

DISCLAIMER

This report is purely based on technical findings made by the research team during an investigation. It does not intend to malign or in any way target any country, actor or person. All the information provided in this report has been extracted during the investigation, information might be changed after generating the reports.



Research report on phishing campaign replicating Income Tax e-Filing, Income Tax Department, Govt. of India website:

The Research Wing of CyberPeace Foundation has received an SMS containing a link asking users to submit a refund application for disbursement of income tax refund. your incometax refund of 35,425 INR is processed and ready for disbursement. kindly click http://204.44.124.160/ITR to submit a refund application to enable us make your payment at the earliest. Regards, Refunds Dept.

Case Study:

The Research Wing of CyberPeace Foundation along with Autobot Infosec Private Limited have looked into this matter to reach a conclusion that the campaign is either legitimate and launched by the Income Tax Department, Govt. of India or an online fraud.

On visiting the link http://204.44.124[.]160/ITR it redirects users to

http://23.146.242[.]133/script/redir.php?owner=Admin and in our case it finally redirected us to http://78.138.107[.]132/177938XXXX/k47h.php?id=XXXXXX&owner=QWRtaW4%3D

**[Some characters are replaced with XX for security reasons.]

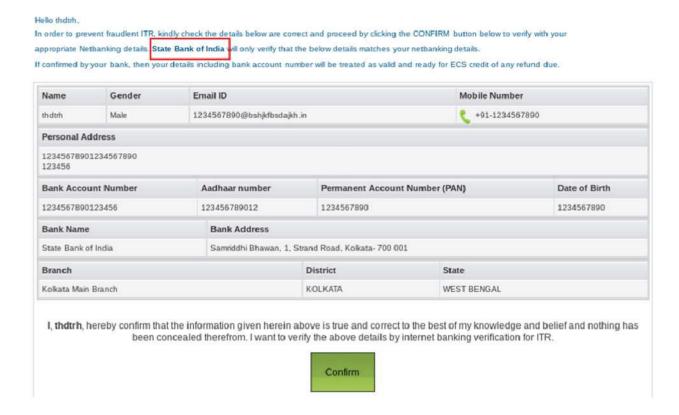
On the landing page it shows an Income tax e-filing web page which is mostly similar to the https://www.incometaxindiaefiling.gov.in/home.



On clicking the green 'Proceed to the verification steps' button, it asks users to submit some personal information like Full name, PAN, Aadhaar number, Address, Pincode, Date of birth, Mobile number, Email address, Gender, Marital status and banking information like Account number, IFSC code, Card Number, Expiry date, CVV/CVC and Card PIN.

rsonal details		
*Full Name	ř	
Must matchother information provided such as		
PAN, Aadhaarand bank account number		
 PAN and Aadhaar Number PAN and Aadhaar number details must match 	man.	
PAN and Adding number details must match	PAN	
	Aadhaar Number	
	Addition Number	
*Address		
Full address required		
		Mb.
. 7/		
*Pincode (Required)	Address Pincode	
(reclamed)	Address Pateode	
*Date of Birth and Mobile Number		
Must match other information provided such as PAN, Aadhaar and bank account number	Date of Birth	Mobile Number
PAN, Aadhaar and bank account number		
*Your E-Mail Address		
Must match other information provided such as		
PAN, Aadhaar and bank account number		
Gender and Marital Status		
Gender and marital status must match other	Gender +	Marital Stati •
	Gender •	Marital State
Gender and marital status must match other	Gender	Marital State •
Gender and marital status must match other details provided	Gender	Marital Statu •
Gender and marital status must match other details provided	Gender	Marital Statu
Gender and marital status must match other details provided inancial information *Bank Account Number and IFSC Code		
Gender and marital status must match other details provided	Gender •	IFSC Code
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Gender and marital status must match other details provided inancial information *Bank Account Number and IFSC Code Account number and IFSC Code must match *Account type		
Gender and marital status must match other details provided inancial information *Bank Account Number and IFSC Code Account number and IFSC Code must match *Account type	Bank Account Number	IFSC Code
Gender and marital status must match other details provided inancial information *Bank Account Number and IFSC Code Account number and IFSC Code must match *Account type	Bank Account Number First of all, let us conduct a real-time	IFSC Code
Gender and marital status must match other details provided inancial information *Bank Account Number and IFSC Code Account number and IFSC Code must match *Account type	Bank Account Number First of all, let us conduct a real-time This information will be transfered to	IFSC Code check on the information you provided against your Card.
Gender and marital status must match other details provided nancial information *Bank Account Number and IFSC Code Account number and IFSC Code must match *Account type	Bank Account Number First of all, let us conduct a real-time	IFSC Code check on the information you provided against your Card.
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Gender and marital status must match other details provided nancial information *Bank Account Number and IFSC Code Account number and IFSC Code must match *Account type (Required)	Bank Account Number First of all, let us conduct a real-time This information will be transfered to	IFSC Code check on the information you provided against your Card.
Gender and marital status must match other details provided Inancial information *Bank Account Number and IFSC Code Account number and IFSC Code must match *Account type (Required)	Bank Account Number First of all, let us conduct a real-time This information will be transfered to	IFSC Code check on the information you provided against your Card.
Gender and marital status must match other details provided inancial information *Bank Account Number and IFSC Code Account number and IFSC Code must match *Account type (Required) *Card Number and must match account number and bank name	Bank Account Number First of all, let us conduct a real-time This information will be transfered to	IFSC Code check on the information you provided against your Card.
Gender and marital status must match other details provided inancial information *Bank Account Number and IFSC Code Account number and IFSC Code must match *Account type (Required) *Card Number and must match account number and bank name *Card Expiry Date, CW/CVC and Card PIN	Bank Account Number First of all, let us conduct a real-time This information will be transfered to we do not store taxpayers financial.	recheck on the information you provided against your Card. by your bank for verification purpose only, details.
Gender and marital status must match other details provided inancial information *Bank Account Number and IFSC Code Account number and IFSC Code must match *Account type (Required) *Card Number and must match account number and bank name	Bank Account Number First of all, let us conduct a real-time This information will be transfered to	IFSC Code check on the information you provided against your Card.
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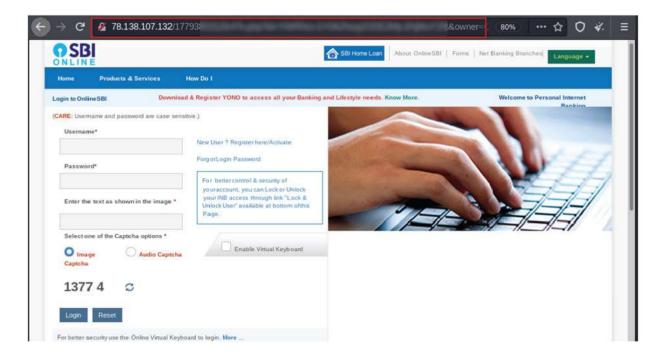
After submitting some dummy data we were redirected to a page where it asked the user to confirm the entered data.



