

GOVERNMENT OF PAKISTAN
CABINET SECRETARIAT, CABINET DIVISION
NATIONAL TELECOM & INFORMATION TECHNOLOGY SECURITY BOARD
(NTISB)

No. 1-5/2003 (NTISB-II)

Islamabad 30 March, 2021

Subject: Advisory - Prevention Against Cyber Espionage via Malicious Android Application (Advisor No.14)

1. Introduction. Hostile Intelligence Agencies (HIAs) are using advanced and sophisticated mobile Remote Access Trojans (RATs) for Android to exfiltrate sensitive data from government / military personals. These malicious RATs are embedded in applications, namely ChatSpy, Fruit Chat, Cucu Chat and Kako Chat which entice users to download / install these applications. Such applications employ a wide range of attack vectors for distribution including Social Engineering, Honey Trapping, Enticing websites, Ads, Social Media, Emails, SMS, Telegram or WhatsApp messages to conduct Cyber intrusions.

2. Summary of Malicious Applications

- a. Application Name. ChatSpy, Fruit Chat, Cucu Chat and Kako
- b. Malware Type. Over-Permissive Applications / Surveillanceware.
- c. APT Group. Pro Indian Group named Confucius.
- d. Malware Names. Lookout (UK based Cyber Security Company) named malware as HornBill and SunBird.
- e. Distribution Vectors. WhatsApp, Social Media, Websites, Emails, SMS.
- f. Threat Impact. Critical.
- g. Antivirus Detection Rate 0/56 (None)
- h. Attack Timeline. 2017-Ongoing
- i. Permissions. These Application commonly requires following permissions upon installation: -
 - (1). Reading Contacts, SMS.
 - (2). Network and GPS Based Information.
 - (3). Recording Audio.
 - (4). Call Phone Number, reading call log, reroute outgoing call.
 - (5). Read / receive text messages (SMS, MMS).
 - (6). USB Storage.
 - (7). Photos.

FRP CDDX No. 45207
Received in Member (IT)
Dated: 5/4/21

45207-K Chief (IT)
Ref: 45207 Dy. No. 02 ADD 2021
on 02 APR 2021

As per 5/4
S(1T)

email to PRAC
Sanad
8-4
SSC IT-II

3. Capabilities / Modus Operandi

- a. If not connected to internet, the application insists on connecting to internet to unlock full app feature.
- b. As soon as the device connects to internet, it uploads user data, like IMEI number, Files, Gmail account ID, contacts, WhatsApp Voice Notes, SMS logs, geo-location, call logs, pictures / images to its C&C server.

4. Recommendations.

In this regard following are recommended: -

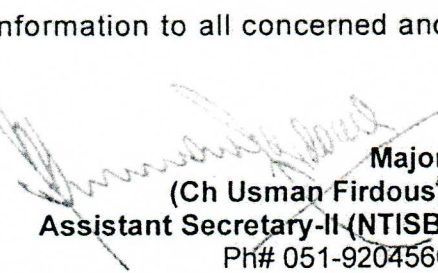
- a. Always check application permissions before installation of application and install applications from Google Play Store only.
- b. Under command must regularly be sensitized about malicious actors tools, tactics and procedures, moreover, all personnel (officers / staff) be motivated to refrain from engaging in activities that may lead to exploitation.
- c. Install and update strong antivirus solution on android devices like AVAST or Kaspersky. After installation, scan the suspected device with antivirus solutions to detect and clean infections.
- d. Before downloading / installing apps on android devices, review the app details, number of downloads, user reviews, comments and "ADDITIONAL INFORMATION" section.
- e. In mobile settings, do not enable installation of apps from "**Untrusted Source**".
- f. Install Android updates and patches as and when available from Android device vendors.
- g. Do not download or open attachment in emails received from untrusted sources or unexpectedly received from trusted users and forward them to emails mentioned in para-5.
- h. Avoid using unsecure and unknown Wi-Fi networks as hostile elements use Wi-Fi access points at public places for distributing malicious applications.
- i. Use two-factor authentication on all Internet Banking Apps, WhatsApp, Social Media and Gmail accounts.

j. All officers / staff must be guided on compliance of cyber security measures at personal smart appliances level.

5. For any query or reporting malware, please forward the same on following email addresses: -

asntisb2@cabinet.gov.pk

6. Forwarded for perusal and dissemination of information to all concerned and under command, please.


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Ph# 051-9204560

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