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WarzoneRAT Evades Detection With Process Hollowing **Technique**

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Research by: Pritam Salunkhe and Shilpesh Trivedi

The Uptycs Threat Research Team identified samples of WarzoneRAT dropped through a Powershell dropper with a Process Injection/Hollowing technique implementation to bypass detections. We first identified WarzoneRAT using a Windows User Account Control (UAC) bypass technique in November 2020.

This blog post details the operation of the latest WarzoneRAT sample and also covers the advanced detection capabilities of the Uptycs EDR in detecting techniques like Process Hollowing and UAC Bypass.

WarzoneRAT

WarzoneRAT is a Remote Admin Tool that has a wide range of capabilities including keylogging, remote desktop, and webcam capture, live and offline keylogger. This malware is distributed through malware-as-aservice (MaaS) and is also used as a staged payload in the attack kill

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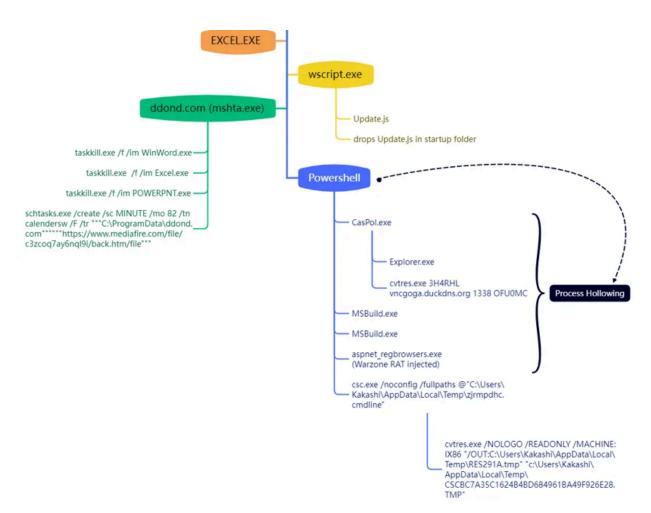


Figure 1: Attack Kill Chain of latest WarzoneRAT sample including process hollowing

The kill chain includes the following steps:

- The malicious document launches EXCEL.exe and executes wscript.exe to run Update.js javascript which is embedded in the macro itself and copy the Update.js to Startup Folder.
- Later the JS script copies the mshta from C:\Windows\System32 to
 C:\ProgramData\ and names it as 'ddond.com'. It then launches
 ddond.com(masqueraded mshta) to execute
 hxxps://taxfile[.]mediafire[.]com/file/c3zcoq7ay6nq19i/back[.]htm/file.
- The back.htm executed via ddond.com, runs powershell command to download another powershell script later executing it via Invoke-Expression.
 And schedules a task using schtasks.exe for persistence.
- The powershell script executed via Invoke-Expression executes embedded
 WarzoneRat and other .Net binary payloads via process hollowing



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The Uptycs detection graph showcasing the execution flow of the attack kill chain is shown below (Figure 2).

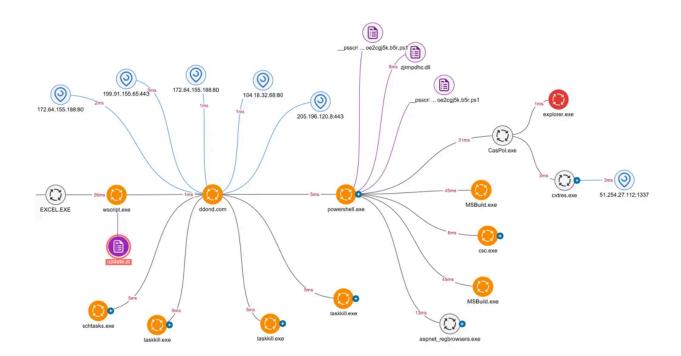


Figure 2: Uptycs Detection graph of WarzoneRAT

Chain Process Hollowing Technique

MITRE: https://attack.mitre.org/techniques/T1055/012/

The embedded macro inside the document (907012a9e2eff4291cd1162a0f2ac726f93bad0ef57e326d5767489e89bc0b0a) executed multiple set of commands to download a powershell script that loads the malicious executables using [Reflection.Assembly]::load cmdlet as shown in figure 3:



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Figure 4: Process Hollowing code in .NET payload

UAC Bypass

MITRE ATT&CK: https://attack.mitre.org/techniques/T1548/002/

Alongside process hollowing and code injection, the Powershell script also injects another .NET payload (8A389D732476E581EA576999E0191142BB8324F708744260303C1D9CFE1 A79AE) which performs UAC bypass via ComputerDefaults.exe.

Figure 5: UAC Bypass implemented in .NET payload

Uptycs EDR Detection

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Figure 6: Uptycs Detection for WarzoneRAT

Conclusion

This blog detailed the new WarzoneRAT operation on a victim's machine. We shed light on the new Process Hollowing technique used to evade process-based defenses. This makes it necessary to have a security solution that has advanced analytics and provides granular visibility of targeted attacks and their kill chain. Uptycs' EDR with advanced detection capabilities, correlation, and YARA process scanning capabilities successfully identified the malicious behavior and detected WarzoneRAT.

To learn more about the latest threat research conducted by the Uptycs Team, check out our most recent threat bulletin below.



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