

## Security Advisory-No: Ext:01/10-25

05, Oct 2018

**Threat Classification:** Malware

**Overview:** A cyber-attack has been identified targeting Pakistani nationals' especially private firms doing contracts with Pakistan Defense Forces.

### Attack Methodology:

- Target individual receives a call from an unknown Pakistani number claiming to be a Pakistani government official/ Pakistan Armed Forces. Caller Officer Requests for details on defence related products being developed and provided to defence organizations.
- The caller (attacker) also refers to ongoing products provided by the firms to Pakistan defence organizations to establish credibility.
- Following initial telephonic conversation (on GSM and WhatsApp) emails containing malicious link are sent to the target.
- Downloading and opening the file from email executes the malware in the background and the system is compromised/hacked.
- Attackers are using fake domain names similar to existing official domains/ websites owned by Government Institutes to convince the recipient that the emails are sent by the actual government departments.

Following are the observed fake domains:

- **fbrgov.com**
- **moitgovpk.com**
- **fpmadgovpk.com**

### Summary of Malicious Email:

- Subject: Malfunctioning of TI Sight TK 69
- Sender's Email: [fatehgeeiani@gmail.com](mailto:fatehgeeiani@gmail.com)
- Malicious Link: <http://sharefile.site>
- Downloaded Document(s): sharedfile.coc
- Document Signature (MD5): 47E52A73F000CD0F3863A9CD17981F95

## Technical Analysis of Malware:

- a) **Exploit:** Attacker has used vulnerability in Microsoft Word (CVE-2017-8570) to Target the victim.
- b) **Capabilities of Malware:** The malware uploads data including documents and files to C&C Server.
- c) **Anti-Virus Detection:** The malware "winc.exe" is not detected by major Anti-Virus software.
  - (1) Detection Rate. 0/67
  - (2) Detection Percentage. 0
- d) **Malicious Domains/ IPs:**

Ser #	Malicious URL	IP Address	Hosting Country
(1)	https://sharefile.site	23.95.9.107	United States
(2)	C&C Server	193.22.98.226	Ukraine

## Indicators of Compromise:

- a) **Created Files:** Malware drops 3 x files at location "**VoAppDataLocalTemp**".  
following are the details:
  - i. "**winc.exe**", a malicious executable file with signature (MD5):  
**25d3508a5e887cfd7343e798d839ad5a.**
  - ii. "**LS4TJPBOIVOOY3A.sct**", a script used to run the executable.
  - iii. "**decoy.doc**", a blank document.
- b) **Created processes:** Malware runs as "**winc.exe**" (32 Bit Application) and has a size of 6.4MB.
- c) **Persistence:** The malware creates a file "**Win Setting Loader**" in windows startup folder.

## Mitigation Methods:

Following mitigation measures are suggested:

- a) Kill process "winc.exe" using Windows Task Manager.
- b) Delete the following dropped files.
  - i. "%AppData1Local1Temp\winc.exe"
  - ii. "%AppData1Local1Temp\LS4TJPB01V00Y3A.sct"
  - iii. "1AppData1Roaming1Microsoft1Windows1Start Menu1Programs1Startup1Win Setting Loader"
- c) Implement filters at the email gateway to filter out email with known indicators and block suspicious IP addresses at the firewall.
- d) Formulate a policy regarding suspicious emails so that all suspicious emails should be reported to the security or IT department.
- e) Provide employees basic cyber security awareness training.

## Recommendations:

- a) The following C&C Servers must be blocked in firewall of own network.
  - https://sharefile.site
  - 23.95.9.107
  - 193.22.98.226

- b) Do not respond to such fake telephone calls and avoid sharing details of products supplied to Pakistan Defence Forces.
- c) Install and update licensed and well reputed ant viruses such as Kaspersky, Avira, Avast etc.
- d) If any indicators of compromise found in the system, then disconnect the computer from the internet and re-install OS.
- e) Update all software including windows OS, Microsoft Office etc.
- f) Do not download attachments from emails unless you are sure about the source.
- g) Discard emails received from ambiguous / fake domains, mentioned above.
- h) In case of any incident, please report to this office.