We noticed, it automatically detects the bank name of the user from the IFSC code entered in the form.

It is to be mentioned that as we had entered a value having SBIN as prefix in the IFSC code field, it detected our bank as State Bank of India.

After clicking on the green 'Confirm' button we were landed to a State bank of India internet banking login page almost similar to the official one, hosted on the same IP i.e. 78.138.107[.]132 which was not linked to the official State bank of India internet banking domain in any way. It asks for the username and password for online banking.



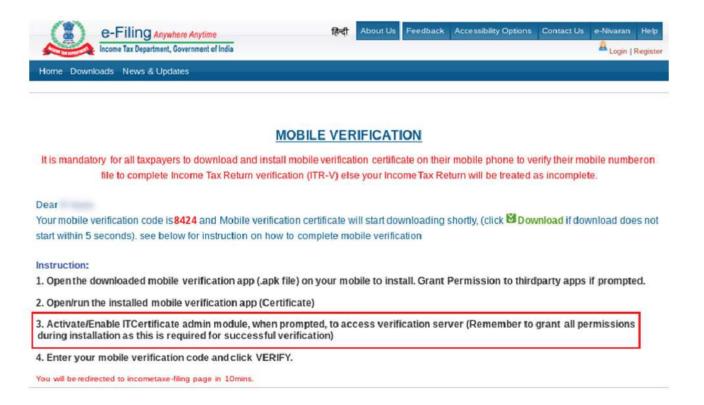
After providing the dummy username and password we reached on the next step which asked **Hint question**, **Answer**, **Profile password**, **CIF number**.

ONLINE		
User Driven Registration - N	ew User	
Mendatory fields are marked with an asterb		
Hint Question *	- Select -	
Answer *		
Profile password *		
CIF Number *		(CIF Number is available in yourpassbook and/or statement of account)
		Submit
© State Bank of India		Privacy Statement Disclosure Terms of Service (Terms & Conditions)

After clicking on the Submit button it showed a section called 'MOBILE VERIFICATION' where some instructions were given to download an android application (.apk file) in order to complete the ITR verification.

In the third point there is an instruction which is deliberately insisting users to grant all the permissions of the device to the particular application.

'Remember to grant all permissions during installation as this is required for successful verification'



On clicking the green 'Download' link it starts downloading an application called Certificate.apk.

After sometime it redirects the users to the official Income Tax e-filing website https://www.incometaxindiaefiling.gov.in/home

In Depth investigation:

Some key findings extracted during the investigation are mentioned below --

IP Address	204.44.124.160
HTTP Status Code	200 [Active]
ISP	QuadraNet
ASN	8100
Country	United States ==
Continent	North America

IP Address	23.146.242.133
HTTP Status Code	200 [Active]
ISP	VolumeDrive
ASN	46664
Country	United States ==
Continent	North America

IP Address	78.138.107.132
HTTP Status Code	200 [Active]
ISP	Host Europe GmbH
ASN	29066
Country	France
Continent	Europe

During the investigation we noticed, everytime the link http://204.44.124[.]160/ITR is opened, it redirects users to different URLs having the same contents and after a certain time the respective URL expires.

