

Grab your own copy of Phenakite iOS malware today

Archived: 2026-04-05 15:33:38 UTC

Facebook has recently [published](#) a technical paper regarding a threat actor named APT-C-23.

Almost half of their report is about a new iOS malware that is in use by the threat actor.

Facebook called this malware Phenakite and provided 2 hashes of malware samples, however, those samples are not publicly available (yet).

Since I am Android type of person, naturally the Android malware interested me more than the iOS malware.

After playing a little with the Android malware, I decided to see what I can learn about the iOS malware, but how? I don't have any sample and I am quite clueless with Apple devices at every possible level. Well:

[We don't need bombs we got fire kites](#)

Fortunately, the distribution site of the malware was still alive:



Well, not much to do other than download the app, well the link is not directly the app apparently:

```
tmf:~/Downloads$ file udid.mobileconfig
udid.mobileconfig: data
tmf:~/Downloads$ strings udid.mobileconfig | grep Dev
<key>DeveloperAttributes</key>
#Apple Worldwide Developer Relations1D0B
;Apple Worldwide Developer Relations Certification Authority0
#Apple Worldwide Developer Relations1D0B
;Apple Worldwide Developer Relations Certification Authority0
iPhone Developer: Moustafa abughafra (AW9Z45LMLF)1
#Apple Worldwide Developer Relations1D0B
;Apple Worldwide Developer Relations Certification Authority
#Apple Worldwide Developer Relations1D0B
;Apple Worldwide Developer Relations Certification Authority
#Apple Worldwide Developer Relations1D0B
;Apple Worldwide Developer Relations Certification Authority
tmf:~/Downloads$
```

The file is binary, but also contains strings that might be interesting. There are several tools that parse mobileconfig files, a curious reader might try to parse the file for additional information, as this probably should trigger the download of the app after the policy is accepted.

But now what?

Feeling stuck? no worries I felt the same as well. Since I don't have iOS device to try it out, I decided to inspect the code of the website:

```
286 <script type="text/javascript">
287     $(function () {
288         $('[data-toggle="popover"]').popover();
289     });
290 </script>
291 <script>
292     $(document).ready(function () {
293         var firstClick = 0;
294         $('#downloadBtn').on('click', function () {
295
296             var visitorId ;
297             $.ajax({
298                 type: "POST",
299                 url: "/checkVisitor",
300                 data: {'_token': 'JpfHfzZs7n2IwXQk6nLLVigPHNGndfPIQ4bK7KU'},
301                 success: function (data) {
302                     if (data == '0') {
303                         $.ajax({
304                             type: "POST",
305                             url: "/setNewVisitor",
306                             data: {'_token': 'JpfHfzZs7n2IwXQk6nLLVigPHNGndfPIQ4bK7KU'},
307                             success: function (data) {
308                                 visitorId = data;
309                                 window.location = '/udid.mobileconfig';
310                             }
311                         });
312                     } else {
313                         alert(data);
314                         window.location = 'itms-services://?action=download-manifest&url=https://magic4smile.com/'+data+'/app.plist';
315                     }
316                 }
317             });
318             //firstClick = 1;
319
320             $.ajax({
321                 type: "POST",
322                 url: "/checkFirstClick",
323                 data: {'_token': 'JpfHfzZs7n2IwXQk6nLLVigPHNGndfPIQ4bK7KU'},
324                 success: function (data) {
325                     if (data != '0') {
326                         window.location = 'itms-services://?action=download-manifest&url=https://magic4smile.com/app.plist';
327                     }
328                     $.ajax({
329                         type: "POST",
330                         url: "/returnToZero",
331                         data: {'_token': 'JpfHfzZs7n2IwXQk6nLLVigPHNGndfPIQ4bK7KU'},
332                         success: function (data) {
333                             if (data != '0') {
334                                 window.location = 'itms-services://?action=download-manifest&url=https://magic4smile.com/app.plist';
335                             } else {
336                                 window.location = '/udid.mobileconfig';
337                             }
338                         }
339                     });
340                 }
341             });
342             } else {
343                 window.location = '/udid.mobileconfig';
344             }
345         }
346     });
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```

Oh look at that, commented code, that must be good :P

The screenshot shows a web browser with a 404 error message: "The GET method is not supported for this route. Supported methods: POST." The browser's address bar shows "magic4smile.com/CheckFirstClick". The developer console is open, displaying a stack trace of the error and a list of environment variables. Two items in the environment variables are circled in red: "/checkFirstClick" and "FN= {3/W+6sWj55Z".

