29. OWASP Stammtisch

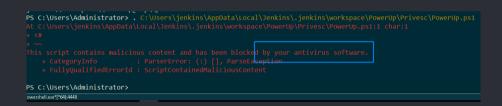
Building malicious code continuously

Marko Winkler - 19. Juli 2022



- 1. Introduction
- Design and Implementation
- 3. Demo
- 4. Outlook & QA
- 5. Ref

Motivation



Motivation

```
PS C:\Users\Administrator> . C:\Users\jenkins\AppData\Local\Jenkins\.jenkins\workspace\PowerUp\Privesc\PowerUp.ps1
At C:\Users\jenkins\AppData\Local\Jenkins\.jenkins\workspace\PowerUp.ps1:1 char:1
+ <#
+ </p>
This script contains malicious content and has been blocked by your antivirus software.
+ categoryInfo : ParserError: (;) [], ParserException
```

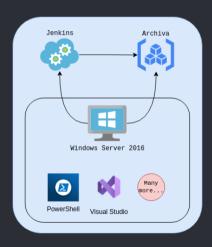
PS C:\Users\Administrator>

owershell.exe*[*64]:4448



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Architecture

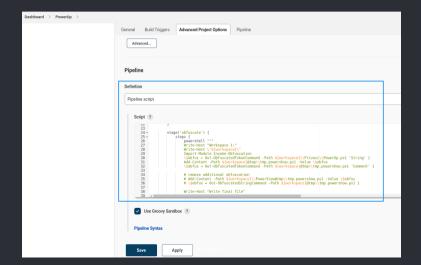


Architecture



Jenkins

Pipeline



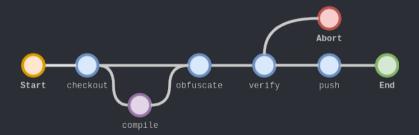
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Jenkins

Sample Jenkins Pipeline Script

```
agent any
environment { PROJECT NAME = "PowerSploit" }
stages {
  stage('Checkout') {
     git """https://github.com/PowerShellMafia/${env.PROJECT NAME}.git"""
  stage('Obfuscate') {
    steps {
      powershell '''
      Import-Module Invoke-Obfuscation
```

Stages Overview



Stages

Tools

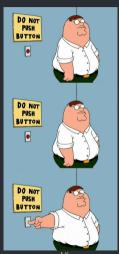
- Checkout Git
- (opt.) Compile msbuild
- Obfuscate
 - Invoke-Obfuscation [3] (PowerShell)
 - ConfuserEx [4] (.Net)

...

- Verify ThreatCheck [5]
- Push Maven

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Demo



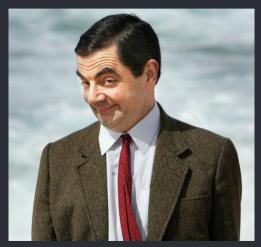
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Outlook

- Malicious Jenkins (pwn_jenkins) Alternatives?
- Adding more techniques or tools
- Other solutions?

QA



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- 5. Refs

References

- [1] OffSecOps: Using Jenkins For Red Team Tooling –

 https://http418infosec.com/offsecops-using-jenkins-for-red-team-tooling Access on
 06/07/2022
- [2] Will Schroeder (HarmjOy) OffSecOps https://github.com/specterops/presentations/raw/master/Will%20Schroeder/OffSecOps SO-CON2020.pdf Access on O6/07/2022
- [3] Daniel Bohannon Invoke-Obfuscation https://github.com/danielbohannon/Invoke-Obfuscation Access on 06/07/2022
- [4] Martin Karing ConfuserEx https://github.com/mkaring/ConfuserEx Access on 06/07/2022
- [5] Rasta Mouse ThreatCheck https://github.com/rasta-mouse/ThreatCheck Access on 06/07/2022
- [6] Marko Winkler Malicious Jenkins (Work in progress) https://github.com/no-sec-marko/malicious-jenkins.git Access on 19/07/2022