We found some other IP addresses associated with the campaign (having the same theme based landing page like **78.138.107.132**).

IP Address	104.223.119.101
HTTP Status Code	200 [Active]
ISP	QuadraNet
ASN	8100
Country	United States ==
Continent	North America

IP Address	107.173.191.36
HTTP Status Code	200 [Active]
ISP	ColoCrossing
ASN	36352
Country	United States 👅
Continent	North America

IP Address	151.106.15.206
HTTP Status Code	200 [Active]
ISP	Host Europe GmbH
ASN	29066
Country	France
Continent	Europe

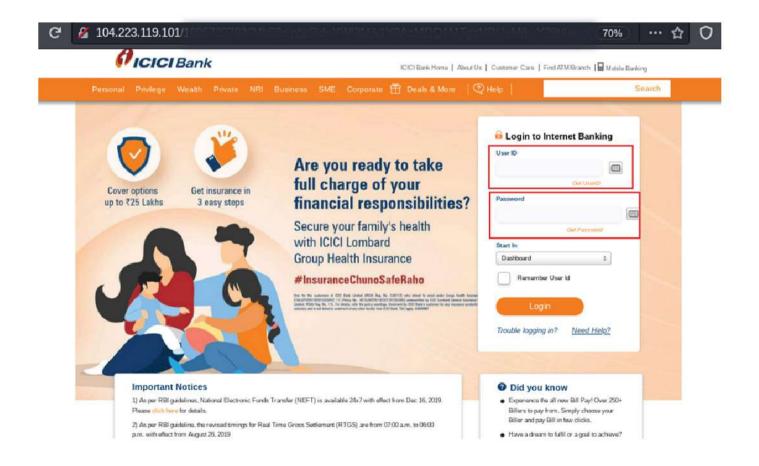
The mobile application is hosted on the IP address 192.210.218.49.

IP Address	192.210.218.49
HTTP Status Code	200 [Active]
ISP	ColoCrossing
ASN	36352
Country	United States 🔤
Continent	North America

As we noticed, the campaign automatically detected the bank name as State Bank of India from the IFSC code and took us to a State bank of India internet banking login page. We tested the fact with 4 other famous banks viz ICICI, HDFC, Axis bank and Punjab National Bank by tweaking the prefix part of the IFSC code.

We got the same type of phishing page related to the login credential and account details harvesting for the respective banks.

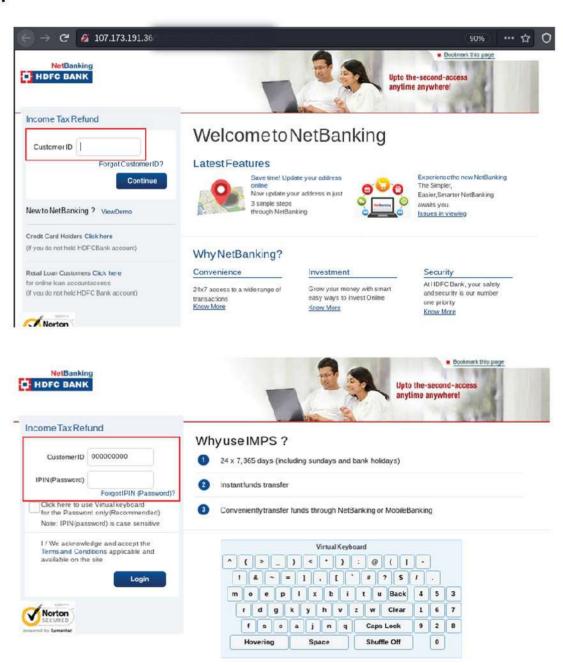
ICICI Bank:



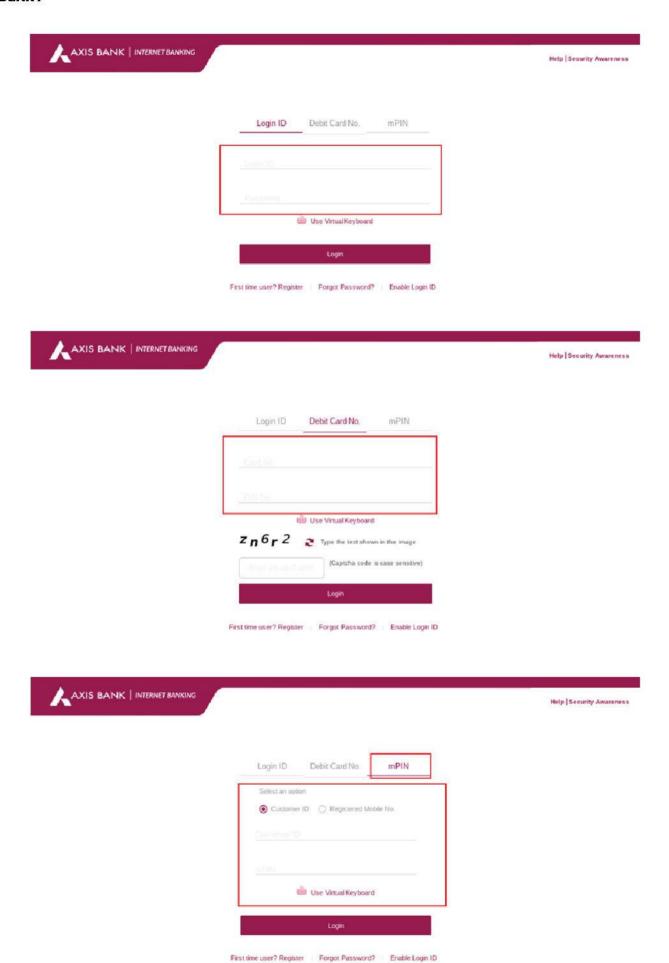




HDFC Bank:



Axis Bank:



Punjab National Bank:





It can be noticed that all the phished pages are collecting the account related information like username, password, mPIN, security questions etc.

After providing all the details it redirects the user to the 'MOBILE VERIFICATION' page mentioned earlier, irrespective of whichever bank has been selected by the user.

We identified some of the directories that are opened and the contents can be listed. Some of the directories have also been found with the names of **axis**, **hdfc**, **icici**, **netpnb**, **sbi**.

Name	Last modified Size Descrip	tion
Parent Director	у	_
357.php	2021-02-24 21:48 28K	
750.php	2021-02-24 21:51 28K	
813.php	2021-02-24 21:50 28K	
2259.php	2021-02-24 21:50 17K	
§ 5999.php	2021-02-24 21:48 17K	
₩ 8492.php	2021-02-24 21:51 17K	
49958,php	2021-02-24 21:51 12K	
97072.php	2021-02-24 21:50 12K	
Login.txt	2021-02-24 21:48 12K	
axis/	2021-02-24 21:48 -	
detailsForm.txt	2021-02-24 21:48 28K	
details Verify.txt	2021-02-24 21:48 17K	
hdfc/	2021-02-24 21:48 -	
icici/	2021-02-24 21:48 -	
img/	2021-02-24 21:48 -	
info.txt	2021-02-24 21:51 200	
landing.php	2021-02-24 21:48 13K	
netpnb/	2021-02-24 21:48 -	
randnames.txt	2021-02-24 21:48 502	
random.txt	2021-02-24 21:48 10	
<u>sbi∕</u>	2021-02-24 21:48 -	
submit.php	2021-02-24 21:48 9.0K	

By visiting those directories manually, we reached the online banking phishing pages mentioned earlier respectively.

By source code analysis some information has been extracted like --

The webpage is borrowed from some other source using the iframe tag of HTML.

iframe onLoad='d0us66zbdz()' id='wggnyeh68yvzn' style='position:fixed; top:0px; left:0px; bottom:0px; right:0px; width:100%; height:100%; border:none;
margin.0, padding:0; overflow:hidden; z-index:999999; src='http://bachir.com/905056331/index.php?id=YWI3NTIIY0A2MDAIMjUzNTQ0MzMuY29t&owner=QWRtaM4='
 scrolling='auto' sandbox='allow-top-navigation allow-scripts allow-forms'>This browser does not support iframes<iframe>
</body></html>

In this case the contents of the webpage were being fetched from the bachir[.]com.

Domain Name	bachir[.]com
HTTP Status Code	200 [Active]
IP Address	192.185.193.125
ISP	Unified Layer
ASN	46606
Country	United States 🔤
Continent	North America

Registry Domain ID: 113597448_DOMAIN_COM-VRSN **Registrar WHOIS Server**: whois.liquidnetlimited.co.uk

Registrar URL: http://liquidnetlimited.co.uk

Updated Date: 2021-01-20T16:45:33Z **Creation Date:** 2004-03-08T19:31:18Z

Registrar Registration Expiration Date: 2022-03-08T19:31:18Z

Registrar : LIQUIDNET Ltd. **Registrar IANA ID :** 1472

Registrant State/Province : Beirut **Registrant Country :** LB (Lebanon)

Name Servers: ns1.lynxserver.com

ns2.lynxserver.com

During the investigation we found another domain i.e gardenmeetsgeek[.]com as the iframe source.

Domain Name	gardenmeetsgeek[.]com
HTTP Status Code	200 [Active]
IP Address	192.185.35.49
ISP	Unified Layer
ASN	46606
Country	United States 🖷
Continent	North America



Registry Domain ID: 1850108255_DOMAIN_COM-VRSN

Registrar WHOIS Server: whois.launchpad.com

Registrar URL: LaunchPad.com

Updated Date: 2021-02-24T04:21:35Z **Creation Date:** 2014-03-11T23:40:15Z

Registrar Registration Expiration Date: 2022-03-11T23:40:15Z

Registrar: Launchpad, Inc. (HostGator)

Registrar IANA ID: 955

Registrant Name : Karel Bemis **Registrant Organization :** Website

Registrant Street: 1188 Majestic Oaks Dr.

