

Pažnja: Novi opasni ransomware pwndLocker i u Srbiji, napadnut Novi Sad!

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Otkriven je novi ransomware koji je mesecima delovao daleko od javnosti. Pretnja je globalna, napadnute su organizacije širom sveta, tako da treba biti oprezan i ažurirati definicije AV rešenja. Napadači određuju cenu otkupnine u zavisnosti od veličine mreže, broja zaposlenih i godišnjih prihoda. Posle napada na gradove u SAD-u, saznajemo da je napadnut i jedan grad u Srbiji!

```
Your network have been penetrated and encrypted with a strong algorithm
Backups were either removed or encrypted
No one can help you to recover the network except us
Do not share this link or email. otherwise, we will have to delete the decryption keys
```

```
To get your files back you have to pay the decryption fee in BTC.
The price depends on the network size, number of employess and annual revenue.
```

```
Download TOR-Browser: https://www.torproject.org/download/
```

```
Login [REDACTED] using your ID [REDACTED]
```

```
or
```

```
contact our support by email [REDACTED]
```

```
You'll receive instructions inside.
```

```
You should get in contact with us within 2 days after you noticed the encryption to have a good discount.
```

```
The decryption key will be stored for 1 month.
The price will be increased by 100% in two weeks
We also have gathered your sensitive data.
we would share it in case you refuse to pay
```

```
Do not rename or move encrypted files
Decryption using third party software is impossible.
Attempts to self-decrypting files will result in the loss of your data.
```

Slika 1. Poruka o otkupnini, pwndLocker. Izvor slike: MalwareHunterTeam.

U poruci o otkupnini, napadači navode da će dekriptor čuvati mesec dana i apeluju na žrtve da im se jave u roku od dva dana kako bi dobili "popust". Takođe, posle 2 nedelje cena se duplira. Još jedna pretnja žrtvama je da će osetljive informacije koje su prikupili iz mreže organizacije pustiti u javnost.

Ovaj ransomware, pored toga što zaključava podatke, pokušava da obriše i Shadow kopije i da "ubije" procese i servise AV rešenja. Prema prvim informacijama, najverovatnije se radi o ciljanom ransomwaru koji napada tzv. "high-value" mete.