```
QUERY_STRING **
REQUEST_URI "/checkFirstClick"
SCRIPT_NAME "/public/index.php"
PHP_SELF "/public/index.php"
REQUEST_TIME_FLOAT 1628147121.9848
REQUEST_TIME 1628147121
APP_NAME "Laravel"
APP_ENV "local"
APP_KEY "base64:u3eqzuY0gyagJR+/X8oI8ET7g0wiJpJ24nE7058XKQw="
APP_DEBUG "true"
APP_URL "http://localhost"
LOG_CHANNEL "stack"
DB_CONNECTION "mysql"
DB_HOST "127.0.0.1"
DB_PORT "3306"
DB_DATABASE "magiccpz_hU0scwhM7YnV7v7G"
DB_USERNAME "magiccpz_Kd9sZVGRh4546J"
DB_PASSWORD "FN= {3/W+6sWj55Z"
BROADCAST_DRIVER "log"
CACHE_DRIVER "file"
QUEUE_CONNECTION "sync"
SESSION_DRIVER "file"
SESSION_LIFETIME "120"
REDIS_HOST "127.0.0.1"
REDIS_PASSWORD "null"
REDIS_PORT "6379"
MAIL_DRIVER "smtp"
MAIL_HOST "smtp.mailtrap.io"
MAIL_PORT "2525"
MAIL_USERNAME "null"
MAIL_PASSWORD "null"
MAIL_ENCRYPTION "null"
AWS_ACCESS_KEY_ID ""
AWS_SECRET_ACCESS_KEY ""
AWS_DEFAULT_REGION "us-east-1"
AWS_BUCKET ""
PUSHER_APP_ID ""
PUSHER_APP_KEY ""
PUSHER_APP_SECRET ""
PUSHER_APP_CLUSTER "mt1"
MIX_PUSHER_APP_KEY ""
MIX_PUSHER_APP_CLUSTER "mt1"

Environment Variables
LSPHP_ENABLE_USER_INI "on"
PATH "/usr/local/bin:/usr/bin:/bin"
TEMP "/tmp"
TMP "/tmp"
TMPDIR "/tmp"
PWD "/"
APP_NAME "Laravel"
```

WhoOpSec!

There was also a reference to a file named app.plist lets try to grab it, shall we?

```
tmf:~/Downloads$ file app.plist
app.plist: XML 1.0 document, ASCII text
tmf:~/Downloads$ cat app.plist
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE plist PUBLIC "-//Apple//DTD PLIST 1.0//EN" "http://www.apple.com/DTDs/PropertyList-1.0.dtd">
<plist version="1.0">
<dict>
  <key>items</key>
  <array>
    <dict>
      <key>assets</key>
      <array>
        <dict>
          <key>kind</key>
          <string>software-package</string>
          <key>url</key>
          <string>https://magic4smile.com/app.ipa</string>
        </dict>
      </array>
      <key>metadata</key>
      <dict>
        <key>bundle-identifier</key>
        <string>MagicChat.com.</string>
        <key>bundle-version</key>
        <string>4.0</string>
        <key>kind</key>
        <string>software</string>
        <key>subtitle</key>
        <string>41A472</string>
        <key>title</key>
        <string>MagicSmile</string>
      </dict>
    </dict>
  </array>
</dict>
```

Ok, this is plain text and simple, the software package is app.ipa, lets grab that as well:

```
tmf:~/Downloads/app$ ls -lah
total 14M
drwxrwxr-x  2 sk sk  4.0K May  4 20:02 .
drwxr-xr-x 16 sk sk  92K May  4 20:02 ..
-rw-rw-r--  1 sk sk 13M Jan 13  2020 app.ipa
tmf:~/Downloads/app$ md5sum app.ipa
38283546b418ff3801ff8111459abd4a  app.ipa
```

Ah, close, but no cigar, this hash doesn't match the two samples in Facebook report.

Could it be a new sample? doubt it, look at the date. So what is this file? [ipa](#) obviously! Not to be confused with [IPA](#).

Essentially it is a Zip file, so lets unzip that payload:

```
tmf:~/Downloads/app/Payload/app.app$ ls -lah
total 13M
drwxr-xr-x 65      20K May  4 20:12 .
drwxr-xr-x  3      4.0K Jan  4 2020 ..
drwxr-xr-x  2      4.0K Jan  4 2020 AddAccountView.nib
drwxr-xr-x  2      4.0K Jan  4 2020 AddFriendsCell.nib
drwxr-xr-x  2      4.0K Jan  4 2020 AddFriendsView.nib
drwxr-xr-x  2      4.0K Jan  4 2020 AdvertCustomView.nib
drwxr-xr-x  2      4.0K Jan  4 2020 AdvertPremiumView.nib
drwxr-xr-x  2      4.0K Jan  4 2020 AllMediaCell.nib
drwxr-xr-x  2      4.0K Jan  4 2020 AllMediaHeader.nib
drwxr-xr-x  2      4.0K Jan  4 2020 AllMediaView.nib
-rwxr-xr-x  1     12M Jan 13 2020 app
drwxr-xr-x  2      4.0K Jan  4 2020 ArchiveCell.nib
-rw-r--r--  1       523 Jan 13 2020 archived-expanded-entitlements.xcent
drwxr-xr-x  2      4.0K Jan  4 2020 ArchiveView.nib
-rw-r--r--  1     306K Jan  4 2020 Assets.car
drwxr-xr-x  2      4.0K Jan  4 2020 AudioView.nib
drwxr-xr-x  3      4.0K Jan  4 2020 Base.lproj
drwxr-xr-x  2      4.0K Jan  4 2020 BlockedCell.nib
drwxr-xr-x  2      4.0K Jan  4 2020 BlockedView.nib
drwxr-xr-x  2      4.0K Jan  4 2020 CacheView.nib
drwxr-xr-x  2      4.0K Jan  4 2020 CallAudioView.nib
drwxr-xr-x  2      4.0K Jan  4 2020 CallsView.nib
drwxr-xr-x  2      4.0K Jan  4 2020 CallVideoView.nib
drwxr-xr-x  2      4.0K Jan  4 2020 ChatsCell.nib
drwxr-xr-x  2      4.0K Jan  4 2020 ChatsView.nib
drwxr-xr-x  2      4.0K Jan  4 2020 _CodeSignature
-rw-r--r--  1      11K Jan  4 2020 countries.plist
drwxr-xr-x  2      4.0K Jan  4 2020 CountriesView.nib
drwxr-xr-x  2      4.0K Jan  4 2020 CreateGroupView.nib
drwxr-xr-x  2      4.0K Jan  4 2020 CustomStatusView.nib
drwxr-xr-x  2      4.0K Jan  4 2020 EditProfileView.nib
-rw-r--r--  1      7.4K Jan 13 2020 embedded.mobileprovision
drwxr-xr-x 25      4.0K Jan  4 2020 Frameworks
-rw-r--r--  1      719 Jan  4 2020 GoogleService-Info.plist
-rw-r--r--  1      876 Jan  4 2020 GoogleService-Info.plist
drwxr-xr-x 40      4.0K Jan  4 2020 GoogleSignIn.bundle
drwxr-xr-x  2      4.0K Jan  4 2020 GroupsCell.nib
drwxr-xr-x  2      4.0K Jan  4 2020 GroupsView.nib
drwxr-xr-x  2      4.0K Jan  4 2020 GroupView.nib
drwxr-xr-x  2     12K May  4 20:12 img_trash
-rw-r--r--  1      4.1K Jan 13 2020 Intro.plist
drwxr-xr-x  2      4.0K Jan  4 2020 KeepMediaView.nib
drwxr-xr-x  2      4.0K Jan  4 2020 LoginEmailView.nib
drwxr-xr-x  2      4.0K Jan  4 2020 LoginFacebookViewController.nib
drwxr-xr-x  2      4.0K Jan  4 2020 LoginGoogleVlew.nib
drwxr-xr-x  2      4.0K Jan  4 2020 LoginIcloudViewController.nib
drwxr-xr-x  2      4.0K Jan  4 2020 LoginPhoneView.nib
drwxr-xr-x  2      4.0K Jan  4 2020 MapView.nib
drwxr-xr-x  2      4.0K Jan  4 2020 MediaView.nib
drwxr-xr-x  2      4.0K Jan  4 2020 NetworkView.nib
drwxr-xr-x  2      4.0K Jan  4 2020 PasswordView.nib
drwxr-xr-x  2      4.0K Jan  4 2020 PeopleCell.nib
drwxr-xr-x  2      4.0K Jan  4 2020 PeopleView.nib
-rw-r--r--  1        8 Jan  4 2020 PkgInfo
```

I moved all the images to a folder to keep only the potentially interesting files from the archive, namely "app" stands out, what is it?

