

Subject: Advisory – Prevention against Cyber Espionage (Advisory No.4)

1. **Introduction.** Recently, a malware found spreading through spoofed email targeting defense / intelligence organizations. These emails portray a legitimate looking “Hajj and Umra package” details and contain and it a contains a malicious link that redirects the user to download a zip attachment. Extracting and clicking the fake pdf file executes a malware in background compromise victim’s machine.

2. **Summary of Malicious Email**

- a. **Email Subject.** Applications Invited – Hajj and Umra Contingent – 2019.
- b. **Spoofed Email address.** Info13@mail-fwd.net.
- c. **Download Package.** Hajj.zip.
- d. **Antivirus Detection Rate.** Nil/55 (0%)
- e. **File Size.** 915 bytes.
- f. **File Extension.** Zip (archival file format).
- g. **Download address.** <https://hajj-umra.cdn-io.net/images/F856ECCB/6782/1266/61a2b417/Hajj.zip>.
- h. **Exploit Technique.** DLL Injection into legitimate file.
- i. **C&C Servers**

Ser	URL address	IP Address	Country
(1)	https://hajj-umra.cdn-io.net	185.243.115.39	Netherlands

3. **Indicators of Compromise.** The system is infected, if the following files are found in the system: -

- a. C:\ProgramData\dsk\dat2\credwiz.exe (**Digital Signature Protected File**)
- b. C:\ProgramData\dsk\dat2\duser.dll (Malicious DLL)
- c. C:\Users\- d. C:\Users\

4. **Capabilities of Malware**

- a. The malware has a **valid digital signature** and hence it has very low detection rate.
- b. The malware is specially designed for targeted attacks and can **steal files** and other sensitive data from windows system.
- c. The attacker can gain remote access of the system and can execute additional payload from it.

5. **Recommendations**

- c. **Don't rely on Windows defender, always install and update well reputed antiviruses** such as Kaspersky, Avira, Avast etc.
- d. In case, if indicators of compromise (para 3) are found in the system, please disconnect the computer from internet and reinstall Windows.
- e. Update all softwares including Windows OS, Microsoft Office and all other softwares on regular basis.
- f. Uninstall all unwanted softwares form your system and android phone.
- g. **Don't download attachments form emails unless you are sure about the source.**
- h. It is mandatory to enable **2 factor authentication on all your email accounts (Gmail, Yahoo, Hotmail etc), social media accounts (Facebook, Whatsapp etc) especially internet banking to prevent any sort of unauthorized access and financial loss.**
- i. **Never forward your OTP (One Time Password) to anyone as it can easily hack your accounts.**
- j. Blacklist C&C server mentioned in para 2(i) in firewalls of own network.