Tehničke detalje možete videti na slikama ispod, autor je Vitali Kremez:

```

.flat:004032B9      push    eax
.flat:004032BA      lea    edx, [esi+1328h]
.flat:004032C0      push    edx
.flat:004032C1      call   dword ptr [esi+1034h]
.flat:004032C7      cmp    eax, 0
.flat:004032CA      jnz    short loc_4032D1
.flat:004032D1      ; sub_402FD6+2D71j
.flat:004032D1      inc    edi
.flat:004032D2      cmp    dword ptr [esi+12F0h], 0
.flat:004032D9      jnz    short loc_4032E1
.flat:004032DB      lea    eax, byte_402ACD
.flat:004032E1      ; sub_402FD6+2D71j
.flat:004032E1      loc_4032E1: cmp    dword ptr [esi+1034h], byte_402ACD db 0, 0Dh, 24h ; DATA XREF: sub_402FD6+2911j
.flat:004032E8      jnz    short loc_4032F0
.flat:004032EA      lea    eax, byte_402ACD
.flat:004032F0      loc_4032F0: cmp    dword ptr [esi+1034h], aRecycle_bin db 'Recycle.Bin',0
.flat:004032F7      jnz    short loc_4032FF
.flat:004032F9      lea    eax, dword_402ACD
.flat:004032FF      loc_4032FF: cmp    dword ptr [esi+1034h], aWindows db 0Dh, 'Windows',0
.flat:00403306      jnz    short loc_40330E
.flat:00403308      lea    eax, byte_402ACD
.flat:0040330E      loc_40330E: cmp    dword ptr [esi+1034h], aSystemVolumeIn db 0Dh, 'System Volume Information',0
.flat:00403314      add    eax, [esi+1034h]
.flat:0040331A      add    eax, edi
.flat:0040331C      cmp    dword ptr [esi+1034h], aPerflogs db 0Dh, 'PerfLogs',0
.flat:0040331F      jz     short loc_403326
.flat:00403321      jmp    loc_4031FA
.flat:00403326      loc_403326: cmp    dword ptr [esi+1034h], aCommonFiles db 0Dh, 'Common Files',0
.flat:00403326      cmp    dword ptr [esi+1034h], aDVDMaker db 0Dh, 'DVD Maker',0
.flat:00403326      cmp    dword ptr [esi+1034h], aInternetExplor db 0Dh, 'Internet Explorer',0
.flat:00403326      cmp    dword ptr [esi+1034h], aKasperskyLab db 0Dh, 'Kaspersky Lab',0
.flat:00403326      cmp    dword ptr [esi+1034h], aKasperskyLabSe db 0Dh, 'Kaspersky Lab Setup Files',0
.flat:00403326      cmp    dword ptr [esi+1034h], aWindowsPowerSh db 0Dh, 'WindowsPowerShell',0
.flat:00403326      cmp    dword ptr [esi+1034h], aMicrosoft db 0Dh, 'Microsoft',0
.flat:00403326      cmp    dword ptr [esi+1034h], aMicrosoft_net db 0Dh, 'Microsoft.NET',0
.flat:00403326      cmp    dword ptr [esi+1034h], aMozillaFirefox db 0Dh, 'Mozilla Firefox',0
.flat:00403326      cmp    dword ptr [esi+1034h], aMSBuild db 0Dh, 'MSBuild',0
.flat:00403326      cmp    dword ptr [esi+1034h], aWindowsDefende db 0Dh, 'Windows Defender',0
.flat:00403326      cmp    dword ptr [esi+1034h], aWindowsMail db 0Dh, 'Windows Mail',0
.flat:00403326      cmp    dword ptr [esi+1034h], aWindowsMediaPl db 0Dh, 'Windows Media Player',0
.flat:00403326      cmp    dword ptr [esi+1034h], aWindowsNT db 0Dh, 'Windows NT',0
.flat:00403326      cmp    dword ptr [esi+1034h], aWindowsPhotoVi db 0Dh, 'Windows Photo Viewer',0
.flat:00403326      cmp    dword ptr [esi+1034h], aWindowsPortabl db 0Dh, 'Windows Portable Devices',0
.flat:00403326      cmp    dword ptr [esi+1034h], aWindowsSidebar db 0Dh, 'Windows Sidebar',0
.flat:00403326      cmp    dword ptr [esi+1034h], aWindowsapps db 0Dh, 'WindowsApps',0
.flat:00403326      cmp    dword ptr [esi+1034h], aAllUsers db 0Dh, 'All Users',0
.flat:00403326      cmp    dword ptr [esi+1034h], aUninstallInfor db 0Dh, 'Uninstall Information',0
.flat:00403326      cmp    dword ptr [esi+1034h], 0
.flat:00403326      jmp    loc_40355A
.flat:00403341      jmp    loc_40355A

```

2020-02-21: PwndLocker Ransomware | Whitelist Logic



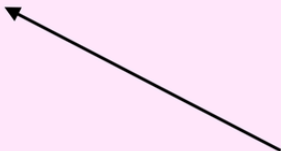
2020-02-21: PwndLocker Ransomware | Process Killer (Partial)