```
tmf:~/Downloads/app/Payload/app.app$ file app
app: Mach-O 64-bit arm64 executable, flags:<NOUNDEFS|DYLDLINK|TWOLEVEL|WEAK_DEFINES|BINDS_TO_WEAK|PIE>
tmf:~/Downloads/app/Payload/app.app$ md5sum app
e567efd5c800c5b0c6eb5aa0bccc10e9  app
```

And that, kids, how I met your malware, **e567efd5c800c5b0c6eb5aa0bccc10e9** , I met her on Facebook, report.

Congratulations, this is the first time the blog actually does what it stands for, sharing malware for everyone with a hint of analysis. (if you are reading this too late and the distribution site of the malware is down, no worries, it is also available at VirusTotal as a [standalone](#) and as an [archive](#))

Now you can enjoy your own copy of Phenakite and start reversing the Mach-O if you know how to :)

Bonus lol's:

The terms of service of the malware is.... [Lorem Ipsum](#) :

```
tnf:~/Downloads/app/Payload/app.app$ cat terms.html
<html>
<head>
<style>
p {
  font-family: Arial, Helvetica, sans-serif;
  font-size: 14;
}
</style>
</head><body>
<p><b>Terms of Service</b></p>
<p>Lorem ipsum dolor sit amet, consectetur adipiscing elit. Cras nec
  nascetur ridiculus mus. Aenean convallis hendrerit arcu, a imperdiet
  um elementum congue diam, eget facilisis ex viverra sit amet.</p>
<p>Pellentesque commodo, magna ut semper mattis, ante sem pellentesque
  s diam, efficitur et felis nec, egestas lacinia ante. Quisque nulla o
  urna enim, id maximus lectus iaculis vitae.</p>
<p>Lorem ipsum dolor sit amet, consectetur adipiscing elit. Cras nec
```

The privacy is seem to be borrowed from "relatedcode.com" which has an open source chat for iOS [repository](#), this is most likely the chat app that Facebook was referring to:

```
tnf:~/Downloads/app/Payload/app.app$ cat privacy.html | grep related
<p>When you register with us and use the Application, you generally provide (a) your name, email address, age, user name, password and other registration information; (b) transaction-related information, such as when you make purchases, respond to any offers, or download or use applications from us; (c) information you provide us when you contact us for help; (d) credit card information for purchase and use of the Application, and; (e) information you enter into our system when using the Application, such as contact information and project management information.</p>
<p>You can stop all collection of information by the Application easily by uninstalling the Application. You may use the standard uninstall processes as may be available as part of your mobile device or via the mobile application marketplace or network. You can also request to opt-out via email, at info@relatedcode.com.</p>
<p>We will retain User Provided data for as long as you use the Application and for a reasonable time thereafter. We will retain Automatically Collected Information for up to 24 months and thereafter may store it in aggregate. If you would like us to delete User Provided data that you have provided via the Application, please contact us at info@relatedcode.com and we will respond in a reasonable time. Please note that some or all of the User Provided data may be required in order for the Application to function properly.</p>
<p>We do not use the Application to knowingly solicit data from or market to children under the age of 13. If a parent or guardian becomes aware that his or her child has provided us with information without their consent, he or she should contact us at info@relatedcode.com. We will delete such information from our files within a reasonable time.</p>
<p>This Privacy Policy may be updated from time to time for any reason. We will notify you of any changes to our Privacy Policy by posting the new Privacy Policy at relatedcode.com and informing you via email or text message. You are advised to consult this Privacy Policy regularly for any changes, as continued use is deemed approval of all changes. You can check the history of this policy by clicking here.</p>
<p>If you have any questions regarding privacy while using the Application, or have questions about our practices, please contact us via email at info@relatedcode.com.</p>
```

All your base is on fire:

```
tnf:~/Downloads/app/Payload/app.app$ strings GoogleService-Info.plist
bplist00
!
AD_UNIT_ID_FOR_BANNER_TEST_
AD_UNIT_ID_FOR_INTERSTITIAL_TESTWAPI_KEYVBUNDLE_ID\DATABASE_URL]GCM_SENDER_ID]GOOGLE_APP_ID^IS_ADS_ENABLED_
IS_ANALYTICS_ENABLED_
IS_APPINVITE_ENABLED^IS_GCM_ENABLED_
IS_SIGNIN_ENABLED]PLIST_VERSIONZPROJECT_ID_
REVERSED_CLIENT_ID^STORAGE_BUCKET_
&ca-app-pub-3940256099942544/2934735716_
&ca-app-pub-3940256099942544/4411468910_
'AIzaSyAW7jPBqfevDBgHtEqcBN6Ua3a9vS6wv8]MagicChat.com_
I1054611193936-s0ceqjn7ui98qgsk40tnd6rb5fi4f4nb.apps.googleusercontent.com_
&https://magicchat-1f275.firebaseio.com/1054611193936_
```

More interesting strings:

```
ctmf:~/Downloads/app/Payload/app.app$ strings embedded.mobileprovision | grep string
<string>XC MagicChat com</string>
<string>NA2YTWG8U2</string>
  <string>iOS</string>
  <string>NA2YTWG8U2.MagicChat.com</string>
    <string>NA2YTWG8U2.*</string>
  <string>NA2YTWG8U2</string>
  <string>production</string>
<string>magicChat</string>
  <string>51ff4f3a9c792240c2e203e8c168f0341ff1060e</string>
  <string>7adc7f8491635772154b25858e2536fd4304b47f</string>
  <string>e602c2d296515663adeb691ba106e5baa3a5a9d0</string>
  <string>e7274d7e737beaec58891351e7b6f6a411243f57</string>
  <string>NA2YTWG8U2</string>
<string>roy been</string>
<string>24761a57-9c52-4761-9a7c-ddcf92d9bd9b</string>
```

phenakite.zip

MD5: 54e5e93c00c963cb66fd2d248c4c6ce7

SHA-1: 05527dddb79329d844f1954e3d36601926410bca

SHA-256: c2d66369c974558adabcd801b409492b73ad1cb5f9f412ef3a8820f1cae526903

app

MD5: e567efd5c800c5b0c6eb5aa0bccc10e9

SHA-1: da99195ff43093fb8237201e2ce412a925580a53

SHA-256: e1494164865acb719c1e32c86adf810ce52fcc48c46e777b9f98a99648de62c2

Source: <https://malware4all.blogspot.com/2021/05/grab-your-own-copy-phenakite-ios.html>