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Avast\_Multiple\_Vulnerability\_Disclosure / README.md

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History

1 contributor

113 lines (59 sloc) | 5.47 KB

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## Multiple Vulnerability Disclosure in Avast AntiVirus (RPC Service)

### Tested Environment

OS: Windows 7 Ultimate 32Bit (6.1, Build 7601), Windows 10 Pro 32Bit (10, Build 18363)  
VM: Virtual Box

#### 1. Windows 7 Ultimate 32Bit (6.1, Build 7601):

Avast Antivirus Type Avast Free AntiVirus  
Avast Antivirus Version: 19.8.2393 (build 19.8.4793.545)  
UI Version: 1.0.437  
AvastSvc Service Version: 19.8.4793.0

#### 2. Windows 10 Pro 32Bit (10, Build 18363)

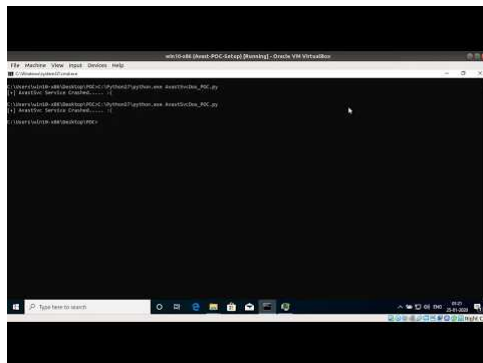
Avast Antivirus Type: Avast Free AntiVirus, Avast Premium Security  
Avast Antivirus Version: 19.8.2393 (build 19.8.4257.552)  
UI Version: 1.0.409  
AvastSvc Service Version: 19.8.4793.0

### CVE-2020-10860: Arbitrary Memory Address Overwrite Vulnerability in the Avast Log Library

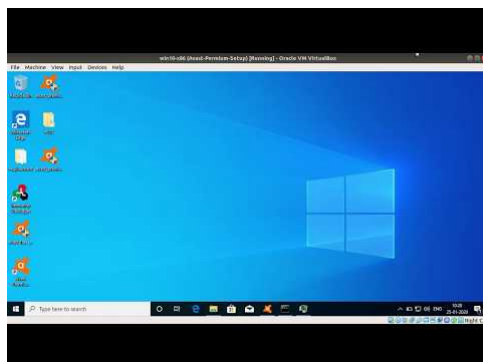
An issue was discovered in Avast Antivirus before 20. An Arbitrary Memory Address Overwrite vulnerability in the aswAvLog Log Library results in Denial of Service of the Avast Service (AvastSvc.exe).

### Demo:

#### 1. Free Avast Antivirus



#### 2. Premium Avast Antivirus



#### 3. Disable SelfDefense Protection from untrusted application



#### CVE-2020-10861: Arbitrary File Deletion

An issue was discovered in Avast Antivirus before 20. The aswTask RPC endpoint for the TaskEx library in the Avast Service (AvastSvc.exe) allows attackers to achieve Arbitrary File Deletion from Avast Program Path via RPC, when Self Defense is Enabled

#### CVE-2020-10862: Local Privilege Escalation (LPE)

An issue was discovered in Avast Antivirus before 20. The aswTask RPC endpoint for the TaskEx library in the Avast Service (AvastSvc.exe) allows attackers to achieve Local Privilege Escalation (LPE) via RPC.

#### CVE-2020-10863: Execute TempShutDownMachine via RPC

An issue was discovered in Avast Antivirus before 20. The aswTask RPC endpoint for the TaskEx library in the Avast Service (AvastSvc.exe) allows attackers to trigger a shutdown via RPC from a Low Integrity process via TempShutDownMachine.

#### CVE-2020-10864: Execute Reboot via RPC

An issue was discovered in Avast Antivirus before 20. The aswTask RPC endpoint for the TaskEx library in the Avast Service (AvastSvc.exe) allows attackers to trigger a reboot via RPC from a Low Integrity process.

#### CVE-2020-10865: Arbitrary read/write Stats.ini file

An issue was discovered in Avast Antivirus before 20. The aswTask RPC endpoint for the TaskEx library in the Avast Service (AvastSvc.exe) allows attackers to make arbitrary changes to the Components section of the Stats.ini file via RPC from a Low Integrity process

#### CVE-2020-10866: Enumerate Network Interface and access points

An issue was discovered in Avast Antivirus before 20. The aswTask RPC endpoint for the TaskEx library in the Avast Service (AvastSvc.exe) allows attackers to enumerate the network interfaces and access points from a Low Integrity process via RPC

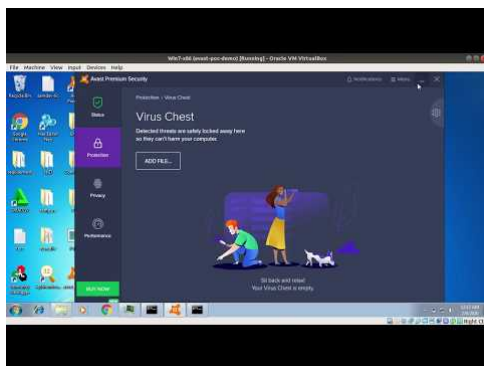
#### CVE-2020-10867: Perform Unauthorized action (task) from untrusted process

An issue was discovered in Avast Antivirus before 20. The aswTask RPC endpoint for the TaskEx library in the Avast Service (AvastSvc.exe) allows attackers to bypass intended access restrictions on tasks from an untrusted process, when Self Defense is enabled.

#### CVE-2020-10868: Launch Repair app via RPC

An issue was discovered in Avast Antivirus before 20. The aswTask RPC endpoint for the TaskEx library in the Avast Service (AvastSvc.exe) allows attackers to launch the Repair App RPC call from a Low Integrity process.

#### Demo



#### Credits:

- Umar Farook: [OSCE | Senior Security Analyst | Researcher](#)
- FOS Team : [Fools of Security](#)

#### Support !

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Youtube: [Fools Of Security](#)

Website: [Fools Of Security Community](#)

#### Reference:

[Avast Release Notes](#)

[Free - AvastSvc Service \(Arbitrary Memory Address Overwrite DOS\)](#)

[Premium - AvastSvc Service \(Arbitrary Memory Address Overwrite - DOS\)](#)

[AvastSvc - Disable SelfDefense Protection from untrusted application](#)

[Local Privilege Escalation](#)

[Analysing RPC With Ghidra and Neo4 By xpnsec](#)