Registrant City: Forest

Registrant State/Province: VA Registrant Postal Code: 24551

Registrant Country: US

Registrant Phone: +1.4344854360

Registrant Email: senseibemis@gmail.com

Name Servers: ns8169.hostgator.com ns8170.hostgator.com

The title image of the landing page is "e-Filing Home Page, Income Tax Department, Government of India"

```
<!DOCTYPE html>
  <html lang="en">
  <head>
  <meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
  <title>e-Filing Home Page, Income Tax Department, Government of India-/title>
  link rel="shortcut icon href="img/favicon.ico type="image/x-icon">
  link href="img/style.min.css" rel="stylesheet" />
  </head>
```

• The header and the navbar section have been pretended as a menu area which contain links of certain pages, from where users can reach respective pages but in reality no links are actually embedded in the background. It can be verified from the source code where the values of **href** are set to '#' instead of the respective URLs.

```
Accessibility Options Contact Us
                                                                 About Us
                                                                          Feedback
                                                                                                              e-Nivaran Help
               e-Filing Anywhere Anytime
                                                                                                               Login | Register
              Income Tax Department, Government of India
   Home Downloads News & Updates
                                                                              <div class="dropdown-content">
       <div class="personalDetails">
                                                                              </div>
           <div style="padding-top: 7px;
<a href="#"> Login
                                                                          </div>
              </a> | <a href="#"> Register
                                                                         <a href="#"> Feedback</a>
               </a>
                                                                          </a>
       </div>
   </div>
                                                                              <a href="#"> Accessibility Options</a>
         </div>
                                                                              </a>
eldivs
                                                                              <a href="#"> Contact Us</a>
<div class="navrow">
   </a>
       <a href="#"><span>Home</span></a>
                                                                              <a href="#"> e-Nivaran</a>
       <a href="#"><span>Downloads</span></a><a href="#"><span>News & Updates
                                                                              </a>
                                                                              <a href="#"> Help</a>
   </a>
</div>
```

App Analysis:

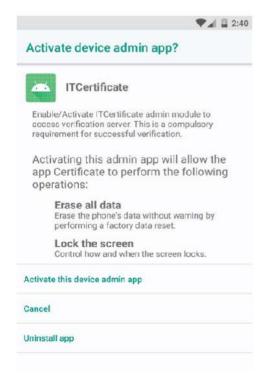
Application: Certificate.apk

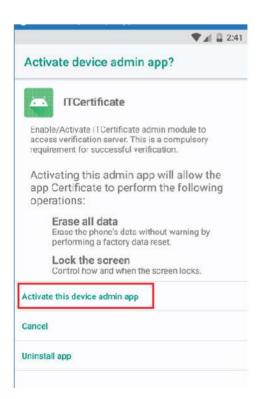
After opening the app it asks the user to enable or activate the application by giving the device administrator rights to the app as it is necessary to complete the ITR verification process.

Also a caution message can be noticed --

"Activating this admin app will allow the app Certificate to perform the following operations:

Erase all data Lock the screen"

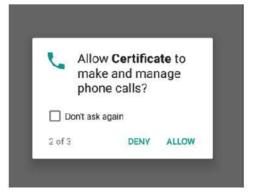


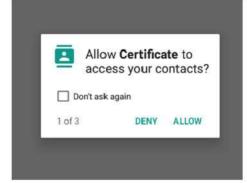




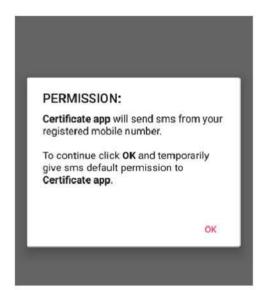
After clicking on the 'Activate this device admin app' it asks for multiple device permissions like contact details, phone call details, send and view SMS messages etc.





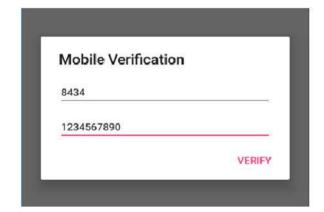


After giving all the access it prompts for another permission for changing the default SMS messaging app.



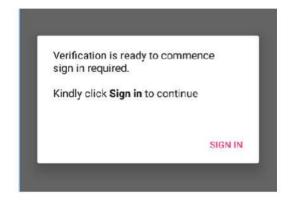


After that it prompts users for Mobile Verification. In our case we provided the number that was used to register and one of the codes that were assigned to us in the Mobile Verification page on the website.



After clicking on the 'VERIFY', a message appears for sign in.

