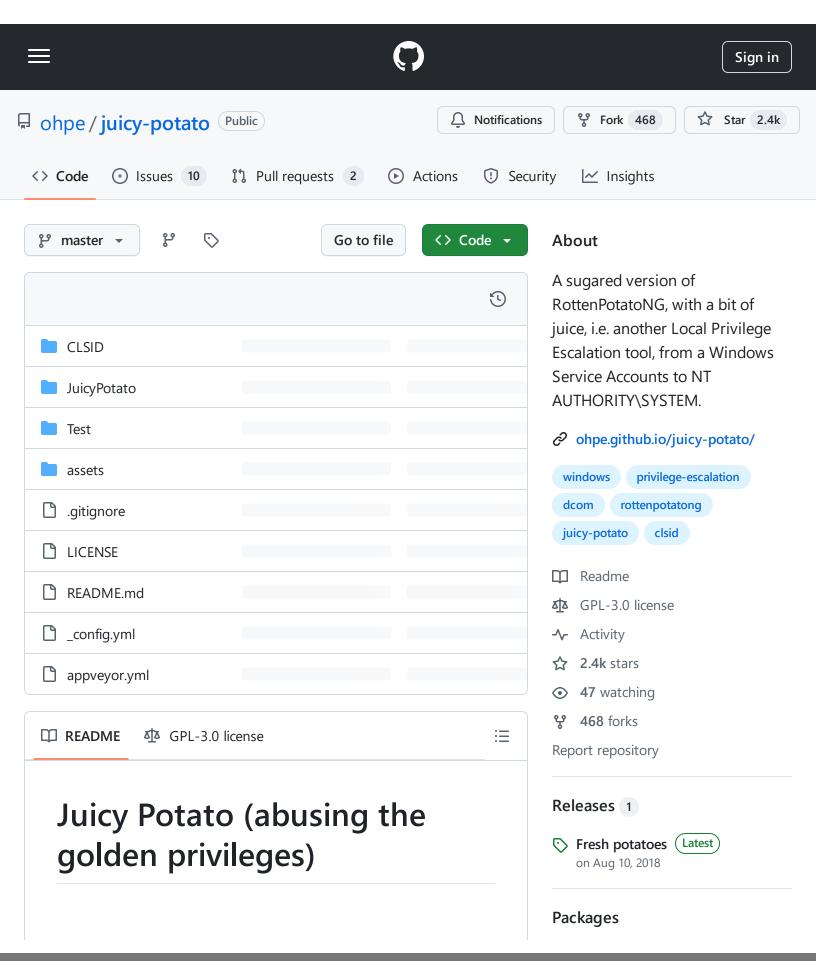
GitHub - ohpe/juicy-potato: Asugared version of RottenPotatoNG, with a bit of juice, i.e. another Local Privilege Escalation tool, from a Windows Service Accounts to NT AUTHORITY\SYSTEM. - 31/10/2024 18:10 https://github.com/ohpe/juicy-potato



A sugared version of <u>RottenPotatoNG</u>, 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 <u>variants</u> leverages the privilege escalation chain based on <u>BITS</u> <u>service</u> 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 <u>BITS</u> was intentionally disabled and port 6666 was taken.

We decided to weaponize <u>RottenPotatoNG</u>: Say hello to Juicy Potato.

For the theory, see <u>Rotten Potato - Privilege Escalation</u> <u>from Service Accounts to SYSTEM</u> 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. <u>Here</u> 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)
- O CreateProcessAsUser (needs
 SeAssignPrimaryToken)
- o 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

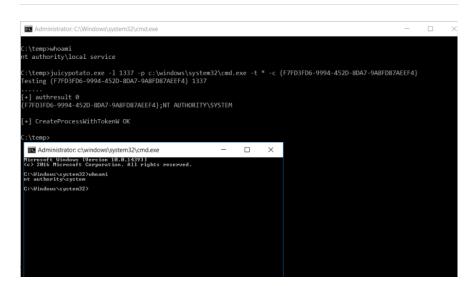
Usage

T:\>JuicyPotato.exe
JuicyPotato v0.1

Q

Mandatory args:

Example



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 build passing

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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