How to check AppCheck
Anti-Ransomware is working?

User can safely check whether AppCheck anti-ransomware CARB engine prevents file damage. This test method does not affect your system.
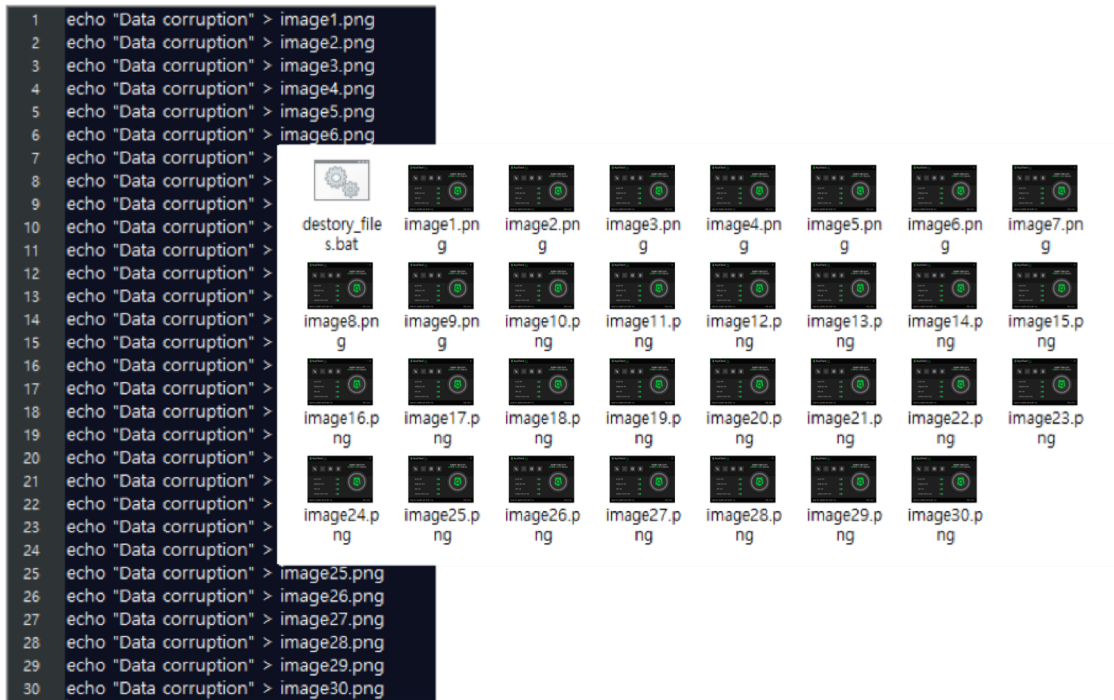
<Prerequisites>

* AppCheck anti-ransomware : https://www.checkmal.com/download/AppCheckSetup.exe
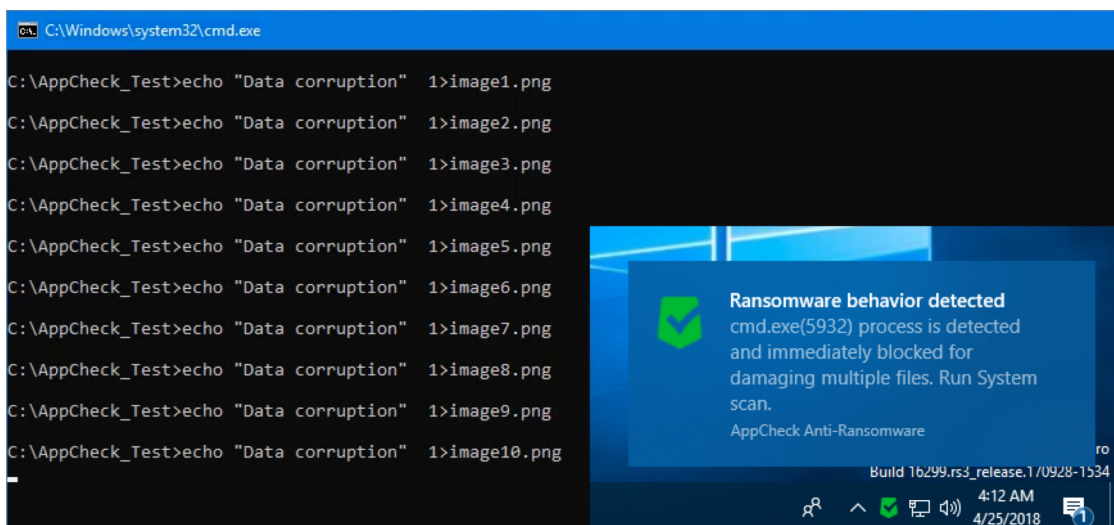* Test file(appcheck_test.zip) : https://www.checkmal.com/download/appcheck_test.zip