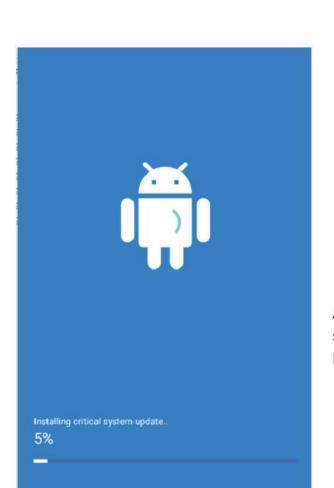
"Verification is ready to commence sign in required.
Kindly click Sign in to continue"

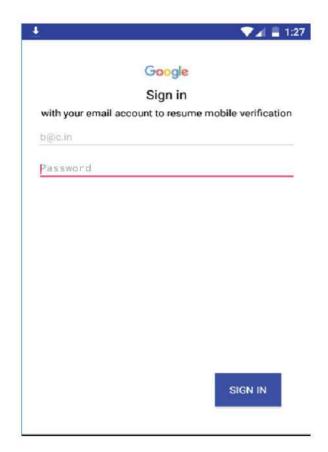


On clicking the 'SIGN IN' button a fake google account login page appears which asks the user to provide account credentials.

We noticed it automatically picked the email id that was used during the registration on the website.

It has also been noticed that after providing the dummy password it accepts the same and **there** is **no background verification method to verify the credentials**.





After going with the '**SIGN IN**' option it starts displaying that some critical system update is being installed with a progress bar and percentage.

Application Details

App name	Certificate
Package name	kerrylogistics.qkls495pl.certificate
Average CVSS Score	6.8
App Security Score	70/100(medium risk)
Main Activity	kerrylogistics.qkls495pl.certificate.Sgoi93tp
Target SDK	30

Application Certificate Details

Country	United States
Valid from	2020-10-29 19:02:38
Valid to	2050-10-22 19:02:38
Organisation	Android

Application Permission Details

```
(?xml version="1.0" encoding="utf-8"?>
(manifest xmlns:android="http://schemas.android.com/apk/res/android" android:versionCode="1" android:versionName="
   <uses-sdk android:minSdkVersion="22" android:targetSdkVersion="30"/>
   <uses-permission android:name="android.permission.REORDER TASKS"/>
   cuses-permission android:name="android.permission.EXPAND STATUS BAR"/>
   cuses-permission android:name="android.permission.WAKE_LOCK"/>
   cuses-permission android:name="android.permission.CHANGE_WIMAX_STATE"/>
   cuses-permission android:name="android.permission.ACCESS_NOTIFICATION_POLICY"/>
   <uses-permission android:name="android.permission.GET_ACCOUNTS"/>
   cuses-permission android:name="android.permission.ACCESS_WIFI_STATE"/>
   <uses-permission android:name="android.permission.USE_FULL_SCREEN_INTENT"/>
    cuses-permission android:name="android.permission.READ_SYNC_SETTINGS"/>
    <uses-permission android:name="android.permission.PACKAGE_USAGE_STATS"/>
    <uses-permission android:name="android.permission.READ_SMS"/>
   cuses-permission android:name="android.permission.ACCESS_WIMAX_STATE"/>
   <uses-permission android:name="com.huawei.permission.external_app_settings.USE_COMPONENT"/>
   Cuses-permission android:name="android.permission.CHANGE_NETWORK_STATE"/>
   cuses-permission android:name="oppo.permission.OPPO_COMPONENT_SAFE"/>
   Cuses-permission android:name="android.permission.RECEIVE BOOT COMPLETED"/>
   <uses-permission android:name="android.permission.FOREGROUND_SERVICE"/>
   cuses-permission android:name="android.permission.SEND_SMS"/?
   cuses-permission android:name="android.permission.BROADCAST_STICKY"/>
    <uses-permission android:name="android.permission.READ_PHONE_STATE"/>
   Cuses-permission android:name="android.permission.INTERNET"/>
    <uses-permission android:name="android.permission.RECEIVE_SMS"/>
    <uses-permission android:name="android.permission.ACCESS_NETWORK_STATE"/>
   cuses-permission android:name="com.google.android.c2dm.permission.RECEIVE"/>
   <uses-permission android:name="com.google.android.finsky.permission.BIND_GET_INSTALL_REFERRER_SERVICE"/>
   <application android:theme="@style/cb9bpj384xxc" android:label="Certificate" android:icon="@mipmap/ic_launcher"</pre>
       <activity android:theme="@style/nzo8f2o343bl" android:name="kerrylogistics.qkls495pl.certificate.S86d3n99x|</pre>
            <intent-filter>
```



