

# Find out about Virus.Win32.Sality.ag template

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**Viruses like these often have a mechanism to manually replicate the resources on the infected computer, unlike worms, unused viruses and exploit network services to replicate themselves. and spread to other computers .** A complete copy of the virus will automatically 'crawl' the computers if the infected object is identified in one of the following ways - for several reasons or reasons that are not related to the functioning. of that virus. Eg:

- When infecting one or more accessible drives, the virus will infiltrate one or more fixed files on the system.
- They can copy themselves to mobile storage devices
- When the user sends 1 or more emails with infected files

Virus.Win32.Sality.ag (by Kaspersky's naming method) is also known in the following forms:

- *Trojan.Win32.Vilsel.vyz (also according to Kaspersky Lab)*
- *W32 / Sality.aa (Panda)*
- *Virus: Win32 / Sality.AT (MS (OneCare))*
- *Win32 / Sality.NBA virus (Nod32)*
- *Win32.Sality.3 (BitDef7)*
- *Win32.Sality.BK (VirusBuster)*
- *W32 / Sality.AG (AVIRA)*
- *W32 / Sality.BD (Norman)*
- *Virus.Win32.Sality.ag [AVP] (FSecure)*
- *PE\_SALITY.BA (TrendMicro)*
- *Virus.Win32.Sality.at (v) (Sunbelt)*
- *Win32.Sality.BK (VirusBusterBeta)*

This virus sample was discovered on April 7, 2010 at 08:21 GMT, operating the next day - April 8, 2010 at 09:40 GMT, the analysis information was officially announced on the same day - April 8, 2010 at 13:13 GMT.

## Detailed technical analysis

Malicious programs like these often infect and "execute" executable files on infected computers. They also have the function of automatically downloading and activating additional malicious programs on the victim's computer without their knowledge. And essentially, they are Windows PE EXE files, written in C ++ language.

When enabled, these programs automatically 'extract' one or more files from themselves and save them in Windows system folders with different names:

*% System% drivers.sys*

with is often random Latin character string, such as INDSNN. These files are usually kernel mode drivers of 5157 bytes. And according to Kaspersky Anti-Virus they are classified into *Virus.Win32.Sality.ag* class.

The drivers are decompressed, installed and activated into a Windows service called amsint32.

### **Infection process**

In essence, they are created to infect all Windows executable files with the \* .EXE and \* .SCR extensions. But only files containing those sections in the PE header section are infected: TEXT, UPX and CODE.

When successfully infected with the PE file, the virus will inherit the final sections in the file and copy the body to the end of the section. After that, they will spread everywhere on the hard drive and continue to find more files to infect. And when these infected files are activated, they will immediately copy the original file's body to a temporary folder created with the following name:

*% Temp% \_\_ Rar.exe*

To make sure they activate automatically when the system starts, they will copy themselves to all logical partitions with random names and extensions in the following list: \* .exe, \* .pif and \* .cmd. Also, they create hidden files in the root of these drives:: autorun.inf - here the code, the command to activate the malicious files are stored. Or when users open Windows Explorer, these viruses will also be activated.

### **Payload method**

Once operational, they will create unified identification parameters called Ap1mutx7 to mark their presence in the system. And then, they will continue to download data from the following addresses:

*http://\*\*\*\*\*nc.sa.funpic.de/images/logos.gif*  
*http://www.\*\*\*\*\*ccorini.com/images/logos.gif*  
*http://www.\*\*\*\*\*gelsmagazine.com/images/logos.gif*  
*http://www.\*\*\*\*\*ukanadolu.com/images/logos.gif*  
*http://\*\*\*\*\*vdar.com/logos\_s.gif*  
*http://www.\*\*\*r-adv.com/gallery/Fusion/images/logos.gif*  
*http://\*\*\*\*\*67.154/testo5/*  
*http://\*\*\*\*\*stnet777.info/home.gif*  
*http://\*\*\*\*\*stnet888.info/home.gif*  
*http://\*\*\*\*\*net987.info/home.gif*  
*http://www.\*\*\*\*\*wieluoi.info/*  
*http://\*\*\*\*\*et777888.info/*  
*http://\*\*\*\*\*7638dfqwieuoi888.info/*