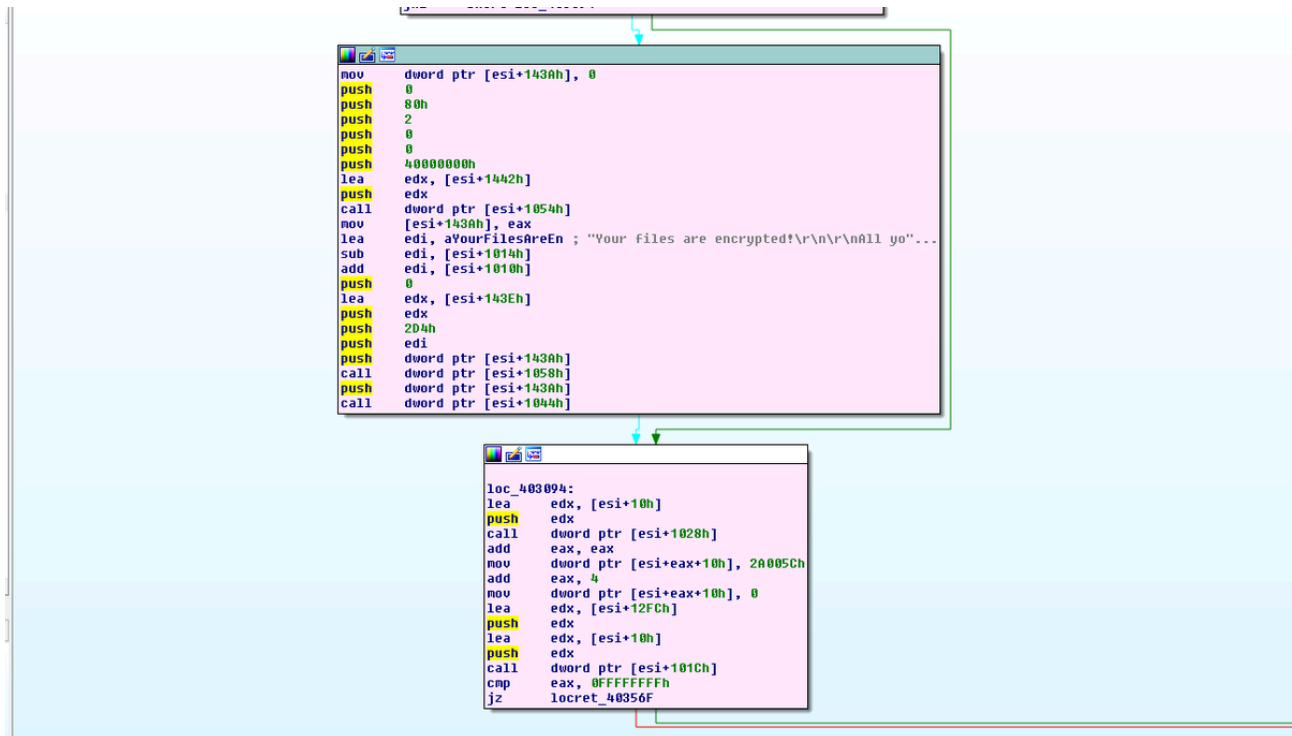
```

.flat:00401B06      aAgnTsVcntaosdb db 'agntsvcntaosdbeng5dbsnmpencsvcxcel.firefoinfopaisqlplmbantrmsacc'
.flat:00401B06      db 'emsftesmspub.mydeskmysqldntrtsccautooccomm.ocssd.onenotoracleoutl'
.flat:00401B06      db 'oopccntmpowerpsqbcorsqlagesqlbrosqlsersqlwristeam.synctitbirdcthe'
.flat:00401B06      db 'batthundetmlistvisio.winworwordpaxfssvczoolz.',0
.flat:00401BF7      align 4
.flat:00401BF8      db 0
.flat:00401BF9      align 2
.flat:00401BFA      aAcronisUssProv db '"Acronis USS Provider"',0
.flat:00401C11      aEnterpriseClie db '"Enterprise Client Service"',0
.flat:00401C2D      aLanmanserver db '"LanmanServer"',0
.flat:00401C3C      aLanmanworkstat db '"LanmanWorkstation"',0
.flat:00401C50      aSqlDmcollectio db '"SQLDmCollectionService$Default"',0
.flat:00401C71      aSqlDmmanagemen db '"SQLDmManagementService$Default"',0
.flat:00401C92      aSqlDmpredictiv db '"SQLDmPredictiveAnalyticsService$Default"',0
.flat:00401C8C      aSqlBackups db '"SQL Backups"',0
.flat:00401CCA      aSqlsafeBackupS db '"SQLsafe Backup Service"',0
.flat:00401CE3      aSqlsafeFilterS db '"SQLsafe Filter Service"',0
.flat:00401CFC      aSymantecSystem db '"Symantec System Recovery"',0
.flat:00401D17      aVeeamBackupCat db '"Veeam Backup Catalog Data Service"',0
.flat:00401D3B      aZoolz2Service db '"Zoolz 2 Service"',0
.flat:00401D4D      aAcronisagent db 'AcronisAgent',0
.flat:00401D5A      aAcrsch2Svc db 'AcrSch2Svc',0
.flat:00401D65      aAntivirus db 'Antivirus',0
.flat:00401D6F      aArsm db 'ARSH',0
.flat:00401D74      aAup db 'AUP',0
.flat:00401D78      aBackupexecagen db 'BackupExecAgentAccelerator',0
.flat:00401D93      aBackupexecag_0 db 'BackupExecAgentBrowser',0
.flat:00401DA0      aBackupexecdevi db 'BackupExecDeviceMediaService',0
.flat:00401DC7      aBackupexecjobe db 'BackupExecJobEngine',0
.flat:00401DDB      aBackupexecmana db 'BackupExecManagementService',0
.flat:00401DF7      aBackupexecrpcs db 'BackupExecRPCService',0
.flat:00401E0C      aBackupexecvssp db 'BackupExecUSSProvider',0
.flat:00401E22      aBedbg db 'bedbg',0
.flat:00401E28      aDcagent db 'DCAgent',0
.flat:00401E30      aEhttpprv db 'EhttpSrv',0
.flat:00401E39      aEkrm db 'ekrn',0
.flat:00401E3E      aEpssecurityserv db 'EPSecurityService',0
.flat:00401E50      aEpupdateservic db 'EPUpdateService',0
.flat:00401E60      aEraserSvc11710 db 'EraserSvc11710',0
.flat:00401E6F      aEsgshkernel db 'EsgShKernel',0
.flat:00401E7B      aEshasrv db 'ESHASRU',0
.flat:00401E83      aFa_scheduler db 'FA_Scheduler',0
.flat:00401E90      aIisadmin db 'IISAdmin',0