1. Download AppCheck installation file and proceed to install.

2. Download and extract the test file(appcheck_test.zip) to any folder.

3. You may find 30 PNG image files and destory_file.bat files in the uncompressed folder, and the destory_file.bat file purposed for destroying PNG graphic files through the standard redirection command of echo.


```
1    echo "Data corruption" > image1.png
2    echo "Data corruption" > image2.png
3    echo "Data corruption" > image3.png
4    echo "Data corruption" > image4.png
5    echo "Data corruption" > image5.png
6    echo "Data corruption" > image6.png
7    echo "Data corruption" >
8    echo "Data corruption" >
9    echo "Data corruption" >
10   echo "Data corruption" >
11   echo "Data corruption" >
12   echo "Data corruption" >
13   echo "Data corruption" >
14   echo "Data corruption" >
15   echo "Data corruption" >
16   echo "Data corruption" >
17   echo "Data corruption" >
18   echo "Data corruption" >
19   echo "Data corruption" >
20   echo "Data corruption" >
21   echo "Data corruption" >
22   echo "Data corruption" >
23   echo "Data corruption" >
24   echo "Data corruption" >
25   echo "Data corruption" > image25.png
26   echo "Data corruption" > image26.png
27   echo "Data corruption" > image27.png
28   echo "Data corruption" > image28.png
29   echo "Data corruption" > image29.png
30   echo "Data corruption" > image30.png
```

4. Run destory_file.bat file. It will automatically begin to damage 30 PNG image files, and AppCheck blocks unintentional file damage with "Ransomware Behavior Detected" notification.
If "Ransomware Proactive Defense" option is OFF, real-time ransomware behavior detection would not detect the file damages.

C:\Windows\system32\cmd.exe

```
C:\AppCheck_Test>echo "Data corruption"  1>image1.png
C:\AppCheck_Test>echo "Data corruption"  1>image2.png
C:\AppCheck_Test>echo "Data corruption"  1>image3.png
C:\AppCheck_Test>echo "Data corruption"  1>image4.png
C:\AppCheck_Test>echo "Data corruption"  1>image5.png
C:\AppCheck_Test>echo "Data corruption"  1>image6.png
C:\AppCheck_Test>echo "Data corruption"  1>image7.png
C:\AppCheck_Test>echo "Data corruption"  1>image8.png
C:\AppCheck_Test>echo "Data corruption"  1>image9.png
C:\AppCheck_Test>echo "Data corruption"  1>image10.png
```

Ransomware behavior detected
cmd.exe(5932) process is detected and immediately blocked for damaging multiple files. Run System scan.
AppCheck Anti-Ransomware

Build 16299.rs3_release.170928-1534

4:12 AM
4/25/2018

Original files of damaged files are backed up in Ransom Shelter folder <C:\Backup(AppCheck)>, and some of damaged PNG image files will be automatically backed up by the original files that are in the Ransom Shelter folder<C:\Backup(AppCheck)>.

If "Ransom Shelter" option is OFF, real-time ransomware behavior will be detected, however, damaged files would not be recovered automatically.
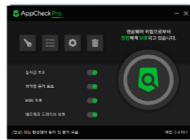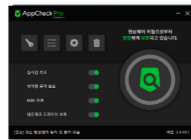

image1.png   image2.png   image3.png   image4.png   image5.png

image6.png   image7.png   image8.png   image9.png   image10.png

Ransomware Shelter Folder
<Backup(Appcheck)>

5. Check detailed information of blocked process(file) through ransomware activity detection and automatically restored damaged file in "Detection log" of AppCheck tool.

Date	Detection E...	Threat	Type	Target Path	Action
4/25/2018 4:12:13 AM	RansomGuard	File Destroyed by Ransomware	File	C:\AppCheck_Test\image1.png	Restored
4/25/2018 4:12:13 AM	RansomGuard	File Destroyed by Ransomware	File	C:\AppCheck_Test\image2.png	Restored
4/25/2018 4:12:13 AM	RansomGuard	File Destroyed by Ransomware	File	C:\AppCheck_Test\image3.png	Restored
4/25/2018 4:12:12 AM	RansomGuard	File Destroyed by Ransomware	File	C:\AppCheck_Test\image4.png	Restored
4/25/2018 4:12:12 AM	RansomGuard	File Destroyed by Ransomware	File	C:\AppCheck_Test\image5.png	Restored
4/25/2018 4:12:12 AM	RansomGuard	File Destroyed by Ransomware	File	C:\AppCheck_Test\image6.png	Restored
4/25/2018 4:12:12 AM	RansomGuard	File Destroyed by Ransomware	File	C:\AppCheck_Test\image7.png	Restored
4/25/2018 4:12:12 AM	RansomGuard	File Destroyed by Ransomware	File	C:\AppCheck_Test\image8.png	Restored
4/25/2018 4:12:12 AM	RansomGuard	File Destroyed by Ransomware	File	C:\AppCheck_Test\image9.png	Restored
4/25/2018 4:12:12 AM	RansomGuard	File Destroyed by Ransomware	File	C:\AppCheck_Test\image10.png	Restored
4/25/2018 4:12:11 AM	RansomGuard	Ransomware Behavior Detected	File	C:\Windows\system32\cmd.exe	Blocked