These files will be saved in the % Temp% folder and automatically activated. At this point, the following templates will be downloaded to the system from the links listed above:

- *Backdoor.Win32.Mazben.ah*
- *Backdoor.Win32.Mazben.ax*
- *Trojan.Win32.Agent.didu*

The above templates are created primarily for spam and spam. In addition to the task of downloading other malicious malware, these viruses can also modify Windows system parameters, such as:

- Lock the operation of Task Manager, refuse to edit the Registry by changing the following key:

```
[HK\USoftwareMicrosoftWindowsCurrentVersionPoliciesystem]
"DisableRegistryTools" = dword: 00000001
"DisableTaskMgr" = dword: 00000001
```

- Change Windows Security Center settings by intervening and Registry in the following way:

```
[HKLM\SOFTWARE\Microsoft\Security Center]
"AntiVirusOverride" = dword: 00000001
"FirewallOverride" = dword: 00000001
"UacDisableNotify" = dword: 00000001

[HKLM\SOFTWARE\Microsoft\Security CenterSvc]
"AntiVirusDisableNotify" = dword: 00000001
"AntiVirusOverride" = dword: 00000001
"FirewallDisableNotify" = dword: 00000001
"FirewallOverride" = dword: 00000001
"UacDisableNotify" = dword: 00000001
"UpdatesDisableNotify" = dword: 00000001
```

- Hidden files cannot be displayed by adding the following parameters to the Registry:

```
[HKCU\Software\Microsoft\Windows\CurrentVersion\Explorer
Advanced]
"Hidden" = dword: 00000002
```

*Changing options in the default browser always activates online mode:*

```
[HKCU\Software\Microsoft\Windows\CurrentVersion\Internet Settings]
"GlobalUserOffline" = dword: 00000000
```

*Turn off the UAC (User Account Control) function by changing the EnableLUA parameter in the Registry to 0:*

```
[HKLM\Software\Microsoft\Windows\CurrentVersion\policiesystem]
"EnableLUA" = dword: 00000000
```

- Self-assigning themselves to the Windows firewall's secure application list to gain access to the Internet and the system network:

```
[HKLMSystemCurrentControlSetServicesSharedAccess  
ParametersFirewallPolicyStandardProfileAuthorizedApplicationsList]  
""  
= ": *: Enabled: ipsec"
```

- Create a registry key to store data:

```
HKCUSoftware
```

---

Here is the custom value.

- Continue, they will search for the file:

```
% WinDir% system.ini
```

and assign the following record values ??to the file:

```
[MCIDRV_VER]  
DEVICEMB = 509102504668 (any arbitrary number)
```

- At the same time, they delete the following keys to make the computer unable to boot in Safe Mode:

```
HKLMSystemCurrentControlSetControlSafeBoot  
HKCUSystemCurrentControlSetControlSafeBoot
```

- Delete all \* .exe and \* .rar files in the temporary directory of all user accounts: % Temp%

- Continue to find and delete files with the format: \* .VDB, \* .KEY, \* .AVC and \* .drw  
on the other hand, they use previously decomposed drives to block all requests to connect to domains that contain the following strings:

```
upload_virus  
sality-remov  
virusinfo.  
cureit.  
drweb.  
onlinescan.  
spywareinfo.  
ewido.  
virusscan.  
windowsecurity. S  
pywareguide. bitdefender.  
pandasoftware.
```

agnmitum.  
virustotal.  
sophos.  
trendmicro.  
etrust.com  
symantec.  
mcafee.  
f-secure.  
eset.com  
kaspersky

- Disconnect and delete the following services:

Agnitum Client Security Service  
ALG Amon monitor  
aswUpdSv  
aswMon2  
aswRdr  
aswSP  
aswTdi  
aswFsBlk  
acssrv  
AV Engine  
avast! iAVS4  
Control Service  
avast! Antivirus  
avast! Mail Scanner  
avast! Web Scanner  
avast! Asynchronous Virus Monitor  
avast! Self Protection  
AVG E-mail Scanner  
Avira AntiVir Premium Guard  
Avira AntiVir Premium WebGuard  
Avira AntiVir Premium MailGuard  
avp1  
BackWeb Plug-in - 4476822  
bdss  
BGLiveSvc  
BlackICE  
CAISafe  
ccEvtMgr  
ccProxy  
ccSetMgr  
COMODO Firewall Pro Sandbox Driver  
cmdGuard  
cmdAgent  
Eset Service  
Eset HTTP Server  
Eset Personal Firewall

F-Prot Antivirus Update Monitor  
fsbwsysFSDFWD  
F-Secure Gatekeeper Handler Starter  
FSMA  
Google Online Services  
InoRPC  
InoRT  
InoTask  
ISSVC  
KPF4  
KLIF  
LavasoftFirewall  
LIVESRV  
McAfeeFramework  
McShield  
McTaskManager  
navapsvc  
NOD32krn  
NPFMntor  
NSCService  
Outpost Firewall main module  
OutpostFirewall  
PAVFIRES  
PAVFNSVR  
PavProt PavPrSrv  
PAVSRV  
PcCtlCom PersonalFirewal  
PREVSRV  
ProtoPort Firewall service  
PSIMSVC  
RapApp  
SmcService  
SNDSrv  
SPBBCSvc  
SpIDer FS Monitor for Windows NT  
SpIDer Guard File System Monitor  
SPIDERNT  
Symantec Core LC  
Symantec Password Validation  
Symantec AntiVirus Definition Watcher  
SavRoam  
Symantec AntiVirus  
Tmntsrv  
TmPfw  
tmproxy  
tcpsr  
UmxAgent  
UmxCfg  
UmxLU

UmxPol  
vsmon  
VSSERV  
WebrootDesktopFirewallDataService  
WebrootFirewall  
XCOMM  
AVP

- At the same time, they can also prevent scanning and identification processes of security programs or popular support tools today.

### **Ways to prevent and remove viruses**

If the computer you are using does not have a strong security program, or does not update the database for the application, the risk of being affected is very high. Use the following tips to keep your system safe:

- Use Kaspersky products here or here, and always update Kaspersky completely. However, users can almost never delete all infected files, because they 'stick' to most executable files (\*.exe) of Windows, so use them. Add Sality Killer tool.

- Restore previously edited Registry keys:

```
[HKLMSoftwareMicrosoftWindowsCurrentVersionpolicysystem]  
"EnableLUA" = dword: 00000000
```

```
[HKLMSOFTWAREMicrosoftSecurity Center]  
"AntiVirusOverride" = dword: 00000000  
"FirewallOverride" = dword: 00000001  
"UacDisableNotify" = dword: 00000001
```

```
[HKLMSOFTWAREMicrosoftSecurity CenterSvc]  
"AntiVirusDisableNotify" = dword: 00000000  
"AntiVirusOverride" = dword: 00000000  
"FirewallDisableNotify" = dword: 00000000  
"FirewallOverride" = dword: 00000000  
"UacDisableNotify" = dword: 00000000  
"UpdatesDisableNotify" = dword: 00000000
```

```
[HKCUSoftwareMicrosoftWindowsCurrentVersionExplorerAdvanced] "Hidden" = dword: 00000002
```

- Delete the following keys in the Registry:

```
[HKÑUSoftwareMicrosoftWindowsCurrentVersionPolicysystem]  
"DisableRegistryTools"  
"DisableTaskMgr"
```

```
[HKCUSoftwareMicrosoftWindowsCurrentVersion
```

*Internet Settings] "GlobalUserOffline"*

- Delete all files in the temporary folder including Temp and% Temp%
- Only use the security software of reputable firms, encourage you to buy the official license of the application - to ensure benefits and receive direct support from the manufacturer. You can refer to the security program here.

Good luck!

You finished reading the article "**Find out about Virus.Win32.Sality.ag template**" edited by the [TipsMake](#) team. We hope this article has provided you with many useful tech tips and tricks. You can search for similar articles on tips and guides. Thank you for reading and for following us regularly.