```

2020-02-21: PwndLocker Ransomware | Process Killer (Partial)





```
.flat:00401875 aDeleteShadowsA db 'delete shadows /all /quiet',0  
.flat:00401890 aResizeShadowst db 'resize shadowstorage /for=c: /on=c: /maxsize=401MB',0  
.flat:004018C3 aResizeShadow_0 db 'resize shadowstorage /for=c: /on=c: /maxsize=unbounded',0  
.flat:004018FA aP db 'p',0  
.flat:004018FC aAth_txt: unicode 0, <ath.txt>,0  
.flat:004018FC
```

Symantec ga detektuje kao **ML.Attribute.HighConfidence** Trojan Horse, a Fortinet kao **W32/AntiAV!tr**.

Update

Potvrđeno je da je u pitanju napad na **Novi Sad**, što je preneo i [portal 021](#). Tokom vikenda kriptovani su serveri gradskih uprava i nekoliko drugih javnih službi preko JKP Informatika. Gradske kamere trenutno ne funkcionišu, a zaposlenima u gradskim službama rečeno je da ne mogu da pristupe svojim mejlovima.

Novi Sad odbio da plati napadačima - 04.03.2020.

Kako prenosi [portal 021](#), gradska uprava Novog Sada neće platiti otkupninu. Napadači su prvobitno tražili 50 BTC (oko €400.000), a kasnije spustili cifru na 20 BTC. S obzirom na to da je i backup zaražen virusom, odnosno zaključan, Novi Sad će ostati bez svih kriptovanih podataka. Nije saopšteno šta je sve nestalo i koje su razmere napada. Gradonačelnik Novog Sada Miloš Vučević je izjavio da je upad u sistem izvršen preko emaila.

Napadi u SAD-u

Prema pisanju portala [Bleeping Computer](#), pwndLocker targetira velike kompanije i lokalnu (javnu) upravu. Ovaj ransomware se pojavio u drugoj polovini 2019, a iznosi koje zahtevaju od svojih žrtava kreću se od \$175.000 do \$660.000 (isplata se vrši u Bitcoin kripto valuti). Još uvek nije poznato da li je neko od žrtava pristao da plati otkupninu.

Jedan od uspešnih napada ove grupe izvršen je na Lasalle County u državi Illinois, a za dekriptor traže 50 BTC (\$442.000). Tvrde i da su pre zaključavanja najpre izvukli sve podatke sa mreže, ali za to nisu pružili dokaz. Lasalle County ne planira da plati.

PwndLocker Ransomware

PwndLocker pokušava da isključi nekoliko Windows servisa preko 'net stop' komande kako bi mogao da kriptuje podatke. Neke od aplikacija čije servise "gađa" su: Veeam, Microsoft SQL Server, MySQL, Exchange, Acronis, Zoolz, Backup Exec, Oracle, Internet Information Server (IIS), ali i AV rešenja Kaspersky, Malwarebytes, Sophos i McAfee. Takođe, na meti su i različiti procesi koje pokušava da prekine - Firefox, Word, Excel, Access i druge procese vezane za bezbednosna rešenja, backup i database servere.

Zatim pomoću sledećih komandi "čisti" Shadow Volume kopije kako ne žrtva ne bi mogla da vrati fajlove:

```
vssadmin.exe delete shadows /all /quiet  
vssadmin.exe resize shadowstorage /for=D: /on=D: /maxsize=401MB  
vssadmin.exe resize shadowstorage /for=D: /on=D: /maxsize=unbounded
```

Kada izvrše sve pripreme, PwndLocker kreće da zaključava računare, ali preskače fajlove sa sledećim ekstenzijama:

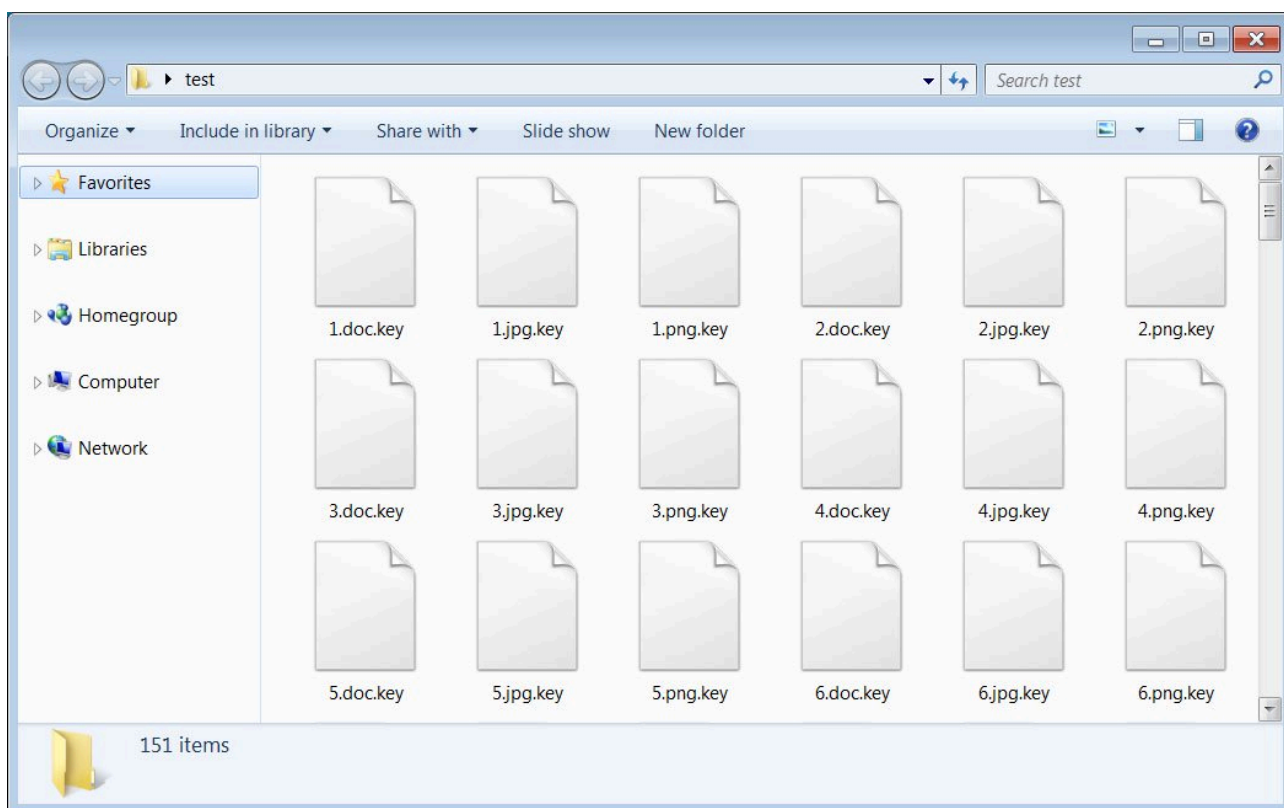
```
.exe, .dll, .lnk, .ico, .ini, .msi, .chm, .sys, .hlf, .lng, .inf, .ttf, .cmd, .bat, .vhd, .bac, .bak, .wbc, .bkf, .set,  
.win, .dsk
```

Takođe, preskače i sve fajlove na sledećim lokacijama (folderima):

```
$Recycle.Bin  
Windows  
System Volume Information  
PerfLogs  
Common Files  
DVD Maker  
Internet Explorer  
Kaspersky Lab  
Kaspersky Lab Setup Files  
WindowsPowerShell  
Microsoft
```

Microsoft.NET
Mozilla Firefox
MSBuild
Windows Defender
Windows Mail
Windows Media Player
Windows NT
Windows Photo Viewer
Windows Portable Devices
Windows Sidebar
WindowsApps
All Users
Uninstall Information
Microsoft
Adobe
Microsoft
Microsoft_Corporation
Packages
Temp

MalwareHunterTeam je primetio da u zavisnosti od žrtve, zaključani fajlovi dobijaju ekstenzije **.key** ili **.pwnd**. Uzorak koji je Bleeping Computer analizirao ima .key ekstenziju, što se vidi na slici ispod:



Slika 6. Fajlovi koje je kriptovao pwndLocker. Izvor slike: Bleeping Computer.

Kada završe proces enkripcije podataka, na više lokacija (uključujući i desktop) ostavljaju tekstualni fajl, odnosno poruku o otkupnini sa nazivom **How_TO_Recovery_Files.txt**, a kao dokaz da će dekriptor raditi, nude da besplatno otključaju do 2 fajla.

Source: <https://www.it-klinika.rs/blog/paznja-novi-opasni-ransomware-pwndlocker-i-u-srbiji>