Permission	Status	Information	Description
android.permission.REOR DER_TASKS	normal	Reorder applications running	Allows an application to move tasks to the foreground and background. Malicious applications can force themselves to the front without your control
android.permission.EXPA ND_STATUS_BAR	normal	expand/collapse status bar	Allows an application to expand or collapse the status bar.
android.permission.WAKE _LOCK	normal	Prevent phone from sleeping	Allows an application to prevent the phone from going to sleep.
android.permission.access _NOTIFICATION_POLICY	normal		Marker permission for applications that wish to access notification policy.
android.permission.GET_ ACCOUNTS	dangerous	List accounts	Allows access to the list of accounts in the Accounts Service.
android.ACCESS_WIFI_S TATUS	normal	View WI-FI Status	Allows an application to view the information about the status of Wi-Fi.
android.permission.USE_ FULL_SCREEN_INTENT	normal		Required for apps targeting Build.VERSION_CODES. Q that wants to use notification full screen intents.
android.permission.READ _SYNC_SETTINGS	normal	Read sync settings	Allows an application to read the sync settings, such as whether sync is enabled for Contacts.
android.permission.PACK AGE_USAGE_STATS	signature	Update component usage statistics	Allows the modification of collected component usage statistics. Not for use by common applications.
android.permission.READ _SMS	dangerous	Read SMS or MMS	Allows application to read SMS messages stored on your phone or SIM card. Malicious applications may read your confidential messages.
android.permission.CHAN GE_NETWORK_STATE	normal	Change network activity	Allows applications to change network connectivity state.



Permission	Status	Information	Description
android.permission.RECEI VE_BOOT_COMPLETED	normal	Automatically start at boot	Allows an application to start itself as soon as the system has finished booting. This may take longer to start the phone and allow the application to slow down the overall performance by always running.
android.perimission.FORE GROUND_SERVICE	normal		Allows a regular application to use Service.startForeground
android.permission.SEND _SMS	dangerous	Send SMS messages	Allows application to send SMS messages. Malicious applications may cost you money by sending messages without your confirmation.
android.perimission.BROA DCAST_STICKY	normal	Send sticky broadcast	Allows an application to send sticky broadcasts, which remain after the broadcast ends. Malicious applications can make the phone slow or unstable by causing it to use too much memory.
android.permission.READ _PHONE_STATE	dangerous	Read phone state and identity	Allows the application to access the phone features of the device. An application with this permission can determine the phone number and serial number of this phone, whether a call is active, the number that call is connected to and so on.
android.permission.INTER NET	normal	Full internet access	Allows an application to create network sockets.
android.permission.RECEI VE_SMS	dangerous	Receive SMS	Allows application to receive and process SMS messages. Malicious applications may monitor your messages or delete them without showing them to you.
com.google.android.c3dm. permission.RECEIVE	signature	C2DM Permissions	Permission for cloud to device messaging.



The aforementioned permissions are used by the app to perform required operations like get the SMS details, getting phone call log details and some of the permissions are dangerous like full_screen_intent, foreground_service, send_sms, package_usage_stats.

Deep Link Analysis

```
<intent-filter>
        <action android:name="kerrylogistics.qkls495pl.certificate.action.zQShZlq"/>
    </intent-filter>
    <intent-filter>
        caction android:name="kerrylogistics.qkls495pl.certificate.action.bmEoi"/>
        <data android:scheme="hkm"/>
    </intent-filter>
    <intent-filter>
        <action android:name="kerrylogistics.qkls495pl.certificate.action.sZvV"/>
    (/intent-filter)
</activity>
<activity android:name="kerrylogistics.qkls495pl.certificate.Tytn1959m">
    <intent-filter>
        <action android:name="kerrylogistics.qkls495pl.certificate.action.khKWEfN"/>
        <data android:scheme="upt"/
        <data android:scheme="hcxqcp"/>
        <data android:mimeType="application/vnd.syncml.dmtnds+xml"/>
    (/intent-filter)
    <intent-filter>
        <action android:name="kerrylogistics.qkls495pl.certificate.action.ldww"/>
        <data android:scheme="lecry"/>
    </intent-filter>
</activity>
<receiver android:name="kerrylogistics.qkls495pl.certificate.Bnjdhj595jkr" android:permission="android.per</pre>
    <intent-filter>
        <action android:name="action.OnTFly"/>
    </intent-filter>
    <intent-filter>
        <action android:name="android.intent.action.BOOT_COMPLETED"/>
    </intent-filter>
    <intent-filter>
        <action android:name="kerrylogistics.qkls495pl.certificate.action.ahSlmwch"/>
    </intent-filter>
    <intent-filter>
        <action android:name="android.provider.Telephony.SMS DELIVER"/>
    </intent-filter>
   <activity android:name="kerrylogistics.qkls495pl.certificate.Kn70108rs" android:excludeFromRecents="true">
       <intent-filter>
           <data android:scheme="qbqu"/>
       </intent-filter>
       <intent-filter>
           <action android:name="android.intent.action.VIEW"/>
           <category android:name="android.intent.category.DEFAULT"/>
<category android:name="android.intent.category.BROWSABLE"/>
           <data android:scheme="gblh" android:host="kerrylogistics.qkls495pl.certificate"/>
       </intent-filter>
   </activity>
   <activity android:name="kerrylogistics.qkls495pl.certificate.Rrhaqi908qnw">
       <intent-filter>
           <action android:name="kerrylogistics.qkls495pl.certificate.action.kERiIP"/>
       <data android:scheme="ohsps"/>
</intent-filter>
            <action android:name="kerrylogistics.qkls495pl.certificate.action.fpZtAUj"/>
           <data android:scheme="lmcygg"</pre>
           <data android:scheme="bwnmuq"/>
       </intent-filter>
   </activity>
   <activity android:name="kerrylogistics.qkls495pl.certificate.Ic3olg114gnl" android:excludeFromRecents="true")</pre>
       <intent-filter>
           <action android:name="android.intent.action.SEND"/
            <action android:name="android.intent.action.SENDTO"/
            <category android:name="android.intent.category.DEFAULT"/>
            <category android:name="android.intent.category.BROWSABLE"/>
           <data android:scheme="sms"/>
           <data android:scheme="smsto"/>
           <data android:scheme="mms"/
            <data android:scheme="mmsto"/>
       </intent-filter>
```

Activity	Intent
kerrylogistics.qkls495pl.certificate.Kn7010 8rs	Schemes: ddqm://, cejaag://, qbqu://, gblh://, Hosts: lupin.vxdv9l3314js.it8vri3318lq, kerrylogistics.qkls495pl.certificate, Mime Types: video/vnd.dlna.mpeg-tts,
kerrylogistics.qkls495pl.certificate.lc3olg1 14gnl	Schemes: sms://, smsto://, mms://, mmsto://,
kerrylogistics.qkls495pl.certificate.Le7q11 1ond	Schemes: jji://, picds://, nkecgg://, Hosts: kerrylogistics.qkls495pl.certificate, Mime Types: application/vnd.fujitsu.oasys,

After performing some analysis we found that all these information like call log, SMS of registered number are sent to host **fcm[.]point2this[.]com**. That means the host behaves like a **Command & Control (CnC)** for the aforementioned application.

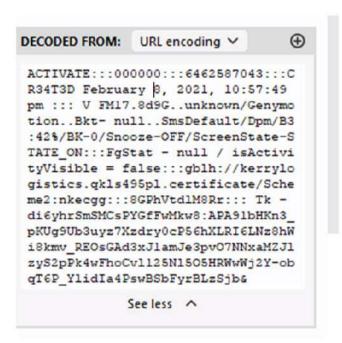


point2this[.]com is a domain name that is actually offered by no-ip dynamic DNS service.

Domain Name	fcm[.]point2this[.]com.
HTTP Status Code	200 [Active]
IP Address	18.220.227.131
ISP	Amazon.com
ASN	16509
Country	United States 🔤
Continent	North America



Details regarding the activation status of the app is sent to the server in encoded form, which is not readable by normal users. So we tried to decode some contents and found that the status details of the device like **timestamp, mobile number and verification code** are sent in encoded form.



After validating the data, it provided us with a token, fid, name etc as response, by noticing the patterns of the parameters it seems that in the background a firebase infrastructure was being used.

```
{
  "name": "projects/1097129561210/installations/cgbNesiMSIWlbKCFR5YCBq",
  "fid": "cgbNesiMSIWlbKCFR5YCBq",
  "refreshToken": "2_TgcZVFfrBqEH1_EL6JMcPe-Tu7pWzSNCVbvzptaSd-RFyzyfuIyzjiyLdtarQK2S",
  "authToken": (
    "token": "eyJhbGci0iJFUzIlNiIsInR5cCI6IkpXVCJ9.eyJmaWQi0iJjZ2J0ZXNp7VNJV2xiSONGUjVZQOJxIiwicHJvamVjdE5lbWJlciI6MTA5NzEy0TU2MTIxMCwiZXhwIjoxNjEON;
    "expiresIn": "604800s"
}
```

Conclusive Summary:

- The official website of Income tax e-filing is https://www.incometaxindiaefiling.gov.in/home which has the domain name ending with .gov.in that clearly indicates as Government of India property, whereas the shared link with the SMS has no domain name and is not linked with the Government of India.
- During the investigation we found all the IP addresses associated with the campaign belong to some dedicated cloud hosting providers.
- Overall layout and the functionalities of the web page used in the campaign are kept similar to the official e-filing site to lure laymen.
- The campaign is collecting personal information as well as banking information from the user. Getting into this type of trap could lead the users to face a massive financial loss.
 The whole campaign uses plain http protocol instead of the secure https. This means anyone on the network or internet can intercept the traffic and get the confidential information in plain text to misuse against the victim.
- In the last step it asks users to download an application from a third party source. Downloading any android application apart from the Playstore is not any how recommended.
- The application asks to provide administrator rights and unnecessary access permissions of the device. Agreeing with this could be a dangerous decision; as it sends sensitive information of the user to a remote destination in the background. Even the device can be remotely handled by the Cybercriminals.

Issued by:

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